

Mercier Seawall Shoreland Development Plan

134 Whipple Road
Kittery, Maine

Assessor's Parcel 10, Lot 6A

Issued for Permitting

Plan Issue Date:

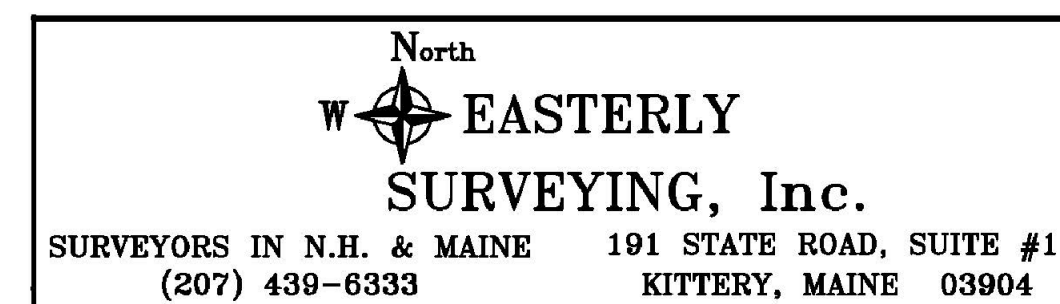
August 30, 2022

Owner/Applicant:

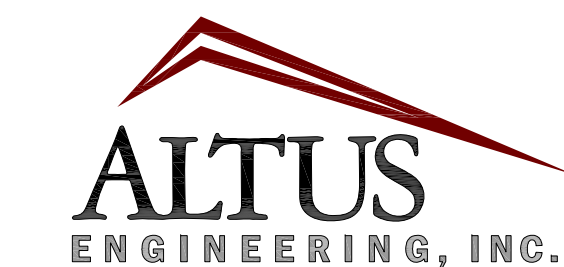
Amy L. & Nicholas E. Mercier

35 Goffstown Road
Hooksett, NH 03106-2400
(603) 674-8239

Surveyor:



Civil Engineer:

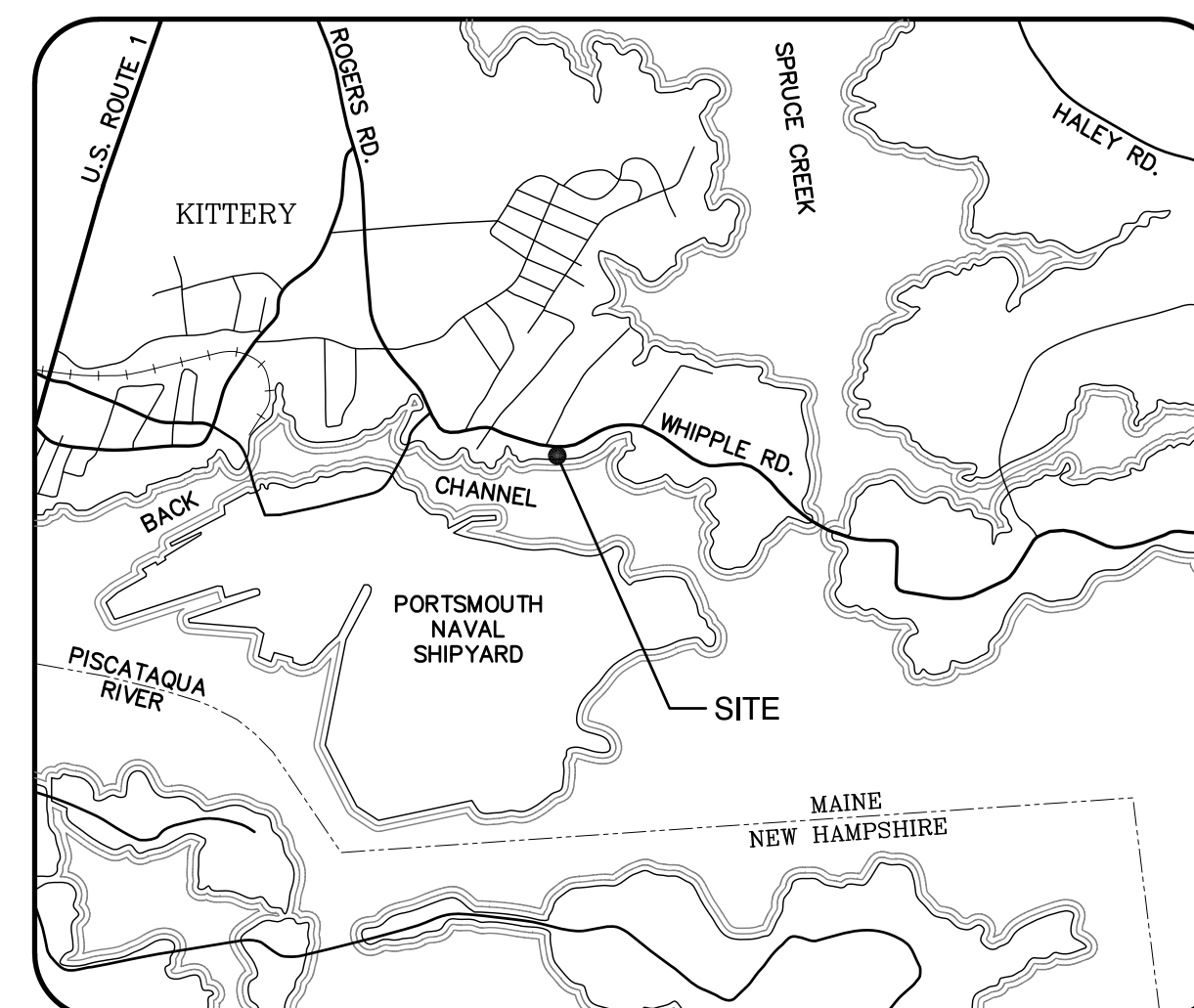


133 Court Street
(603) 433-2335
Portsmouth, NH 03801
www.altus-eng.com

Structural Engineer:



183 ROCKINGHAM RD UNIT 3 EAST
WINDHAM, NH 03087
(603) 647-8700
www.sfceng.com

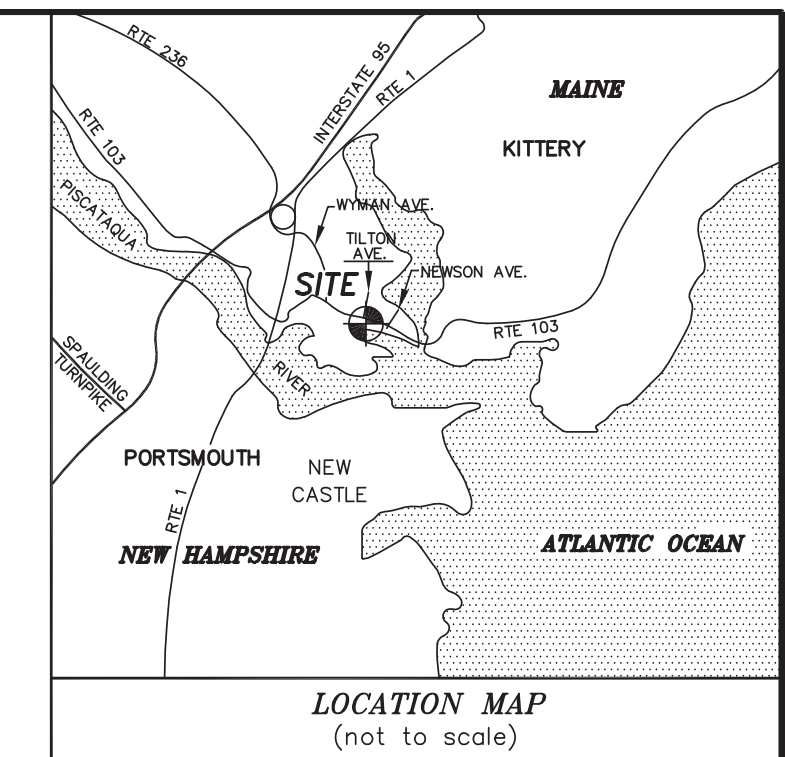


LOCUS

NOT TO SCALE

**Sheet Index
Title**

| | Sheet No.: | Rev. | Date |
|--------------------------------|-------------------|-------------|-------------|
| Existing Conditions Plan | 1 of 1 | B | 11/01/21 |
| Shoreland Development Plan | C-1 | 2 | 08/30/22 |
| Detail Sheet | C-2 | 2 | 08/30/22 |
| Redi-Rock Wall Design Drawings | S1.0 | 4 | 08/26/22 |
| Landscape Plan | L-1 | 1 | 06/28/22 |



ZONING DATA PER KITTERY ZONING ORDINANCE (LAST AMENDED 05/29/2019):
 BASE ZONE: Residential-Urban (R-U)
 OVERLAY ZONE: Shoreland (OZ-SL-250')

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

MINIMUM SHORE FRONTAGE: 50 Ft
 MAXIMUM DEVEGETATED AREA: 20%

Per Town of Kittery Code Title 16 (Sec. 16.3.2.4)
 (See Sec 16.3.2.4, D.2)

PLAN REFERENCES:

- "STANDARD BOUNDARY SURVEY FOR PROPERTY AT 134 WHIPPLE ROAD, KITTERY, YORK COUNTY, MAINE, OWNED BY ESTATE OF CARRIE B. VARNEY", PREPARED BY NORTH EASTERLY SURVEYING, INC., DATED AUGUST 10, 2017.
- "PROPOSED SIDEWALK EASEMENT, FOR A PORTION OF WHIPPLE ROAD, KITTERY, YORK COUNTY, MAINE, CLIENT, KITTERY PUBLIC WORKS DEPARTMENT, SHEETS 2&3 OF 6" PREPARED BY NORTH EASTERLY SURVEYING, INC., DATED AUGUST 20, 2007.

NOTES:

- OWNERS OF RECORD:
 TAX MAP 10 LOT 6A
 NICHOLAS E. MERCIER
 AMY L. MERCIER
 Y.C.R.D. BOOK 17571 PAGE 502
 DATED SEPTEMBER 29, 2017
- TOTAL EXISTING PARCEL AREA:
 TAX MAP 10 LOT 6A
 0.31± AC.
- BASIS OF BEARING IS PER PLAN REFERENCE #1.
- APPROXIMATE ABUTTER'S LINES SHOWN HEREON ARE FOR REFERENCE PURPOSES ONLY AND SHALL NOT BE RELIED UPON AS BOUNDARY INFORMATION.
- EASEMENTS OR OTHER UNWRITTEN RIGHTS MAY EXIST THAT ENCUMBER OR BENEFIT THE PROPERTY NOT SHOWN HEREON.
- ZONING INFORMATION AND SETBACKS SHOWN HEREON ARE FOR REFERENCE PURPOSES. CONFIRM CURRENT ZONING REQUIREMENTS WITH THE TOWN OF KITTERY PRIOR TO DESIGN OR CONSTRUCTION.
- THE BOUNDARY SHOWN HEREON IS DETERMINED FROM WRITTEN RECORDS AND FIELD EVIDENCE RECOVERED AT THE TIME OF SURVEY AND MAY BE SUBJECT TO CHANGE IF OTHER EVIDENCE BECOMES AVAILABLE.
- SUBJECT PARCEL IS CONVEYED TOGETHER WITH ALL THE TIDE LAND LYING BETWEEN HIGH AND LOW WATER MARK ON THE BACK CHANNEL OF THE PISCATAQUA RIVER ADJOINING THE SOUTHWESTERLY SIDE OF SAID LOT. RIPARIAN BOUNDARIES HAVE NOT BEEN DETERMINED BETWEEN HIGH AND LOW WATER.
- THE ENTIRETY OF THE SUBJECT PARCEL IS WITHIN THE OZ-SL-250 SHORELAND ZONE.
- A PORTION OF THE SUBJECT PARCEL IS WITHIN A SPECIAL FLOOD HAZARD AREA (SFHA). REFERENCE IS MADE TO FEMA FIRM 230171 0005 D, LAST REVISED JULY 3, 1986.

