

Civil Site Planning Environmental Engineering

133 Court Street Portsmouth, NH 03801-4413

December 22, 2021

Kittery Planning Board 200 Rogers Road Kittery, Maine 03904

Re: Preliminary Site plan Review Application Wyman Hill 28 Wyman Avenue Kittery, Maine

Dear Members of the Board,

On behalf of the applicant, Lusitano, LLC, we respectfully submit a Preliminary Site Plan Review application for property located at 28 Wyman Avenue. The property currently hosts a residential dwelling used as a boarding house and is primarily open lawn except for a small section of wooded wetland on the north perimeter. The application contemplates the construction of three single-family detached houses together with associated site improvements.

If you have any questions or need additional information, please contact us. Thank you for your time and consideration.

Sincerely,

ALTUS ENGINEERING, INC.

Erik B. Saari Vice President

ebs/5116.aa-CoverLetter-122221

Enclosures

Preliminary Site Plan Review

PSPR-21-5

Your Submission

Attachments

Guests (0)

Finance Review
 Planning Department Review
 Subdivision Application Payment
 Peer Engineer Review
 Sewer Approval
 Planning Department Schedules Date with the Planning Board
 Planning Dept - Final Draft
 Planning Board to Sign Mylar
 Planning Dept - Registered Mylar Sign Off
 Planning Board Decision - Upload Findings of Fact

Your submission

Submitted Dec 22, 2021 at 12:36pm

Contact Information Erik Saari Email address esaari@altus-eng.com

Phone Number 603-433-2335

Mailing Address

Altus Engineering, Inc. 133 Court Street, Portsmouth, NH 03801

Location

28 WYMAN AVENUE KITTERY, ME 03904



Property Owner Information

First Name *

Lusitano, LLC

Last Name

--

Mailing Address * 119 KINGS HIGHWAY NORTH

Phone Number *

6,175,016,149

Email Address * jimhiggins05@comcast.net

Fax Number

1

Agent Information

First Name

Erik

Last Name *

Saari

Firm *

Altus Engineering, Inc.

Phone Number *

6,034,332,335

Email * esaari@altus-eng.com

Mailing Address * esaari@altus-eng.com

Fax Number

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Property Details

Property Address * 28 Wyman Ave.

Tax Map and Lot * Map 16 Lot148

Base Zone(s) *

R-U

Overlay(s) *

None

Total Acreage of Existing Lot * 🚱

1.9

Disturbed Land * 😯

No

MS4 * 🕜

No

Project Information
Existing Use * Boarding House
Proposed Development Use * Residential
Ownership * Condominium
Homeowner's Association * Yes
Site Plan Name * Wyman Hill
Development Constraints 🕑 Wetlands are present on the northeast corner of the site.

Waiver Request (Submittal Information or Development Standard)

No results to display

Certification

I certify, to the best of my knowledge, the information provided in this application is true and correct, abutters to the project have been notified, and I will not deviate from the Plan submitted without notifying the Kittery Planning Department of any changes *

 \mathbf{V}

Applicant is * Owner's Agent

150 foot Abutters List Report Kittery, ME December 20, 2021 Subject Property: Parcel Number: 16-148 Mailing Address: LUSITANO LLC 119 KING'S HIGHWAY NORTH CAMA Number: 16-148 Property Address: 28 WYMAN AVENUE ELIOT. ME 03903 Abutters: Parcel Number: 10-110 Mailing Address: SCHENKER, JANICE C YAZGAN, YALCIN CAMA Number: 29 TILTON AVENUE 10-110 Property Address: 29 TILTON AVENUE KITTERY, ME 03904-1310 Parcel Number: 10-111 Mailing Address: BROWN, SARAH E. CAMA Number: 10-111 31 TILTON AVENUE Property Address: 31 TILTON AVENUE KITTERY, ME 03904 Parcel Number: 10-112 Mailing Address: DEROSIER, MARA T. CAMA Number: 10-112 13 DEAN ROAD Property Address: **33 TILTON AVENUE** YORK, ME 03909-6704 Mailing Address: CONROY, PEGGY J Parcel Number: 10-94 CAMA Number: 10-94 **17 WYMAN AVENUE** Property Address: 17 WYMAN AVENUE KITTERY, ME 03904-1317 Parcel Number: 10-95 Mailing Address: NAVISH, JOHN F NAVISH, MARY P CAMA Number: 10-95 21 WYMAN AVENUE Property Address: 21 WYMAN AVENUE KITTERY, ME 03904-1317 Parcel Number: 10-96 REUTER, ERIC L. HERBOLD, STACEY Mailing Address: CAMA Number: 10-96 P Property Address: 23 WYMAN AVENUE 23 WYMAN AVENUE KITTERY, ME 03904 Parcel Number: Mailing Address: NIVER, PATRICIA L. 10-97 CAMA Number: 10-97 22 WYMAN AVENUE KITTERY, ME 03904 Property Address: 22 WYMAN AVENUE Parcel Number: 10-98 Mailing Address: MCKAY, ELIZABETH GEHRON, MICHAEL 10-98 CAMA Number: **18 WYMAN AVENUE** Property Address: 18 WYMAN AVENUE KITTERY, ME 03904-1318 Parcel Number: 16-145 Mailing Address: SPRUCE CREEK CONDOMINIUM CAMA Number: 16-145 50 WYMAN AVE KITTERY, ME 03904 Property Address: 50 WYMAN AVENUE Parcel Number: Mailing Address: DELANEY, MITCHELL 16-145A CAMA Number: 16-145A **50A WYMAN AVENUE** Property Address: 50 A WYMAN AVENUE KITTERY, ME 03904



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12/20/2021

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150 foot Abutters List Report Kittery, ME December 20, 2021



Parcel Number: CAMA Number: Property Address:	16-146 16-146 42 WYMAN AVENUE	Mailing Address:	BRACY, JEDIDIAH D BRACY, MARY ELIZABETH 42 WYMAN AVENUE KITTERY, ME 03904
Parcel Number: CAMA Number: Property Address:	16-147 16-147 30 WYMAN AVENUE	Mailing Address:	THE JOHN S. KULIGA REV. TRUST KULIGA, JOHN S. TR 30 WYMAN AVENUE KITTERY, ME 03904
Parcel Number: CAMA Number: Property Address:	16-149 16-149 27 WYMAN AVENUE	Mailing Address:	SOLEAU, JASON E SOLEAU, SARAH 138 BEECH RIDGE ROAD YORK, ME 03909
Parcel Number: CAMA Number: Property Address:	16-150 16-150 29 WYMAN AVENUE	Mailing Address:	PRIDE, JEFFREY A PRIDE, ANDREE L 29 WYMAN AVENUE KITTERY, ME 03904-1317
Parcel Number: CAMA Number: Property Address:	16-151 16-151 35 WYMAN AVENUE	Mailing Address:	HENRY, CHRISTOPHER P. HENRY, JULIA 35 WYMAN AVE KITTERY, ME 03904
Parcel Number: CAMA Number: Property Address:	16-152 16-152 37 WYMAN AVENUE	Mailing Address:	SMALL, ALBERT W SMALL, PATRICIA K 37 WYMAN AVENUE KITTERY, ME 03904-1317
Parcel Number: CAMA Number: Property Address:	16-153 16-153 39 WYMAN AVENUE	Mailing Address:	FITZGERALD TR, CARL E FITZGERALD TR, DELORES E 21 WENTWORTH STREET KITTERY, ME 03904-1720
Parcel Number: CAMA Number: Property Address:	16-154 16-154 41 WYMAN AVENUE	Mailing Address:	O'BRIEN, NICHOLAS D. MAILMAN, KATRINA A. 41 WYMAN AVE KITTERY, ME 03904
Parcel Number: CAMA Number: Property Address:	16-178 16-178 35 TILTON AVENUE	Mailing Address:	SANDQUIST, BRETT SANDQUIST, PAMELA 35 TILTON AVENUE KITTERY, ME 03904
Parcel Number: CAMA Number: Property Address:	16-179 16-179 37 TILTON AVENUE	Mailing Address:	CAREY, MARY H. 37 TILTON AVENUE KITTERY, ME 03904
Parcel Number: CAMA Number: Property Address:	16-180 16-180 39 TILTON AVENUE	Mailing Address:	CLEARY, JENNIFER L. CLEARY, COLEY J. 39 TILTON AVENUE KITTERY, ME 03904
Parcel Number: CAMA Number: Property Address:	16-181 16-181 43 TILTON AVENUE	Mailing Address:	MORRELL, ZEKE MORRELL, JODI 43 TILTON AVENUE KITTERY, ME 03904-1310



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150 foot Abutters List Report Kittery, ME December 20, 2021



Parcel Number: CAMA Number: Property Address:	16-182 16-182 45 TILTON AVENUE	Mailing Address:	O'NEILL, SHEILA J WILSON, GRANT M 45 TILTON AVENUE KITTERY, ME 03904-1310
Parcel Number: CAMA Number: Property Address:	16-183 16-183 47 TILTON AVENUE	Mailing Address:	ROLLINS TR, TODD P ROLLINS TR, CHERIA CLOW 47 TILTON AVENUE KITTERY, ME 03904
Parcel Number: CAMA Number: Property Address:	16-184 16-184 49 TILTON AVENUE	Mailing Address:	GRASTY, THOMAS A GRASTY, SARA GALLANT 49 TILTON AVENUE KITTERY, ME 03904-1310
Parcel Number: CAMA Number: Property Address:	16-185 16-185 51 TILTON AVENUE	Mailing Address:	CAMBRIDGE, NANCY L CAMBRIDGE, KEVIN W 51 TILTON AVENUE KITTERY, ME 03904
Parcel Number: CAMA Number: Property Address:	16-194 16-194 50 TILTON AVENUE	Mailing Address:	PIERCE TR, ANN G THE PIERCE FAMILY REV TRUST 6 ROSELLEN DRIVE KITTERY POINT, ME 03905
Parcel Number: CAMA Number: Property Address:	16-195 16-195 46 TILTON AVENUE	Mailing Address:	FIMPLE, JOSEPH L FIMPLE, HELEN MARJORIE 46 TILTON AVENUE KITTERY, ME 03904-1311
Parcel Number: CAMA Number: Property Address:	16-196 16-196 44 TILTON AVENUE	Mailing Address:	BREEN, COURTNEY E MARBLE, PATRICK G 44 TILTON AVENUE KITTERY, ME 03904
Parcel Number: CAMA Number: Property Address:	16-197 16-197 42 TILTON AVENUE	Mailing Address:	KUETHE, BENJAMIN TAPSON, KELLY 42 TILTON AVENUE KITTERY, ME 03904
Parcel Number: CAMA Number: Property Address:	16-198 16-198 36 TILTON AVENUE	Mailing Address:	GALLESHAW, SERENA 36 TILTON AVENUE KITTERY, ME 03904
Parcel Number: CAMA Number: Property Address:	16-198A 16-198A 40 TILTON AVENUE	Mailing Address:	SLAUGENHOUP, RAY E 40 TILTON AVENUE KITTERY, ME 03904-1311



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Abutting Properties Within 150' Radius of Project Site



Civil Site Planning Environmental Engineering

133 Court Street Portsmouth, NH 03801-4413

December 20, 2021

Abutting Property Owner

Re: Preliminary Site Plan Tax Map 16, Lot 148 28 Wyman Avenue Kittery, Maine 03904 Altus Project No. 5235

Dear Abutter,

Pursuant to the Kittery Site Plan Review Regulations, this letter is to notify you that Lusitano, LLC is submitting a Preliminary Site Plan Review Application to the Town of Kittery for property at 28 Wyman Ave. in Kittery, Maine.

The application proposes to replace the existing boarding house on the property with three detached single-family homes together with associated site improvements.

This letter is for the notification of abutting property owners only and <u>no action by you is required.</u>

Once filed, the plans that show the proposed project will be available for viewing during normal business hours at the Town of Kittery Planning Department, 200 Rogers Road, Kittery, Maine.

Thank you for your time and consideration.

Sincerely,

ALTUS ENGINEERING, INC.

Erik B. Saari Vice President

ebs/5235-AbutterLetter-122021

Letter of Authorization

I, Jim Higgins of Lusitano, LLC ("LLC"), hereby authorize Altus Engineering, Inc. of Portsmouth, NH to represent the LLC as the Owner and Applicant in all matters concerning the engineering and related permitting of a site plan on Kittery Tax Map 16, Lot 148 located at 28 Wyman Ave. in Kittery Maine. This authorization shall include any signatures required for Federal, State and Municipal permit applications.

