



TOWN OF KITTELY

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Planning Board Meeting January 25, 2024

ITEM 3 – 77 Bartlett Road – Conservation Subdivision Plan – Final Review

Action: Approve plan or continue review. Michael Tadema-Wielandt, on behalf of owner/applicant Geoff Bowley, is proposing to divide a 19.11-acre parcel into a conservation subdivision of 9 single-family residential building lots, a private street system, and an open space plot around identified wetlands, vernal pools, and a pre-existing cemetery. The proposed subdivision is located on the property of 77 Bartlett Road, Map 62 Lot 26, in the Residential-Rural (R-RL) and Resource Protection Overlay (OZ-RP) Zones.

PROCESS SUMMARY

| REQ'D | ACTION | COMMENTS | STATUS |
|-------|--|---|----------|
| YES | Sketch Plan Acceptance/Approval | 5/11/23 | Accepted |
| YES | Planning board determination of completeness | 8/24/23 | Accepted |
| NO | Site Visit | 8/21/23 | Held |
| YES | Public Hearing | Scheduled for 9/28/23 Continued to 10/26/23 Rescheduled to 11/16/23 | Held |
| YES | Preliminary Plan Approval | 11/16/23 | Approved |
| YES | Final Plan Review and Decision | Scheduled for 1/25/24 | Pending |

Applicant: Prior to the signing of the approved Plan any **Conditions of Approval related to the Findings of Fact along with waivers and variances (by the BOA) must be placed on the Final Plan and, when applicable, recorded at the York County Registry of Deeds. PLACE THE MAP AND LOT NUMBER IN 1/4" HIGH LETTERS AT LOWER RIGHT BORDER OF ALL PLAN SHEETS.** As per Section 16.4.4.L - Grading/Construction Final Plan Required. - Grading or construction of roads, grading of land or lots, or construction of buildings is prohibited until the original copy of the approved final plan endorsed has been duly recorded in the York County registry of deeds when applicable.

PROJECT INTRODUCTION

This is the final review for a proposed 9-lot conservation subdivision located at 77 Bartlett Road in the R-RL (Residential-Rural) zoning district and partially within the OZ-RP Resource Protection Overlay Zone. The lots are proposed to be accessed from

22 Bartlett Road through a private street system ending in one cul-de-sac, designed to
23 meet the standards of a Class II private street with a 3-foot widened shoulder and a
24 painted strip on the west side for pedestrian movement. Nine proposed lots will all be
25 accessed from the new road. Lot sizes range from approximately 21,000 square feet to
26 34,000 square feet. The property currently contains a single residential dwelling; the
27 structure will remain on the lot after renovations, and the driveway currently providing
28 access to Bartlett Road will be removed.

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30 A private cemetery, located between proposed lots 1 and 2, will be maintained as open
31 space with public access provided. Public water and sewage are unavailable to the
32 property; the developer proposes installing private septic systems and wells for each
33 individual lot. The site contains wetland areas around the proposed subdivision,
34 including two vernal pools (that have not been deemed of significant size by the state)
35 located east of the proposed development, and an area containing a wetland of
36 special significance as well as a floodplain abutting the proposed subdivision to the
37 southwest.

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39 The planning board first reviewed this application on August 24th, where they
40 accepted the application as complete, scheduled a site walk for September 21st, and
41 scheduled a public hearing during the September 28th planning board meeting.
42 After plan acceptance, a third-party engineer review of the drainage analysis
43 identified several concerns and deemed the stormwater management report would
44 have to be resubmitted, noting that additional stormwater treatment would likely be
45 required. During the planning board's second review on September 28th, the
46 planning board moved to continue the public hearing to the meeting of October
47 26th. Prior to the second hearing, the applicant submitted a revised site plan and
48 stormwater management report incorporating the peer review engineer's feedback.

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50 The peer review of the second stormwater management report found significant
51 issues requiring a third submission. In response to this, the applicant requested the
52 planning board move the hearing to November 16th to allow them enough time to
53 revise their application. The third stormwater management report was found to be
54 sufficient, and after holding a public hearing on 11/16/23, the planning board
55 approved the preliminary application on the same meeting.

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57 The final plan addressed concerns from the public hearing by indicating the
58 driveway to be removed will be revegetated to avoid the spread of invasive species.
59 Additionally, the plan vegetated the swales leading towards the wetland of special
60 significance. Peer review from CMA engineers found no issues in the site plan design
61 or drainage analysis.

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63 **Staff suggest final approval at this time. The planning board should vote on the**
64 **requested waivers before entertaining approval.**

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67 **WAIVERS REQUESTED**

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1. Sidewalk modification request: Sidewalks are required for all Class II private streets. The applicant is proposing a modification to allow a 3-foot wide paved pedestrian travel way along one side of the road instead.

STAFF COMMENTS

1. Following feedback from the public hearing, the applicant has extended the vegetated buffer between Lot 9 and Bartlett Road.
2. There were multiple comments during the public hearing about a water body within the wetlands of special significance referred to as “Ken’s Pond.” The setback area between Lots 7-9 and the abutting wetland is now designated a forested stormwater buffer area, and the applicant has stated they are providing further treatment to any runoff from the proposed right-of-way to reduce impact.
3. Following feedback at the public hearing, the planning board requested revised calculations to determine whether the proposal meets the 1-acre threshold of disturbed soil to require a permit from Maine DEP. Because they were so close to the 1-acre threshold, the applicant has since submitted the required permit to DEP.
4. Following additional feedback from the public hearing, the applicant plans to loam and seed all drainage ditches leading to the wetland of special significance and water body known as “Ken’s Pond,” and provide double silt fence erosion control during construction.
5. Following feedback from the public hearing, the applicant now shows plans to revegetate the existing driveway when removed.
6. Because the conservation subdivision ordinance strongly recommends all buildings within the subdivision be designed for maximum energy efficiency per **§16.10.6.A.(4)**, it is suggested that buildings be designed as south-facing whenever possible in this subdivision.
7. The planning board requested the Homeowner’s association documents also notate wetland “no-cut no disturb buffers.” This has been added on page 9 of the draft HOA documents provided.
8. Snow will be stored in the center of the cul-de-sac.
9. To ensure the creation of the private road meets all drainage standards, public works will likely require a driveway entrance or road opening permit as part of the development process. This would happen after planning board approval.

PROJECT ANALYSIS

| Code Ref. | §16.4 Land Use Zone Standards | |
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| | Standard | Determination |

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| §16.4.10.B | Permitted/Special Exception Uses | The proposed subdivision is a permitted use |
| §16.4.10.E.(2).(a). | Minimum area per dwelling: 40,000 sq ft. | It appears the standard is satisfied. |
| §16.4.10.E.(2).(b). | Lot size: 40,000 sq ft minimum | Not all lots meet this standard. Requirements need not be met in a conservation subdivision |
| §16.4.10.E.(2).(c). | Street frontage: 150 ft minimum | Not all lots meet this standard. Requirements may be modified in a conservation subdivision. |
| §16.4.10.E.(2).(d). | Front setback: 40 ft minimum | Not all lots meet this standard. Requirements may be modified in a conservation subdivision. |
| §16.4.10.E.(2).(e). | Building coverage: 15% maximum | Not all lots meet this standard. Requirements may be modified in a conservation subdivision. |
| §16.4.10.E.(2).(f). | Rear and side setbacks: 20 ft minimum. | Not all lots meet this standard. Requirements may be modified in a conservation subdivision. |
| §16.4.10.E.(2).(g). | Building height: 35 ft maximum | It appears the standard is satisfied. |
| §16.4.10.E.(2).(i). | Minimum water-body setbacks: up to 100 feet from high-water line of identified wetlands | The standard appears to be satisfied for all proposed building envelopes. The applicant has provided a design for the proposed septic systems, which will be reviewed by Code Enforcement if the |

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| | | subdivision plan is approved. |
| Code Ref. | §16.5 Performance Standards | |
| | Standard | Determination |
| §16.5.4 | Affordable housing requirements | Not applicable, as the subdivision has less than 10 lots. |
| §16.5.9 | Conservation of vernal pools | Identified vernal pools were not deemed significant. Standard setback applies determined by size. |
| §16.5.10 | Essential services | Test pits and well locations have been notated. Underground utilities are proposed. Standards appear to be met |
| §16.5.11 | Floodplain Management | The proposed development is outside of the indicated floodplain. Standards appear to be met. |
| §16.5.14.B | Lots | The flag-shaped lot proposed in the sketch review has been removed. Lot standards appear to be met, save for issues noted in the table above. |
| §16.5.18. | Net residential acreage | The standard appears to be satisfied. |
| §16.5.27 | Street Standards | The proposed road appears to meet the standards of a class II private street. The proposed "pedestrian way" is a modification to sidewalk |

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| | | requirements and will require planning board approval. |
| §16.5.30 | All wetlands of 501 sq ft. or greater trigger setbacks for certain uses | Delineation was submitted, and wetlands of special significance have been identified. Standards appear to be met, save for the missing setback mentioned above. |
| Code Ref. | §16.10 Additional Requirements for Conservation Subdivision | |
| | Standard | Determination |
| §16.10.4.B | Indicate any proposed public open space and Town Council approval | Standard is not required. Public access is not proposed by applicant, and the cemetery on the property would not be considered a public park. |
| §16.10.5.C | Proposed private and water systems must show: <ul style="list-style-type: none"> adequate groundwater is available. Proposed groundwater sources are safe from on-site and off-site contamination. Proposed individual septic systems will not endanger drinking water supply. The costs of a community water or wastewater system is prohibitively expensive | Standards appear to be met. |
| §16.10.5.D | Designated open space to be permanently preserved | Appears to meet minimum open space standards. Proposed configuration requires planning board approval |

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| §16.10.5.E | Minimum lot size with private water/wastewater: 20,000 sq ft | The standard appears to be met |
| §16.10.5.F | No individual lot may have direct vehicular access onto a public road | All proposed lots will access the proposed private way. The driveway of the existing dwelling currently connecting to Bartlett Road will be removed. Standard appears to be met. |
| §16.10.5.G | All areas designated as Resource Protection must be protected as open space | The standard appears to be met. |
| §16.10.5.I | Wetlands designated as open space to have a “no-cut, no disturb” buffer | This is indicated on Note 23 of the site plan. Additionally, Note 22 indicates boundary markers will be placed in 50 feet intervals along all setback boundaries. |
| §16.10.5.J | All utilities must be installed underground | The standard appears to be met. |
| §16.10.5.K | All subsurface wastewater disposal areas to be indicated on plan | The standard appears to be met |
| §16.10.6.F | Vegetated buffer located on front lot line, a minimum width of 40 feet | The standard appears to be met. |
| §16.10.6.H | Low-impact design must be incorporated into the plan whenever possible | The stormwater drainage plan proposes a forested stormwater |

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| | | <p>buffer around lots 4, 5, 7, and 9.</p> <p>The standard appears to be met.</p> |
| §16.10.7.A | <p>Open space minimum: 60% of lot, with 40% of that consisting of net residential acreage.</p> <p>Example: in a parcel of 1,000,000 sq ft, 600,000 sq ft (60%) must be open space. Of that 600,000 sq ft, 240,000 (40% of open space, or 24% of total lot) must be included in the net residential acreage calculations.</p> | <p>The proposed development exceeds the minimum requirements of both open space and the net residential land requirements.</p> <p>The standard appears to be satisfied.</p> <p>The plan set appears to show a typo in the open space calculations. The applicant has submitted a revised plan set correcting this typo.</p> |
| §16.10.7.B | All wetlands, water bodies, and floodplains must be located within open space boundaries | This standard appears to be met. |
| §16.10.7.C | Significant natural resources or wildlife habitat areas must be designated as open space | This standard appears to be met. |
| §16.10.7.D | Open space must include any notable features | This standard appears to be met. |
| §16.10.7.E | All historic, cultural, or archaeological resources must be included as open space | The Payne Cemetery is designated as open space. The standard appears to be met. |
| §16.10.7.F | Open space areas must be made contiguous to the greatest extent possible | Staff believe this standard has been met, but open space configuration is up to |