BUILDING COVERAGE CALCULATIONS:

LOT AREA: 13,381± SQ. FT.
 EXISTING
 HOUSE: 1,358± SQ. FT. (10.1%)

DEVEGETATED COVERAGE CALCULATIONS:

LOT AREA: 13,381± SQ. FT.
 EXISTING
 HOUSE 1,358± SQ. FT.
 FRONT PORCH & STEPS 39± SQ. FT.
 REAR DECK & STEPS 37± SQ. FT.
 PAVED DRIVEWAY 1,059± SQ. FT.
 PAVED WALKWAY 164± SQ. FT.
 FLAGSTONE WALKWAY 50± SQ. FT.
 GRAVEL (NEAR HOUSE) 67± SQ. FT. (-67 SQ. FT.)
 GRAVEL (NEAR SHORE) 218± SQ. FT. (-218 SQ. FT.)
 WOOD STEPS & GRAVEL 124± SQ. FT. (-7 SQ. FT.)
 FRONT RETAINING WALL 16± SQ. FT.
 SEA RETAINING WALL 126± SQ. FT.
 WOOD RETAINING WALLS 6± SQ. FT.
 RETAINING WALL (AT NE) 19± SQ. FT.
 RR TIES 9± SQ. FT.
 PROPOSED RETAINING WALL 0± SQ. FT.

TOTAL: 3,292± SQ. FT. (24.6%)

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.

EXISTING CONDITIONS PLAN

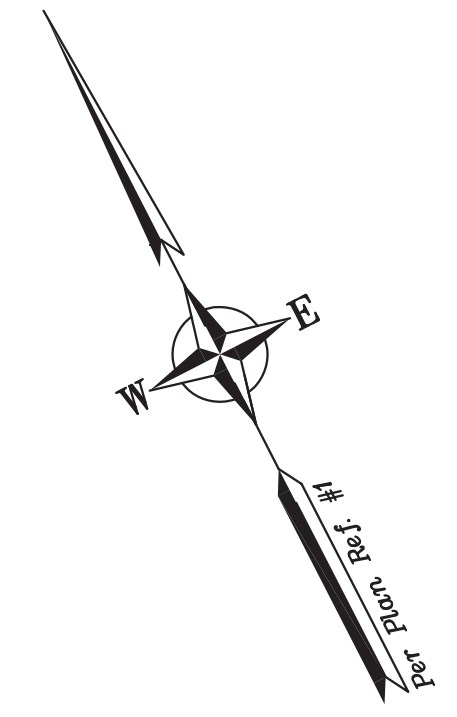
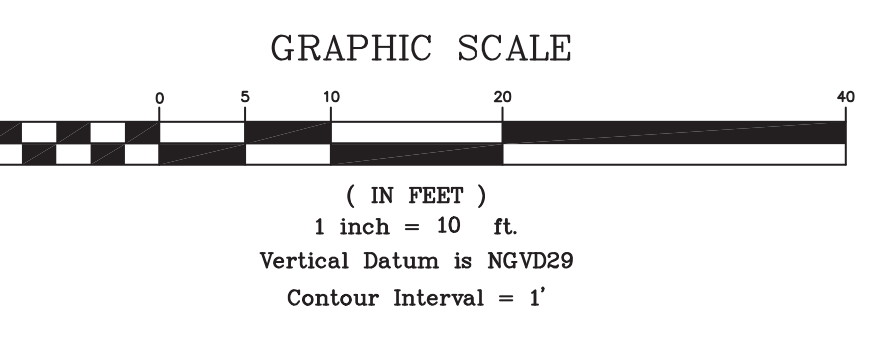
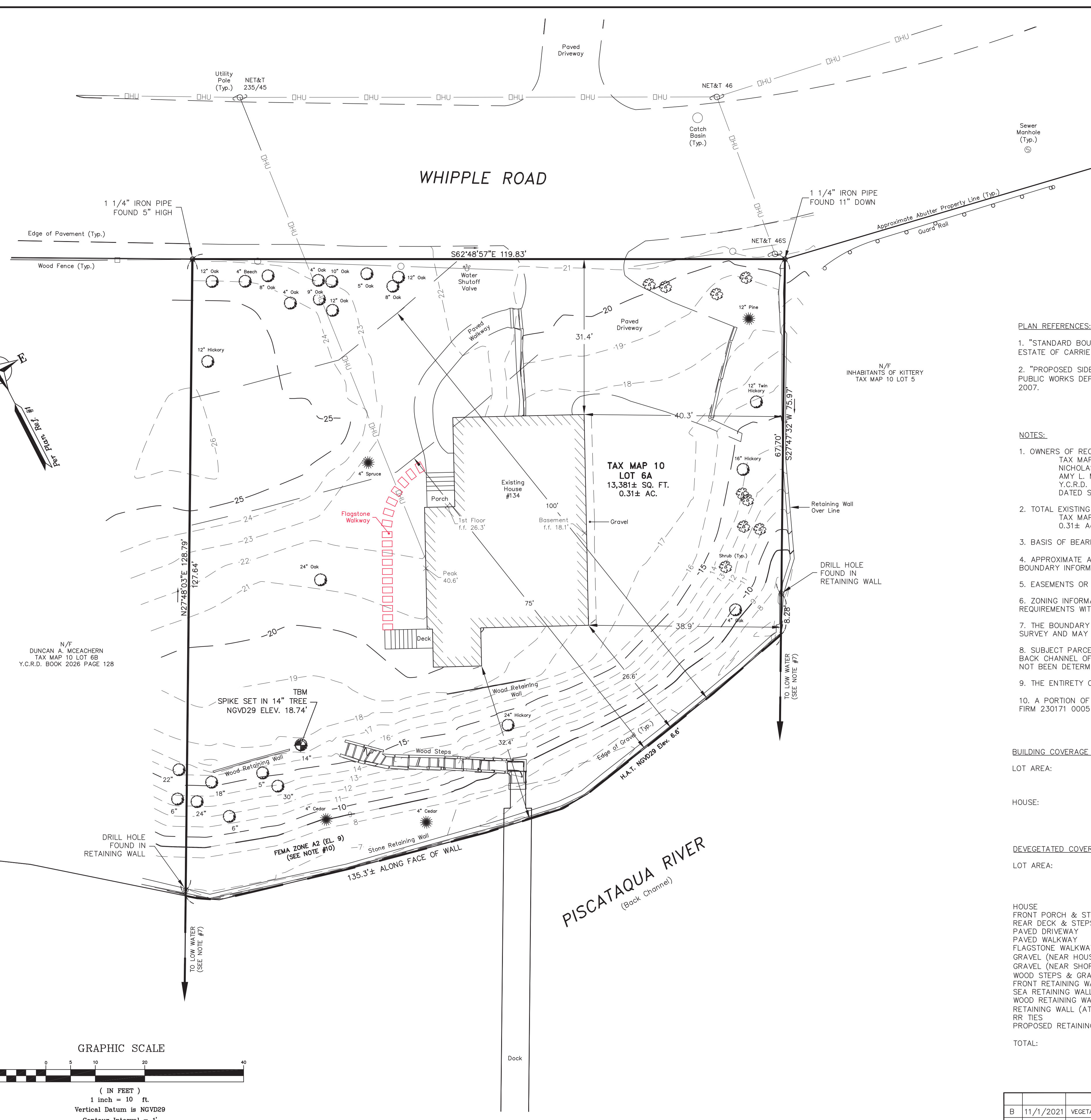
FOR PROPERTY AT
134 Whipple Road
 Kittery, York County, Maine
 OWNED BY
Nicholas E. Mercier
Amy L. Mercier
 35 Goffstown Road, Hookset, NH 03106



SURVEYORS IN N.H. & MAINE 191 STATE ROAD, SUITE #1
 (207) 439-6333 KITTERY, MAINE 03904

| | | | | | |
|--|-------------------|-----------------|---------------|------------------|--------------------|
| SCALE: 1" = 10' | PROJECT NO: 20612 | DATE: 2/27/2020 | SHEET: 1 OF 1 | DRAWN BY: A.H.P. | CHECKED BY: A.M.P. |
| DRAWING No: 20612 EXISTING CONDITIONS REV. A | | | | | |
| FIELD BOOK No: "Kittery #38" | | | | | |
| Tax Map 10 Lot 6A | | | | | |

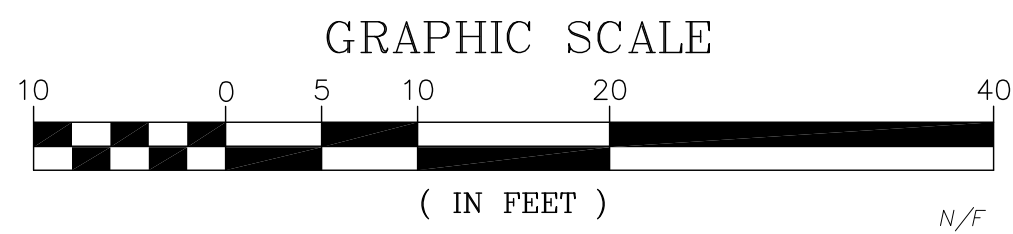
| | | | | | |
|------|-----------|--|--------|------|--------|
| REV. | DATE | STATUS | BY | CHKD | APPD. |
| B | 11/1/2021 | VEGETATION UPDATE | A.M.P. | | P.L.A. |
| A | 9/29/20 | ADD FLAGSTONE WALKWAY / 24" OAK / UPDATE | A.M.P. | | A.M.P. |



N/F
 DUNCAN A. MCEACHERN
 TAX MAP 10 LOT 6B
 Y.C.R.D. BOOK 2026 PAGE 128

N/F
 INHABITANTS OF KITTERY
 TAX MAP 10 LOT 5

PISCATAQUA RIVER
 (Back Channel)