-) //iture

<u>James D. Jibg mis</u> <u>Jim Higgins</u> <u>Jim Higgins</u>





DEED OF SALE BY PERSONAL REPRESENTATIVE

KNOW ALL MEN BY THESE PRESENTS

That LINDA L. THERIAULT of Eliot, County of York and State of Maine, duly appointed and acting Personal Representative of the Estate of HARRY JOSEPH HANNIGAN a/k/a HARRY J. HANNIGAN, deceased, who died testate, as shown by the probate records of the County of York, Maine, Docket No. 2015-0936, and having given notice to each person succeeding to an interest in the real property described below at least ten (10) days prior to the sale, by the power conferred by the Probate Code, and every other power, for consideration paid, grants to LUSITANO LLC, a Maine Limited Liability Company, % Rui Monteiro-Claro with a mailing address of 119 Kings Highway North, Eliot, ME 03903, all the right, title and interest of the Estate in and to the following described real estate, together with the buildings thereon, situate in Kittery, County of York and State of Maine and bounded as follows:

SEE Exhibit A attached hereto and made a part hereof.

Maine R.E. Transfer Tax Paid

BEING the same premises conveyed by Amelia M. Hannigan to Harry J. Hannigan and Patricia A. Hannigan as joint tenants by Deed dated August 4, 1986 and recorded in the York County Registry of Deeds, Book 3961, Page 42. The said Patricia A. Hannigan predeceased her husband, leaving Harry J. Hannigan the surviving joint tenant.

WITNESS my hand and seal this 20th day of June, 2017.

Linda L. Theriault Personal Representative of the Estate of Harry Joseph Hannigan a/k/a Harry J. Hannigan

STATE OF MAINE YORK, ss.

June 20, 2017

Then personally appeared the above-named LINDA L. THERIAULT in her said capacity as Personal Representative of the Estate of Harry Joseph Hannigan a/k/a Harry J. Hannigan and acknowledged the foregoing instrument to be her free act and deed,

Before me,

Donna M. Reynolds, Notary Public My commission expires 6/30/22

Probate\HANNGAN-H.PRD.Wyman 16395-23817



28 Wyman Avenue Kittery, Maine Kittery Map 16, Lot 148

EXHIBIT A

A certain lot or parcel of land with the existing house and garage and all other improvements located thereon, depicted as "TAX MAP 16, Lot 148, 82,839 square feet, 1.90 acres", on plan entitled, "Standard Boundary Survey for Property at 28 Wyman Avenue, Kittery, York County, Maine owned by Harry A. & Patricia J. Hannigan, 28 Wyman Avenue, Kittery, ME 03904," prepared by Easterly Surveying, Inc., 191 State Road, Suite #1, Kittery, Maine 03904, dated 4/3/08 and recorded in the York County Registry of Deeds on April 15, 2008 in Plan Book 329 at Page 7.

STORMWATER INSPECTION AND MAINTENANCE MANUAL

Wyman Hill Kittery Assessor's Map 16, Lot 148

OWNER AT TIME OF APPROVAL: Lusitano, LLC 119 King's Highway North Elliot, Maine 03903

Proper inspection, maintenance, and repair are key elements in maintaining a successful stormwater management program on a developed property. Routine inspections ensure permit compliance and reduce the potential for deterioration of infrastructure or reduced water quality. Inspections should also be carried out after any rainfall of 1" or more. Qualified inspectors shall be Professional Engineers licensed in the State of Maine or Certified Professionals in Erosion and Sediment Control. The following responsible parties shall be in charge of managing the stormwater facilities:

RESPONSIBLE PARTIES:

Owner:	<u>Lusitano, LLC</u>	<u>(617) 501-6149</u>	
	Name	Company	Phone
Inspection:	Lusitano, LLC		<u>(617) 501-6149</u>
	Name	Company	Phone
Maintenance	: Lusitano, LLC		(617) 501-6149
	Name	Company	Phone

NOTES:

Inspection and maintenance responsibilities shall transfer to any future property owner(s).

This manual shall be updated as needed to reflect any changes related to any transfer of ownership and/or any delegation of inspection and maintenance responsibilities to any entity other than those listed above.



GRASSED UNDERDRAINED SOIL FILTERS

Underdrain soil filters control stormwater quality by capturing and retaining runoff and passing it through a filter bed comprised of a specific media. The basin shall be inspected semi-annually and following major storm events for evidence of erosion, clogging or of bypass conditions.

Maintenance

- *Drainage:* The filter should within 24 to 48 hours following a one-inch storm or greater. If the system drains too fast, adjust the outlet release valve opening to regulate the outflow.
- *Sediment Removal*: Sediment and plant debris should be removed from the pretreatment structure at least annually.
- *Mowing*: If mowing is desired, only hand-held string trimmers or push-mowers are allowed on the filter (no tractor) and the grass bed should be mowed no more than 2 times per growing season to maintain grass heights of no less than 6 inches.
- *Fertilization:* Fertilization of the underdrained filter area should be avoided unless absolutely necessary to establish vegetation.
- *Weeding:* Weeding to control unwanted or invasive plants if necessary.
- *Grass cover:* Maintaining a healthy cover of grass will minimize clogging with fine sediments. If ponding exceeds 48 hours, the top of the filter bed should be rototilled to reestablish the soil's filtration capacity.
- *Soil Filter Replacement:* The top several inches of the filter can be replaced with fresh material if water is ponding for more than 72 hours, or the basin can be rototilled, seeded and mulched. Once the filter is mature, adding new material (a 1-inch to 2-inch cover of mature compost) can compensate for subsidence.

CULVERTS AND DRAINAGE PIPES

Function – Culverts and drainage pipes convey stormwater away from buildings, walkways, and parking areas and to surface waters or closed drainage systems.

Maintenance

- Culverts and drainage pipes shall be inspected semi-annually, or more often as needed, for accumulation of debris and structural integrity. Leaves and other debris shall be removed from the inlet and outlet to insure the functionality of drainage structures. Debris shall be disposed of on site where it will not concentrate back at the drainage structures or at a solid waste disposal facility.
- Riprap Areas Culvert outlets and inlets shall be inspected during annual maintenance and operations for erosion and scour. If scour or erosion is identified, the owner shall take appropriate means to prevent further erosion.

YARD DRAINS

Function – Yard drains collect stormwater, primarily from paved surfaces, landscape areas and roofs.

Maintenance

- Remove leaves and debris from structure grates on an as-needed basis.
- Sumps shall be inspected and cleaned annually and any removed sediment and debris shall be disposed of at a solid waste disposal facility.

LANDSCAPED AREAS - FERTILIZER MANAGEMENT

Function – Fertilizer management involves controlling the rate, timing and method of fertilizer application so that the nutrients are taken up by the plants thereby reducing the chance of polluting the surface and ground waters. Fertilizer management can be effective in reducing the amounts of phosphorus and nitrogen in runoff from landscaped areas, particularly lawns.

Maintenance

- Have the soil tested by your landscaper or local Soil Conservation Service for nutrient requirements and follow the recommendations.
- Do not apply fertilizer to frozen ground.
- Clean up any fertilizer spills.
- Do not allow fertilizer to be broadcast into water bodies.
- When fertilizing a lawn, water thoroughly, but do not create a situation where water runs off the surface of the lawn.

LANDSCAPED AREAS - LITTER CONTROL

Function – Landscaped areas tend to filter debris and contaminates that may block drainage systems and pollute the surface and ground waters.

Maintenance

- Litter Control and lawn maintenance involves removing litter such as trash, leaves, lawn clippings, pet wastes, oil and chemicals from streets, parking lots, and lawns before materials are transported into surface waters.
- Litter control shall be implemented as part of the grounds maintenance program.

VEGETATIVE SWALES

Function – Vegetative swales filter sediment from stormwater, promote infiltration, and the uptake of contaminates. They are designed to treat runoff and dispose of it safely into the natural drainage system.

Maintenance

- Timely maintenance is important to keep a swale in good working condition. Mowing of grassed swales shall be monthly to keep the vegetation in vigorous condition. The cut vegetation shall be removed to prevent the decaying organic litter from adding pollutants to the discharge from the swale.
- Fertilizing shall be bi-annual or as recommended from soil testing.
- Inspect swales following significant rainfall events.
- Woody vegetation shall not be allowed to become established in the swales or rock riprap outlet protection and if present shall be removed.
- Accumulated debris disrupts flow and leads to clogging and erosion. Remove debris and litter as necessary.
- Inspect for eroded areas. Determine cause of erosion and correct deficiency as required. Monitor repaired areas.

RIP RAP OUTLETS, PLUNGE POOLS, SWALES, LEVEL SPREADERS AND BUFFERS

Function – Rip rap outlets and plunge pools slow the velocity of runoff, minimizing erosion and maximizing the treatment capabilities of associated buffers. Vegetated buffers, either forested or meadow, slow runoff which promotes and reduces peak rates of runoff. The reduced velocities and the presence of vegetation encourage the filtration of sediment and the limited bio-uptake of nutrients.

Maintenance

- Inspect riprap, level spreaders and buffers at least annually for signs of erosion, sediment buildup, or vegetation loss.
- Inspect level for signs of condensed flows. Level spreader and rip rap shall be maintained to disperse flows evenly over level spreader.
- If a meadow buffer, provide periodic mowing as needed to maintain a healthy stand of herbaceous vegetation.
- If a forested buffer, then the buffer should be maintained in an undisturbed condition, unless erosion occurs.
- If erosion of the buffer (forested or meadow) occurs, eroded areas should be repaired and replanted with vegetation similar to the remaining buffer. Corrective action should include eliminating the source of the erosion problem and may require retrofit or reconstruction of the level spreader.
- Remove debris and accumulated sediment and dispose of properly.

GENERAL CLEAN UP

- Upon completion of the project, the contractor shall remove all temporary stormwater structures (i.e., temporary stone check dams, silt fence, temporary diversion swales, catch basin inlet filter, etc.). Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform to the existing grade, prepared, and seeded. Remove any sediment in catch basins and clean drain pipes that may have accumulated during construction.
- Once in operation, all paved areas of the site should be swept at least once annually at the end of winter/early spring prior to significant spring rains.

MUNICIPAL REPORTING

The Owner shall retain a qualified post-construction stormwater inspector to inspect the site's stormwater infrastructure. By July 1 of each year, said inspector shall provide a completed and signed certification to the Town's Code Enforcement Officer that the inspection has been completed. The notification shall include a determination of the ongoing maintenance and functionality of the infrastructure, describe any deficiencies, and outline any necessary corrective action taken or recommended to the Owner.

APPPENDIX

- A. Stormwater System Operations and Maintenance Report
- B. Site Grading and Drainage Plan

STORM WATER SYSTEM OPERATION AND MAINTENANCE REPORT

	General Information				
Project Name					
Owner					
Inspector's Name(s)					
Inspector's Contact Information					
Date of Inspection			Start Time:	End Time:	
Type of Inspection: Annual Report Post-storm event Due to a discharge of significant amounts of sediment					
Notes:					

	General Site Questions and Discharges of Significant Amounts of Sediment				
Sub	oject	Status	Notes		
A d	A discharge of significant amounts of sediment may be indicated by (but is not limited to) observations of the following.				
Not	e whether any are observed during this i	inspection:			
			Notes/ Action taken:		
1	Do the current site conditions reflect	□Yes			
	the attached site plan?	□No			
2	Is the site permanently stabilized,	□Yes			
	temporary erosion and sediment	□No			
	controls are removed, and stormwater				
	discharges from construction activity				
	are eliminated?				
3	Is there evidence of the discharge of	□Yes			
	significant amounts of sediment to	□No			
	surface waters, or conveyance				
	systems leading to surface waters?				