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| | | the decision of the planning board. |
| §16.10.7.G | Open space may not be mowed unless part of a public park/trail | This standard will be met with the addition of the above mentioned "no cut" buffers. |
| §16.10.10 | The homeowner's association will be held responsible for: <ul style="list-style-type: none"> • Maintenance of open space • Maintenance public facilities such as road and stormwater systems • An initial capital fund required to cover expenses • Maintenance and replacement of plantings, including additional plantings required by the planning board | The plan indicates the subdivision will be maintained by a Homeowner's Association |
| §16.10.11 | Prior to the beginning of any site work, the applicant must: <ul style="list-style-type: none"> • Define the limits of any proposed clearings. • File all required performance guarantees and inspection escrows in forms acceptable to the Town Manager | Not applicable until after final approval. |
| Code Ref. | §16.8.9.C Preliminary Subdivision Plan Requirements | |
| | Standard | Determination |
| §16.8.9.C.(5).(a-i). | <ul style="list-style-type: none"> * Paper plan sheets no smaller than 11" x 17" * Scale of drawing no greater than 1 inch = 30 feet * Code block in right-hand corner * Standard boundary survey of existing conditions * Compass with arrow pointing true north * Locus map of property * Vicinity map and aerial photograph * Surveyed acreage of parcel(s), rights-of-way, wetlands, and amount of street frontage | Provided |

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| | * Names and addresses of owners of record abutting property | |
| §16.8.9.C.(5).(j). | Existing conditions survey including all identified structures, natural resources, rights-of-way, and utilities located on and within 100 feet of the property | Provided |
| §16.8.9.C.(5).(k). | Proposed development area including: * Location and detail of proposed structures and signs * Proposed utilities including power, water, and sewer * Sewage facilities type and placement * Domestic water source * Lot lines, rights-of-way, and street alignments * Road and other paved area plans * Existing and proposed setbacks * Storage areas for waste or hazardous materials * Topographic contours of existing contours and finished grade elevations * Locations and dimensions of artificial features such as pedestrian ways, sidewalks, curb cuts, driveways, fences, retaining walls, | Provided |
| §16.8.9.C.(6).(a). | Documents showing legal interest in the property | Provided |
| §16.8.9.C.(6).(b). | Identified property encumbrances | Provided |
| §16.8.9.C.(6).(c). | Kittery Water District approval letter | Private water proposed: hydrogeologist letter has been provided. |

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| §16.8.9.C.(6).(d). | Erosion and sedimentation control plan | Provided |
| §16.8.9.C.(6).(e). | Stormwater management plan and drainage analysis | Provided |
| §16.8.9.C.(6).(f). | Soil survey | Provided |
| §16.8.9.C.(6).(g). | Vehicular traffic report | Provided |
| §16.8.9.C.(6).(h). | Traffic impact analysis | Not deemed applicable due to low traffic volume |
| §16.8.9.C.(6).(i). | Test pit analysis for proposed septic systems | Provided |
| §16.8.9.C.(6).(j). | Town sewage department confirmation | Not applicable. |
| §16.8.10.C.(6).(k). | Evaluation of development by Police, Fire, and Public Works department heads | Provided |
| §16.8.10.C.(6).(l). | Additional submissions as required | None proposed at this time |
| §16.8.10.D.(2).(a-f). | <p>Additional final plan requirements including:</p> <ul style="list-style-type: none"> • Proposed streets, pedestrian ways, lots, easements, and areas dedicated to public use • Location of any markers or permanent monuments • Location and description of all structures, including signs. • Floor plans and elevations of principal structures • Building materials and colors • Fences, retaining walls, and other artificial features • Stormwater management plan and drainage | Provided |
| §16.8.10.D.(2).(g). | <p>Outdoor lighting and signage plan showing:</p> <ul style="list-style-type: none"> • All buildings, parking areas, driveways, services areas, | No lighting is proposed. Not applicable |

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| | <p>proposed exteriors and snow storage areas</p> <ul style="list-style-type: none"> • All proposed lighting fixture specifications • Photometric data, including cutoff fixtures and color rendering index • Mounting height of all external lights • Lighting analysis of proposed installation to show minimum, maximum, and average luminance | |
| §16.8.10.D.(2).(h). | Locations of machinery in permanently installed locations likely to cause noise along lot lines | Not applicable. |
| §16.8.10.D.(2).(i). | Storage areas for materials (raw, finished, or waste), and list of any types of toxic/hazardous materials stored on-site. | Not applicable. |
| §16.8.10.D.(2).(j). | Location of fences, retaining walls, and other artificial features | Provided. Mailboxes and stop sign are shown on the plan. |
| §16.8.10.D.(2).(k). | Landscaping plan including location, size, and type of plan material | Provided |
| §16.7.10.D.(2).(l). | Location of snow storage areas | Provided |
| §16.7.10.D.(2).(m). | Draft homeowners association documents showing who will maintain stormwater systems. | Provided. |

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DISCUSSION, NEXT STEPS, AND RECOMMENDATIONS

The purpose of final review is to allow the applicant to address any final outstanding issues that must be addressed before planning board approval can be granted. There are no outstanding issues at this time from either planning staff or the review engineer. Staff believe the applicant has sufficiently addressed the concerns raised

120 during the public comment portion of development, and believe the application is
121 ready to receive final approval.

122 **RECOMMENDED MOTIONS**

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124 Below are recommended motions for the Board's use and consideration:

125 ***Motion to approve the application***

126 Move to approve the final subdivision plan by Michael Tadema-Wielandt, on behalf
127 of owner/applicant Geoff Bowley.

**Kittery Planning Board
Findings of Fact
77 Bartlett Road
Final Subdivision Review**

**DRAFT
M 62 L 26**

Note: This approval by the Planning Board constitutes an agreement between the Town and the Developer incorporating the Development plan and supporting documentation, the Findings of Fact, and all waivers and/or conditions approved and required by the Planning Board.

WHEREAS: Michael Tadema-Wielandt, on behalf of owner/applicant Geoff Bowley, is proposing to divide a 19.11-acre parcel into a conservation subdivision of 9 single-family residential building lots on the property of 77 Bartlett Road, Map 62 Lot 26, in the Residential-Rural (R-RL) and Resource Protection Overlay (OZ-RP) Zones.

Pursuant to the Plan Review meetings conducted by the Planning Board as noted in the Plan Review Notes dated 1/11/24

| REQ'D | ACTION | COMMENTS | STATUS |
|-------|---|---------------------|----------|
| YES | Sketch plan acceptance | 5/11/23 | Accepted |
| YES | Preliminary determination of completeness | 8/24/23 | Accepted |
| NO | Site Visit | 8/21/23 | Held |
| YES | Public hearing | 10/26/23 – 11/16/23 | Held |
| YES | Preliminary plan approval | 11/16/23 | Approved |
| YES | Final plan approval | 1/15/24 | Approved |

Pursuant to the application and plan and other documents considered to be a part of a plan review decision by the Planning Board in this Finding of Fact consisting of the following (hereinafter the “Plan”):

1. Final Conservation Subdivision Plan Modification received 12/28/23 from Terradyn Consultants
2. Stormwater Management report received 12/28/23 from Terradyn Consultants.

NOW THEREFORE, based on the entire record before the Planning Board and pursuant to the applicable standards in the Land Use and Development Code, the Planning Board makes the following factual findings and conclusions:

Chapter 16.8 SUBDIVISION REVIEW

16.8.9.D.(4).(b). Findings of Fact

Action by the Board shall be based upon findings of fact which certify or waive compliance with all the required standards of this title, and which certify that the development satisfies the following requirements:

[1] Development Conforms to Local Ordinances.

Standard: *The proposed development conforms to a duly adopted Comprehensive Plan as per adopted provisions in the Town Code, zoning ordinance, subdivision regulation or ordinance, development plan or land use plan, if any. In making this determination, the municipal reviewing authority may interpret these ordinances and plans.*

Finding: The proposed modification conforms to Title 16 and all dimensional standards in the applicable zone and overlay zones.

Conclusion: This standard appears to be met.

Vote of _ in favor _ against _ abstaining

[2] Freshwater Wetlands Identified

Standard: *All freshwater wetlands within the project area have been identified on any maps submitted as part of the application, regardless of the size of these wetlands.*

Finding: All wetlands and wetlands of special significance are notated on the plan.

Conclusion: This standard appears to be met.

Vote of _ in favor _ against _ abstaining

[3] River, Stream, or Brook Identified.

Standard: *Any river, stream or brook within or abutting the proposed project area has been identified on any maps submitted as part of the application. For purposes of this section, "river, stream or brook" has the same meaning as in 38 M.R.S.A. § 480-B, Subsection 9.*

Finding: All water bodies and vernal pools are notated on the plan set.

Conclusion: This standard appears to be met.

Vote of _ in favor _ against _ abstaining

[4] Water Supply Sufficient.

Standard: *The proposed development has sufficient water available for the needs of the development.*

Finding: The proposed plan has confirmation that the groundwater aquifers have adequate recharge capacity for the anticipated water usage.

Conclusion: This standard appears to be met.

Vote of _ in favor _ against _ abstaining

[5] Municipal Water Supply Available.

Standard: *The proposed development will:*

The proposed development will not cause an unreasonable burden on an existing water supply, if one is to be used.

Finding: The plan proposes private wells and will not utilize Town water utilities.

Conclusion: This standard does not appear applicable.

Vote of _ in favor _ against _ abstaining

[6] Sewage Disposal Adequate.

Standard: *The proposed development will provide for adequate sewage waste disposal and will not cause an unreasonable burden on municipal services, if they are utilized.*

Finding: The plan shows proposed test pit locations and septic design. Subsurface wastewater disposal applications will be reviewed by Code Enforcement after plan approval.

Conclusion: This standard appears to be met.

Vote of _ in favor _ against _ abstaining

[7] Municipal solid waste disposal available.

Standard: *The proposed development will not cause an unreasonable burden on the municipality's ability to dispose of solid waste, if municipal services are to be used.*

Finding: The proposed plan will not create unreasonable burden to solid waste services.

Conclusion: This standard appears to be met.

Vote of _ in favor _ against _ abstaining

[8] Water body quality and shoreline protected.

Standard: *Whenever situated entirely or partially within 250 feet of any wetland, the proposed development will not adversely affect the quality of that body of water or unreasonably affect the shoreline of that body of water..*

Finding: The proposed plan shows proposed development is outside of any relevant water body setbacks.

Conclusion: This standard appears to be met.

Vote of _ in favor _ against _ abstaining

[9] Groundwater protected.

Standard: *The proposed development will not, alone or in conjunction with existing activities, adversely affect the quality or quantity of groundwater.*

Finding: It appears the proposed modification will not cause any unreasonable adverse effects of the quantity or quality of groundwater.

Conclusion: This standard appears to be met.

Vote of _ in favor _ against _ abstaining

[10] Flood areas identified and development conditioned.

Standard: All flood-prone areas within the project area have been identified on maps submitted as part of the application, based on the Federal Emergency Management Agency's Flood Boundary and Floodway Maps and Flood Insurance Rate Maps and information presented by the applicant. If the proposed development, or any part of it, is in such an area, the applicant must determine the 100-year flood elevation and flood hazard boundaries within the project area. The proposed plan must include a condition of plan approval requiring that principal structures in the development will be constructed with their lowest floor, including the basement, at least one foot above the 100-year flood elevation.

Finding: All flood hazard areas are identified. Development will meet the requirements of the Town floodplain management regulations.

Conclusion: This standard appears to be met.