N/F
EVEREST TRUST
TAX MAP 10 LOT 114

WHIPPLE ROAD

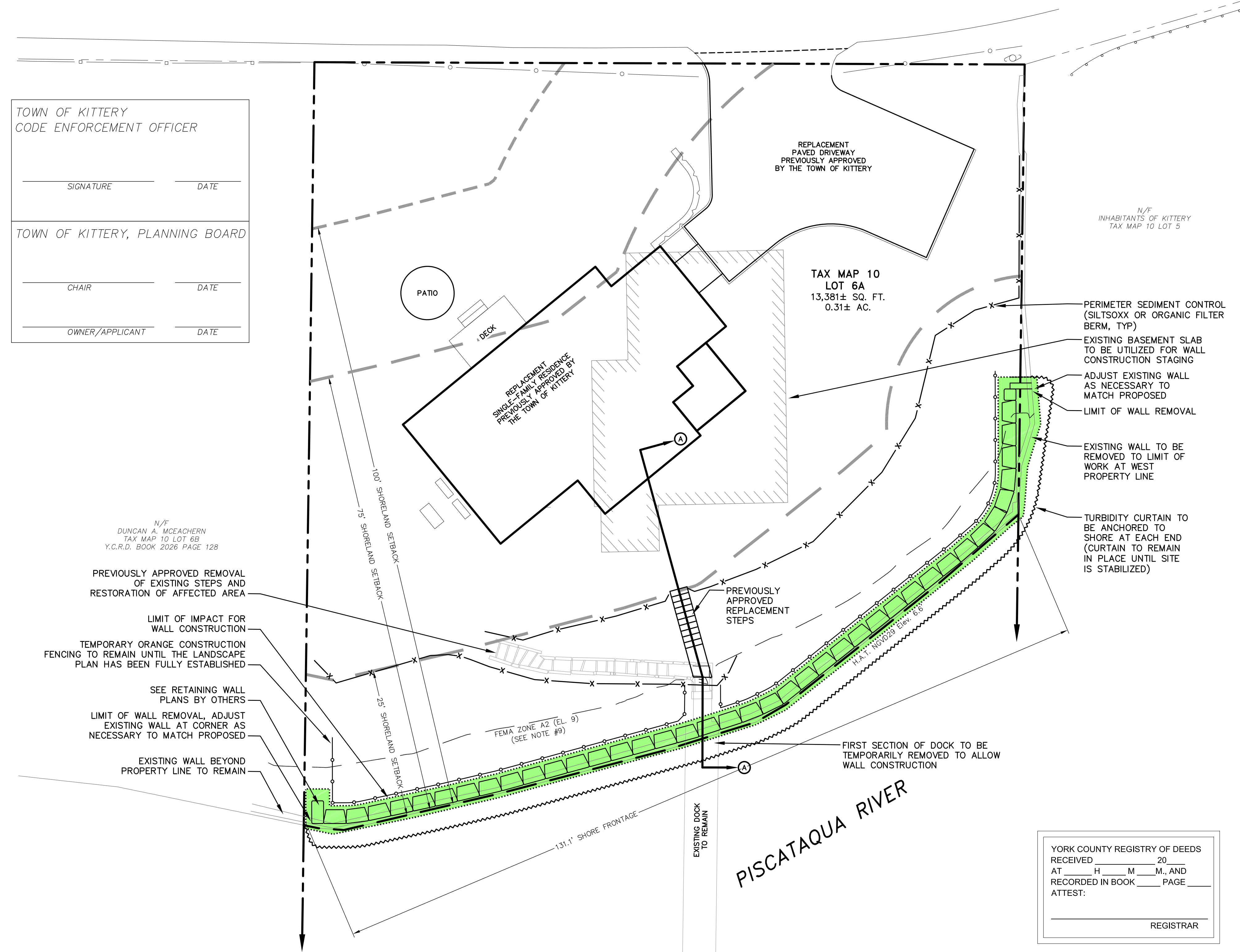
TOWN OF KITTERY
CODE ENFORCEMENT OFFICER

SIGNATURE _____ DATE _____

TOWN OF KITTERY, PLANNING BOARD

CHAIR _____ DATE _____

OWNER/APPLICANT _____ DATE _____



SITE NOTES

- DESIGN INTENT – THIS PLAN SET IS INTENDED TO DEPICT THE REPLACEMENT OF AN EXISTING RETAINING WALL WITH NO INCREASE IN HEIGHT.
- PLAN REFERENCE: "EXISTING CONDITIONS PLAN FOR PROPERTY AT 134 WHIPPLE ROAD, KITTERY, YORK COUNTY, MAINE", DATED FEBRUARY 27, 2020, PREPARED BY NORTH EASTERLY SURVEY, INC.
- APPROXIMATE LOT AREA: 0.31 AC.± (13,381 S.F.±)
- ZONE: RESIDENTIAL-URBAN (R-U)
OVERLAY ZONE: SHORELAND (OZ-SL-250')
- DIMENSIONAL REQUIREMENTS PER TOWN OF KITTERY CODE TITLE 16 (SEC. 16.3.2.4):

| | |
|-----------------------------------|---|
| MIN. LAND AREA PER DWELLING UNIT: | 20,000 S.F. |
| MIN. LOT SIZE: | 20,000 S.F. |
| MIN. STREET FRONTAGE: | 100' |
| FRONT SETBACK: | 30' |
| SIDE SETBACK: | 15' |
| REAR SETBACK: | 15' |
| MAX. BUILDING HEIGHT: | 23.0' (EXISTING) AS APPROVED = 23.0' |
| MAX. BLDG. COVERAGE: | EXIST. COVERAGE (1,358 SF) + 30% = 1,765 SF |
| MIN. SHORE FRONTAGE: | 50' |
| SHORELAND SETBACK: | 100' |
| MAX. DEVEGETATED AREA: | 20% |
- ALL CONSTRUCTION SHALL MEET THE MINIMUM STANDARDS OF THE TOWN OF KITTERY.
- ALL EROSION CONTROL MEASURES SHALL COMPLY WITH STATE (DEP) AND LOCAL ORDINANCES.
- HIGHEST ANNUAL TIDE (H.A.T.) IS TAKEN FROM MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION DATA.
- THE ENTIRE PARCEL IS LOCATED WITHIN THE OZ-SL-250 ZONE.
- A PORTION OF THE PARCEL IS WITHIN A SPECIAL FLOOD HAZARD AREA (SFHA) PER FEMA FIRM 230171 0005 D. LATEST REVISION JULY 3, 1986.
- ALL BONDS AND FEES SHALL BE PAID/POSTED PRIOR TO INITIATING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL BENCHMARKS AND TOPOGRAPHY IN THE FIELD PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL WALL DIMENSIONS WITH THE STRUCTURAL PLANS PRIOR TO CONSTRUCTION. ALL DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- ALL PERIMETER SEDIMENT AND EROSION CONTROL MEASURES (I.E. SILTFENCE, SILTSOXX OR FILTER BERM) MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY EARTHWORK ACTIVITIES.
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH 6" OF COMPACTED LOAM AND SEED. COORDINATE WITH LANDSCAPE PLANS.
- ALL SEAWALL CONSTRUCTION BELOW THE H.A.T. (ELEVATION 6.6') SHALL BE PERFORMED AT LOW TIDE.
- DEMOLITION OF EXISTING SEAWALL AND CONSTRUCTION OF NEW SEAWALL TO BE DONE IN PHASES IN ORDER TO MINIMIZE AREAS OF EXPOSED UNSTABILIZED SHORELINE. PHASES SHALL BE LIMITED TO THE AMOUNT OF WORK THAT CAN BE REASONABLY ACCOMPLISHED DURING A SINGLE INTERTIDAL PERIOD.
- ALL PLAN ELEMENTS AND CONDITIONS OF APPROVAL SHOWN ON THE PREVIOUSLY-APPROVED SHORELAND DEVELOPMENT PLAN DATED MARCH 7, 2022 REMAIN APPLICABLE TO THIS PLAN. CONTRACTOR SHALL REVIEW BOTH PLANS PRIOR TO INITIATING WORK.
- AREA OF DISTURBANCE: ±689 S.F.

BUILDING COVERAGE/DEVEGETATION CALCULATIONS

| | 0 - 100' | 100' - 250' | ENTIRE LOT |
|-----------------------------|-----------|-------------|-------------------|
| EXISTING BUILDING COVERAGE: | ±1,358 SF | ±0 SF | ±1,358 SF (10.1%) |
| APPROVED BUILDING COVERAGE | ±1,608 SF | ±0 SF | ±1,608 SF (12.0%) |
| EXISTING DEVEGETATION CALC: | ±3,292 SF | ±0 SF | ±3,292 SF (24.6%) |
| PROPOSED DEVEGETATION CALC: | ±3,219 SF | ±0 SF | ±3,219 SF (24.1%) |

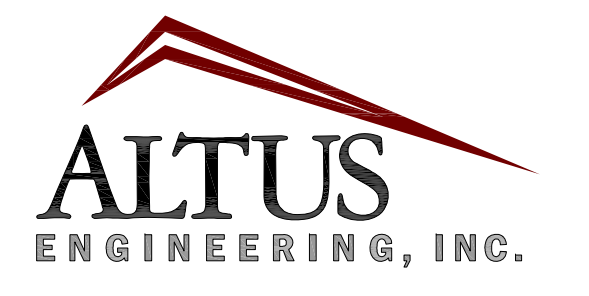
* AREAS AND HEIGHT LIMITATIONS ARE PER KITTERY LAND USE AND DEVELOPMENT CODE (TITLE 16) SECTION 16.7.3.3.B(3)(e)[5][a] / SECTION 16.3.2.17.D(1)(d)

EXISTING DEVEGETATION CALC.: HOUSE, PORCH, DECK & STAIRS (1,434 SF) + PAVED DRIVEWAY (1,059 SF) + PAVED WALKWAY (164 SF) + FLAGSTONE WALKWAY (50 SF) + GRAVEL ADJ. TO HOUSE (67 SF) + GRAVEL AT SEAWALL (218 SF) + WOOD STEPS AND GRAVEL (124 SF) + FRONT RETAINING WALL (16 SF) + SEAWALL (126 SF) + WOOD RETAINING WALLS (16 SF) + RETAINING WALL AT NE (19 SF) + RR TIES (9 SF) = ±3,292 SF (24.6%)

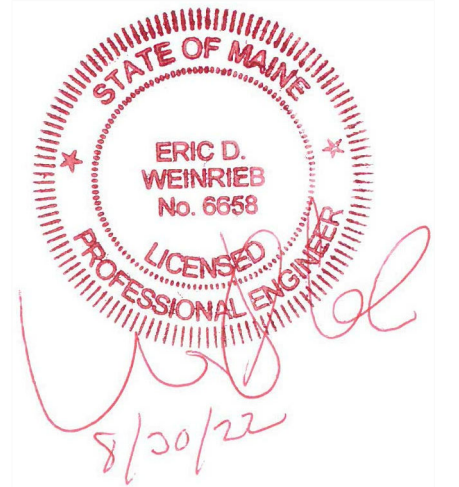
PROPOSED DEVEGETATION CALC (REVISED): PROPOSED HOUSE (1,524) + DECK & STAIRS (82 SF) + STEPS TO DOCK (46 SF) + EX. SEAWALL (1 SF) + PROP. SEAWALL (80 SF) + FRONT WALKWAY (32 SF) + PATIO (64 SF) + PAVED DRIVE (1,099 SF) + TOP OF CURB (32 SF) + TOP OF RETAINING WALL (21 SF) + DRIP EDGE (222 SF) + MECH. PADS (16 SF) = ±3,219 SF (24.1% OF LOT, 73 SF LESS THAN EXISTING AREA)