	Permit Coverage and Plans						
#	BMP/Facility	Inspected	Corrective Action Needed and Notes	Date Corrected			
	Grassed Underdrained Soil Filters	□Yes □No					
	Yard Drains	□Yes □No					
	Drainage Pipes	□Yes □No					
	Plunge Pools	□Yes □No					
	Vegetated Areas	□Yes □No					
		□Yes □No					
		□Yes □No					



United States Department of Agriculture

Natural Resources Conservation

Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for York County, Maine



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/? cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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Map Unit Descriptions	8
York County, Maine	
LnB—Lyman loam, 3 to 8 percent slopes, rocky	10
LnC—Lyman loam, 8 to 15 percent slopes, rocky	11

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



	MAP L	EGEND		MAP INFORMATION
Area of Int	terest (AOI)	33	Spoil Area	The soil surveys that comprise your AOI were mapped at
	Area of Interest (AOI)	٥	Stony Spot	1:20,000.
Soils		0	Very Stony Spot	Warning: Soil Man may not be valid at this scale
	Soil Map Unit Polygons	Ŷ	Wet Spot	Warning. Con Map may not be valid at this searc.
~	Soil Map Unit Lines	8	Other	Enlargement of maps beyond the scale of mapping can cause
	Soil Map Unit Points	-	Special Line Features	misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of
Special	Point Features	Wator Eog	turos	contrasting soils that could have been shown at a more detailed
అ	Blowout	Water Fea	Streams and Canals	scale.
\boxtimes	Borrow Pit	Transport	ation	Please rely on the har scale on each man sheet for man
×	Clay Spot	+++	Rails	measurements.
\diamond	Closed Depression	~	Interstate Highways	
X	Gravel Pit	~	US Routes	Source of Map: Natural Resources Conservation Service Web Soil Survey URL:
0 0 0	Gravelly Spot		Maior Roads	Coordinate System: Web Mercator (EPSG:3857)
0	Landfill		, Local Roads	Maps from the Web Soil Survey are based on the Web Mercator
A	Lava Flow	Backgrou	nd	projection, which preserves direction and shape but distorts
عاد	Marsh or swamp	Backgrou	Aerial Photography	distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more
~	Mine or Quarry			accurate calculations of distance or area are required.
â	Miscellaneous Water			This product is generated from the LICDA NDCC sortified data as
0	Perennial Water			of the version date(s) listed below.
0	Pock Outcrop			
×				Soil Survey Area: York County, Maine Survey Area Data: Version 19 May 29 2020
+				Currey, aca Lata: 10.000.10,
°*0	Sandy Spot			Soil map units are labeled (as space allows) for map scales
4	Severely Eroded Spot			1.50,000 of larger.
\diamond	Sinkhole			Date(s) aerial images were photographed: Dec 31, 2009—Sep
≫	Slide or Slip			9, 2017
ø	Sodic Spot			The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
LnB	Lyman loam, 3 to 8 percent slopes, rocky	1.5	20.2%
LnC	Lyman loam, 8 to 15 percent slopes, rocky	5.8	79.8%
Totals for Area of Interest	•	7.2	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

York County, Maine

LnB—Lyman loam, 3 to 8 percent slopes, rocky

Map Unit Setting

National map unit symbol: 2trq7 Elevation: 0 to 520 feet Mean annual precipitation: 36 to 65 inches Mean annual air temperature: 36 to 52 degrees F Frost-free period: 60 to 160 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Lyman, rocky, and similar soils: 86 percent *Minor components:* 14 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Lyman, Rocky

Setting

Landform: Mountains, hills Landform position (two-dimensional): Shoulder, summit, backslope Landform position (three-dimensional): Mountaintop, mountainbase, crest, side slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Loamy supraglacial till derived from granite and gneiss and/or loamy supraglacial till derived from phyllite and/or loamy supraglacial till derived from mica schist

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material

A - 1 to 3 inches: loam

E - 3 to 5 inches: fine sandy loam

Bhs - 5 to 7 inches: loam

Bs1 - 7 to 11 inches: loam

Bs2 - 11 to 18 inches: channery loam

R - 18 to 28 inches: bedrock

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 11 to 24 inches to lithic bedrock
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to high (0.00 to 14.03 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 2s Hydrologic Soil Group: D Hydric soil rating: No

Minor Components

Tunbridge, rocky

Percent of map unit: 6 percent Landform: Hills, mountains Landform position (two-dimensional): Backslope, summit, shoulder Landform position (three-dimensional): Mountaintop, mountainbase, side slope, crest Down-slope shape: Convex Across-slope shape: Convex Hydric soil rating: No

Skerry, rocky

Percent of map unit: 5 percent Landform: Hills, mountains Landform position (two-dimensional): Footslope, backslope Landform position (three-dimensional): Mountaintop, mountainbase, crest, side slope Microfeatures of landform position: Closed depressions, closed depressions Down-slope shape: Concave Across-slope shape: Concave Hydric soil rating: No

Hermon, rocky

Percent of map unit: 2 percent Landform: Hills, mountains Landform position (two-dimensional): Backslope, summit, shoulder Landform position (three-dimensional): Mountaintop, mountainbase, side slope, crest Down-slope shape: Convex Across-slope shape: Convex Hydric soil rating: No

Brayton, rocky

Percent of map unit: 1 percent Landform: Hills, mountains Landform position (two-dimensional): Toeslope, footslope Landform position (three-dimensional): Mountaintop, mountainbase, crest, side slope Microfeatures of landform position: Closed depressions, closed depressions Down-slope shape: Concave Across-slope shape: Concave Hydric soil rating: Yes

LnC—Lyman loam, 8 to 15 percent slopes, rocky

Map Unit Setting

National map unit symbol: 2trq9 Elevation: 0 to 690 feet Mean annual precipitation: 36 to 65 inches *Mean annual air temperature:* 36 to 52 degrees F *Frost-free period:* 60 to 160 days *Farmland classification:* Not prime farmland

Map Unit Composition

Lyman, rocky, and similar soils: 86 percent *Minor components:* 14 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Lyman, Rocky

Setting

Landform: Hills, mountains

Landform position (two-dimensional): Shoulder, summit, backslope

Landform position (three-dimensional): Mountaintop, mountainbase,

mountainflank, crest, side slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Loamy supraglacial till derived from granite and gneiss and/or loamy supraglacial till derived from phyllite and/or loamy supraglacial till derived from mica schist

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material

A - 1 to 3 inches: loam

E - 3 to 5 inches: fine sandy loam

Bhs - 5 to 7 inches: loam

Bs1 - 7 to 11 inches: loam

Bs2 - 11 to 18 inches: channery loam

R - 18 to 28 inches: bedrock

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: 11 to 24 inches to lithic bedrock
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to high (0.00 to 14.03 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3e Hydrologic Soil Group: D Hydric soil rating: No

Minor Components

Tunbridge, rocky

Percent of map unit: 6 percent Landform: Mountains, hills Landform position (two-dimensional): Backslope, summit, shoulder Landform position (three-dimensional): Mountaintop, mountainbase, mountainflank, side slope, crest Down-slope shape: Convex Across-slope shape: Convex Hydric soil rating: No

Skerry, rocky

Percent of map unit: 5 percent Landform: Hills, mountains Landform position (two-dimensional): Footslope, backslope Landform position (three-dimensional): Mountaintop, mountainbase, mountainflank, crest, side slope Microfeatures of landform position: Closed depressions, closed depressions, open depressions, open depressions Down-slope shape: Concave Across-slope shape: Concave Hydric soil rating: No

Hermon, rocky

Percent of map unit: 2 percent Landform: Hills, mountains Landform position (two-dimensional): Summit, shoulder, backslope Landform position (three-dimensional): Mountaintop, mountainbase, mountainflank, side slope, crest Down-slope shape: Convex Across-slope shape: Convex Hydric soil rating: No

Brayton, rocky

Percent of map unit: 1 percent

Landform: Hills, mountains

Landform position (two-dimensional): Toeslope, footslope

Landform position (three-dimensional): Mountaintop, mountainbase,

mountainflank, crest, side slope

Microfeatures of landform position: Open depressions, open depressions, closed depressions

Down-slope shape: Concave

Across-slope shape: Concave

Hydric soil rating: Yes

Owner/Applicant:

LUSITANO, LLC JIM HIGGINS

119 KINGS HIGHWAY NO. ELIOT, MAINE 03903 (617) 501-6149

133 Court Street (603) 433-2335

Portsmouth, NH 03801 www.altus-eng.com

Architect: HIGGINS + DESIGN

119 Kings Highway North Eliot, ME 03903 (617) 501-6149 jimhiggins05@comcast.net

Surveyor:

191 STATE ROAD, SUITE #1 KITTERY, MAINE 03904

Soils/Wetlands Scientist: MICHAEL MARIANO, CSS

75 Prospect Street Somersworth, NH 03878 (603) 692–4457

WYMAN HILL

28 WYMAN AVENUE KITTERY, MAINE

Assessor's Parcel 16, Lot 148

Plan Issue Date:

December 22, 2021

Planning Board Submission

Sheet Index Title

Existing Condi Demolition Pla Condominium Grading & SW Utility Plan Erosion Contro Erosion Contro Details Sheet Details Sheet Layout Plans Elevations Elevations

THIS DRAWING SET HAS NOT BEEN RELEASED FOR CONSTRUCTION

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X	Sheet No.:	Rev.	Date
itions Plan	1 of 1	0	07/09/21
an	C-1	0	12/22/21
Site Plan	C-2	0	12/22/21
/M Plan	C-3	0	12/22/21
	C-4	0	12/22/21
ol Notes	C-5	0	12/22/21
ol Details	C-6	0	12/22/21
	C-7	0	12/22/21
	C-8	0	12/22/21
	A01	0	11/22/21
	A02	0	11/22/21
	A03	0	11/22/21

ZONING DATA PER KITTERY ZONING ORDINANCE (LAST AMENDED JANUARY 11, 2021 - SEE NOTE#6):

BASE ZONE: Residential-Urban (R-U)

REQUIREMENTS:

	MINIMUM LAND AREA	
	PER DWELLING UNIT:	20,000 Sq F
	MINIMUM LOT SIZE:	20,000 Sq F
	MINIMUM STREET FRONTAGE:	100 Ft
•	MINIMUM FRONT YARD:	30 Ft
	MAXIMUM BUILDING COVERAGE:	20%
	MINIMUM REAR AND SIDE YARDS:	15 Ft*
	MAXIMUM BUILDING HEIGHT:	35 Ft*
	•••••	

BUILDING COVERAGE CALCULATION:

LOT AREA:	82,839 SQ. FT.
HOUSE: GARAGE:	1,635± SQ. FT. 678± SQ. FT.
TOTAL:	2,313± SQ. FT. (2.8%)

MONUMENTATION LEGEND:

• MONUMENT FOUND PER PLAN REFERENCE #1

IRON ROD WITH CAP #1322 SET PER PLAN REFERENCE #1

		C	RAPH	IC SCALE	
30	Ŷ	15 1	30 [.]	60	
.		•	(IN 1 inch	FEET) = 30 ft.	

VERTICAL DATUM - ASSUMED

1. "STANDARD BOUNDARY SURVEY FOR PROPERTY AT 28 WYMAN AVENUE, KITTERY, YORK COUNTY, MAINE OWNED BY HARRY A. & PATRICIA J. HANNIGAN", PREPARED BY NORTH EASTERLY SURVEYING INC., DATED APRIL 14, 2008, AND RECORDED AT THE Y.C.R.D. AS PLAN BOOK 329 PAGE 7.

2, "LAND OF MATTAWAMKEAG REALTY CO., LOCATED IN KITTERY, MAINE," BY JOHN W. DURGIN CIVIL ENGINEERS DATED JUNE 10, 1941 AND RECORDED AT Y.C.R.D. PLAN BOOK 16 PAGES 31 & 32.

3. "PLAN OF PARCEL OF LOTS ON PROPERTY OF HARRY N. WYMAN IN KITTERY, YORK COUNTY, MAINE" PREPARED BY C.S. GERRISH, CE, DATED DECEMBER 8, 1938, Y.C.R.D. BOOK 17 PAGE 7.

4. "STANDARD BOUNDARY SURVEY FOR PROPERTY AT 44 TILTON AVENUE, YORK COUNTY, KITTERY, MAINE OWNED BY CANDACE J. DELISIO" PREPARED BY NORTH EASTERLY SURVEYING, INC., DATED SEPTEMBER 12, 2002. 5. "STANDARD BOUNDARY SURVEY FOR PROPERTY AT 49 TILTON AVENUE, KITTERY, YORK COUNTY, MAINE OWNED BY SARA GALLANT GRASTY" PREPARED BY NORTH EASTERLY SURVEYING, INC., DATED JANUARY 9, 2008,

> TAX MAP 16 LOT 148 LUSITANO, LLC Y.C.R.D. BOOK 17499 PAGE 681 DATED FEBRUARY 23, 2007

2. TOTAL EXISTING PARCEL AREA: TAX MAP 16 LOT 148 1.90 Acres

3. BASIS OF BEARING IS PER PLAN REFERENCE #1.

4. APPROXIMATE ABUTTER'S LINES SHOWN HEREON ARE FOR REFERENCE PURPOSES ONLY AND SHALL NOT BE RELIED UPON AS BOUNDARY INFORMATION.