Vote of __ in favor __ against __ abstaining

[11] Stormwater Managed.

Standard: The proposed development will provide for adequate stormwater management.

Finding: The proposed plan has submitted a stormwater management plan that has been deemed sufficient by a peer review engineer.

Conclusion: This standard appears to be met.

Vote of __ in favor __ against __ abstaining

[12] Erosion Controlled.

Standard: The proposed development will not cause unreasonable soil erosion or a reduction in the land's capacity to hold water so that a dangerous or unhealthy condition results.

Finding: The proposed modification will meet all requirements for erosion control set by Town and state guidelines. The plan proposes double-silt fences around sensitive natural resources during development.

Conclusion: This standard appears to be met.

Vote of __ in favor __ against __ abstaining

[13] Traffic Managed.

Standard: The proposed development will:

[a] Not cause unreasonable highway or public road congestion or unsafe conditions with respect to the use of the highways or public roads existing or proposed; and

[b] Provide adequate traffic circulation, both on-site and off-site.

Finding: The proposed development is not anticipated to create congestion or undue burden along Bartlett Road.

Conclusion: This standard appears to be met..

Vote of __ in favor __ against __ abstaining

[14] Water and Air Pollution Minimized.

Standard: *The proposed development will not result in undue water or air pollution. In making this determination, the following must be considered:*

- [a]** *Elevation of the land above sea level and its relation to the floodplains;*
- [b]** *Nature of soils and subsoils and their ability to adequately support waste disposal;*
- [c]** *Slope of the land and its effect on effluents;*
- [d]** *Availability of streams for disposal of effluents;*
- [e]** *Applicable state and local health and water resource rules and regulations; and*
- [f]** *Safe transportation, disposal and storage of hazardous materials.*

Finding: The proposed modification utilizes low-impact development and green infrastructure to prevent the risk of pollution to the adjacent water bodies.

Conclusion: This standard does not appear applicable.

Vote of _ in favor _ against _ abstaining

[15] Aesthetic, cultural and natural values protected.

Standard: *The proposed development will not have an undue adverse effect on the scenic or natural beauty of the area, aesthetics, historic sites, significant wildlife habitat identified by the Department of Inland Fisheries and Wildlife or the municipality, or rare and irreplaceable natural areas, or any public rights for physical or visual access to the shoreline.*

Finding: It appears that the proposed development is designed in a manner that respects the natural capabilities of the lot.

Conclusion: This standard appears to be met.

Vote of _ in favor _ against _ abstaining

[16] Developer financially and technically capable.

Standard: *Developer is financially and technically capable to meet the standards of this section.*

Finding: The proposed modification will provide a cost estimate and letter of credit before issuance of a building or demolition permit.

Conclusion: This standard appears to be met.

Vote of _ in favor _ against _ abstaining

Based on the foregoing Findings, the Kittery Planning Board finds the applicant has satisfied each of the review standards for approval and, therefore, the Kittery Planning Board hereby grants final approval for the Development at the above referenced property, including any waivers granted or conditions as noted.

Waivers:

1. Waiver of a required sidewalk along the proposed street, to be replaced with a paved 3-foot pedestrian way on one side of the right-of-way.

Conditions of Approval (to be included as notes on the final plan):

1. Without prior approval, no changes, erasures, modifications or revisions may be made to any Planning Board approved final plan.

2. Applicant/contractor will follow Maine DEP Best Management Practices for all work associated with site and building construction to ensure adequate erosion control and slope stabilization.

3. Prior to the commencement of grading and/or construction within a building envelope, as shown on the Plan, the owner and/or developer must stake all corners of the envelope. These markers must remain in place until the Code Enforcement Officer determines construction is completed and there is no danger of damage to areas that are, per Planning Board approval, to remain undisturbed.

4. All Notices to Applicant contained in the Findings of Fact (dated: 1/25/24).

Conditions of Approval (Not to be included as notes on the final plan):

1. Incorporate any plan revisions on the site plan as recommended by Staff, Planning Board, or Peer Review Engineer, and submit for Staff review prior to endorsement and recording of the plan.

Notices to Applicant:

1. Prior to the release of the signed plans, the applicant must pay all outstanding fees associated with review, including, but not limited to, Town Attorney fees, peer review, newspaper advertisements and abutter notification.
2. State law requires all subdivision and shoreland development plans, and any plans receiving waivers or variances, be recorded at the York County Registry of Deeds within 90 days of the final approval.
3. Three (3) paper copies of the final recorded plan and any and all related state/federal permits or legal documents that may be required, must be submitted to the Town Planning Department. Date of Planning Board approval shall be included on the final plan in the Signature Block.
4. This approval by the Town Planning Board constitutes an agreement between the Town and the Developer, incorporating the Plan and supporting documentation, the Findings of Fact, and any Conditions of Approval.

The Planning Board authorizes the Planning Board Chair, or Vice Chair, to sign the Final Plan and the Findings of Fact upon confirmation of compliance with any conditions of approval.

Vote of __ in favor __ against __ abstaining

APPROVED BY THE KITTERY PLANNING BOARD ON 1/25/24

Dutch Dunkelberger, Planning Board Chair

Per Title 16.2.12.B(1) - An aggrieved party with legal standing may appeal a final decision of the Planning Board to the York County Superior Court in accordance with Maine Rules of Civil Procedures Section 80B, within forty-five (45) days from the date the decision by the Planning Board was rendered.

APPLICANT/OWNER:
 BEACHWOOD DEVELOPMENT FUND LP
 P.O. BOX 261
 KENNEBUNK, MAINE 04043

PROJECT PARCEL SITE
 TOWN OF KITTEERY TAX ASSESSOR'S MAP,
 LOT NUMBERS & ZONING DISTRICTS

| | | |
|-----------|-----------|---------------------------------------|
| MAP 62 | LOT 26 | ZONING DISTRICTS RESIDENTIAL-RURAL |
|-----------|-----------|---------------------------------------|

SUBDIVISION PLANS

WASHBURN FARM SUBDIVISION

BARTLETT ROAD - KITTEERY, MAINE



LOCATION MAP
 SCALE: 1"=500'

UTILITIES

SEWER
 PRIVATE ONSITE SUBSURFACE
 WASTEWATER DISPOSAL

WATER
 PRIVATE ONSITE WELLS

ELECTRIC
 CENTRAL MAINE POWER CO.
 162 CANCO ROAD
 PORTLAND, ME 04103
 (207) 842-2367

TELEPHONE
 FAIRPOINT COMMUNICATIONS
 P.O. BOX 11560
 PORTLAND, MAINE 04104
 1-888-984-1515

CABLE
 CONSOLIDATED COMMUNICATIONS
 24 HERSEY STREET
 PORTLAND, MAINE 04103
 (844) 986-7224

DIG SAFE SYSTEM, INC.
 TEL. 1-888-DIG-SAFE (344-7233)
 FAX 1-781-721-0047
 WWW.DIGSAFE.COM

PERMITS

| TYPE OF PERMIT | GOVERNING BODY | STATUS |
|---------------------------|--|---|
| SUBDIVISION APPROVAL | TOWN OF KITTEERY, MAINE PLANNING BOARD 200 ROGERS ROAD KITTEERY, ME 03904 TEL. 207-439-0452 | PRELIMINARY APPROVAL NOVEMBER 16, 2023 |
| STORMWATER PERMIT-BY RULE | MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION 312 CANCO ROAD PORTLAND, ME 04103 TEL: 207-822-6300 | NOTIFICATION SUBMITTED DECEMBER 22, 2023 |

GENERAL NOTES

- THE PROJECT WILL BE SUBJECT TO THE TERMS AND CONDITIONS OF ALL PERMITS ISSUED BY THE TOWN OF KITTEERY, THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND THE LOCAL UTILITY COMPANIES.
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY THE TOWN OF KITTEERY OR THE LOCAL UTILITY COMPANIES SHALL BE COORDINATED BY THE CONTRACTOR.
- THE LOCATION AND/OR ELEVATIONS OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AND DIG SAFE AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBLE OF THE CONTRACTOR TO RELOCATE ANY EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIRED TO PREVENT EROSION AND SEDIMENTATION. ADDITIONAL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY THE OWNER, ENGINEER, OR REGULATING AGENCIES.
- ALL MATERIAL SCHEDULES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE HIS OWN MATERIAL SCHEDULES BASED UPON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE STRICTEST STANDARDS CONTAINED IN THE MAINE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, THE PROJECT SPECIFICATIONS, AND THE UTILITY COMPANY AND TOWN OF KITTEERY REQUIREMENTS.
- ALL DIMENSIONS, UNLESS OTHERWISE NOTED ARE TO THE EDGE OF PAVEMENT, FACE OF CURB, OR THE FACE OF THE BUILDING.
- ALL SIGNAGE SHALL BE SUPPLIED AND INSTALLED IN COMPLIANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

UTILITY NOTES

- THE PROJECT WILL BE SERVED BY INDIVIDUAL WELLS AND SUBSURFACE WASTEWATER DISPOSAL SYSTEMS.
- ALL STORM DRAIN PIPE SHALL BE SMOOTH BORE INTERIOR PROVIDING A MANNINGS ROUGHNESS COEFFICIENT OF n=0.012 OR LESS.

SHEET INDEX

| C-1.0 | COVER SHEET |
|-------|---|
| 1 | EXISTING CONDITIONS PLAN |
| C-2.0 | EXISTING CONDITIONS & CLEARING PLAN |
| C-3.0 | SUBDIVISION PLAN |
| C-3.1 | PLAN & PROFILE, UTILITY, & EROSION CONTROL PLAN |
| C-3.2 | EXISTING DRIVEWAY & EROSION CONTROL PLAN |
| C-4.0 | EROSION CONTROL NOTES & DETAILS |
| C-4.1 | SITE DETAILS |
| C-4.2 | DRAINAGE & UTILITY DETAILS |

PREPARED BY:

CIVIL ENGINEER:
 TERRADYN CONSULTANTS, LLC
 565 CONGRESS STREET, SUITE 201
 PORTLAND, MAINE 04101
 (207) 926-5111

SURVEYOR:
 TERRADYN CONSULTANTS, LLC
 79 MAIN STREET, SUITE 300
 AUBURN, MAINE 04210
 (207) 946-4480

SOIL SCIENTIST:
 LONGVIEW PARTNERS, LLC
 6 SECOND STREET
 BUXTON, MAINE 04093
 (207) 807-1739

GEOLOGIST:
 MARK CENCI GEOLOGIC, INC.
 93 MILL ROAD
 NORTH YARMOUTH, MAINE 04097
 (207) 329-3524

LEGEND

| | |
|-----|---|
| --- | EXISTING PROPERTY LINE |
| --- | PROJECT SITE BOUNDARY |
| --- | EXISTING SETBACK LINE |
| --- | PROPOSED EASEMENT |
| --- | EXISTING MINOR CONTOUR |
| --- | EXISTING MAJOR CONTOUR |
| --- | PROPOSED CONTOUR |
| --- | EXISTING STORMDRAIN |
| --- | PROPOSED STORMDRAIN |
| --- | EXISTING UNDERDRAIN |
| --- | PROPOSED UNDERDRAIN |
| --- | EXISTING OVERHEAD ELECTRIC & TELEPHONE |
| --- | PROPOSED OVERHEAD ELECTRIC & TELEPHONE |
| --- | EXISTING UNDERGROUND ELECTRIC & TELEPHONE |
| --- | PROPOSED UNDERGROUND ELECTRIC & TELEPHONE |
| --- | EXISTING EDGE OF PAVEMENT |
| --- | PROPOSED EDGE OF PAVEMENT |
| --- | EXISTING EDGE OF GRAVEL |
| --- | PROPOSED EDGE OF GRAVEL |
| --- | EXISTING CURB |
| --- | PROPOSED CURB |
| --- | PROPOSED FENCE |
| --- | SILT FENCE |
| --- | TEST PIT |
| --- | EXISTING VALVE |
| --- | PROPOSED VALVE |
| --- | EXISTING HYDRANT |
| --- | EXISTING LIGHT POLE |
| --- | PROPOSED LIGHT POLE |
| --- | EXISTING UTILITY POLE |
| --- | EXISTING CATCH BASIN |
| --- | PROPOSED CATCH BASIN |
| --- | EXISTING DRAIN MANHOLE |
| --- | PROPOSED DRAIN MANHOLE |
| --- | EXISTING SEWER MANHOLE |
| --- | PROPOSED SEWER MANHOLE |
| --- | EXISTING SPOT GRADE |
| --- | PROPOSED SPOT GRADE |
| --- | SURVEY CONTROL POINT |
| --- | EXISTING MONUMENT |
| --- | EXISTING IRON PIPE |
| --- | EXISTING SIGN |
| --- | PROPOSED SIGN |
| --- | EXISTING BUILDING |
| --- | PROPOSED BUILDING |
| --- | PROPOSED CONCRETE |
| --- | PROPOSED PAVEMENT |
| --- | PROPOSED BUFFER |