YORK COUNTY REGISTRY OF DEEDS
RECEIVED _____ 20____
AT _____ H _____ M _____ AND
RECORDED IN BOOK _____ PAGE _____
ATTEST:

REGISTRAR



133 Court Street
(603) 433-2335
Portsmouth, NH 03801
www.altus-eng.com



NOT FOR CONSTRUCTION

ISSUED FOR: PERMITTING

ISSUE DATE: AUGUST 30, 2022

REVISIONS

| NO. | DESCRIPTION | BY | DATE |
|-----|-------------------------|-----|----------|
| 0 | PLANNING BOARD | EBS | 05/19/22 |
| 1 | REV. PER PLANNING BOARD | EBS | 06/21/22 |
| 2 | REV. PER DEP | EBS | 08/11/21 |
| 3 | REV. WALL HEIGHT | EBS | 08/30/21 |

DRAWN BY: EBS
APPROVED BY: EBS
DRAWING FILE: 5186.dwg

SCALE:
22" x 34" - 1" = 10'
11" x 17" - 1" = 20'

OWNER/APPLICANT:
AMY L. & NICHOLAS E. MERCIER
35 GOFFSTOWN ROAD
HOOKSETT, NH 03106-2400

PROJECT:
MERCIER SEAWALL SHORELAND DEVELOPMENT PLAN

TAX MAP 10, LOT 6A
134 WHIPPLE ROAD
KITTERY, MAINE

TITLE:
SHORELAND DEVELOPMENT PLAN

SHEET NUMBER:
C-1

SEDIMENT AND EROSION CONTROL NOTES

PROJECT NAME AND LOCATION

MERCIR RESIDENCE
134 WHIPPLE ROAD
KITTERY, MAINE
TAX MAP 10 LOT 6A

LATITUDE: 43° 05' 07" N
LONGITUDE: 70° 43' 45" W

OWNER/APPLICANT:

AMY L. AND NICHOLAS E. MERCIER
35 GOFFSTOWN ROAD
HOOKSETT, NH 03106-2400

DESCRIPTION

The project consists of the replacement of an existing seawall in its current location with no increase in height.

DISTURBED AREA

The total area to be disturbed for the development is approximately ±689 S.F. (±0.02 acres). Maine CGP compliance not required.

PROJECT PHASING

The proposed seawall improvements will be completed in one phase.

NAME OF RECEIVING WATER

The site drains over land to the Back Channel of the Piscataqua River.

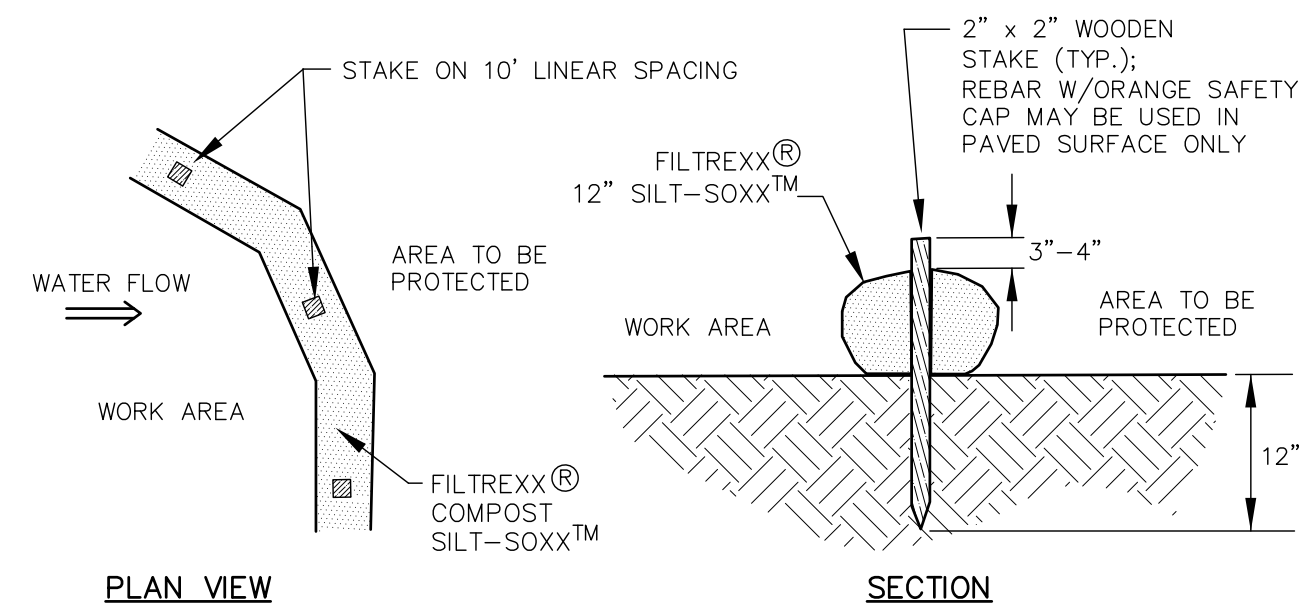
SEQUENCE OF MAJOR ACTIVITIES

1. 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 project.
2. Raze existing residence, retain basement slab for staging of wall construction.
3. Remove vegetation from work limits. Strip loam and stockpile.
4. Remove portion of dock as required to construct wall.
5. Demolish existing wall in phases as work progresses.
6. Construct wall in phases corresponding to removal of existing wall. Work below the tide line is to be performed at low tide.
7. Rough grade site including placement of borrow materials behind wall.
8. Loom (6" min) and seed all disturbed areas not paved or otherwise stabilized.
9. Install landscaping per plans.
10. Reinstall dock section removed for construction.
11. 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.

TEMPORARY EROSION & SEDIMENT CONTROL AND STABILIZATION PRACTICES

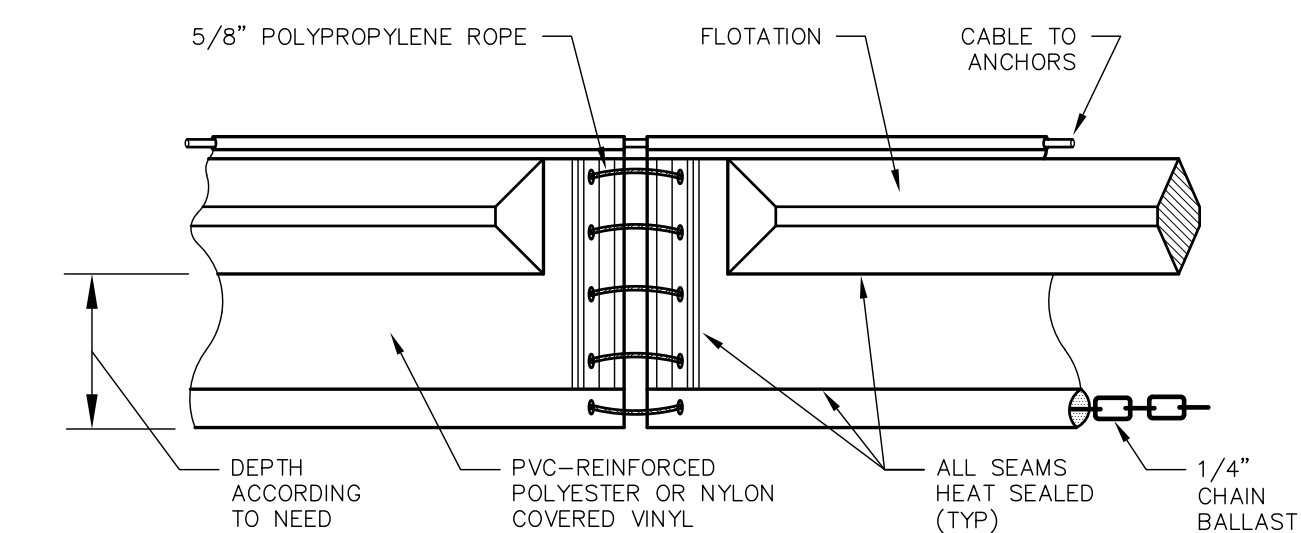
Installation or construction of erosion control measures shall conform to the practices described in the "2014 Revision to the 2003 Maine Erosion and Sediment Control Field Guide for Contractors, published by the Maine Department of Environmental Protection.

As indicated in the sequence of Major Activities, perimeter controls shall be installed prior to commencing any clearing or grading of the site. Structural controls shall be installed concurrently with the applicable activity. Once construction activity ceases permanently in an area and permanent measures are established, perimeter controls shall be removed.



- NOTES:**
1. SILTSOXX MAY BE 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 APPLICATION.
 4. ALL SEDIMENT TRAPPED BY SILTSOXX SHALL BE DISPOSED OF PROPERLY.

TUBULAR SEDIMENT BARRIER NOT TO SCALE



- NOTES:**
1. TURBIDITY BARRIER TO BE SECURELY ANCHORED TO SHORE AT EACH END.
 2. TYPICAL SPECIFICATIONS:
FABRIC: 20 MIL., 18 OZ. NOMINAL PVC-COVERED POLYESTER OR NYLON REINFORCED VINYL.
ROPE: 5/8" POLY PROPYLENE, 600# BREAK STRENGTH, WITH #5 BRASS OR STAINLESS STEEL GROMMETS.
CABLE: 5/16" GALVANIZED STEEL 7x19 LOAD CABLE w/ PVC COATING, 9800# BREAK STRENGTH.
BALLAST: 5/16" GALVANIZED CHAIN BALLAST IN BOTTOM OF CURTAIN.
PLATES: ALUMINUM STRESS PLATES AT ALL CABLE AND CHAIN TERMINATIONS.
FLOTATION: 8" CLOSED-CELL SOLID PLASTIC, 17 LB./FT MIN. BUOYANCY.

TURBIDITY BARRIER NOT TO SCALE

During construction, runoff will be diverted around the site with stabilized channels where possible. Sheet runoff from the site shall be filtered through appropriate perimeter controls. All storm drain inlets shall be provided with inlet protection measures.