5. EASEMENTS OR OTHER UNWRITTEN RIGHTS MAY EXIST THAT ENCUMBER OR BENEFIT THE PROPERTY NOT SHOWN HEREON.

6. ZONING INFORMATION AND SETBACKS SHOWN HEREON ARE FOR REFERENCE PURPOSES. CONFIRM CURRENT ZONING REQUIREMENTS WITH THE TOWN OF KITTERY PRIOR TO DESIGN OR

7. THE BOUNDARY SHOWN HEREON IS PER PLAN REFERENCE #1.

8. ABUTTING DEEDS CALL FOR A "16-FOOT WIDE PASSAGEWAY" WHERE WYMAN AVENUE EXISTS. A 30-FOOT WIDE RIGHT OF WAY (AS SHOWN ON ABUTTING PLANS) WAS ASSUMED FOR THE BOUNDARY SHOWN HEREON, REFERENCE IS MADE TO PLAN REFERENCE #1.

PURPOSE OF PLAN:

THE PURPOSE OF THIS PLAN IS TO SHOW EXISTING CONDITIONS FOR DESIGN PURPOSES. THIS PLAN IS NOT A STANDARD BOUNDARY SURVEY AND IS NOT INTENDED TO BE RECORDED, USED FOR CONVEYANCE, OR ANY OTHER TITLE PURPOSE.

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MA IN THIS	EZ	XISTIN(28	G CON FOR PROM B Wyma	DITION PERTY AT n Avenue	S PLA	N
NIA *	Kittery, York County, Maine					
	OWNED BY					
ONTO RELIGION	Lusitano, LLC					
Mun		119 Kinas	Attn: Jin S Hiahway N	n Higgins No., Fliot, MF	03903	
. Juna						
	North					
7/9/2021		W	EAS	STERLY		
		C N	SURVE	EYING,	Inc.	
	SURVEYORS	IN N.H. 8	MAINE	191 STA	LE ROAD,	SUITE #1
	(207) 439–633	3	KITTEF	Y. MAINE	03904
	SCALE:	PROJECT NO	DATE	SUEET.	DRAMAL RY	
	1" = 30'	08610	7/9/21	1 OF 1	A.H.P.	P.L.A.
	DRAWING No: (08610_EXISTING_	CONDITIONS	m	. 40 T	4 4 4 0
BY CHKD APPD.	FIELD BOOK No:	Kittery #40		Tax Map) 16 LO	τ 140

D	EMOLITION NOTES	
1.	CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES SCHEDULED TO REMAIN.	
2.	. ALL MATERIALS SCHEDULED FOR DEMOLITION OR REMOVAL ON PRIVATE PROPERTY SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED.	ALIUS ENGINEERING, INC.
3.	. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY NOTIFICATION OF ALL PARTIES, CORPORATIONS, COMPANIES, INDIVIDUALS AND STATE AND LOCAL AUTHORITIES OWNING AND/OR HAVING JURISDICTION OVER ANY UTILITIES RUNNING TO, THROUGH OR ACROSS AREAS TO BE DISTURBED BY DEMOLITION AND/OR CONSTRUCTION ACTIVITIES WHETHER OR NOT SAID UTILITIES ARE SUBJECT TO DEMOLITION RELOCATION MODIFICATION AND/OR	133 Court Street (603) 433-2335Portsmouth, NH 03801 www.altus-eng.comSURVEYOR:
4.	CONSTRUCTION. AT NO TIME SHALL ANY UTILITY SERVICE OR VEHICULAR ACCESS TO ADJOINING PROPERTIES BE COMPLETELY INTERRUPTED UNLESS A FULL SHUTDOWN IS COORDINATED WITH ALL AFFECTED PARTIES AND UTILITY PROVIDER(S)	North W EASTERLY
5.	ALL UTILITY DISCONNECTIONS/DEMOLITIONS/RELOCATIONS SHALL BE COORDINATED BETWEEN THE CONTRACTOR, ALL APPROPRIATE UTILITY COMPANIES, KITTERY DPW AND ABUTTING PROPERTY OWNERS AS NECESSARY. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELATED EXCAVATION. TRENCHING	SURVEYING, Inc. surveyors in n.h. & maine 191 state road, suite #1 kittery, maine 03904 (207) 439-6333
6.	AND BACKFILLING. WHERE SPECIFIED TO REMAIN, MANHOLE RIMS, CATCH BASIN GRATES, VALVE COVERS, HANDHOLES, ETC. SHALL BE ADJUSTED TO FINISH GRADE UNLESS OTHERWISE SPECIFIED.	TE OF MANNE
7.	 SEE EROSION CONTROL PLANS FOR PERIMETER EROSION AND SEDIMENT CONTROL MEASURES THAT SHALL BE IN PLACE PRIOR TO DEMOLITION ACTIVITIES. ALL MATERIAL SCHEDULED TO BE REMOVED SHALL BE 	ERIC D. VVEINRIEB No. 6658
9.	LEGALLY DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS/CODES. . CONTRACTOR TO CONTACT KITTERY WATER DISTRICT (KWD) AND KITTERY SEWER DISTRICT (KSD) A MINIMUM OF TWO WEEKS PRIOR TO ANY DEMOLITION TO COORDINATE ALL	
10	WEEKS FRIGK TO ANT DEMOLITION TO COORDINATE ALL WORK CONCERNING DISCONNECTION/DEMOLITION OF ANY PROPOSED WATER AND SEWER LINE IMPROVEMENTS.	THIS DRAWING HAS NOT BEEN RELEASED FOR CONSTRUCTION
11	1. NO BURNING SHALL BE PERMITTED PER LOCAL	ISSUED FOR: APPROVAL
12	2. HAZARDOUS MATERIALS ENCOUNTERED DURING DEMOLITION	ISSUE DATE:
	STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS.	DECEMBER 22, 2021 REVISIONS
13	3. THIS PLAN IS INTENDED TO PROVIDE MINIMUM GUIDELINES FOR THE DEMOLITION OF EXISTING SITE FEATURES. UNLESS OTHERWISE NOTED TO REMAIN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL BUILDINGS, PAVEMENT, CONCRETE, CURBING, SIGNS, POLES, UTILITIES, FENCES, VEGETATION AND OTHER EXISTING FEATURES AS NECESSARY TO FULLY CONSTRUCT THE PROJECT.	NO. DESCRIPTIONBYDATE0INITIAL SUBMISSIONEBS12/22/21
		DRAWN BY:
		DRAWING FILE: <u>5235CONDO.DWG</u> SCALF:
Post and Rail Fence		$(24^{"}x36")$ 1" = 20' (11"x17") N.T.S.
		OWNER:/APPLICANT:
		LUSITANO. LLC
		JIM HIGGINS
1		119 KINGS HIGHWAY NO.
Approximate Abutter's Property Line (Typical)		ELIOT, MAINE 03903
Shed		PROJECT: WYMAN HILL
		TAX MAP 16, LOT 148
TRUST		28 WYMAN AVENUE KITTERY, MAINE
	GRAPHIC SCALE	PLAN
	10 20 40 80 (IN FEET)	SHEET NUMBER:
	LL.	

	BAPEGRAMM ANE Spruce Creek	ENGINEER: ACTUS ENGINEERING, INC. 133 Court Street (603) 433-2335 Portsmouth, NH 03801 www.altus-eng.com
S	SITE NOTES	SURVEYOR: North W EASTERLY SURVEYING, Inc. SURVEYORS IN N.H. & MAINE 191 STATE ROAD, SUITE #1 KITTERY, MAINE 03904 (207) 439-6333
1. 2. 3. 4. 5.	DESIGN INTENT – THIS PLAN SET IS INTENDED TO DEPICT A THREE (3) SINGLE–FAMILY DETACHED CONDOMINIUM PLAN WITH SHARED COMMON DRIVE. PLAN REFERENCE: "EXISTING CONDITIONS PLAN FOR PROPERTY AT 28 WYMAN AVENUE, KITTERY, MAINE" BY NORTH EASTERLY SURVEYING, INC., DATED PRELIMINARY JULY 7, 2021. LOT AREA: ±82,839 S.F. (±1.90 ACRES) EXISTING ZONE: RESIDENTIAL USE (R–U) DIMENSIONAL REQUIREMENTS – MINIMUM LOT AREA PER UNIT 20,000 S.F. PROVIDE NINIMUM LOT AREA PER UNIT 20,000 S.F. >20,000 S.F. MIN. ROAD FRONTAGE 100 FT. 88.89 FT. MIN. FRONT YARD 30 FT. >30 FT. MIN.	ERIC D. WEINRIEB No. 6658
6.	SIDE YARD15 FT.>15 FT. MIN.REAR YARD15 FT.>15 FT. MIN.BUILDING COVERAGE20 %EXISTING2.8%PROPOSED5.7%WETLANDS SETBACK (< 1 ACRE)	THIS DRAWING HAS NOT BEEN RELEASED FOR CONSTRUCTIONISSUED FOR:APPROVALISSUE DATE:DECEMBERDECEMBER22, 2021REVISIONS NO. DESCRIPTIONBY EBS0INITIAL SUBMISSION
7. 8. 9. 10 11.	 WETLANDS WERE DELINEATED BY MIKE MARIANO IN 2017. AREA OF DISTURBANCE LESS THAN 43,560 SF, THEREFORE NOI AND SWPPP INSPECTIONS ARE NOT REQUIRED. SNOW SHALL BE STORED AT THE EDGE OF PAVEMENT AND IN AREAS SHOWN. ALL CONSTRUCTION SHALL MEET THE MINIMUM STANDARDS OF THE TOWN OF KITTERY & MEDOT'S STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITIONS. THE MORE STRINGENT SPECIFICATION SHALL GOVERN. CLEAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAWCUT LINES WITH RS-1 IMMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE. 	DRAWN BY:RMB APPROVED BY:EBS DRAWING FILE:5235CONDO.DWG
post and Rail Fence 13	EDGE OF FOUNDATIONS AND/OR SLABS. ACTUAL INTERIOR SPACE WILL DIFFER.	SCALE: (24"x36") 1" = 20' (11"x17") N.T.S. OWNER:/APPLICANT: LUSITANO. LLC JIM HIGGINS 119 KINGS HIGHWAY NO
Property Line (Typical)	TOWN OF KITTERY, PLANNING BOARD	ELIOT, MAINE 03903
	OWNER DATE APPLICANT DATE YORK ss REGISTRY OF DEEDS RECIEVED 20 AT H	WYMAN HILL TAX MAP 16, LOT 148 28 WYMAN AVENUE
RUST 4 <u>2</u> 0 0	GRAPHIC SCALE	TITLE: CONDOMINIUM SITE PLAN
	(IN FEET)	<u>STIELI NUMBER:</u>

GRADING AND DRAINAGE NOTES

- 1. ALL CONSTRUCTION SHALL MEET THE MINIMUM CONSTRUCTION STANDARDS OF THE TOWN OF KITTERY AND MEDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. THE MORE STRINGENT SPECIFICATION SHALL GOVERN. 2. UNLESS OTHERWISE AGREED IN WRITING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING TEMPORARY BENCHMARKS (TBM) AND PERFORMING ALL CONSTRUCTION SURVEY
- LAYOUT. 3. PRIOR TO CONSTRUCTION, FIELD VERIFY JUNCTIONS, LOCATIONS AND ELEVATIONS/INVERTS OF ALL
- EXISTING STORMWATER AND UTILITY LINES. PRESERVE AND PROTECT LINES TO BE RETAINED. 4. ALL BENCHMARKS AND TOPOGRAPHY SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO INITIATING CONSTRUCTION.
- 5. ALL CATCH BASIN, MANHOLE AND OTHER DRAINAGE RIMS SHALL BE SET FLUSH WITH OR NO LESS THAN 0.1' BELOW FINISH GRADE. ANY RIM ABOVE SURROUNDING FINISH GRADE SHALL NOT BE ACCEPTED.
- 6. ALL SPOT GRADES ARE AT FINISH GRADE AND BOTTOM OF CURB WHERE APPLICABLE. 7. IN ORDER TO PROVIDE VISUAL CLARITY ON THE PLANS, DRAINAGE AND OTHER UTILITY STRUCTURES MAY NOT BE DRAWN TO SCALE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER SIZING AND LOCATION OF ALL STRUCTURES AND IS DIRECTED TO RESOLVE ANY POTENTIAL DISCREPANCY WITH THE
- 8. EXISTING IMPERVIOUS SURFACES: 9,388 SF <u>11.873 SF</u> 2,485 S.F PROPOSED IMPERVIOUS SURFACES: NET INCREASE