STATE OF MAINE
 MICHAEL E. TADEMA-WIELANDT
 LICENSED PROFESSIONAL ENGINEER

DATE: 12/28/2023
 P.E.: MICHAEL TADEMA-WIELANDT

| NO. | REVISIONS | DATE |
|-----|--|------------|
| 1 | APPROVED FOR PRELIMINARY SUBDIVISION REVIEW | 8/3/2023 |
| 2 | REVISSED BASED ON PEER REVIEW COMMENTS | 10/10/2023 |
| 3 | REVISSED BASED ON PEER REVIEW COMMENTS | 10/24/2023 |
| 4 | SUBMITTED TO KITTEERY FOR FINAL SUBDIVISION REVIEW | 12/28/2023 |

565 CONGRESS STREET
 SUITE 201
 PORTLAND, ME 04102

41 CAMPUS DRIVE
 SUITE 301
 NEW GLOUCESTER, ME 04260

OFFICE: (207) 926-5111 FAX: (207) 221-1317
 www.terradyndesign.com

TERRADYN CONSULTANTS, LLC

Civil Engineering | Land Planning | Stormwater Design | Environmental Permitting

PERMIT DRAWING
 NOT FOR CONSTRUCTION

PROJECT: WASHBURN FARM SUBDIVISION
 SHEET TITLE: COVER SHEET
 CLIENT: BEACHWOOD DEVELOPMENT FUND
 P.O. BOX 261
 KENNEBUNK, MAINE 04043

DATE: 5/18/2023
 SCALE: AS NOTED
 DESIGNED: MTW
 JOB NO.: 22-145
 SHEET: C-1.0

C:\ODI\terradyndesign\Projects\Folders - Documents\2022\Jobs\22-145\Bartlett Road Subdivision\CAD\Permitting\22-145-C.dwg

Plan References:

- A. "Right of Way Map" Maine State Highway Commission, State Aid Highway No. 10, S.H.C File No. S-16-340, Dated December 1970 and recorded in Plan Book 57, Page 7.
- B. "Plan Showing Land Surveyed for Barbara R Brown" by Rodger E Malmgren, drawn on January 17, 1980 and recorded in Plan Book 104, Page 8.
- C. "Division of Land, Bartlett Road" for Dewain L & Gloria Jean Wallace, by Anderson Associates, dated September 1985 and recorded in Plan Book 143, Page 3.
- D. "Plan of Lots, Bartlett Road" for Daniel O Lynch, by Anderson Associates, dated July 1985 and recorded in Plan Book 145, Page 8.
- E. "Plan of Revised Road Right Of Way for the Estate of Daniel O Lynch" by Anderson-Livingston, dated October 1991 and recorded in Plan Book 204, Page 10.
- F. "Subdivision of Land for Charles S Lynch" by Anderson Livingston Engineers, Inc., dated March 1992 and recorded in Plan Book 208, Page 49.
- G. "Standard Boundary Survey for Charles S Lynch" by Anderson Livingston Engineers, Inc., dated March 1999 and recorded in Plan Book 250, Page 39.

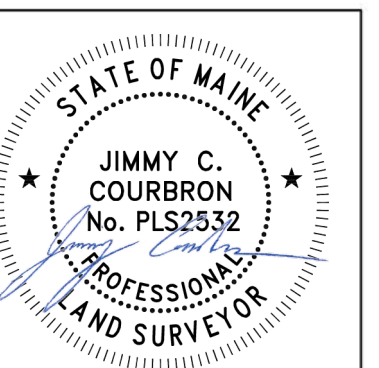
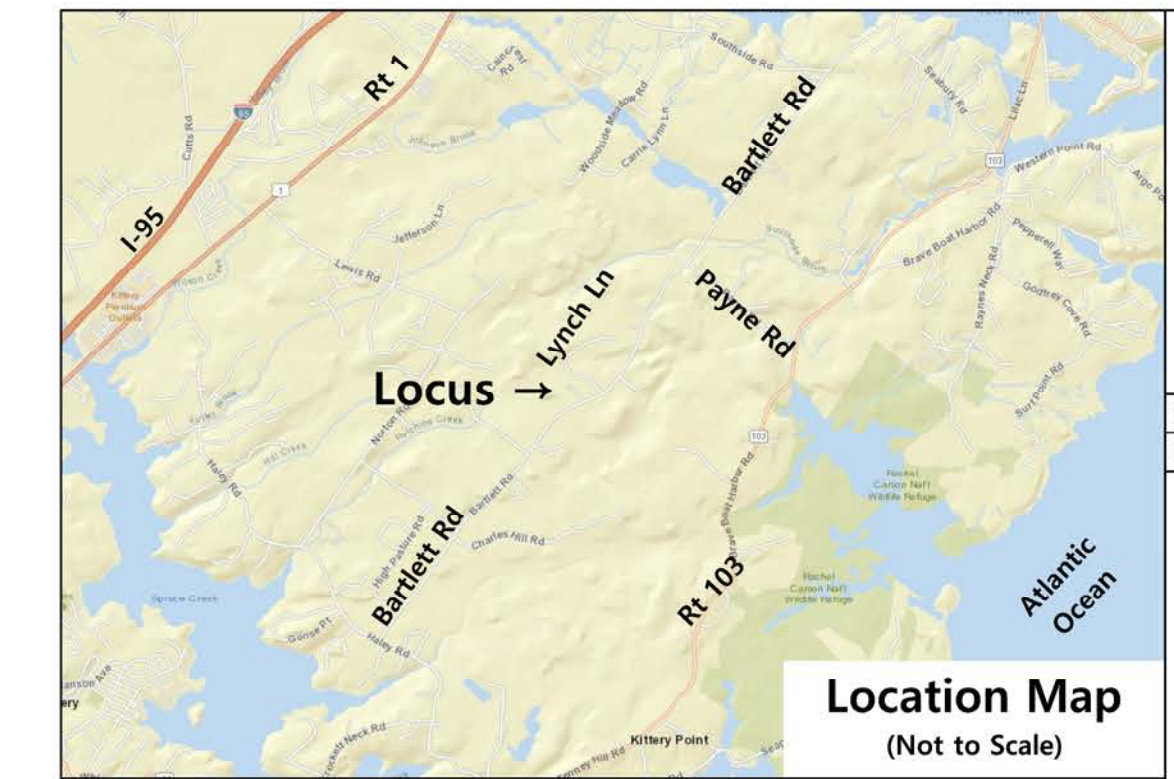
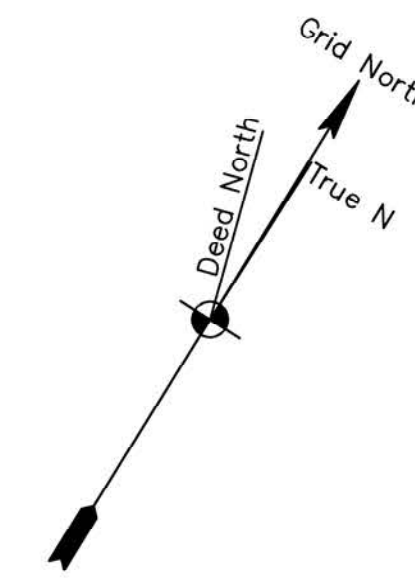
Surveyor's Certification

To the best of my knowledge, I have used ordinary and prudent conduct expected of Professional Land Surveyors and the results shown here represent the licensee's responsibility to the public as required under the Standards of Practice as defined by the Board of Licensure for Professional Land Surveyors (M.R.S.A Title 32, Chapter 141, Dated April 2001).

Except as Follows:

- 1. Survey Report Limited to Notes on the Plan
- 2. No Deed Description to Date
- 3. No Monuments Set

Plan Prepared by: *Jimmy C. Courbron* Oct. 13, 2022
Jimmy C. Courbron PLS # 2532

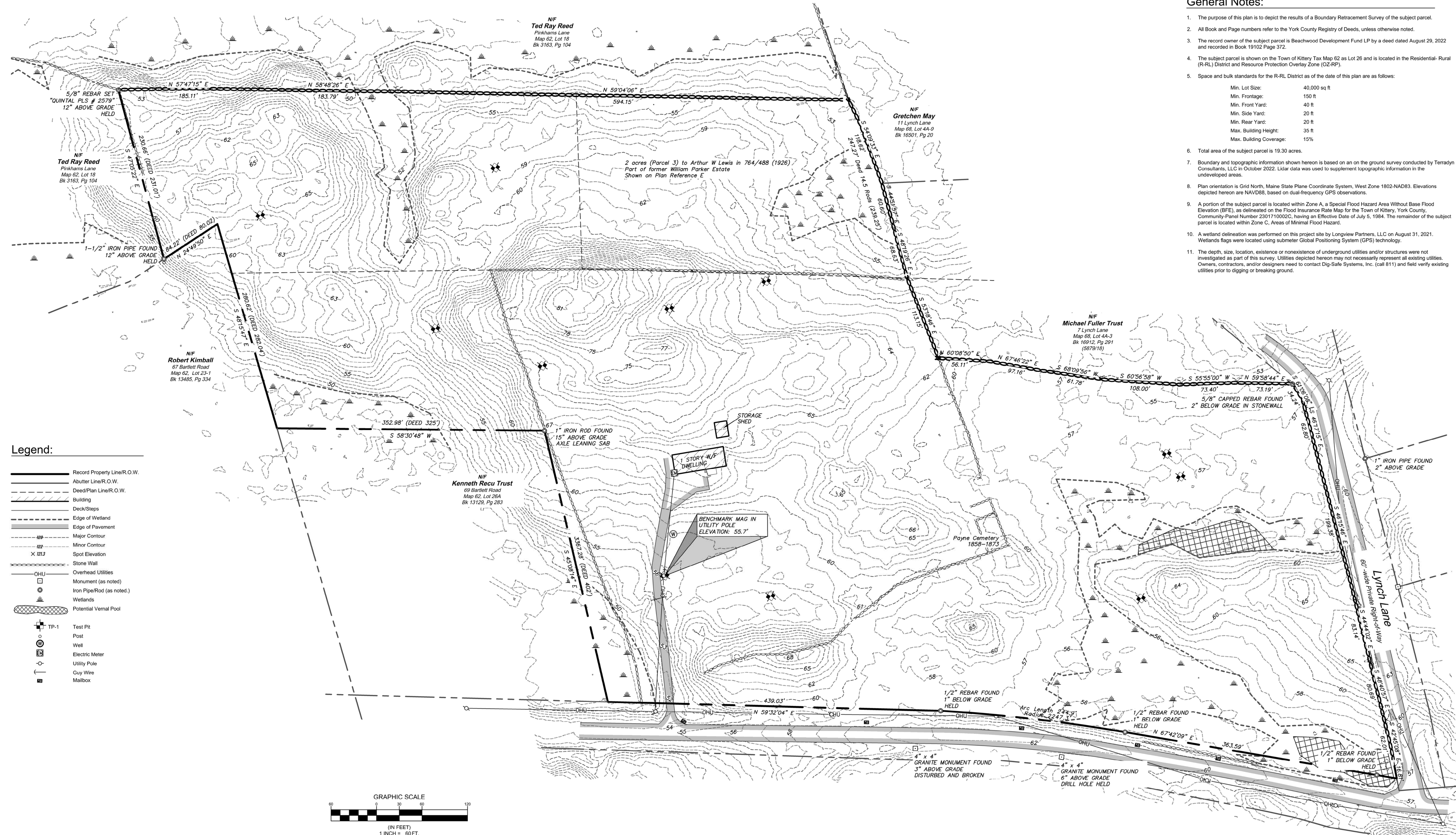


DATE: _____ DATE: _____
PLS: _____ PLS: _____

General Notes:

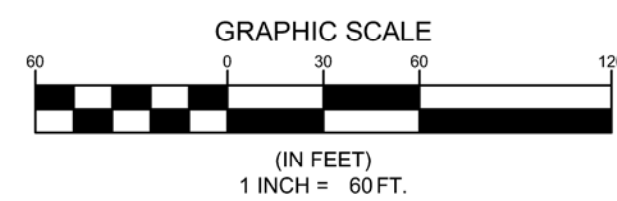
- The purpose of this plan is to depict the results of a Boundary Retracement Survey of the subject parcel.
- All Book and Page numbers refer to the York County Registry of Deeds, unless otherwise noted.
- The record owner of the subject parcel is Beachwood Development Fund LP by a deed dated August 29, 2022 and recorded in Book 19102 Page 372.
- The subject parcel is shown on the Town of Kittery Tax Map 62 as Lot 26 and is located in the Residential- Rural (R-RL) District and Resource Protection Overlay Zone (OZ-RP).
- Space and bulk standards for the R-RL District as of the date of this plan are as follows:

| | |
|-------------------------|--------------|
| Min. Lot Size: | 40,000 sq ft |
| Min. Frontage: | 150 ft |
| Min. Front Yard: | 40 ft |
| Min. Side Yard: | 20 ft |
| Min. Rear Yard: | 20 ft |
| Max. Building Height: | 35 ft |
| Max. Building Coverage: | 15% |
- Total area of the subject parcel is 19.30 acres.
- Boundary and topographic information shown hereon is based on an on the ground survey conducted by Terradyn Consultants, LLC in October 2022. Lidar data was used to supplement topographic information in the undeveloped areas.
- Plan orientation is Grid North, Maine State Plane Coordinate System, West Zone 1802-NAD83. Elevations depicted hereon are NAVD88, based on dual-frequency GPS observations.
- A portion of the subject parcel is located within Zone A, a Special Flood Hazard Area Without Base Flood Elevation (BFE), as delineated on the Flood Insurance Rate Map for the Town of Kittery, York County, Community-Panel Number 2301710002C, having an Effective Date of July 5, 1984. The remainder of the subject parcel is located within Zone C, Areas of Minimal Flood Hazard.
- A wetland delineation was performed on this project site by Longview Partners, LLC on August 31, 2021. Wetlands flags were located using submeter Global Positioning System (GPS) technology.
- The depth, size, location, existence or nonexistence of underground utilities and/or structures were not investigated as part of this survey. Utilities depicted hereon may not necessarily represent all existing utilities. Owners, contractors, and/or designers need to contact Dig-Safe Systems, Inc. (call 611) and field verify existing utilities prior to digging or breaking ground.



Legend:

- Record Property Line/R.O.W.
- Abutter Line/R.O.W.
- Deed/Plan Line/R.O.W.
- Building
- Deck/Steps
- Edge of Wetland
- Edge of Pavement
- Major Contour
- Minor Contour
- Spot Elevation
- Stone Wall
- Overhead Utilities
- Monument (as noted)
- Iron Pipe/Rod (as noted)
- Wetlands
- Potential Vernal Pool
- TP-1 Test Pit
- Post
- Well
- Electric Meter
- Utility Pole
- Cuy Wire
- Mailbox



ADDRESS: 41 CAMPUS DRIVE, SUITE 301
NEW GLOUCESTER, ME 04260
PHONE: (207) 926-5111
WEB SITE: www.terradyncorps.com

TERRADYN
CONSULTANTS, LLC
Civil Engineering | Land Surveying | Geomatics
Stormwater Design | Land Planning | Environmental Permitting

PERMIT DRAWING
NOT FOR CONSTRUCTION

PROJECT: BARTLETT ROAD SUBDIVISION
77 BARTLETT ROAD, KITTERY MAINE

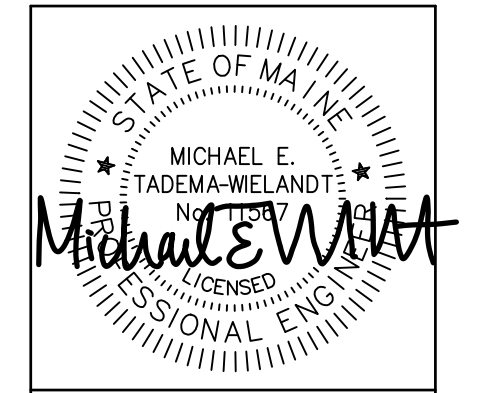
SHEET TITLE: EXISTING CONDITIONS PLAN

FOR RECORD OWNER: BEACHWOOD DEVELOPMENT FUND LP
PO BOX 260
KENNEBUNK, ME 04043

DATE: 10/13/2022
SCALE: 1" = 60'
JOB NO: 22-145
SHEET: 1 of 1



1. MINIMIZE IMPACT TO STONE WALLS. ALL REMOVED STONES TO REMAIN ON SITE.



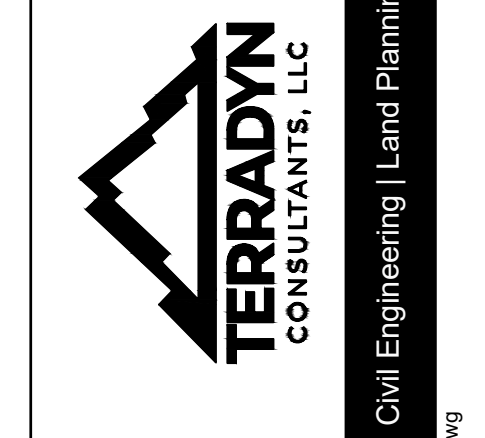
DATE: 12/28/2023
P.E.: MICHAEL TADEMA-WIELANDT

| NO. | DATE | REVISIONS |
|-----|------------|-----------|
| 1 | 8/3/2023 | MTW APPD |
| 2 | 10/10/2023 | MTW |
| 3 | 10/24/2023 | MTW |
| 4 | 12/28/2023 | MTW |

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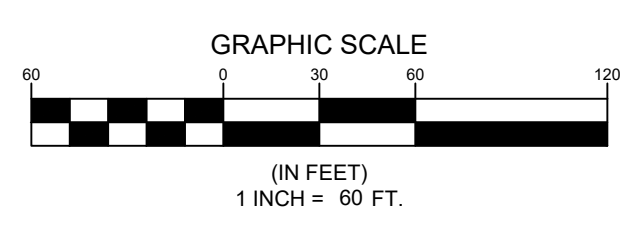
PERMIT DRAWING
NOT FOR CONSTRUCTION

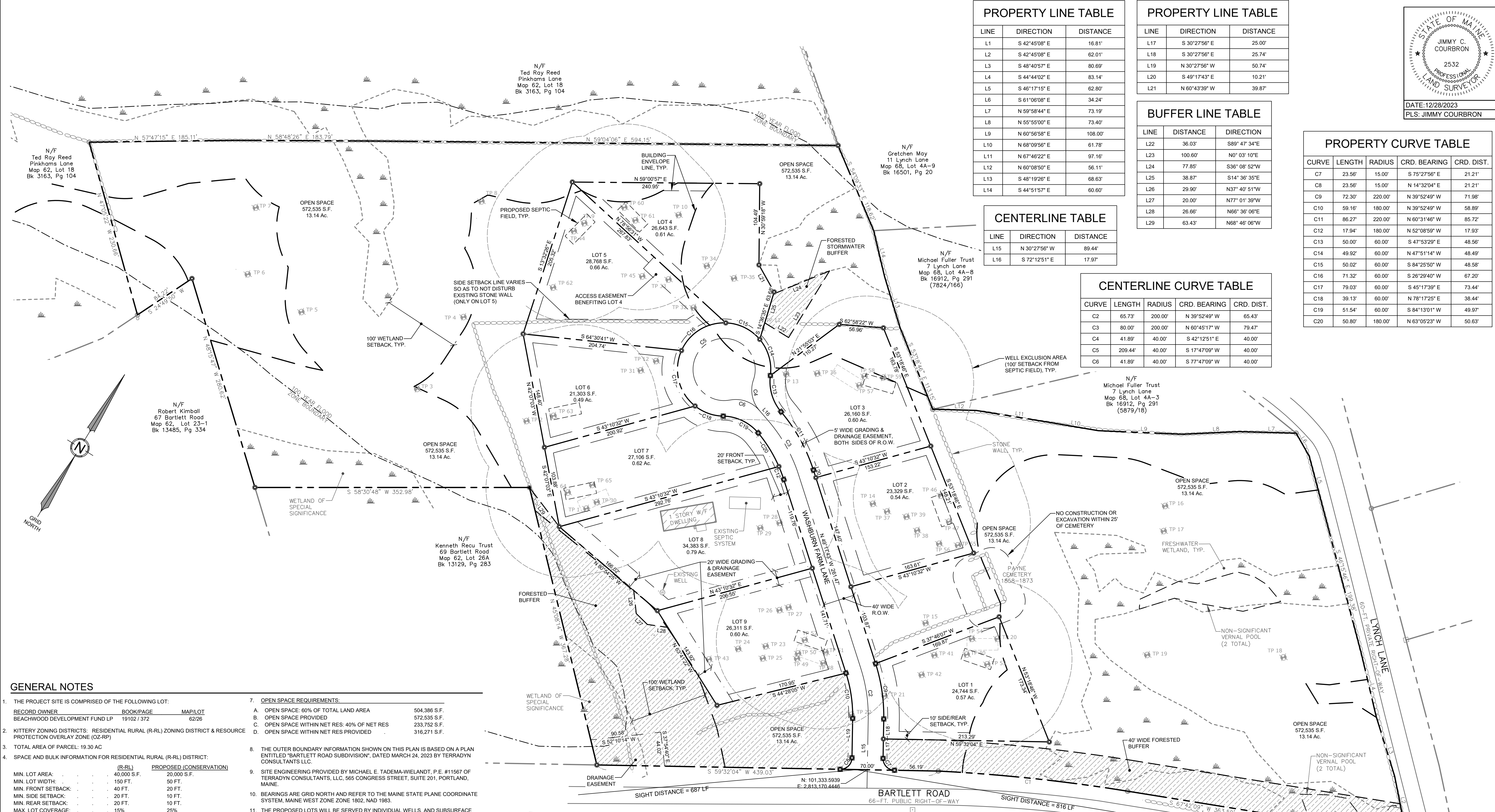
PROJECT: WASHBURN FARM SUBDIVISION
BARTLETT ROAD, KITTERY, MAINE

SHEET TITLE: EXISTING CONDITIONS & CLEARING PLAN

CLIENT: BEACHWOOD DEVELOPMENT FUND
P.O. BOX 281
KENNEBUNK, MAINE 04043

DATE: 5/18/2023
SCALE: 1" = 60'
DESIGNED: MTW
JOB NO.: 22-145
SHEET: C-2.0





PROPERTY LINE TABLE

| LINE | DIRECTION | DISTANCE |
|------|---------------|----------|
| L1 | S 42°45'08" E | 16.81' |
| L2 | S 42°45'08" E | 62.01' |
| L3 | S 48°40'57" E | 80.69' |
| L4 | S 44°44'02" E | 83.14' |
| L5 | S 46°17'15" E | 62.80' |
| L6 | S 61°06'08" E | 34.24' |
| L7 | N 59°58'44" E | 73.19' |
| L8 | N 55°55'00" E | 73.40' |
| L9 | N 60°56'58" E | 108.00' |
| L10 | N 68°09'56" E | 61.78' |
| L11 | N 67°46'22" E | 97.16' |
| L12 | N 60°08'50" E | 56.11' |
| L13 | S 48°19'26" E | 66.63' |
| L14 | S 44°51'57" E | 60.60' |