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

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

INSTALLATION, MAINTENANCE AND INSPECTION PROCEDURES FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES

A. GENERAL

These are general inspection and maintenance practices that shall be used to implement the plan:

1. The smallest practical portion of the site shall be denuded at one time.
2. All control measures shall be inspected at least once each week and following any storm event of 0.5 inches or greater.
3. All measures shall be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours.
4. Built-up sediment shall be removed from perimeter barriers when it has reached one-third the height of the barrier or when "bulges" occur.
5. All diversion dikes shall be inspected and any breaches promptly repaired.
6. Temporary seeding and planting shall be inspected for bare spots, washouts, and unhealthy growth.
7. The owner's authorized engineer shall inspect the site on a periodic basis to review compliance with the Plans.
8. An area shall be considered stable if one of the following has occurred:
 - a. Base coarse gravels have been installed in areas to be paved;
 - b. A minimum of 85% vegetated growth as been established;
 - c. A minimum of 3 inches of non-erosive material such as stone or riprap has been installed; - or -
 - d. Erosion control blankets have been properly installed.
9. The length of time of exposure of area disturbed during construction shall not exceed 45 days.

B. MULCHING

Mulch shall be used on highly erodible soils, on critically eroding areas, on areas where conservation of moisture will facilitate plant establishment, and where shown on the plans.

1. Timing - In order for mulch to be effective, it must be in place prior to major storm events. There are two (2) types of standards which shall be used to assure this:
 - a. Apply mulch prior to any storm event. This is applicable when working within 100 feet of wetlands. It will be necessary to closely monitor weather predictions, usually by contacting the National Weather Service in Concord, to have adequate warning of significant storms.
 - b. Required Mulching within a specified time period. The time period can range from 21 to 28 days of inactivity on a area, the length of time varying with site conditions. Professional judgment shall be used to evaluate the interaction of site conditions (soil erodibility, season of year, extent of disturbance, proximity to sensitive resources, etc.) and the potential impact of erosion on adjacent areas to choose an appropriate time restriction.

2. Guidelines for Winter Mulch Application -

| Type | Rate per 1,000 s.f. | Use and Comments |
|--------------------------|---------------------|---|
| Hay or Straw | 70 to 90 lbs. | Must be dry and free from mold. May be used with plantings. |
| Wood Chips or Bark Mulch | 460 to 920 lbs. | Used mostly with trees and shrub plantings. |

INSTALLATION, MAINTENANCE AND INSPECTION PROCEDURES FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (CONTINUED)

| Type | As per manufacturer Specifications | Used in slope areas, water courses and other Control areas. |
|--|------------------------------------|---|
| Jute and Fibrous Matting (Erosion Blanket) | | |
| Crushed Stone 1/4" to 1-1/2" dia. | Spread more than 1/2" thick | Effective in controlling wind and water erosion. |
| Erosion Control Mix | 2" thick (min) | |

- * The organic matter content is between 80 and 100% dry weight basis.
- * Particle size by weight is 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.
- * Soluble salts content is less than 4.0 mmhos/cm.
- * The pH should fall between 5.0 and 8.0.

3. Maintenance - All mulches must be inspected periodically, in particular after rainstorms, to check for fill erosion. If less than 90% of the soil surface is covered by mulch, additional mulch shall be immediately applied.

C. PERMANENT SEEDING -

1. Bedding - stones larger than 1 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 5" to prepare a seedbed and mix fertilizer into the soil.
2. Fertilizer - 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 organic fertilizer should be based on an evaluation of soil tests. When a soil test is not available, the following minimum amounts should be applied:

Agricultural Limestone @ 100 lbs. per 1,000 s.f.
10-20-20 organic fertilizer @ 12 lbs. per 1,000 s.f.

3. Seed Mixture (to be used only in areas where the Landscaping Plan is silent):

| Type | Lbs. / Acre | Lbs. / 1,000 sf |
|---------------------|-------------|-----------------|
| Tall Fescue | 24 | 0.55 |
| Creeping Red Fescue | 24 | 0.55 |
| Total | 48 | 1.10 |

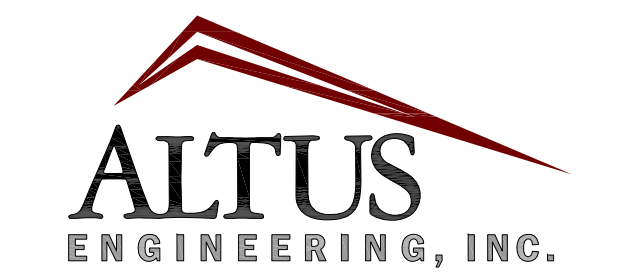
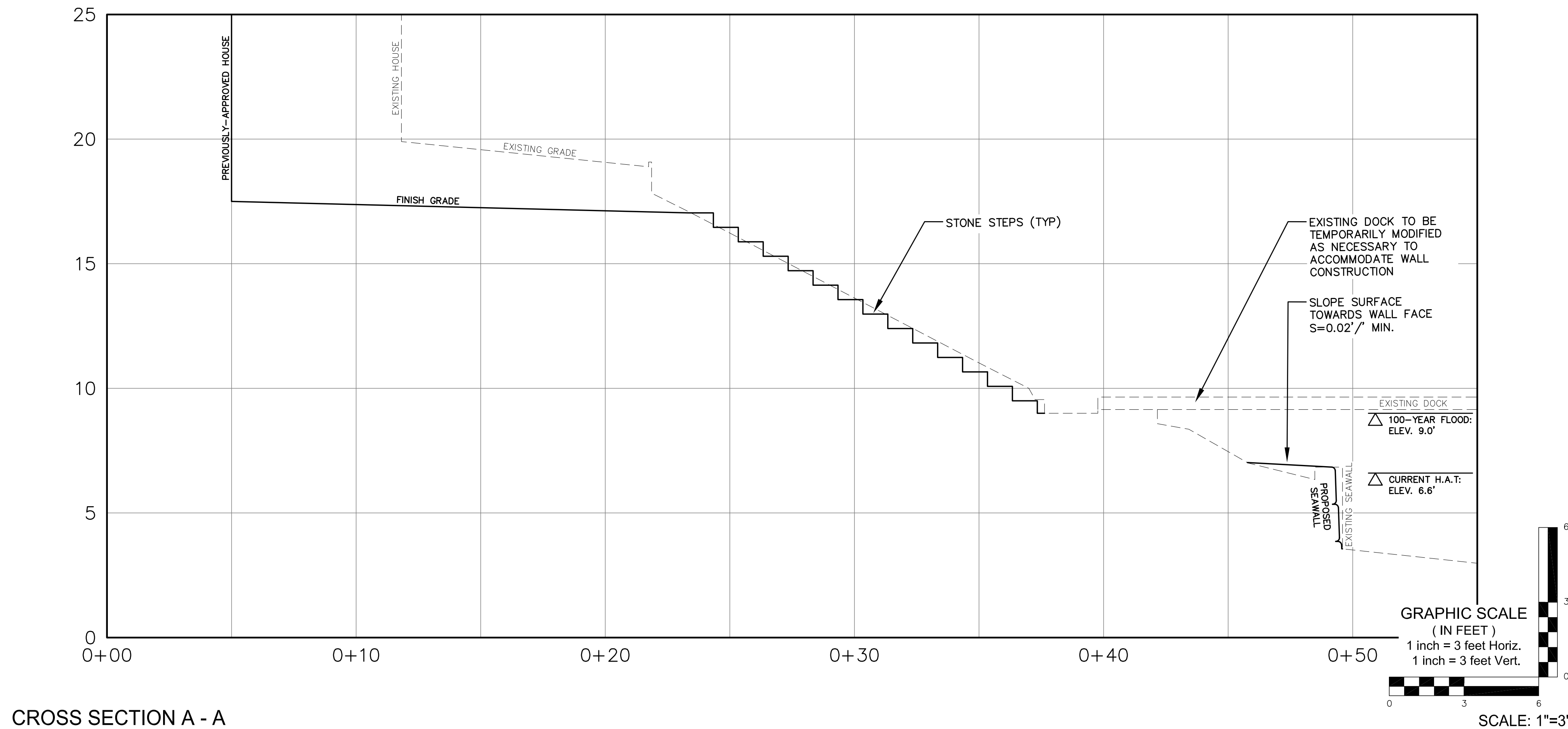
Seed Mixture (For slope embankments):
Grass Seed: Provide fresh, clean, new-crop seed complying with tolerance for purity and germination established by Official Seed Analysts of North America. Provide seed mixture composed of grass species, proportions and minimum percentages of purity, germination, and maximum percentage of weed seed, as specified:

| Type | Min. Purity (%) | Min. Germination (%) | Kg./Hectare (Lbs./Acre) |
|-------------------------|-----------------|----------------------|-------------------------|
| Creeping Red Fescue (c) | 96 | 85 | 45 (40) |
| Perennial Rye Grass (a) | 98 | 90 | 35 (30) |
| Redtop | 95 | 90 | 5 (5) |
| Alsike Clover | 97 | 90(e) | 5 (5) |
| | | | Total 90 (80) |

- a. Ryegrass shall be a certified fine-textured variety such as Pennfine, Fiesta, Yorktown, Diplomat, or equal.
 - b. Fescue varieties shall include - Creeping Red and/or Hard Reliant, Scaldis, Koket, or Jamestown.
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.

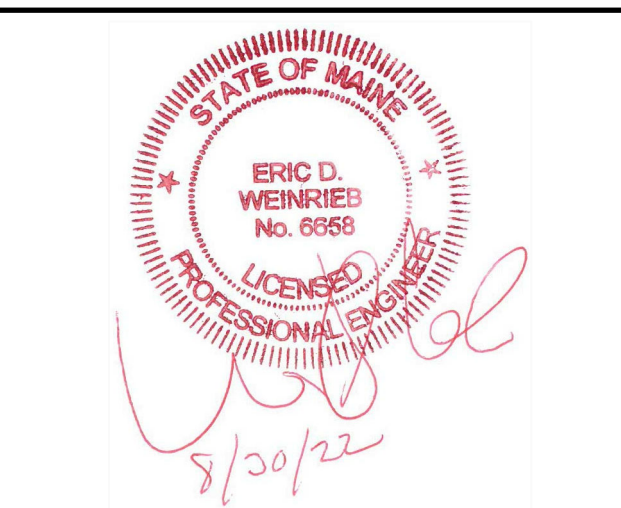
WINTER CONSTRUCTION NOTES

1. All proposed vegetated areas which do not exhibit a minimum of 85% vegetative growth by October 15th, or which are disturbed after October 15th, shall be stabilized by seeding and installing erosion control blankets on slopes greater than 3:1, and elsewhere seeding and placing 3 to 4 tons of mulch per acre, secured with anchored netting. The installation of erosion control blankets or mulch and netting shall not occur over accumulated snow or on frozen ground and shall be completed in advance of thaw or spring melt events;
2. All ditches or swales which do not exhibit a minimum of 85% vegetative growth by October 15th, or which are disturbed after October 15th, shall be stabilized temporarily with stone or erosion control blankets appropriate for the design flow conditions; and
3. After November 15th, incomplete road or parking surfaces where work has stopped for the winter season shall be protected with a minimum of 3 inches of crushed gravel.