EROSION AND SEDIMENT CONTROL NOTES

1. DO NOT BEGIN CONSTRUCTION UNTIL ALL STATE AND LOCAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.

- 2. PERIMETER SEDIMENT CONTROLS SHALL BE INSTALLED AFTER TREE CLEARING OPERATIONS HAVE CEASED AND BEFORE ANY STUMPING, GRUBBING OR OTHER EARTH DISTURBANCE.
- 3. NO EARTHWORK SHALL COMMENCE UNTIL ALL APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED IN GOOD WORKING ORDER FOR THE DURATION OF CONSTRUCTION AND UNTIL THE SITE IS STABILIZED.
- 4. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN STANDARDS AND SPECIFICATIONS SET FORTH BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- 5. THE CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO PREVENT EROSION, PREVENT SEDIMENT FROM LEAVING THE SITE AND/OR ENTERING WETLANDS AND ENSURE PERMANENT SOIL STABILIZATION. 6. ALL YARD DRAINS AND CULVERTS SHALL BE PROVIDED APPROPRIATE TEMPORARY INLET PROTECTION (SEE DETAILS).
- 7. ALL EROSION CONTROL BLANKETS AND FASTENERS SHALL BE BIODEGRADEABLE.
- 8. ALL EROSION CONTROL BLANKETS SHALL BE BY NORTH AMERICAN GREEN ("NAG") OR EQUAL AS APPROVED IN WRITING BY THE ENGINEER.
- 9. ALL SWALES, STORMWATER PONDS AND THEIR CONTRIBUTING AREAS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM. 10. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE SIX (6") INCHES OF
- LOAM, LIMESTONE, FERTILIZER, SEED, AND MULCH USING APPROPRIATE SOIL STABILIZATION TECHNIQUES. SEE DETAILS FOR ADDITIONAL INFORMATION.
- 11. CONTRACTOR TO INSTALL STONE DRIP EDGE AT ALL ROOF DRIP LINES WHERE GUTTERS ARE NOT PROPOSED. COORDINATE WITH ARCHITECTURAL PLANS. 12. UPON COMPLETION OF CONSTRUCTION, ALL DRAINAGE INFRASTRUCTURE SHALL BE CLEANED OF ALL
- DEBRIS AND SEDIMENT. 13. UPON COMPLETION OF CONSTRUCTION, ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED AND ANY AREAS DISTURBED BY THE REMOVAL SMOOTHED AND REVEGETATED.

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133 Court Street (603) 433-2335Portsmouth, NH 03801 www.altus-eng.com
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SURVEYORS IN N.H. & MAINE
191 STATE ROAD, SUITE #1 KITTERY, MAINE 03904 (207) 439–6333
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TAX MAP 16, LOT 148
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SWM PLAN
SHEFT NUMBER

UTILITY NOTES

1. THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED UPON THE FIELD LOCATION OF ALL VISIBLE STRUCTURES (IE. CATCH BASINS, MANHOLES, WATER GATES, ETC.) AND INFORMATION COMPILED FROM PLANS PROVIDED BY UTILITY PROVIDERS AND GOVERNMENTAL AGENCIES. AS SUCH, THEY ARE NOT INCLUSIVE AS OTHER UTILITIES AND UNDERGROUND STRUCTURES THAT ARE NOT SHOWN ON THE PLANS MAY EXIST. THE ENGINEER, SURVEYOR AND OWNER ACCEPT NO RESPONSIBILITY FOR POTENTIAL INACCURACIES IN THE PLAN AND/OR UNFORESEEN CONDITIONS. THE CONTRACTOR SHALL NOTIFY, IN WRITING, SAID AGENCIES, UTILITY PROVIDERS, KITTERY DPW AND OWNER'S AUTHORIZED REPRESENTATIVE AND CALL DIG SAFE AT 1 (800) DIG-SAFE AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION WORK.

2. PRIOR TO CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND FIELD VERIFY JUNCTIONS, LOCATIONS AND ELEVATIONS/INVERTS OF ALL EXISTING AND PROPOSED STORMWATER AND UTILITY LINES. CONFLICTS SHALL BE ANTICIPATED AND ALL EXISTING LINES TO BE RETAINED SHALL BE PROTECTED. ANY DAMAGE DONE TO EXISTING UTILITIES SHALL BE REPAIRED AND, IF NECESSARY, EXISTING UTILITIES SHALL BE RELOCATED AT NO EXTRA COST TO THE OWNER. ALL CONFLICTS SHALL BE RESOLVED WITH THE INVOLVEMENT OF THE ENGINEER, DPW AND APPROPRIATE UTILITIES.

3. ALL CONSTRUCTION SHALL MEET THE MINIMUM CONSTRUCTION STANDARDS OF THE TOWN OF KITTERY AND MEDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION. THE MORE STRINGENT SPECIFICATION SHALL GOVERN.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE POSTING OF ALL BONDS AND PAYMENT OF ALL TAP, TIE-IN AND CONNECTION FEES.

5. IF REQUIRED, ALL ROAD/LANE CLOSURES OR OTHER TRAFFIC INTERRUPTIONS SHALL BE COORDINATED WITH THE KITTERY POLICE DEPARTMENT, DPW AND ABUTTING PROPERTY OWNERS (WHERE APPROPRIATE) AT LEAST TWO WEEKS PRIOR TO COMMENCING RELATED CONSTRUCTION.

6. ALL TRENCHING, PIPE LAYING AND BACKFILLING SHALL CONFORM TO FEDERAL OSHA AND TOWN REGULATIONS.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING, BEDDING, BACKFILL & COMPACTION FOR ALL UTILITY TRENCHING IN ADDITION TO ALL CONDUIT INSTALLATION AND COORDINATION OF ALL REQUIRED INSPECTIONS.

8. DETECTABLE WARNING TAPE SHALL BE PLACED OVER THE ENTIRE LENGTH OF ALL BURIED UTILITIES, COLORS PER THE RESPECTIVE UTILITY PROVIDERS.

9. SEE ARCHITECTURAL/MECHANICAL DRAWINGS FOR EXACT LOCATIONS & ELEVATIONS OF UTILITY CONNECTIONS AT BUILDING. COORDINATE ALL WORK WITHIN FIVE (5) FEET OF BUILDINGS WITH BUILDING CONTRACTOR AND ARCHITECTURAL DRAWINGS. ALL CONFLICTS AND DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY AND PRIOR TO COMMENCING RELATED WORK.

WATER: KITTERY WATER DISTRICT (KWD), (207) 439-1128 SEWER: KITTERY SEWER DISTRICT (KSD), (207) 439-4646 CABLE/INTERNET/TELECOMM: PER OWNER

ELECTRIC: CMP, (800) 565-3181

11. ALL WATER AND SEWER INSTALLATIONS SHALL BE CONSTRUCTED AND TESTED PER THE TOWN OF KITTERY'S STANDARDS AND SPECIFICATIONS. ALL OTHER UTILITIES SHALL BE TO THE STANDARDS AND SPECIFICATIONS OF THE RESPECTIVE UTILITY PROVIDERS.

12. WHERE WATER LINES CROSS, RUN ADJACENT TO OR ARE WITHIN 5' OF STORM DRAINAGE PIPES OR STRUCTURES, 2"-THICK CLOSED CELL RIGID BOARD INSULATION SHALL BE INSTALLED FOR FROST PROTECTION.

13. WHERE WATER OR SEWER LINES ARE INSTALLED WITH LESS THAT 5' OF COVER, 2"-THICK CLOSED CELL RIGID BOARD INSULATION SHALL BE INSTALLED FOR THE FULL WIDTH OF THE TRENCH FOR FROST PROTECTION.

14. WATER AND SANITARY SEWER LINES SHALL BE LOCATED AT LEAST 10' HORIZONTALLY FROM EACH OTHER. WHERE CROSSING, 18" MINIMUM VERTICAL CLEARANCE SHALL BE PROVIDED WITH WATER INSTALLED OVER SEWER. 15. WATER AIR RELEASE VALVE TO BE PROVIDED BY KWD.

16. KWD & KSD TO BE PROVIDED WITH A BLANKET EASEMENT OVER THE COMMON DRIVEWAY FOR THE PURPOSE OF ACCESSING WATER AND SEWER INFRASTRUCTURE.

I ALTUS
ENGINEERING, INC.
(603) 433-2335 Portsmouth, NH 03801 www.altus-eng.com
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KITTERY, MAINE 03904 (207) 439–6333
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ROJECT NAME AND LOCATION

Re-development Plar Map 16 Lot 148

Latitude: 043°05'16"N Lonaitude: 070° 43' 45" W

DESCRIPTION

Kittery, Maine

he project consists of a three (3) single-family detached condominium units with shared drive. The project will be completed in a single phase.

DISTURBED AREA

he total area to be disturbed is approximately 0.8 acres for constructing new driveway and dwelling units ncluding lot development). Prior to lot clearing and soil disturbance, sedimentation barrier shall be installed o prevent sediment leaving the lot.

SEQUENCE OF MAJOR ACTIVITIES

- Install temporary erosion control measures including perimeter controls as noted on the plan. All temporary erosion control measures shall be maintained in good working condition for the duration of the
- proiect. Clear and grub wooded area; strip and stockpile loam. Stockpiles shall be temporarily stabilized with hay
- hales mulch and surrounded by a hay bale or silt fence barrier until material is removed and final aradina is complete.
- Shut off and terminate existing services; demolish existing structures and pavement. Construct ditches and stabilize prior to directing flow to them.
- Construct drainage structures, swales & road base materials.
- Ditches and swales with grades over 5% shall have sides and bottom reinforced with excelsior matting. Shape site to desired arades Loam (6" min) and seed all disturbed areas not paved or otherwise stabilized.
- Install landscaping.
- When all construction activity is complete and site is stabilized, remove all temporary erosion control measures and any sediment that has been trapped by these devices.

NAME OF RECEIVING WATER

Jnnamed wetlands complex and open drainage systems to tidal waters of Spruce Creek.

TEMPORARY EROSION AND SEDIMENT CONTROLS AND STABILIZATION PRACTICES

All work shall be in accordance with state and local permits. Installation or construction of erosion control neasures shall conform to the practices described in the "2014 Revision to the 2003 Maine Erosion and Sediment Control Field Guide for Contractors, published by the Maine Department of Environmental Protection.

Minimum erosion control measures will need to be implemented and the contractor will be responsible to naintain all components of the erosion control plan until the site is fully stabilized. However, based on site and weather conditions during construction, additional erosion control measures may need to be implemented. All areas of instability and erosion must be repaired immediately during construction and need to be maintained intil the site is fully stabilized or vegetation is established. A construction log must be maintained for the erosion and sedimentation control inspections and maintenance.

As indicated in the sequence of Major Activities, perimeter controls shall be installed prior to commencing any elearing or grading of the site. Structural controls shall be installed concurrently with the applicable activity. Once construction activity ceases permanently in an area, silt fences and hay bale barriers and any earth/dikes will be removed once permanent measures are established.

During construction, runoff will be diverted around the site with stabilized channels where possible channels where possible. Sheet runoff from the site will be filtered through hay bale barriers, stone check dams, ind/or silt fences. All storm drain inlets shall be provided with inlet filters or stone check dams. Stone rip ap shall be provided at the outlets of drain pipes and culverts where shown on the drawings.

emporary and permanent vegetation and mulching is an integral component of the erosion and sedimentation ontrol plan. All areas shall be inspected and maintained until desires vegetative cover is established. These ontrol measures are essential to erosion prevention and also reduce costly rework of graded and shaped

Temporary vegetation shall be maintained in these areas until permanent seeding is applied. Additionally, erosion sedimentation measures shall be maintained until permanent vegetation is established.