PROPERTY LINE TABLE

| LINE | DIRECTION | DISTANCE |
|------|---------------|----------|
| L17 | S 30°27'56" E | 25.00' |
| L18 | S 30°27'56" E | 25.74' |
| L19 | N 30°27'56" W | 50.74' |
| L20 | S 49°17'43" E | 10.21' |
| L21 | N 60°43'39" W | 39.87' |

BUFFER LINE TABLE

| LINE | DISTANCE | DIRECTION |
|------|----------|-------------|
| L22 | 36.03' | S89°47'34"E |
| L23 | 100.60' | N0°03'10"E |
| L24 | 77.85' | S36°08'52"W |
| L25 | 38.87' | S14°36'35"E |
| L26 | 29.90' | N37°40'51"W |
| L27 | 20.00' | N77°01'39"W |
| L28 | 26.66' | N66°36'06"E |
| L29 | 63.43' | N68°46'06"W |

CENTERLINE TABLE

| LINE | DIRECTION | DISTANCE |
|------|---------------|----------|
| L15 | N 30°27'56" W | 89.44' |
| L16 | S 72°12'51" E | 17.97' |

CENTERLINE CURVE TABLE

| CURVE | LENGTH | RADIUS | CRD. BEARING | CRD. DIST. |
|-------|---------|---------|---------------|------------|
| C2 | 65.73' | 200.00' | N 39°52'49" W | 65.43' |
| C3 | 80.00' | 200.00' | N 60°45'17" W | 79.47' |
| C4 | 41.89' | 40.00' | S 42°12'51" E | 40.00' |
| C5 | 209.44' | 40.00' | S 17°47'09" W | 40.00' |
| C6 | 41.89' | 40.00' | S 77°47'09" W | 40.00' |

PROPERTY CURVE TABLE

| CURVE | LENGTH | RADIUS | CRD. BEARING | CRD. DIST. |
|-------|--------|---------|---------------|------------|
| C7 | 23.56' | 15.00' | S 75°27'56" E | 21.21' |
| C8 | 23.56' | 15.00' | N 14°32'04" E | 21.21' |
| C9 | 72.30' | 220.00' | N 39°52'49" W | 71.98' |
| C10 | 59.16' | 180.00' | N 39°52'49" W | 58.89' |
| C11 | 86.27' | 220.00' | N 60°31'46" W | 85.72' |
| C12 | 17.94' | 180.00' | N 52°08'59" W | 17.93' |
| C13 | 50.00' | 60.00' | S 47°53'29" E | 48.56' |
| C14 | 49.92' | 60.00' | N 47°51'14" W | 48.49' |
| C15 | 50.02' | 60.00' | S 84°25'50" W | 48.58' |
| C16 | 71.32' | 60.00' | S 26°29'40" W | 67.20' |
| C17 | 79.03' | 60.00' | S 45°17'39" E | 73.44' |
| C18 | 39.13' | 60.00' | N 78°17'25" E | 38.44' |
| C19 | 51.54' | 60.00' | S 84°13'01" W | 49.97' |
| C20 | 50.80' | 180.00' | N 63°05'23" W | 50.63' |

GENERAL NOTES

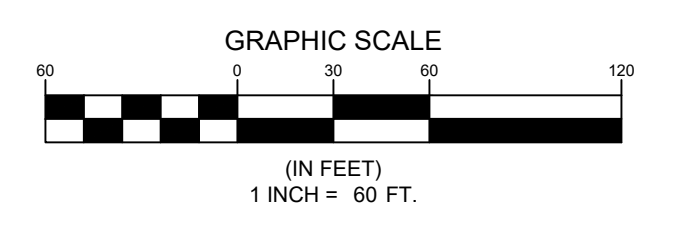
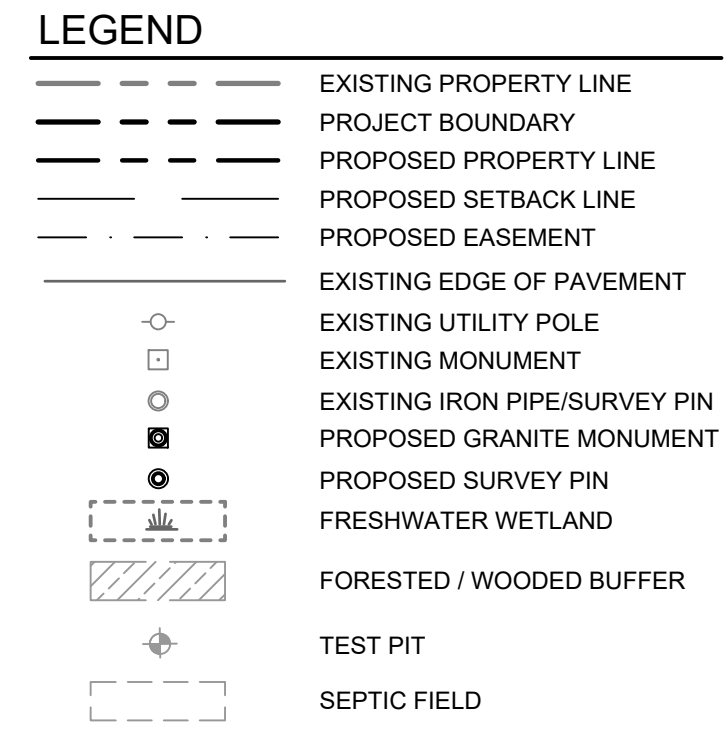
- THE PROJECT SITE IS COMPRISED OF THE FOLLOWING LOT:

| RECORD OWNER | BOOK/PAGE | MAP/LOT |
|-------------------------------|-------------|---------|
| BEACHWOOD DEVELOPMENT FUND LP | 19102 / 372 | 62/26 |
- KITTERY ZONING DISTRICTS: RESIDENTIAL RURAL (R-RL) ZONING DISTRICT & RESOURCE PROTECTION OVERLAY ZONE (OZ-RP)
- TOTAL AREA OF PARCEL: 19.30 AC
- SPACE AND BULK INFORMATION FOR RESIDENTIAL RURAL (R-RL) DISTRICT:

| (R-RL) | PROPOSED (CONSERVATION) | |
|-----------------------|-------------------------|-------------|
| MIN. LOT AREA: | 40,000 S.F. | 20,000 S.F. |
| MIN. LOT WIDTH: | 150 FT. | 50 FT. |
| MIN. FRONT SETBACK: | 40 FT. | 20 FT. |
| MIN. SIDE SETBACK: | 20 FT. | 10 FT. |
| MIN. REAR SETBACK: | 20 FT. | 10 FT. |
| MAX. LOT COVERAGE: | 15% | 25% |
| MAX. BUILDING HEIGHT: | 35 FT. | 35 FT. |
- NET RESIDENTIAL AREA CALCULATION

| | |
|--------------------------------------|--|
| TOTAL PARCEL AREA: | 840.643 S.F. |
| LESS THE FOLLOWING UNSUITABLE AREAS: | |
| LAND BELOW HIGH TIDE: | 0 S.F. |
| LAND IN FLOOD PLAIN: | 17,785 S.F. (NOT INCL. WETLANDS) |
| WETLANDS: | 90,724 S.F. |
| 50% OF AREA WITHIN WETLAND SETBACK: | 59,934 S.F. (NOT INCL. OTHER AREAS) |
| LAND IN FILLED TIDAL AREAS: | 0 S.F. |
| LAND IN EXISTING R.O.W.: | 0 S.F. |
| LAND IN PROPOSED R.O.W.: | 31,737 S.F. |
| LAND ISOLATED BY BARRIER: | 0 S.F. |
| LAND ZONED COMMERCIAL: | 0 S.F. |
| STEEP SLOPES: | 0 S.F. |
| BEDROCK & POORLY DRAINED SOILS: | 2,436 S.F. (NOT INCL. WETLAND OR FLOOD) |
| 50% SOMEWHAT POORLY DRAINED SOILS: | 46,863 S.F. (NOT INCL. WETLAND OR FLOOD) |
| CEMETERY: | 6,965 S.F. |
| ZONED COMMERCIAL FISHERIES: | 0 S.F. |
| OPEN SPACE: | 0 S.F. |
| TOTAL UNSUITABLE AREA: | 256,264 S.F. |
| TOTAL NET RESIDENTIAL AREA: | 584,379 S.F. |
| MIN LOT DENSITY: | 40,000 S.F. |
| MAXIMUM LOTS: | 14 |
| PROPOSED LOTS: | 9 |
- OPEN SPACE REQUIREMENTS:

| | |
|--|--------------|
| A. OPEN SPACE: 60% OF TOTAL LAND AREA | 504,386 S.F. |
| B. OPEN SPACE PROVIDED | 572,535 S.F. |
| C. OPEN SPACE WITHIN NET RES: 40% OF NET RES | 233,552 S.F. |
| D. OPEN SPACE WITHIN NET RES PROVIDED | 316,271 S.F. |
- THE OUTER BOUNDARY INFORMATION SHOWN ON THIS PLAN IS BASED ON A PLAN ENTITLED "BARTLETT ROAD SUBDIVISION", DATED MARCH 24, 2023 BY TERRADYN CONSULTANTS LLC.
- SITE ENGINEERING PROVIDED BY MICHAEL E. TADEMA-WIELANDT, P.E. #11567 OF TERRADYN CONSULTANTS, LLC, 565 CONGRESS STREET, SUITE 201, PORTLAND, MAINE.
- BEARINGS ARE GRID NORTH AND REFER TO THE MAINE STATE PLANE COORDINATE SYSTEM, MAINE WEST ZONE ZONE 1802, NAD 1983.
- THE PROPOSED LOTS WILL BE SERVED BY INDIVIDUAL WELLS, AND SUBSURFACE WASTEWATER DISPOSAL SYSTEMS, AND UNDERGROUND ELECTRICAL AND TELECOMMUNICATIONS UTILITIES.
- NO WETLAND IMPACTS SHALL BE CREATED WITHOUT THE APPROVAL OF THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- A PORTION OF THE SITE IS WITHIN THE 100-YEAR FLOOD ZONE AS DEPICTED ON THE FLOOD INSURANCE RATE MAP FOR THE TOWN OF KITTERY, MAINE, YORK COUNTY, MAP NUMBER 2301710002C, REVISED JULY 5, 1984.
- WETLAND BOUNDARIES DEPICTED ON THIS PLAN WERE DELINEATED BY LONGVIEW PARTNERS, LLC IN JULY, AUGUST, SEPTEMBER, & OCTOBER 2021.
- LONGVIEW PARTNERS, LLC PERFORMED SITE INVESTIGATIONS FOR THE PRESENCE OF VERNAL POOL HABITAT IN THE SPRING OF 2023. TWO VERNAL POOLS WERE IDENTIFIED AS NON-SIGNIFICANT AND REPORTED AT THAT TIME.
- LONGVIEW PARTNERS, LLC PREPARED A HIGH INTENSITY SOIL SURVEY ON THE SITE, DATED DECEMBER, 2022. TEST PITS WERE OBSERVED ON 10/19/2023.
- THERE SHALL BE NO CONVEYANCE OF ANY LOT OR ISSUANCE OF ANY BUILDING PERMIT UNTIL A PERFORMANCE GUARANTEE(S) COVERING THE COST OF ALL REQUIRED IMPROVEMENTS IS PROVIDED AND APPROVED BY THE TOWN OF KITTERY.
- THE DEVELOPMENT IS SUBJECT TO THE FINDINGS OF FACT, CONCLUSIONS, DECISIONS, AND CONDITION OF APPROVAL AS APPROVED BY THE TOWN OF KITTERY PLANNING BOARD AND RECORDED IN THE YORK COUNTY REGISTRY OF DEEDS.
- THE NUMBERED LOTS SHOWN HEREON SHALL ONLY BE ACCESSED BY DRIVEWAYS OFF OF WASHBURN LANE.
- WASHBURN LANE SHALL REMAIN PRIVATE AND SHALL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
- SIGHT DISTANCE MEASUREMENTS WERE TAKEN IN THE FIELD BY TERRADYN CONSULTANTS, LLC ON SEPTEMBER 21, 2023.
- WETLAND BOUNDARIES SHALL BE IDENTIFIED WITH PERMANENT SIGNAGE EVERY 50' ALONG BOUNDARY.
- NO TREE CLEARING OR DISTURBANCE IS ALLOWED WITHIN 100' OF WETLANDS EXCEPT AS SHOWN ON THE APPROVED DRAWINGS AND AS NECESSARY TO CONSTRUCT THE ROAD AND STORMWATER MANAGEMENT INFRASTRUCTURE.