133 Court Street
(603) 433-2335

Portsmouth, NH 03801
www.altus-eng.com



NOT FOR CONSTRUCTION

ISSUED FOR: PERMITTING

ISSUE DATE: AUGUST 30, 2022

| NO. | DESCRIPTION | BY | DATE |
|-----|-------------------------|-----|----------|
| 0 | PLANNING BOARD | EBS | 05/19/22 |
| 1 | REV. PER PLANNING BOARD | EBS | 06/13/22 |
| 2 | REV. PER DEP | EBS | 08/11/21 |
| 3 | REV. WALL HEIGHT | EBS | 08/30/21 |

DRAWN BY: EBS

APPROVED BY: EBS

DRAWING FILE: 5186.dwg

SCALE:
22" x 34" - 1" = 10'
11" x 17" - 1" = 20'

OWNER/APPLICANT:
AMY L. & NICHOLAS E. MERCIER
35 GOFFSTOWN ROAD
HOOKSETT, NH 03106-2400

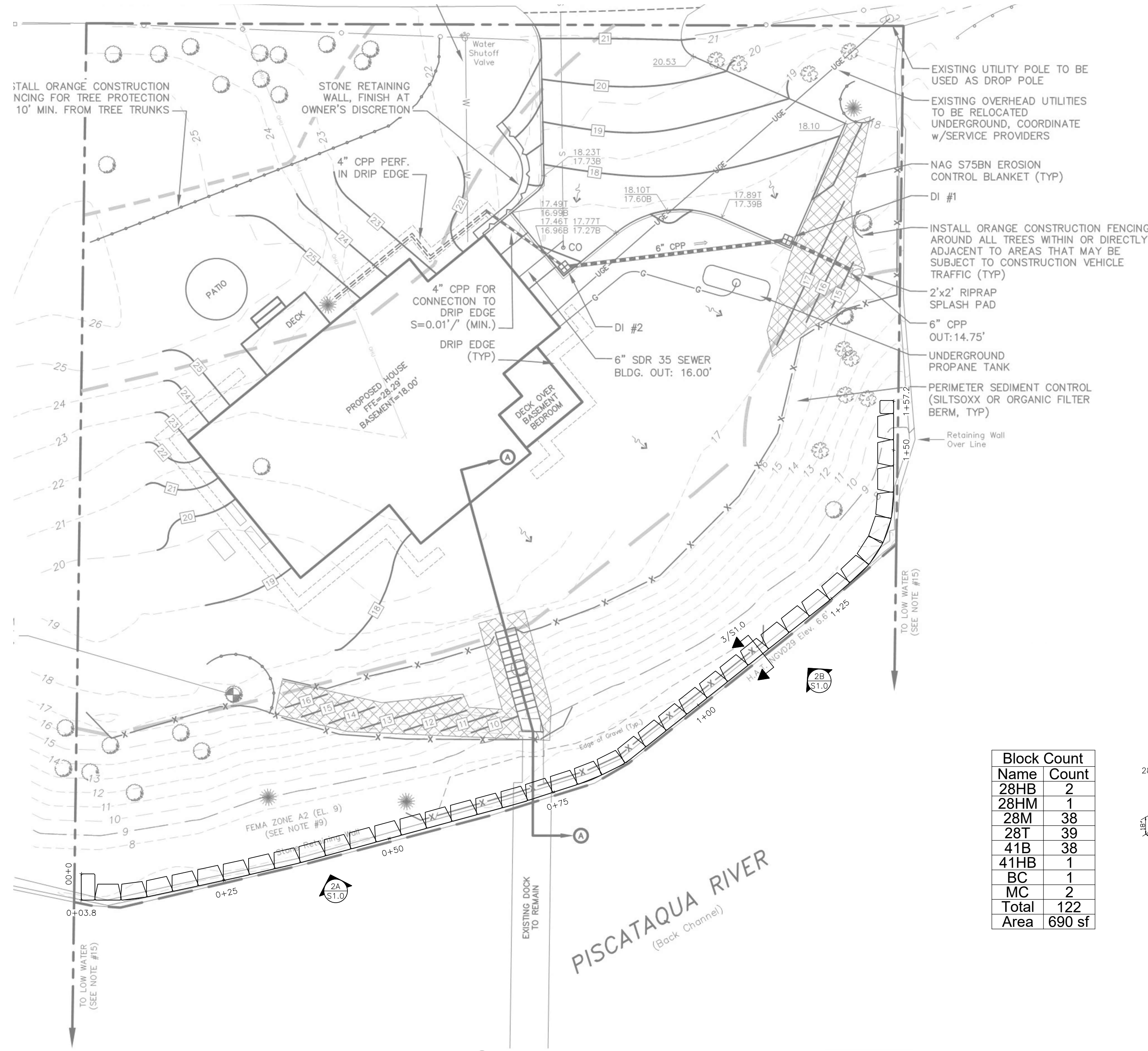
PROJECT:
MERCIR SEAWALL SHORELAND DEVELOPMENT PLAN
TAX MAP 10, LOT 6A
134 WHIPPLE ROAD
KITTERY, MAINE

TITLE:

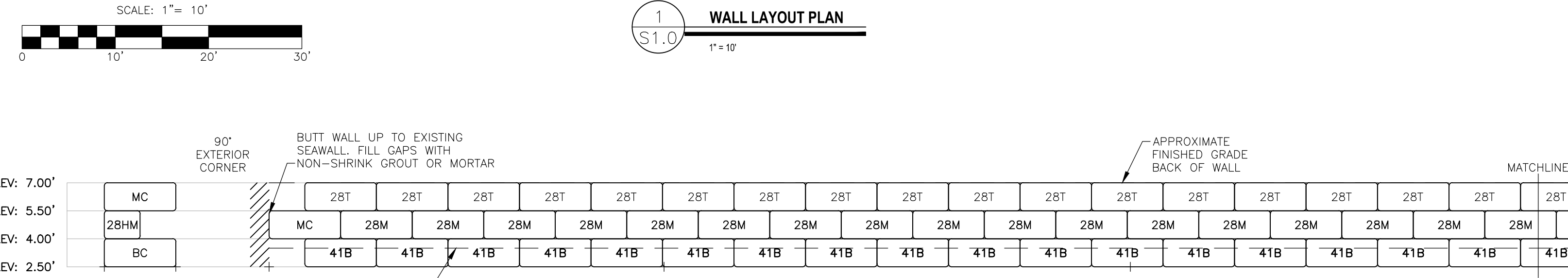
DETAIL SHEET

SHEET NUMBER:

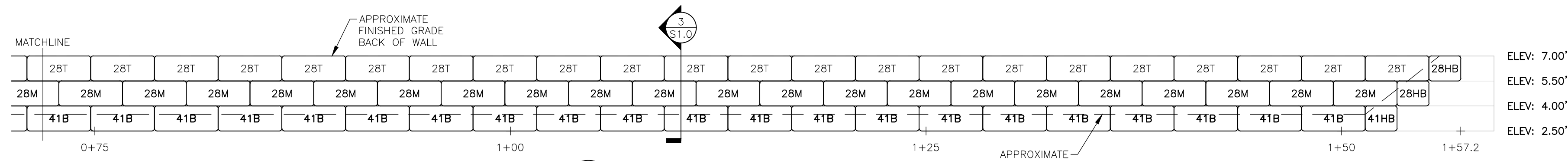
C-2



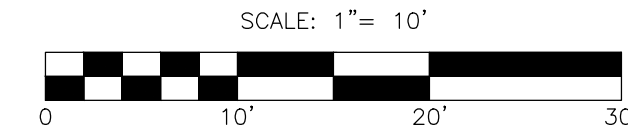
1 WALL LAYOUT PLAN
S1.0
1"=10'



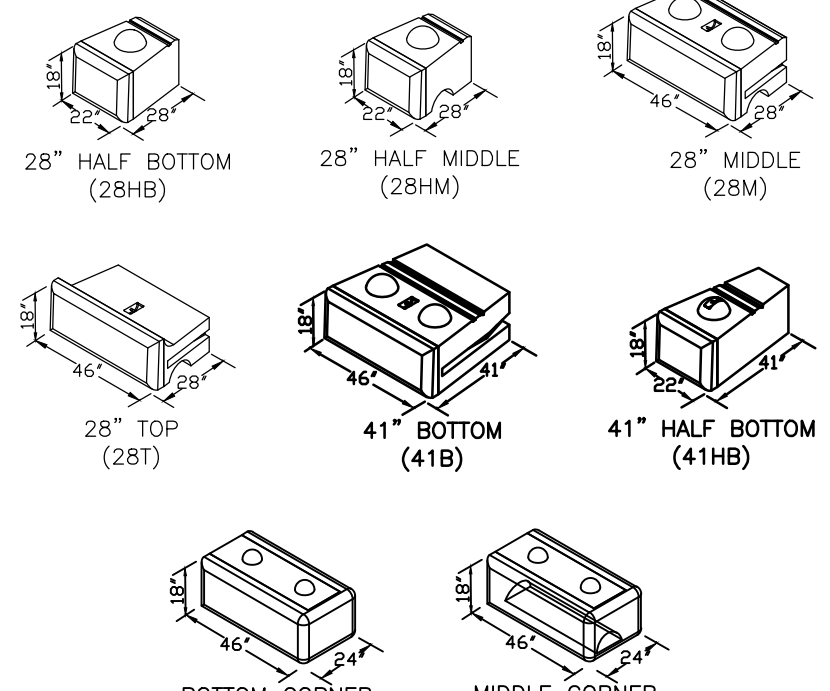
2A WALL ELEVATION
S1.0
1"=5'



2B WALL ELEVATION
S1.0
1"=5'



| Block Count | |
|--------------|---------------|
| Name | Count |
| 28HB | 2 |
| 28HM | 1 |
| 28M | 38 |
| 28T | 39 |
| 41B | 38 |
| 41HB | 1 |
| BC | 1 |
| MC | 2 |
| Total | 122 |
| Area | 690 sf |



REDI-ROCK BLOCK RETAINING WALL NOTES:

- THE PURPOSE OF THIS PLAN IS TO SHOW THE DESIGN OF A RETAINING WALL TO REPLACE THE EXISTING SEAWALL.
- THIS RETAINING WALL SYSTEM MAY IMPACT OR BE IMPACTED BY OTHER SITE FEATURES, INCLUDING STORMWATER MANAGEMENT FACILITIES, UTILITIES, AND BUILDING SYSTEMS. THE APPROPRIATE RESPONSIBLE PROFESSIONALS SHALL REVIEW THESE PLANS TO INSURE PROPER COORDINATION.
- THIS DESIGN IS PREPARED IN ACCORDANCE WITH THE STATE BUILDING CODE AND APPLICABLE MANUFACTURERS GUIDELINES. SPECIFIC LOCAL REGULATIONS HAVE NOT BEEN INVESTIGATED.
- CONCRETE USED FOR WALL UNITS SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 5,000 P.S.I. WALL UNITS SHALL COMPLY WITH REDI-ROCK INTERNATIONAL'S SPECIFICATIONS, ASTM C-1776 AND ACI-301-99, HAVE 4 1/2% - 7 1/2% ENTRAINED AIR, 4" - 6" SLUMP, AND MUST BE PLACED AT A MINIMUM AMBIENT TEMPERATURE OF 50°F.
- CONTRACTOR AND/OR SITE ENGINEER SHALL CONFIRM ALL ELEVATIONS AND INVERTS IN THESE PLANS PRIOR TO ORDERING MATERIAL.
- PROOF COMPACTION OF SUBGRADE SHALL BE COMPLETED PRIOR TO PLACEMENT OF LEVELING PAD AND RETAINING WALL BLOCKS. THE EXISTING SUBGRADE WITHIN THE STRESS ZONES OF THE RETAINING WALL BASE SHOULD BE FIRM NATURAL SOILS OR COMPETENT BEDROCK. IF EXISTING SUBGRADE IS NOT SUITABLE, IT SHOULD BE REMOVED WITHIN A 1:1 FROM THE RETAINING WALL BASE. ONCE SUITABLE SUBGRADE IS REACHED, BACKFILL WITH STRUCTURAL FILL OR CRUSHED STONE.
- LEVELING PAD SHALL BE 3/4" CRUSHED STONE WITH NO MORE THAN 5% PASSING A #200 SIEVE.
- ENSURE THAT THE FIRST COURSE OF WALL UNITS IS IN FULL CONTACT WITH LEVELING PAD. INSTALL SUBSEQUENT COURSES OF UNITS SUCH THAT THE VERTICAL SEAMS ARE STAGGERED BETWEEN ADJACENT COURSES. GAPS SHALL BE FILLED WITH DRAINAGE STONE PRIOR TO STARTING THE NEXT COURSE.
- BASE BLOCKS SHALL BE SET BACK 1-1/2" WHEN STEPPING UP AND SET FORWARD 1-1/2" WHEN STEPPING DOWN. WALL ANGLES SHALL BE SLIGHTLY ADJUSTED TO ACCOMMODATE PROPERTY LINES AND OBSTRUCTIONS.
- REDI-ROCK MANUFACTURER'S RECOMMENDATIONS SHALL BE CONSIDERED A MINIMUM REQUIREMENT FOR PROPER ASSEMBLY.
- DRAINAGE STONE SHALL BE 3/4" CRUSHED STONE PLACED DIRECTLY BEHIND WALL FOR THE DEPTHS SPECIFIED ON PLANS.
- MIRAFI 140N OR APPROVED EQUAL FILTER FABRIC SHALL BE PLACED BETWEEN ALL INTERFACES OF DRAINAGE STONE AND OTHER SOILS. EXPOSED DRAINAGE STONE SHALL BE PROTECTED FROM FINE SOIL MIGRATION THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL TAKE CARE TO NOT DISTURB OR INTERFERE WITH THE EFFECTIVENESS OF THE FILTER FABRIC WHEN INSTALLING ANY FEATURES THAT REQUIRE PENETRATIONS THROUGH THE FABRIC.
- DRAINS SHALL BE PERFORATED, 4" DIAMETER HDPE PIPE, AND SHALL MEET THE REQUIREMENTS OF ASTM D405. DRAINS SHALL BE PITCHED FOR POSITIVE WATER FLOW. THE ELEVATION OF THE DRAIN SHALL ALLOW FOR INTERCEPTED FLOWS TO DISCHARGE AT OUTLET LOCATIONS. THE DRAIN SHALL PENETRATE THROUGH THE WALL FACE AT OUTLET LOCATIONS. OUTLET LOCATIONS SHALL BE NO GREATER THAN 50' APART. THE LOCATION OF THE DRAIN OUTLETS SHALL BE DETERMINED IN THE FIELD BY THE SITE ENGINEER. INSTALL SALT WATER RESISTANT FLAP VALVE ON END OF DRAIN PIPES.
- GRAVEL BACKFILL BEYOND DRAINAGE STONE SHALL BE WELL GRADED SAND/GRAVEL AND SHALL MEET THE FOLLOWING GRADATION:

| SIEVE SIZE | PERCENT PASSING |
|------------|-----------------|
| 3 IN. | 100 |
| 3/4 IN. | 70-100 |
| NO. 4 | 40-90 |
| NO. 40 | 10-50 |
| NO. 200 | 0-10 |
- ALL GRAVEL BACKFILL SHALL BE COMPACTED TO 96% OF STANDARD PROCTOR (ASTM D698). ONLY HAND-OPERATED COMPACTION EQUIPMENT SHALL BE ALLOWED WITHIN THREE FEET OF THE BACK OF THE WALL BLOCKS. CONTRACTOR SHALL COMPACT THE BACKFILL MATERIAL BEHIND THE WALL AS THE WALL IS INSTALLED. SPREAD BACKFILL IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES.
- FINISHED GRADE AT TOP OF WALL IS APPROXIMATE ONLY. FINISHED GRADE AT TOP OF WALL SHOULD CHANNEL DRAINAGE FLOW AWAY FROM THE RETAINING WALL SYSTEM. CONTRACTOR TO DRESS FINISHED GRADE TO CREATE SMOOTH TRANSITION TO BLOCK.
- CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT EXCAVATIONS ARE STABLE AND MEET OSHA REQUIREMENTS.
- FALL PROTECTION IS RECOMMENDED AT THE TOP OF WALLS. CROSS SECTIONS MAY SHOW FALL PROTECTION AS SCHEMATIC DESIGN. THIS IS NOT A FALL PROTECTION DESIGN AND IS INTENDED FOR ILLUSTRATIVE PURPOSES ONLY.
- ANY FENCE ANCHORING SYSTEM SHALL BE INSTALLED PER RETAINING WALL MANUFACTURER'S RECOMMENDATION.
- THE WALL DESIGN ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF CONDITIONS ARE DIFFERENT THAN DESCRIBED ON THIS PLAN.
- UNLESS SFC ENGINEERING IS CONTRACTED TO OBSERVE CONSTRUCTION, SFC ENGINEERING WILL NOT CERTIFY THE CONSTRUCTION. PERIODIC SITE VISITS WILL BE NECESSARY IN ORDER FOR THE WALL DESIGN ENGINEER TO PREPARE A CERTIFICATION AT THE END OF CONSTRUCTION. THE OWNER SHALL COORDINATE THE FEES AND SCHEDULE FOR THESE SITE VISITS WITH THE WALL DESIGN ENGINEER PRIOR TO THE START OF CONSTRUCTION.

PLAN OF REFERENCE:

"MERCIER RESIDENCE SHORELAND DEVELOPMENT PLAN", PREPARED BY ALTUS ENGINEERING, INC., LAST REVISED OCTOBER 28, 2021.

DEVIATIONS FROM THE PLAN OF REFERENCE ARE AS FOLLOWS: EXISTING STONE RETAINING WALL TO BE REMOVED AND REPLACED WITH REDI-ROCK WALL.

GEOTECHNICAL SOILS REFERENCE:

SOILS INFORMATION FOR THE SITE WAS NOT PROVIDED TO SFC ENGINEERING. SOIL IS ASSUMED TO BE FINE SANDY LOAM BASED ON THE NRCOS DATABASE.

DESIGN CRITERIA VALUES:

THE VALUES OF CRITICAL CRITERIA USED TO DESIGN THIS WALL FOLLOW:

| | |
|----------------------------|-----------|
| ALLOWABLE BEARING PRESSURE | 5,300 PSF |
| MAXIMUM BEARING PRESSURE | 450 PSF |
| ANGLE OF INTERNAL FRICTION | 34 |
| SOIL DENSITY | 125 PCF |
| SURCHARGE | NONE |
| SLOPE ABOVE THE WALL | AS SHOWN |
| FENCE LOAD | NO |

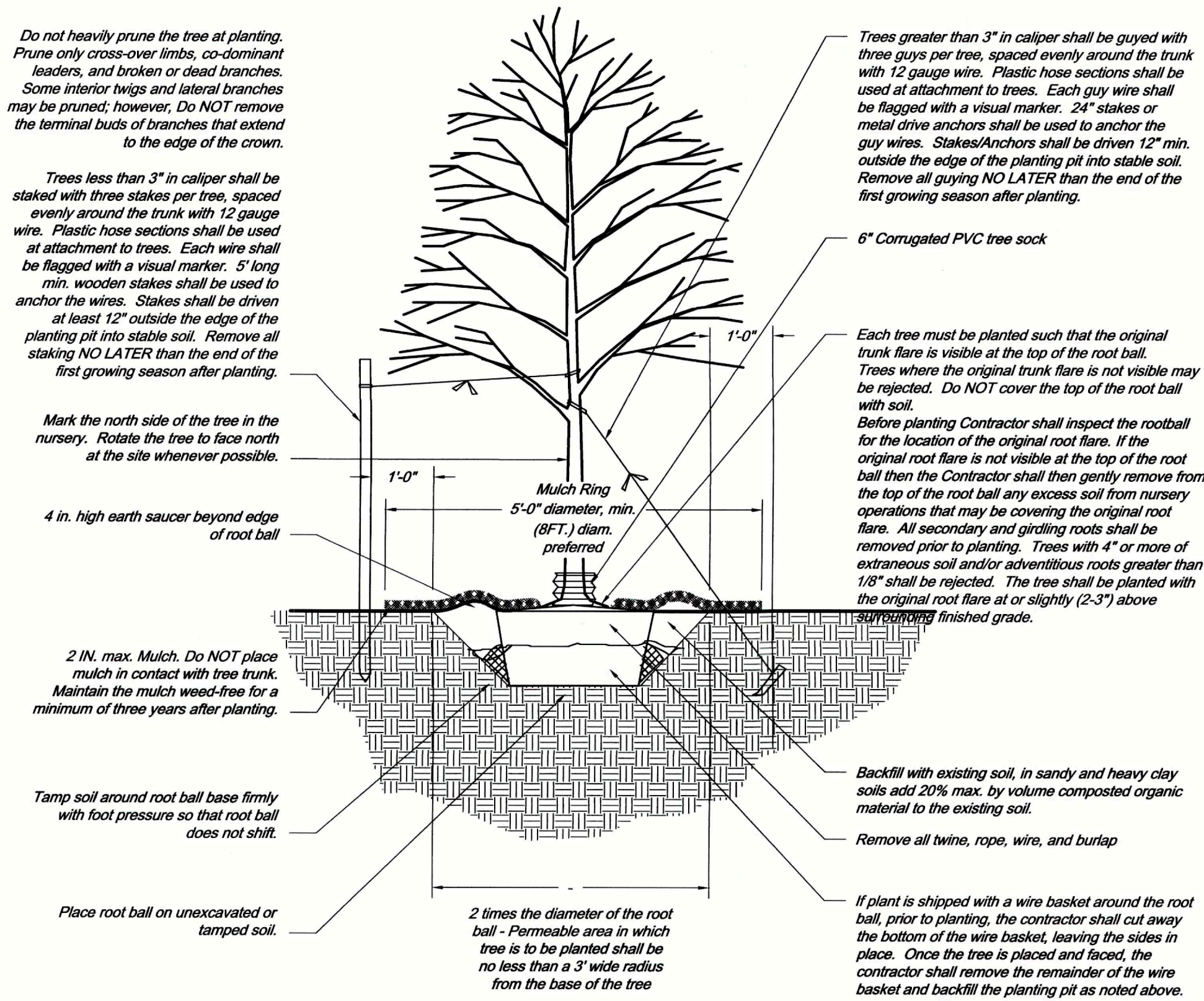
PRIOR TO INSTALLATION THE SITE ENGINEER SHALL CONFIRM THAT DESIGN ASSUMPTIONS ARE CONSISTENT WITH ACTUAL FIELD CONDITIONS. DESIGN CALCULATION REPORT IS AVAILABLE UPON REQUEST.