NSTALLATION, MAINTENANCE AND INSPECTION PROCEDURES FOR TEMPORARY EROSION AND EDIMENT CONTROL MEASURES

- Perimeter controls shall be installed prior to earth moving operations. The smallest practical portion of the site will be denuded at one time and no more than be mulched in one day. All disturbed areas must be stabilized by temporary measures within 5 days of initial
- disturbance and stabilized by permanent measures immediately after final aradina. Sediment barriers shall be installed downgradient of stockpiles and diversion swales installed upgradient of stockpiles to prevent movement of soil.
- Built-up sediment shall be removed from silt fence or other barriers when it has reached one-third the height of the tubular barrier or bale, or when "bulges" occur in silt fence. All diversion dikes shall be inspected and any breaches promptly repaired.
- Temporary seeding and planting shall be inspected for bare spots, washouts, and unhealthy growth. The owner's authorized engineer shall inspect the site on a periodic basis to review compliance with the
- All ditches and swales shall be stabilized prior to directing runoff to them. All diversion dikes will be inspected and any breaches promptly repaired.
- Temporary water diversion (swales, basins, etc) shall be used as necessary until areas are stabilized. Ponds and swales shall be installed early on in the construction sequence (before rough grading site). All cut and fill slopes shall be seeded/loamed within 72 hours of achieving finished grade. An area shall be considered stable if one of the following has occurred:
- a. Base coarse aravels have been installed in areas to be paved:
- A minimum of 90% vegetated growth as been established;

A minimum of 3 inches of non-erosive material such as stone of riprap has been installed; or Erosion control blankets have been properly installed.

MULCHING <u>Application</u>

- * In sensitive areas (within 100 ft of streams, wetlands and in lake watersheds) temporary mulch shall be applied within 7 days of exposing soil or prior to any storm event. * Areas, which have been temporarily or permanently seeded, shall be mulched immediately following
- * Areas which cannot be seeded within the growing season shall be mulched for over-winter
- protection and the area should be seeded at the beginning of the growing season.
- * Mulch anchoring should be used on slopes greater than 5% in late fall (past September 15), and over-winter (September 15 - April 15).

<u>Type of Mulch</u> Hay or Straw Mulches

Organic mulches, including hay and straw, shall be air-dried, free of undesirable seeds and coarse materials. Application rate shall be 2 bales (70-90 pounds) per 1000 sq. ft. or 1.5 to 2 tons (90-100 bales) per acre to cover 75 to 90 % of the ground surface. Hay mulch subject to wind blowing shall be anchored via: netting; peg and twine or tracking.

Erosion Control Mix

Erosion control mix shall consist primarily of organic material and shall include any of the following: shredded bark, stump grindings, composted bark or other acceptable products based on a similar raw source. Wood or bark chips, ground construction debris or reprocessed wood products shall not be acceptable as the organic component of the mix.

- It can be used as a stand-alone reinforcement: * On slopes 2 horizontal to 1 vertical or less.
- * On frozen ground or forested areas.
- * At the edge of gravel parking areas and areas under construction.

Other reinforcement BMPs (i.e. riprap) should be used: * On slopes with groundwater seepage;

- At low points with concentrated flows and in gullies;
- At the bottom of steep perimeter slopes exceeding 100 feet in length; Below culvert outlet aprons; and
- Around catch basins and closed storm systems. *

Erosion control mix shall contain a well-graded mixture of particle sizes and may contain rocks less than 4" in diameter. Erosion control mix must be free of refuse, physical contaminants, and material toxic to plant growth. The mix composition shall meet the following standards:

- * The organic matter content shall be between 80 and 100%, dry weight basis.
- * Particle size by weight shall be 100% passing a 6" screen and a minimum of 70%, maximum of 85%, passing a 0.75" screen.
- * The organic portion needs to be fibrous and elongated. * Large portions of silts, clays or fine sands are not acceptable in the mix.

Installation

- * On slopes of 3:1 or less; 2 inches plus an additional 1/2 inch per 20 feet of slope up to 100
- * On slopes between 3:1 and 2:1, 4 inch plus an additional 1/2 inch per 20 feet of slope up to
- 100 feet. The thickness of the mulch at the bottom of the slope needs to be: <3:1 slope

	<20' of slope	2.0"
	<60' of slope	3.0"
	<100' of slope	4.0"
hall be	e placed evenly and	must prov

* It shall be placed evenly and must provide 100% coverage with the soil totally invisible. Any required repairs shall be made immediately, with additional erosion control mix placed on top of the mulch to reach the recommended thickness. When the mix is decomposed, clogged with sediment, eroded or ineffective, it shall be replaced or repaired. Erosion control mix mulch shall be left in place. If the mulch needs to be removed spread it out into the landscape.

All mulches must be inspected periodically, in particular after rainstorms, to check for rill erosion. If less than 90% of the soil surface is covered by mulch, additional mulch shall be immediately applied. Nets shall be inspected after rain events for dislocation or failure. If washouts or breakage occur, re-install the nets as necessary after repairing damage to the slope. Inspections shall take place until grasses are firmly established (95% soil surface covered with grass). Where mulch is used in conjunction with ornamental plantings, inspect periodically throughout the year to determine if mulch is maintaining coverage of the soil surface. Repair as needed.

C. TEMPORARY VEGETATION

<u>Considerations</u>

- protect the surface and ground water quality.
- slopes, streambanks, etc.).
- other measures such as mulching shall be implemented.

<u>Specifications</u> Seedbed Preparation

Apply limestone and fertilizer according to soil test recommendations. If soil testing is not feasible on small or variable sites, or where timing is critical, fertilizer may be applied at the rate of 600 pounds per acre or 13.8 pounds per 1,000 square feet of 10-10-10 (N-P20S-K20) or equivalent. Apply limestone (equivalent to 50 percent calcium plus magnesium oxide) at a rate of 3 tons per acre (138 lb. per 1,000 square feet).

* Select seed from recommendations in enclosed table.

- * Where the soil has been compacted by construction operations, loosen soil to a depth of 2 inches before applying fertilizer, lime and seed.
- Seeding rates must be increased 10% when hydroseeding.

Mulchina

Apply mulch over seeded area according to the TEMPORARY MULCHING BMP.

Temporary seeding shall be periodically inspected. At a minimum, 95% of the soil surface should be covered by vegetation. If any evidence of erosion or sedimentation is apparent, repairs shall be made and other temporary measures used in the interim (mulch, filter barriers, check dams, etc.).

<u>Temporary</u> Se	eding Rates and	<u>d Dates</u>		
Seed	Lb./Ac	Seeding Depth	Recommended Seeding Dates	Remarks
Winter Rye	112 (2.0 bu)	1-1.5 in	8/15-10/1	Good for fall seeding. Select a hardy species, such as Aroostook Rye.
Oats	80 (2.5 bu)	1-1.5 in	4/1-7/1 8/15-9/15	Best for spring seeding. Early fall seeding will die when winter weather moved in, but mulch will provide protection.
Annual Ryegrass	40	.25 in	4/1-7/1	Grows quickly but is of short duration. Use where appearance is important. With mulch, seeding may be done throughout growing season.
Sudangrass	40 (1.0 bu)	.5-1 in	5/15-8/15	Good growth during hot summer periods.
Perennial	40 (2.0 bu)	.25 in	8/15-9/15	Good cover, longer lasting than Annual Ryegrass. Mulching will allow seeding throughout growing season.
Temporary mulch wit and/or without dorm	h or ant seeding		10/1-4/1	Refer to TEMPORARY MULCHING BMP PERMANENT VEGETATION BMP.

D. SEDIMENT BARRIERS

<u>Tubular Sediment Barrier</u> a. To be provided by an approved manufacturer or supplier: Installed per manufacturer's specifications; c. Barrier shall be removed when they have served their useful purpose but not before the upslope areas has been permanently stabilized.

<u>Organic Filter Berm</u> See detail

* Sediment barriers shall be installed along the down gradient side of proposed ground disturbance areas prior to any construction activities. * The barrier must be placed along a relatively level contour.

- <u>Maintenance</u> * Hay bale barriers, silt fences and filter berms shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. They shall be repaired immediately if there are any signs of erosion or sedimentation below them. If there are signs of undercutting at the center or the edges of the barrier, or impounding of large volumes of water behind them, sediment barriers shall be replaced with a temporary check dam.
- * Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier still is necessary, the fabric shall be replaced promptly. * Sediment deposits should be removed when deposits reach approximately one third (1/3) the
- height of the barrier.
- * Filter berms should be reshaped as needed. * Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required
- shall be dressed or removed to conform to the existing grade, prepared and seeded. stone lined swales, etc., periodically to maintain proper function of the erosion control structure.
- * Additional stone may have to be added to the construction stabilized entrance, rock barriers,

PERMANENT SEEDING

- Bedding stones larger than $1\frac{1}{2}$, trash, roots, and other debris that will interfere with seeding and future maintenance of the area should be removed. Where feasible, the soil should be tilled to a depth of 6" to prepare a seedbed and mix fertilizer (refer to Landscape Drawings and Specifications) into the
- 2. Fertilizer (refer to Landscape Drawings and Specifications) lime and fertilizer should be applied evenly over the area prior to or at the time of seeding and incorporated into the soil. Kinds and amounts of lime and fertilizer should be based on an evaluation of soil tests.
- 3. Seed Mixture (See Landscape Drawings for additional information): 3.1. Lawn seed mix shall be a fresh, clean new seed crop. The Contractor shall furnish a dealer's guaranteed statement of the composition of the mixture and the percentage of purity and ermination of each variety.
- 3.2. Seed mixture shall conform to landscape specifications 4. Sodding - sodding is done where it is desirable to rapidly establish cover on a disturbed area. Sodding an area may be substituted for permanent seeding procedures anywhere on site. Bed preparation, fertilizing, and placement of sod shall be performed according to the S.C.S. Handbook. Sodding is recommended for steep sloped areas, areas immediately adjacent to sensitive water courses, easily erodible soils (fine sand/silt), etc.

* Erosion control mix shall not be used on slopes steeper than 2:1.

Proper seedbed preparation and the use of quality seed are important in this practice just as in permanent seeding. Failure to carefully follow sound agronomic recommendations will often result in an inadequate stand of vegetation that provides little or no erosion control.

* Nutrients and pesticides used to establish and maintain a vegetation cover shall be managed to * Temporary seeding shall be used extensively in sensitive areas (ponds and lake watersheds, steep

* Late fall seeding may fail and cause water quality deterioration in spring runoff events, thus

* Apply seed uniformly by hand, cyclone seeder, drill, cultipacker type seeder or hydroseeder (slurry including seed and fertilizer). Hydroseeding that includes mulch may be left on soil surface.

DEWATERING

A dewatering plan shall be implemented to address excavation de-watering following heavy rainfall events or where the excavation may intercept the groundwater table during construction. The collected water needs treatment and a discharge point that will not cause downgradient erosion and offsite sedimentation or within a resource.

All dewatering discharge locations shall be located on relatively flat ground at least 75' from streams and 25' from wetlands. The contractor shall utilize dirtbags, erosion control mix berms, or similar methods for filtration of dewatering and shall conform to the Maine Erosion and Sediment Control BMPs.

MONITORING SCHEDULE The contractor shall be responsible for installing, monitoring, maintaining, repairing, replacing and removing all of the erosion and sedimentation controls or appointing a qualified subcontractor to do so. Maintenance measures will be applied as needed during the entire construction cycle. immediately following any significant rainfall, and at least once a week, a visual inspection will be made of all erosion and sedimentation controls as follows:

1. Silt fence shall be inspected and repaired. Sediment trapped behind these barriers shall be excavated when it reaches a depth of 6" and redistributed to areas undergoing final grading. 2. Construction entrance shall be visually inspected and repaired as needed. Any areas subject to rutting shall be stabilized immediately. If the voids of the construction entrance become filled with mud, more

crushed stone shall be added as needed. The public roadway shall be swept should mud be deposited/tracked onto them.