TOWN OF KITTERY PLANNING BOARD SUBDIVISION APPROVAL

DATE _____

CHAIRPERSON _____

ATTEST _____ REGISTER

STATE OF MAINE
YORK COUNTY REGISTRY OF DEEDS

RECEIVED _____ 20____

AT _____ M. AND RECORDED IN PLAN BOOK _____ PAGE _____

PROJECT: WASHBURN FARM SUBDIVISION
BARTLETT ROAD, KITTERY, MAINE

SHEET TITLE: SUBDIVISION PLAN

CLIENT: BEACHWOOD DEVELOPMENT FUND
P.O. BOX 281
KENNEBUNK, MAINE 04043

DATE: 5/18/2023

SCALE: 1" = 60'

DESIGNED: MTW

JOB NO: 22-145

SHEET C-3.0

565 CONGRESS STREET
SUITE 201
PORTLAND, ME 04102

41 CAMPUS DRIVE
SUITE 301
NEW GLOUCESTER, ME 04260

OFFICE: (207) 926-5111 FAX: (207) 221-1317
www.terradynconsultants.com

TERRADYN CONSULTANTS, LLC

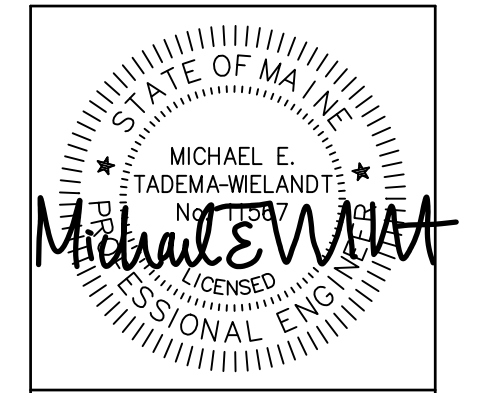
Civil Engineering | Land Planning | Stormwater Design | Environmental Permitting

| NO. | DATE | REVISIONS |
|-----|------------|---|
| 4 | 12/28/2023 | SUBMITTED TO KITTERY FOR FINAL SUBDIVISION REVIEW |
| 3 | 10/24/2023 | REVISED BASED ON PEER REVIEW COMMENTS |
| 2 | 10/10/2023 | REVISED BASED ON PEER REVIEW COMMENTS |
| 1 | 8/3/2023 | SUBMITTED TO KITTERY FOR PRELIMINARY SUBDIVISION REVIEW |

DATE: 12/28/2023
P.L.S. JIMMY COURBRON

DATE: 12/28/2023
P.E. MICHAEL TADEMA-WIELANDT

C:\001\terrady\Projects\2022\22-145 Bartlett Road Subdivision\CAD\Permitting\22-145 S.dwg



DATE: 12/28/2023
 P.E.: MICHAEL TADEMA-WIELANDT

| NO. | DATE | REVISIONS |
|-----|------------|-----------|
| 1 | 8/3/2023 | APPD |
| 2 | 10/10/2023 | MTW |
| 3 | 10/24/2023 | MTW |
| 4 | 12/28/2023 | MTW |

565 CONGRESS STREET
 SUITE 201
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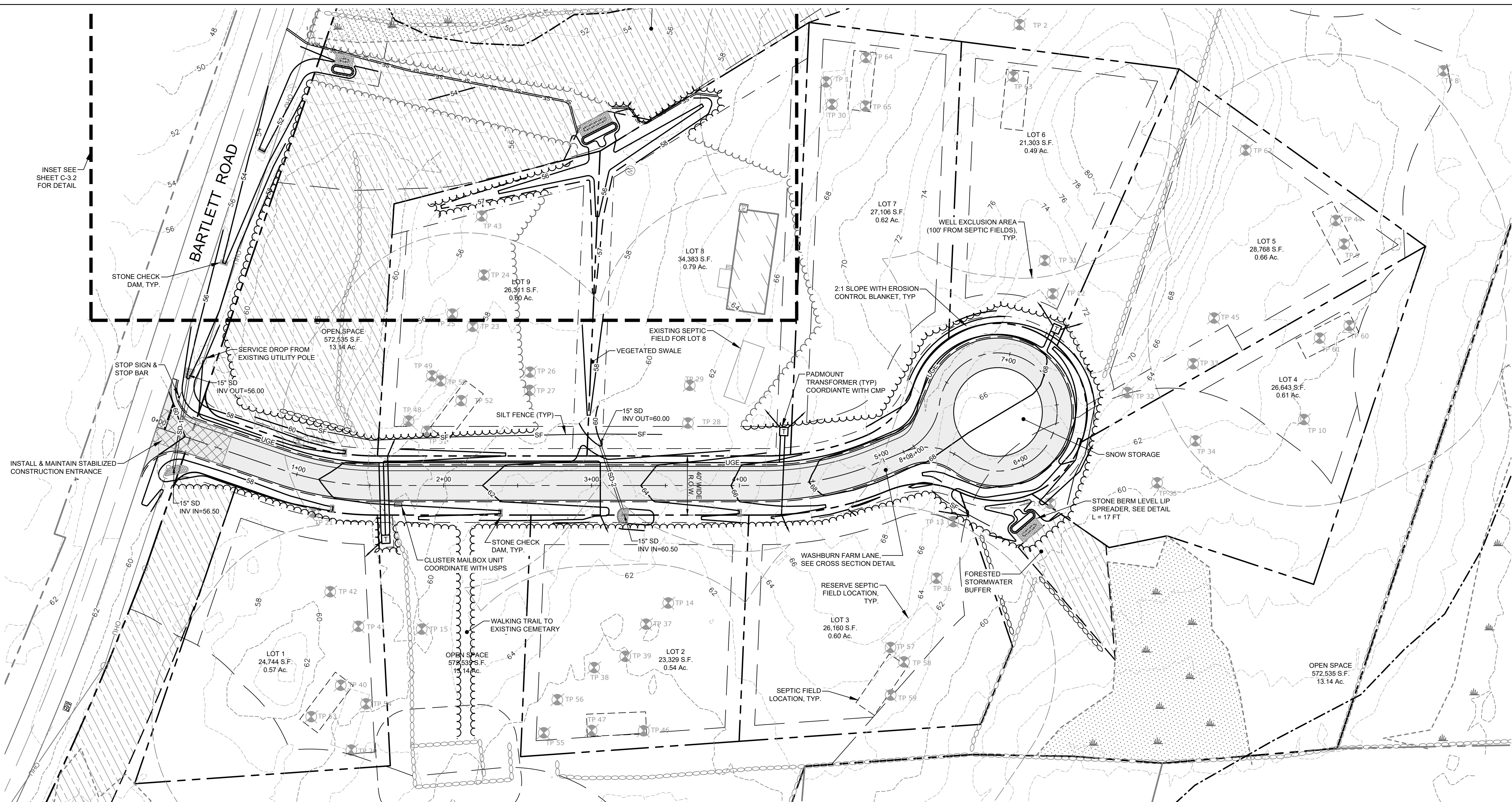
PERMIT DRAWING
 NOT FOR CONSTRUCTION