Professional Engineer Seal for Jeffrey M. Berway, No. 12918, State of Maine, August 26, 2022.

SFC ENGINEERING
183 ROCKINGHAM RD UNIT 3 EAST
WINDHAM, NH 03087
(603) 647-8700
www.sfceng.com

Mercier Residence
134 Whipple Road
Kittery, ME
Redi-Rock Wall Design Drawings
Project No. 659930
Date: 9/23/2020
Designed by: JMB
Drawn by: NMP
Checked by: JMB
Scale: AS SHOWN

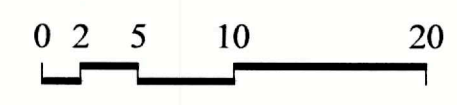
PREPARED FOR:
Nicholas E. Mercier
35 Goffstown Road
Hooksett, NH 03106
DWG NO. S1.0



TREE PLANTING DETAIL

LANDSCAPE NOTES

- Design is based on drawings by Altus Engineering dated and may require adjustment due to actual field conditions.
- The Contractor shall follow best management practices during construction and shall take all means necessary to stabilize and protect the site from erosion.
- Erosion Control shall be in place prior to construction.
- Erosion Control to consist of Hay Bales and Erosion Control Fabric shall be staked in place between the work and Water bodies, Wetlands and/or drainage ways prior to any construction.
- The Contractor shall verify layout and grades and inform the Landscape Architect or Client's Representative of any discrepancies or changes in layout and/or grade relationships prior to construction.
- It is the contractor's responsibility to verify drawings provided are to the correct scale prior to any bid, estimate or installation. A graphic scale bar has been provided on each sheet for this purpose. If it is determined that the scale of the drawing is incorrect, the landscape architect will provide a set of drawings at the correct scale, at the request of the contractor.
- Trees to Remain within the construction zone shall be protected from damage for the duration of the project by snow fence or other suitable means of protection to be approved by Landscape Architect or Client's Representative. Snow fence shall be located at the drip line at a minimum and shall include any and all surface roots. Do not fill or mulch on the trunk flare. Do not disturb roots. In order to protect the integrity of the roots, branches, trunk and bark of the tree(s) no vehicles or construction equipment shall drive or park in or on the area within the drip line(s) of the tree(s). Do not store any refuse or construction materials or portalets within the tree protection area.
- This plan is for review purposes only, NOT for Construction. Construction Documents will be provided upon request.
- Location, support, protection, and restoration of all existing utilities and appurtenances shall be the responsibility of the Contractor.
- The Contractor shall verify exact location and elevation of all utilities with the respective utility owners prior to construction. Call DIGSAFE at 1-888-344-7233.
- The Contractor shall procure any required permits prior to construction.
- Prior to any landscape construction activities Contractor shall test all existing loam and loam from off-site intended to be used for lawns and plant beds using a thorough sampling throughout the supply. Soil testing shall indicate levels of pH, nitrates, macro and micro nutrients, texture, soluble salts, and organic matter. Contractor shall provide Landscape Architect with test results and recommendations from the testing facility along with soil amendment plans as necessary for the proposed plantings to thrive. All loam to be used on site shall be amended as approved by the Landscape Architect prior to placement.
- Contractor shall notify landscape architect or owner's representative immediately if at any point during demolition or construction a site condition is discovered which may negatively impact the completed project. This includes, but is not limited to, unforeseen drainage problems, unknown subsurface conditions, and discrepancies between the plan and the site. If a contractor is aware of a potential issue, and does not bring it to the attention of the landscape architect or owner's representative immediately, they may be responsible for the labor and materials associated with correcting the problem.
- The Contractor shall furnish and plant all plants shown on the drawings and listed thereon. All plants shall be nursery-grown under climatic conditions similar to those in the locality of the project. Plants shall conform to the botanical names and standards of size, culture, and quality for the highest grades and standards as adopted by the American Association of Nurserymen, Inc. in the American Standard of Nursery Stock, American Standards Institute, Inc. 230 Southern Building, Washington, D.C. 20005.
- A complete list of plants, including a schedule of sizes, quantities, and other requirements is shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.
- All plants shall be legibly tagged with proper botanical name.
- The Contractor shall guarantee all plants for not less than one year from time of acceptance.
- Owner or Owner's Representative will inspect plants upon delivery for conformity to Specification requirements. Such approval shall not affect the right of inspection and rejection during or after the progress of the work. The Owner reserves the right to inspect and/or select all trees at the place of growth and reserves the right to approve a representative sample of each type of shrub, herbaceous perennial, annual, and ground cover at the place of growth. Such sample will serve as a minimum standard for all plants of the same species used in this work.
- No substitutions of plants may be made without prior approval of the Owner or the Owner's Representative for any reason.
- All landscaping shall be provided with the following:
 - Outside hose attachments spaced a maximum of 150 feet apart, and
 - An underground irrigation system, or
 - A temporary irrigation system designed for a two-year period of plant establishment.
- If an automatic irrigation system is installed, all irrigation valve boxes shall be located within planting bed areas.
- The contractor is responsible for all plant material from the time their work commences until final acceptance. This includes but is not limited to maintaining all plants in good condition, the security of the plant material once delivered to the site, and watering of plants. Plants shall be appropriately watered prior to, during and after planting. It is the contractor's responsibility to provide clean water suitable for plant health from off site, should it not be available on site.
- All disturbed areas will be dressed with 6" of topsoil and planted as noted on the plans or seeded except plant beds. Plant beds shall be prepared to a depth of 12" with 75% loam and 25% compost.
- Trees, ground cover, and shrub beds shall be mulched to a depth of 2" with one-year-old, well-composted, shredded native bark not longer than 4" in length and 1/2" in width, free of woodchips and sawdust. Mulch for ferns and herbaceous perennials shall be no longer than 1" in length. Trees in lawn areas shall be mulched in a 5' diameter min. saucer. Color of mulch shall be black.
- In no case shall mulch touch the stem of a plant nor shall mulch ever be more than 3" thick total (including previously applied mulch) over the root ball of any plant.
- Secondary lateral branches of deciduous trees overhanging vehicular and pedestrian travel ways shall be pruned up to a height of 6' to allow clear and safe passage of vehicles and pedestrians under tree canopy. Within the sight distance triangles at vehicle intersections the canopies shall be raised to 8' min.
- Snow shall be stored a minimum of 5' from shrubs and trunks of trees.
- Landscape Architect is not responsible for the means and methods of the contractor.



Plant List

TREES

| Symbol | Botanical Name | Common Name | Quantity | Size | Comments |
|--------|---|-----------------------------|----------|------------|---------------------------|
| Bet | Betula nigra 'Dura Heat' | Dura Heat River Birch | 1 | 10-12' Ht | B&B, Multi Stem |
| Haw | Crataegus crus-galli inermis 'Crusader' | Crusader Thornless Hawthorn | 1 | 2-2.5' Cal | |
| Jv | Juniperus virginiana 'Emerald Sentinel' | Emerald Sentinel Red Cedar | 4 | 4-5' Ht | B&B |
| Ns | Nyssa sylvatica | Black Tupelo | 1 | 3-3.5' Cal | B&B |
| St | Stewartia pseudacuminella | Japanese Stewartia | 1 | 8-10' Ht | B&B, Multi Stem, Specimen |
| Th | Thuja plicata 'Green Giant' | Green Giant Arborvitae | 3 | 8-10' Ht | B&B |

SHRUBS

| Symbol | Botanical Name | Common Name | Quantity | Size | Comments |
|--------|--|-------------------------------------|----------|---------|------------------------|
| Cle | Clethra alnifolia 'Hummingbird' | Hummingbird Compact Summersweet | 30 | 3 gal | planted above sea wall |
| Hib | Hibiscus syriacus 'Ardens' | Ardens Rose-of-Sharon (Double Blue) | 1 | 6-7' Ht | B&B |
| Hy1 | Hydrangea paniculata 'Little Quick Fire' | Little Quick Fire Hydrangea | 6 | 3 gal | |
| Hy2 | Hydrangea arborescens 'Incrediball' | Incrediball Hydrangea | 11 | 5 gal | |
| Ink | Ilex glabra 'Gem Box' | Gem Box Inkberry | 23 | 3 gal | |
| Mt | Kalmia latifolia | Mountain Laurel | 8 | 4-5' Ht | B&B, Full |
| Mp | Myrica pensylvanica | Northern Bayberry | 30 | 3 gal | planted above sea wall |
| Rhu | Rhus aromatica 'Grow-Low' | Grow Low Sumac | 30 | 3 gal | planted above sea wall |
| Ros | Rosa 'Peach Drift' | Peach Drift Rose | 34 | 3 gal | |
| Syr | Syringa 'Blommaring' | Blommaring Lilac | 7 | 5 gal | |
| Tax | Taxus media 'Greenwave' | Greenwave Yew | 12 | 5 gal | |
| Vac | Vaccinium angustifolium | Lowbush Blueberry | 250 | 1 qt | |

PERENNIALS, GROUNDCOVERS, VINES and ANNUALS

| Symbol | Botanical Name | Common Name | Quantity | Size | Comments |
|--------|--|----------------------------|----------|----------|----------|
| An | Anemone 'Honorio Jobert' | Windflower | 11 | 1 gal | |
| Ast | Astilbe 'Peach Blossom' | Peach Astilbe | 34 | 1 gal | |
| Cal | Calamagrostis acutifolia 'Karl Foerster' | Feather Reed Grass | 12 | 1 gal | |
| Fer | Dennstaedtia punctiloba | Hay-scented Fern | 40 | 1 gal | |
| Ham | Pennisetum alopecuroides 'Hamel' | Hamel Dwarf Fountain Grass | 30 | 1 gal | |
| Mis | Miscanthus sinensis 'Gracillimus' | Maiden Grass | 7 | 1 gal | |
| Sal | Salvia nemorosa 'Caradonia' | Dark Blue Salvia | 14 | 1 gal | |
| Vm | Vinca minor 'Bowles' | Bowles Periwinkle | 450 | 2" plugs | |

woodburn & company
LANDSCAPE ARCHITECTURE
103 Kent Place
Newmarket, New Hampshire
Phone: 603.939.9949

Mercier Residence
LANDSCAPE PLAN
134 Whipple Road Kittery, Maine

Drawn By: VM
Checked By: RW
Scale: 1" = 10'-0"
Date: November 4, 2021
Revisions: June 28, 2022 replacement sea wall

L-1
Sheet 1 of 1