STANDARDS FOR STABILIZING SITES FOR THE WINTER The following standards and methodologies shall be used for stabilizing the site during the winter construction period:

- 1. Standard for the timely stabilization of disturbed slopes (any area having a grade greater than 25%) the contractor will seed and mulch all slopes to be vegetated by September 15th. If the contractor fails to stabilize any slope to be vegetated by September 15th, then the contractor will take one of the following actions to stabilize the slope for late fall and winter.
- A. Stabilize the soil with temporary vegetation and erosion control mats: by October 1st the contractor will seed the disturbed slope with winter rye at a rate of 3 pounds per 1000 square feet and then install erosion control mats or anchored hay mulch over the seeding. The contractor will monitor growth of the rye over the next 30 days.
- B. <u>Stabilize the slope with wood-waste compost</u>: the contractor will place a six-inch layer of wood-waste compost on the slope by November 15th. The contractor will not use wood-waste compost to stabilize slopes having grades greater than 50% (2h:iv) or having groundwater seeps on the slope face. C. <u>Stabilize the slope with stone riprap</u>: the contractor will place a layer of stone riprap on the slope by
- November 15th. The development's owner will hire a registered professional engineer to determine the stone size needed for stability on the slope and to design a filter layer for underneath the riprap.
- 2. Standard for the timely stabilization of disturbed soils by September 15th the contractor will seed and mulch all disturbed soils on the site. If the contractor fails to stabilize these soils by this date, then the contractor will take on of the following actions to stabilize the soil for late fall and winter.
- A. <u>Stabilize the soil with temporary vegetation</u>: by October 1st the contractor will seed the disturbed soil with winter rye at a seeding rate of 3 pounds per 1000 square feet, lightly mulch the seeded soil with hay or straw at 75 pounds per 1000 square feet, and anchor the mulch with plastic netting. The contractor will monitor growth of the rye over the next 30 days. If the rye fails to grow at least three inches or fails to cover at least 75% of the disturbed soil before November 1, then the contractor will mulch the area for over-winter protection as described in item iii of this standard.
- B. <u>Stabilize the soil with sod</u>: the contractor will stabilize the disturbed soil with properly installed sod by October 1st. proper installation includes the contractor pinning the sod onto the soil with wire pins, rolling the sod to guarantee contact between the sod and underlying soil, and watering the sod to promote root arowth into the disturbed soil.
- C. Stabilize the soil with mulch: by November 15th the contractor will mulch the disturbed soil by spreading hay or straw at a rate of at least 150 pounds per 1000 square feet on the area so that no soil is visible through the mulch. Immediately after applying the mulch, the contractor will anchor the mulch with netting or other method to prevent wind from moving the mulch off the disturbed soil.

Winter inspections shall be preformed after, each rainfall, snowstorm or thawing and at least once a week. All areas within 75 feet of a protected natural resource must be protected with a double row of sediment barrier.

EROSION CONTROL REMOVAL

- An area is considered stable if it is paved or if 90% growth of planted seeds is established. once an area is considered stable, the erosion control measures can be removed as follows: . <u>Silt Fence</u>: Silt fence shall be disposed of legally and properly off-site. all sediment trapped behind these
- controls shall be distributed to an area undergoing final grading or removed and relocated off-site. 2. <u>Stabilized Construction Entrance</u>: The stabilized construction entrance shall be removed once the compacted roadway base in in place. Stone and sediment from the construction entrance shall be
- redistributed to an area undergoing grading or removed and relocated offsite. 3. <u>Miscellaneous</u>: Once all the trapped sediments have been removed from the temporary sedimentation devices the disturbed areas must be regraded in an aesthetic manner to conform to the surrounding topography. Once graded these disturbed areas must be loamed (if necessary), fertilized, seeded and mulched in accordance with the rates previously stated.

The above erosion controls must be removed within 30 days of final stabilization of the site. Conformance with this plan and following these practices will result in a project that complies with the state regulations and the standards of the natural resources protection act, and will protect water quality in areas downstream from the project.

INSPECTION AND MAINTENANCE

- 1. All sediment control measures shall be inspected at least once each week and following any storm event of 0.5 inches or greater for the duration of construction and until the site is fully stabilized. An inspection report shall be made after each inspection by a qualified inspector engaged by the Owner. The qualified inspector shall be a Professional Engineer licensed in Maine or be a Certified Professional in
- Erosion and Sediment Control approved by the Owner. 2. All measures shall be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours and completed within 72 hours.
- 3. Inspection and maintenance requirements: Inspect disturbed and impervious areas, erosion and stormwater control measures, areas used for storage that are exposed to precipitation, and locations where vehicles enter or exit the site. Inspect these areas at least once a week as well as before and after a 0.5 inches or greater storm event and prior to completion of permanent stabilization measures. A person with knowledge of erosion and stormwater control, including the standards in the MCGP and any departmental companion document to the MCGP, must conduct the inspection. This person must be identified in the inspection log. If best management practices (BMPs) need to be modified or if additional BMPs are necessary, implementation must be completed within 7 calendar days and prior to any storm event (rainfall). All measures must be maintained in effective operating condition until areas area permanently stabilized
- 4. Inspection Log (report): A log (report) must be kept summarizing the scope of the inspection, name(s) and qualifications of the personnel making the inspection, the date(s) of the inspection, and major observations relating to operation of erosion and sedimentation controls and pollution prevention measures. Major observations must include BMPs that need maintenance, BMPs that failed to operate as designed or proved inadequate for a particular location, and locations(s) where additional BMPs are needed. For each BMP requiring maintenance, BMP needing replacement, and location needing additional BMPs, note in the inspection log the correct action taken and when it was taken. The log must be made accessible to the department staff and a copy must be provided upon request. The permittee shall retain a copy of the log for a period of at least three years from the completion of the permanent stabilization.

HOUSEKEEPING

- 1. Spill prevention: Controls must be used to prevent pollutants from construction and waste materials stored onsite, including storage practices to minimize exposure of the materials to stormwater and appropriate spill prevention, containment, and response planning implementation. The contractor and owners need to take care with construction and waste materials such that contaminates do not enter the stormwater. The storage of materials such as paint, petroleum products, cleaning agents and the like are to be stored in watertight containers. The use of the products should be in accordance with manufacturer recommendations. When fueling equipment, including snowblowers and lawnmowers, have oil absorbent pads available below the fueling. Refueling of small engines by the owner should occur in the garage or on a paved surface. Any spill or release of toxic or
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- 8. FILTEF

ORGANIC FILTER BERM

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<u>NOTES</u> 1. ORGA

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	STONE GRADATION TABLE	ALTUS ENGINEERING, INC.
	AS SHOWN ON PLANS SIEVE SIZE BY WEIGHT 3" 100 1-1/2" 90-100	133 Court Street Portsmouth, NH 03801
	DRIVE WIDTH SHOWN ON PLANS PLANS SLOPE PLANS DRIVE WIDTH SHOWN ON PLANS DRIVE WIDTH SHOWN ON PLANS DRIVE WIDTH SLOPE PLANS DRIVE WIDTH SLOPE PAVEMENT	(603) 433-2335 www.altus-eng.com
	PLAN VIEW	
	AS SHOWN ON PLANS	
CC	EXISTING GROUND PROFILE NON-WOVEN GEOTEXTILE FABRIC (10 OZ/SY)	ERIC D. WEINRIEB No. 6658
1. 2. 3. 4.	<u>STONE SIZE</u> – MEDOT STANDARD STONE SIZE #4 – SECTION 703 OF MEDOT STANDARD. <u>LENGTH</u> – DETAILED ON PLANS (50 FOOT MINIMUM). <u>THICKNESS</u> – SIX (6) INCHES (MINIMUM). <u>WIDTH</u> – FULL DRIVE WIDTH UNLESS OTHERWISE SPECIFIED.	CENSE SIGNA DOC TL 272 74
5. 6.	FILTER FABRIC – MIRAFI 600X OR EQUAL APPROVED BY ENGINEER. <u>SURFACE WATER CONTROL</u> – ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.	THIS DRAWING HAS NOT BEEN RELEASED FOR CONSTRUCTION
7.	MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND (OR CLEANOUT OF ANY MEASURES, USED TO TRAD SEDIMENT, ALL SEDIMENT SOULED	APPROVAL
8.	WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.	DECEMBER 22, 2021
9.	WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. STABILIZED CONSTRUCTION EXITS SHALL BE INSTALLED AT ALL ENTRANCES TO PUBLIC RIGHTS-OF-WAY, AT LOCATIONS SHOWN ON THE PLANS, AND/OR WHERE AS DIRECTED BY THE ENGINEER.	REVISIONSNO. DESCRIPTIONBY0INITIAL SUBMISSIONEBS12/22/21
	INDICIZED CONCINCINCIALIZATI NOTTO SCALE	DRAWN BY:
	2.5' (MIN)	NOT TO SCALE
	EROSION CONTROL MIXTURE	OWNER:/APPLICANT:
	FLOW	LUSITANO. LLC
		JIM HIGGINS
		119 KINGS HIGHWAY NO.
<u>NO</u> 1.	I <u>TES</u> ORGANIC FILTER BERMS MAY BE UTILIZED IN LIEU OF SILT FENCE OR OTHER SEDIMENT BARRIERS.	ELIOT, MAINE 03903
2.	THE EROSION CONTROL MIXTURE USED IN FILTER BERMS SHALL BE A WELL-GRADED MIX OF PARTICLE SIZES THAT MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER, STUMP GRINDINGS, SHREDDED OR COMPOSTED BARK, AND/OR ACCEPTABLE MANUFACTURED PRODUCTS AND SHALL BE FREE OF REFUSE, PHYSICAL CONTAMINANTS AND MATERIAL TOXIC TO PLANT GROWTH. EROSION CONTROL MIXTURE SHALL MEET THE FOLLOWING STANDARDS:	
	 a) THE ORGANIC CONTENT SHALL BE 80-100% OF DRY WEIGHT. b) PARTICLE SIZE BY WEIGHT SHALL BE 100% PASSING A 6" SCREEN, AND 70-85% PASSING A 0.75" SCREEN. c) THE ORGANIC PORTION SHALL BE FIBROUS AND ELONGATED. d) LARGE PORTIONS OF SILTS, CLAYS, OR FINE SANDS SHALL NOT BE INCLUDED IN THE MIXTURE. e) SOLUBLE SALTS CONTENT SHALL BE >4.0mmbos/cm. 	PROJECT: RE-DEVELOPMENT
3.	f) THE pH SHALL BE BETWEEN 5.0 AND 8.0. ORGANIC FILTER BERMS SHALL BE INSTALLED ALONG A RELATIVELY LEVEL CONTOUR. IT MAY BE NECESSARY TO CUT TALL GRASSES OR WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES THAT WOULD ENABLE FINES TO WASH LINDER THE BERM.	PLAN
4.	ON SLOPES LESS THAN 5%, OR AT THE BOTTOM OF SLOPES NO STEEPER THAN 3:1 AND UP TO 20' LONG, THE BERM SHALL BE A MINIMUM OF 12" HIGH (AS MEASURED ON THE UPHILL SIDE) AND A MINIMUM OF 36" WIDE. ON LONGER AND/OR STEEPER SLOPES, THE BERM SHALL BE TALLER AND	TAX MAP 16, LOT 148
5.	WIDER TO ACCOMMODATE THE POTENTIAL FOR ADDITIONAL RUNOFF (MAXIMUM HEIGHT SHALL NOT EXCEED 2'). FROZEN GROUND, OUTCROPS OF BEDROCK, AND VERY ROOTED FORESTED AREAS PRESENT THE MOST PRACTICAL AND EFFECTIVE LOCATIONS FOR ORGANIC FILTER BERMS. OTHER BMP'S SHOULD BE USED AT LOW POINTS OF CONCENTRATED RUNOFF, BELOW CULVERT OUTLET APRONS, AROUND CATCH BASINS AND AT THE BOTTOM OF STEEP PERIMETER STORES THAT HAVE A LARGE CONTRIBUTING	28 WYMAN AVENUE KITTERY, MAINE
6.	AREA. SEDIMENT SHALL BE REMOVED FROM BEHIND THE FILTER BERMS WHEN IT HAS ACCUMULATED TO ONE	<u>TITLE:</u>
7.	HALF THE ORIGINAL HEIGHT OF THE BERM. ORGANIC FILTER BERMS MAY BE LEFT IN PLACE ONCE THE SITE IS STABILIZED PROVIDED ANY SEDIMENT DEPOSITS TRAPPED BY THEM ARE REMOVED AND DISPOSED OF PROPERLY.	EROSION CONTROL
8.	FILTER BERMS ARE PROHIBITED AT THE BASE OF SLOPES STEEPER THAN 8% OR WHERE THERE IS FLOWING WATER WITHOUT THE SUPPORT OF ADDITIONAL MEASURES SUCH AS SILTFENCE.	NOTES
	ں س	<u>SHEET NUMBER:</u>

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CATCH BASIN INLET PROTECTION

DRIP EDGE DETAIL

4. ALL SEDIMENT TRAPPED BY SILTSOXX SHAL **TUBULAR SEDIMENT**

1. SILTSOXX MAY BY USED IN PLACE OF SILT FENCE OR OTHER SEDIMENT BARRIERS. 2. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS. 3. SILTSOXX COMPOST/SOIL/ROCK/SEED FILL MATERIAL SHALL BE ADJUSTED AS NECESSARY TO MEET THE REQUIREMENTS OF THE SPECIFIC APPLICATI

SILT AND ORANGE CONSTRUCTION FENCE LAYOUT DETAIL

BARRIER	NOT TO SCAL
UN. L BE DISPOSED OF PROPERLY.	

EXTEND 18" BEYOND BLDG. FACE OR 1' BEYOND ROOF DRIP LINE, WHICH EVER GREATER

- METAL EDGING (OR MATERIAL AS APPROVED BY ARCHITECT OR OWNER)

SLOPE AS SHOWN ON PLAN

-4" THICK WASHED RIVER STONE, SIZE 1.5" TO 2.5" STONE COLOR TO BE APPROVED BY OWNER

-12" - 3/4" CRUSHED STONE -4" CPP PERFORATED PIPE SET 2" ABOVE BOTTOM

OF STONE WHERE SPECIFIED

-GAP BETWEEN DRIP EDGE AND FOUNDATION IF NECESSARY, COORDINATE WITH LANDSCAPE PLANS

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NOT TO SCALE

CONSTRUCT PLUNGE POOL TO THE WIDTHS AND LENGTHS SHOWN ON THE PLAN. THE DEPTH OF RIPRAP EROSION STONE USED FOR THE PLUNGE POOL SHALL MEET THE FOLLOWING GRADATION:

- 12" 90-100 OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL
- THE STONE SIZES.

<u>NOTES</u>

- 1. WHEN CONTRACTOR EXCAVATES RAIN GARDEN AREA TO SUBGRADE, DESIGN ENGINEER SHALL PERFORM

MAINTENANCE REQUIREMENTS

DESIGN REFERENCES

<u>NOTES</u>

- FERTILIZER, AND SEED.
- SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- IN THE STAPLE PATTERN GUIDE.
- ON THE PREVIOUSLY INSTALLED BLANKET.

EROSION CONTROL BLANKET - SLOPE NOT TO SCALE

TYPICAL ROADWAY CROSS SECTION

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME,

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES

3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN

4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH

5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

<u>NOTES</u>

WATER MAIN TRENCH

1. BACKFILL MATERIAL BELOW PAVED OR CONCRETE AREAS, BEDDING MATERIAL, AND SAND BLANKET SHALL BE COMPACTED TO NOT LESS THAN 95% OF AASHTO T 99, METHOD C. SUITABLE BACKFILL MATERIAL BELOW LOAM AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO T 99, METHOD C

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2. ALL TRENCHING AND BACKFILL SHALL CONFORM WITH THE STANDARDS OF THE KITTERY WATER DISTRICT.

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EXCAVATED UTILITY TRENCH

EXISTING GRAVEL BEYOND TRENCH SHALL BE LEFT

1. ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE: BACKFILL AS STATED IN THE TECHNICAL SPECIFICATIONS OR AS SHOWN ON THE DRAWING.

2. BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING THE GRADATION SHOWN IN THE TRENCH DETAIL. WHERE ORDERED BY THE ENGINEER TO STABILIZE THE BASE, SCREENED GRAVEL OR CRUSHED STONE 1-1/2 INCH TO 1/2 INCH SHALL

3. SAND BLANKET: CLEAN SAND FREE FROM ORGANIC MATTER MEETING THE GRADATION SHOWN IN THE TRENCH DETAIL. BLANKET MAY BE REPLACED WITH BEDDING MATERIAL FOR CAST-IRON, DUCTILE IRON, AND REINFORCED CONCRETE PIPE PROVIDED THAT NO STONE LARGER THAN 2" IS IN CONTACT WITH THE PIPE AND THE GEOTEXTILE IS RELOCATED ACCORDINGLY.

4. SUITABLE MATERIAL: IN ROADS, ROAD SHOULDERS, WALKWAYS AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT, OR CLAY, ALL EXCAVATED LEDGE MATERIAL, ALL ROCKS OVER 6 INCHES IN LARGEST DIMENSION, AND ANY MATERIAL WHICH, AS DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION. IN CROSS COUNTRY CONSTRUCTION, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOVE, EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAM, MUCK, OR PEAT, IF SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT EASY ACCESS TO THE SEWER FOR MAINTENANCE AND POSSIBLE RECONSTRUCTION

BASE COURSE AND PAVEMENT SHALL MEET THE REQUIREMENTS OF THE MAINE DEPARTMENT OF TRANSPORTATION'S LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES

6. SHEETING, IF REQUIRED: WHERE SHEETING IS PLACED ALONGSIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER, IT SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION 1 FOOT ABOVE THE TOP OF PIPE. WHERE SHEETING IS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE, IT SHALL BE CUT OFF AT LEAST 3 FEET BELOW FINISHED GRADE, BUT NOT LESS THAT 1 FOOT ABOVE THE TOP

7. W = MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12 INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES. FOR PIPES GREATER THAN 15 INCHES IN NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE OUTSIDE DIAMETER (O.D.) ALSO, W SHALL BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE.

8. FOR CROSS COUNTRY CONSTRUCTION, BACKFILL, FILL AND/OR LOAM SHALL BE MOUNDED TO A HEIGHT OF 6 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

9. CONCRETE FOR ENCASEMENT SHALL CONFORM TO THE MAINE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS STANDARD SPECIFICATION REQUIREMENTS FOR CLASS A (3000#) CONCRETE AS FOLLOWS: CEMENT: 6.0 BAGS PER CUBIC YARD WATER: 5.75 GALLONS PER BAG

CEMENT MAXIMUM SIZE OF AGGREGATE: 1 INCH CONCRETE ENCASEMENT IS NOT ALLOWED FOR PVC PIPE.

10. CONCRETE FULL ENCASEMENT: IF FULL ENCASEMENT IS UTILIZED, DEPTH OF CONCRETE BELOW PIPE SHALL BE 1/4 I.D. (4" MINIMUM). BLOCK SUPPORT SHALL BE SOLID CONCRETE BLOCKS.

11. MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION DESIGN STANDARDS REQUIRE TEN FEET (10') SEPARATION BETWEEN WATER AND SEWER. REFER TO TOWN'S STANDARD SPECIFICATIONS FOR METHODS OF PROTECTION IN AREAS THAT CANNOT MEET THESE REQUIREMENTS.

12. IN AREAS WHERE DEWATERING IS REQUIRED OR THE TRENCH SLOPE EXCEEDS 5%, THE CONTRACTOR SHALL INSTALL TRENCH DAMS IN ACCORDANCE WITH MEDEP REGULATIONS.

NOT TO SCALE

1. IT IS THE INTENTION OF THE MAINE DEP THAT THE MANHOLE, INCLUDING ALL COMPONENT PARTS, HAVE ADEQUATE SPACE, STRENGTH AND LEAKPROOF QUALITIES CONSIDERED NECESSARY BY THE COMMISSION FOR THE INTENDED SERVICE. SPACE REQUIREMENTS AND CONFIGURATIONS, SHALL BE AS SHOWN ON THE DRAWING. MANHOLES MAY BE AN ASSEMBLY OF PRECAST SECTIONS, WITH OR WITHOUT STEEL REINFORCEMENT, WITH ADEQUATE JOINTING, OR CONCRETE CAST MONOLITHICALLY IN PLACE WITH OR WITHOUT REINFORCEMENT IN ANY APPROVED MANHOLE. THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND LOADS OF 8 TONS (H-20 LOADING) WITHOUT FAILURE AND PREVENT LEAKAGE IN EXCESS OF ONE GALLON PER DAY PER VERTICAL FOOT OF MAN-HOLE CONTINUOUSLY FOR THE LIFE OF THE STRUCTURE, A PERIOD GENERALLY IN EXCESS OF 25 YEARS IS TO BE UNDERSTOOD IN BOTH CASES.

2. <u>BARRELS AND CONE SECTIONS</u> SHALL BE PRECAST REINFORCED.

3. PRECAST CONCRETE BARREL SECTIONS, CONES AND BASES SHALL CONFORM TO ASTM C478.

4. LEAKAGE TEST SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN'S STANDARD SPECIFICATIONS AND WITH MAINE DEP 10-144 CMR 241.

5. INVERTS AND SHELVES MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW AT CHANGES IN DIRECTION. THE INVERTS SHALL BE LAID OUT IN CURVES, OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY. BRICK MASONRY SHALL CONFORM WITH ASTM C32.

6. MORTAR MORTAR USED FOR MANHOLE CONSTRUCTION SHALL CONFORM WITH MAINE DEP 10-144

7. FRAMES AND COVERS MANHOLE FRAMES AND COVERS SHALL CONFORM WITH ASTM A48/48M, BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING. A 3-INCH (MINIMUM HEIGHT) LETTER "S" FOR SEWERS OR "D" FOR DRAINS SHALL BE PLAINLY CAST INTO THE CENTER OF EACH

8. BEDDING SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER

100% PASSING 1 INCH SCREEN 0-10% PASSING #4 SIEVE 90–100% PASSING 3/4 INCH SCREEN 0-5% PASSING #8 SIEVE

20– 55% PASSING 3/8 INCH SCREEN WHERE ORDERED BY THE ENGINEER TO STABILIZE THE BASE, SCREENED GRAVEL OR CRUSHED STONE 1-1/2" TO 1/2" SHALL BE USED.

9. CONCRETE FOR DROP SUPPORT SHALL CONFORM TO THE REQUIREMENT FOR CLASS A (3000 LBS.) CONCRETE OF THE MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AS

CEMENT 6.0 BAGS PER CUBIC YARD WATER 5.75 GALLONS PER BAG CEMENT MAXIMUM SIZE OF AGGREGATE 1 INCH 9.

10. FLEXIBLE JOINT A FLEXIBLE JOINT SHALL BE PROVIDED WITHIN THE FOLLOWING DISTANCES:

RCP & CI PIPE - ALL SIZES - 48"

AC & VC PIPE - UP THROUGH 12" DIAMETER - 18" AC & VC PIPE - LARGER THAN 12" DIAMETER - 36"

11. SHALLOW MANHOLE IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED HAVING AN ECCENTRIC ENTRANCE OPENING AND CAPABLE OF SUPPORTING H-20 LOADS.

NOT TO SCALE

ENGINEER:	
ALIUS	
ENGINEERING, INC.	
133 Court StreetPortsmouth, NH 03801(603) 433-2335www.altus-eng.com	
STATE OF MANNEL	
ERIC D. WEINRIEB	
CENSE	
72 22 21	
THIS DRAWING HAS NOT BEEN	
RELEASED FOR CONSTRUCTION	
APPROVAL	
ISSUE DATE: DECEMBER 22, 2021	
REVISIONS NO. DESCRIPTION BY DATE	
0 INITIAL SUBMISSION EBS 12/22/21	
RAWN BY RMB	
APPROVED BY:EBS	
DRAWING FILE: 5235DETAILS.DWG	
NOT TO SCALE	
OWNER:/APPLICANT:	
LUSITANO. LLC	
JIM HIGGINS	
119 KINGS HIGHWAY NO.	
ELIOT, MAINE 03903	
PROJECT:	
TAX MAP 16, LOT 148	
28 WYMAN AVENUE	
KITTERY, MAINE	
<u></u>	
SHELT NUMBER:	

PROPOSED LOWER LEVEL (Living Space: 729 sq. ft.)

Wyman Hill

Residential Unit

28 Wyman Avenue Kittery Maine

architectural designer

HIGGINS + DESIGN

119 Kings Highway North Eliot, ME 03903 Tel 617.501.6149 jimhiggins05@comcast.net

Proposed Residential Unit

LAYOUT PLANS

scale 1/4"=1'-0"

date November 22, 2021

project Kittery01

RIGHT SIDE ELEVATION

FRONT ELEVATION

Wyman Hill

Residential Unit

28 Wyman Avenue Kittery Maine

architectural designer

HIGGINS + DESIGN

119 Kings Highway North Eliot, ME 03903 Tel 617.501.6149 jimhiggins05@comcast.net

Proposed Residential Unit

ELEVATIONS

scale 1/4"=1'-0"

date November 22, 2021

project Kittery01

LEFT SIDE ELEVATION

BACK ELEVATION

revisions

1 12-5-16 Kitchen Layout, Exterior Door Revisions

Wyman Hill

Residential Unit

28 Wyman Avenue Kittery Maine

architectural designer

HIGGINS + DESIGN

119 Kings Highway North Eliot, ME 03903 Tel 617.501.6149 jimhiggins05@comcast.net

Proposed Residential Unit

ELEVATIONS

scale 1/4"=1'-0"

date November 22, 2021

project Kittery01