PROJECT: WASHBURN FARM SUBDIVISION
 BARTLETT ROAD, KITTERY, MAINE

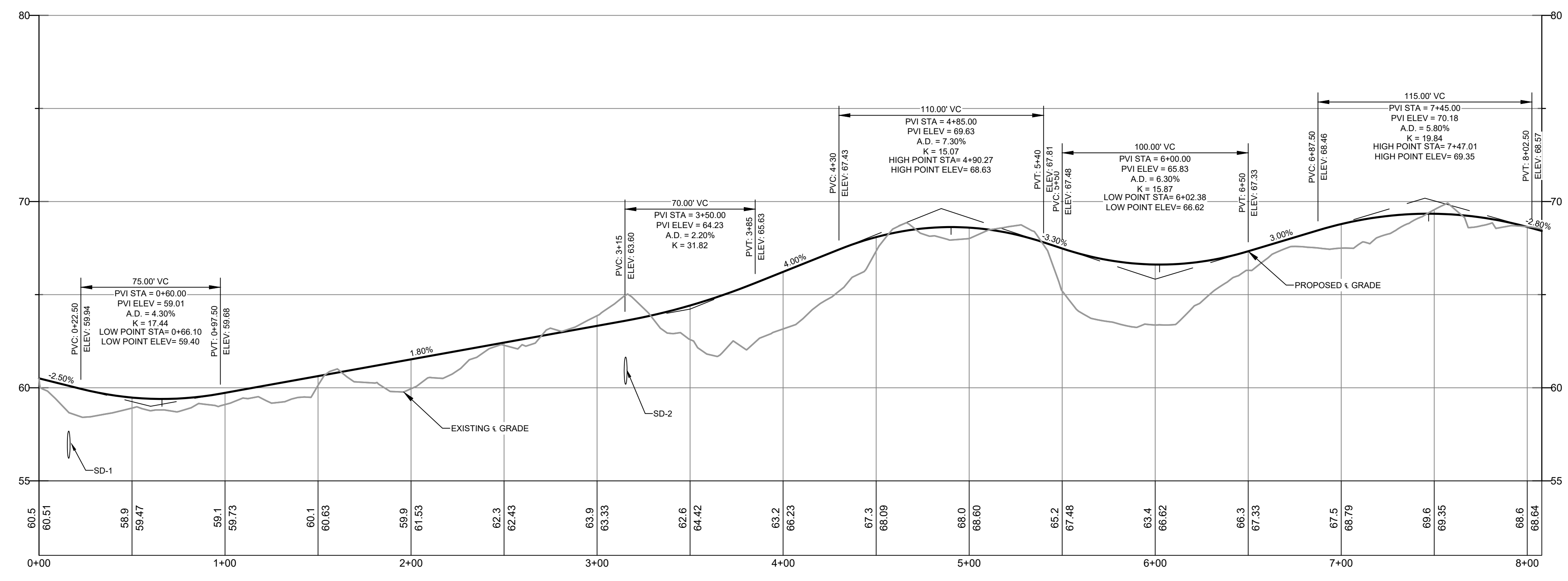
SHEET TITLE: PLAN & PROFILE, UTILITY, & EROSION CONTROL PLAN

CLIENT: BEACHWOOD DEVELOPMENT FUND
 P.O. BOX 281
 KENNEBUNK, MAINE 04043

DATE: 5/18/2023
 SCALE: 1" = 40'
 DESIGNED: MTW
 JOB NO.: 22-145
 SHEET: C-3.1

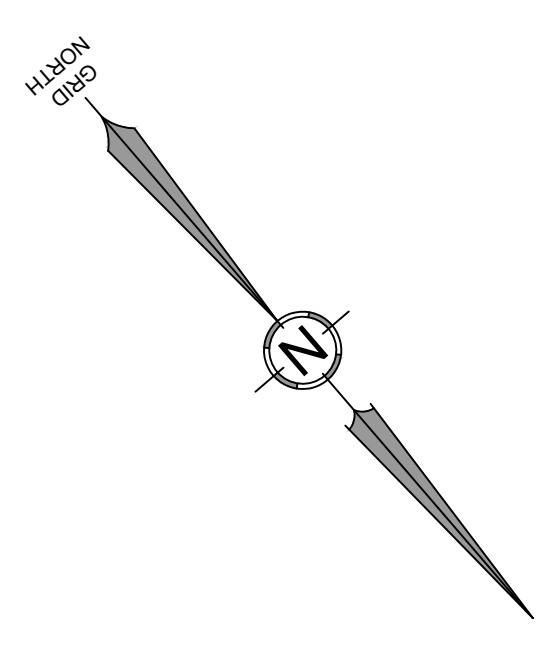
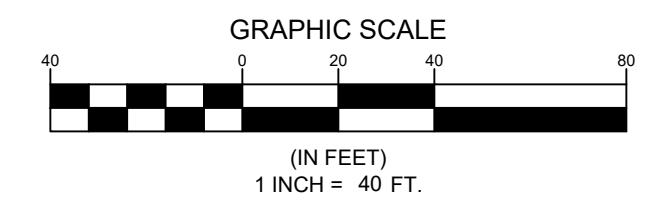


PLAN VIEW - WASHBURN FARM LANE STA. 0+00 TO 8+08
 SCALE: 1" = 40'



PROFILE - WASHBURN FARM LANE STA. 0+00 TO 8+08
 SCALE: 1" = 40' HORIZ.
 1" = 4' VERT.

GENERAL NOTES
 1. SITE DISTANCE FROM THE PROPOSED ENTRANCE ONTO BARTLETT ROAD WAS OBSERVED AS 816' (LEFT) AND 687' (RIGHT) BY TERRADYN CONSULTANTS ON SEPTEMBER 21, 2023.



INSET SEE SHEET C-3.2 FOR DETAIL

STONE CHECK DAM, TYP.

STOP SIGN & STOP BAR

INSTALL & MAINTAIN STABILIZED CONSTRUCTION ENTRANCE

15" SD INV IN=56.50

15" SD INV IN=60.50

15" SD INV IN=60.00

15" SD INV IN=60.00

15" SD INV IN=60.00

15" SD INV IN=60.00

15" SD INV IN=60.00

15" SD INV IN=60.00

15" SD INV IN=60.00

15" SD INV IN=60.00

15" SD INV IN=60.00

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15" SD INV IN=60.00

15" SD INV IN=60.00

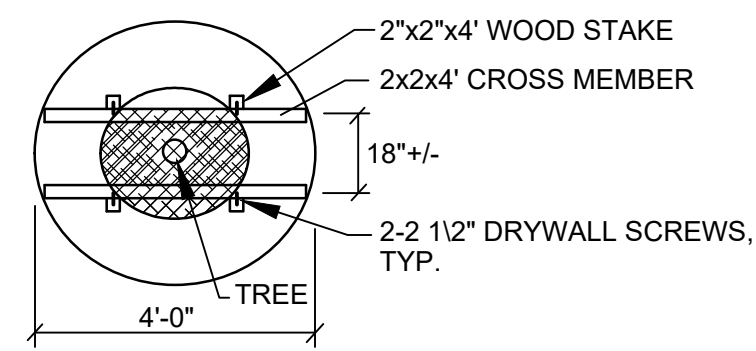
15" SD INV IN=60.00

15" SD INV IN=60.00

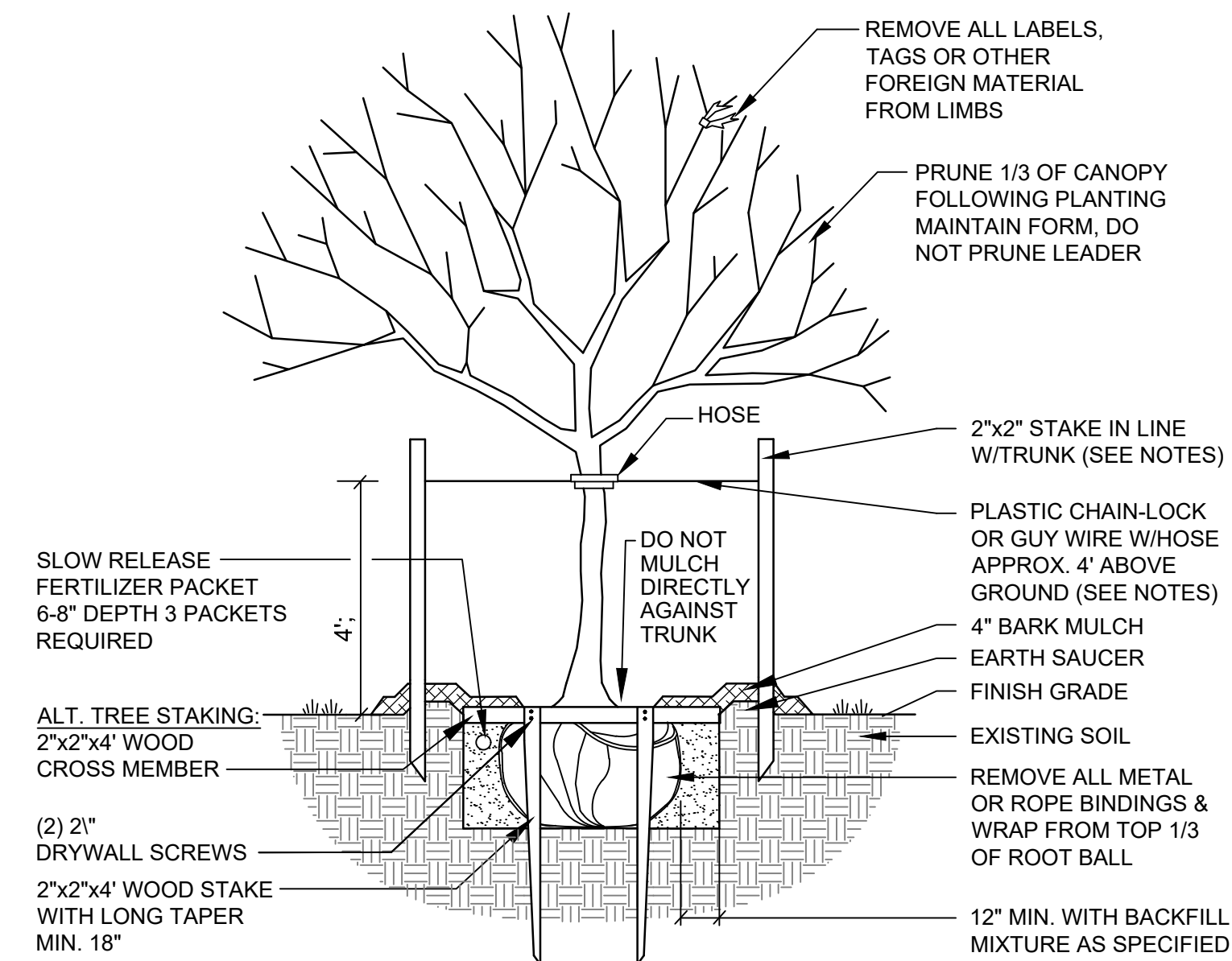
15" SD INV IN=60.00

15" SD INV IN=60.00

15" SD INV IN=60.00

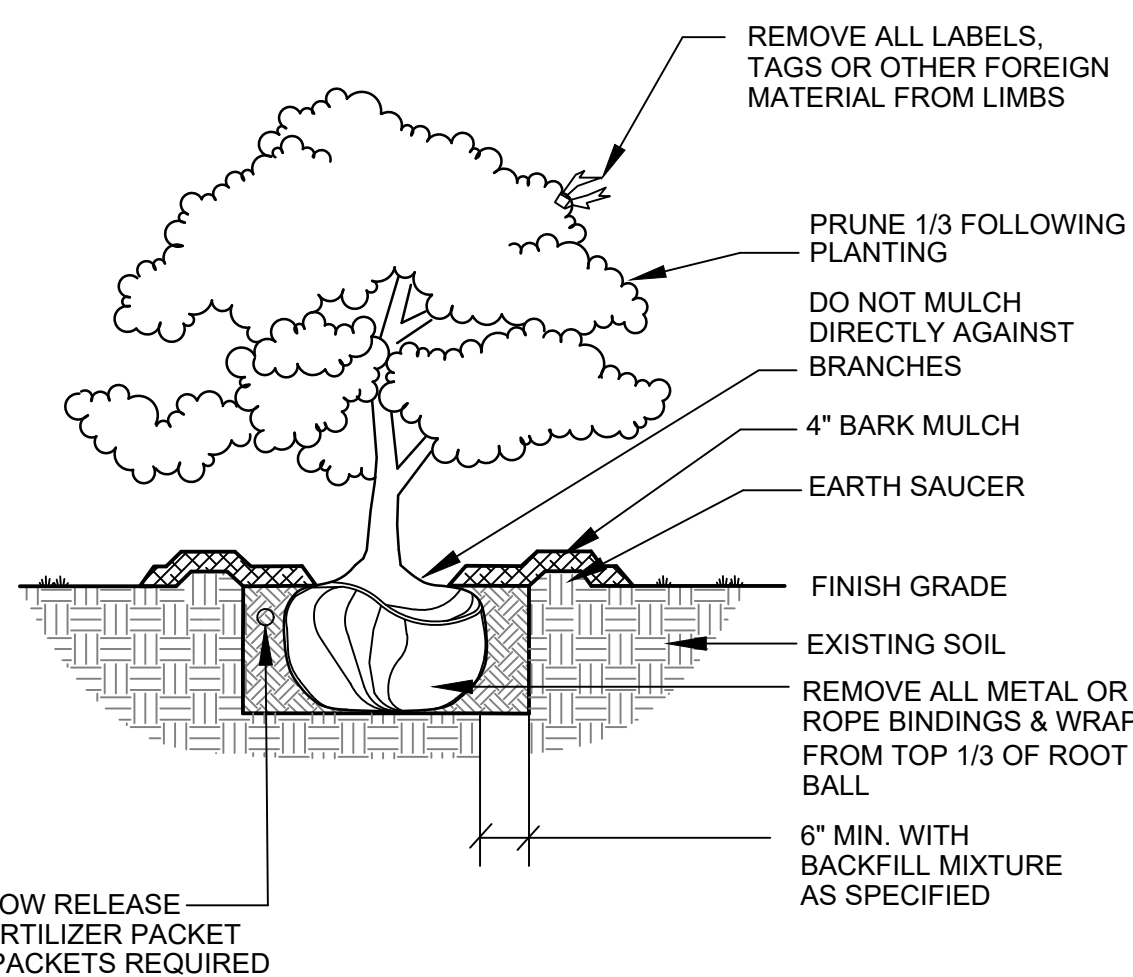


ALT. TREE STAKING PLAN
NOT TO SCALE

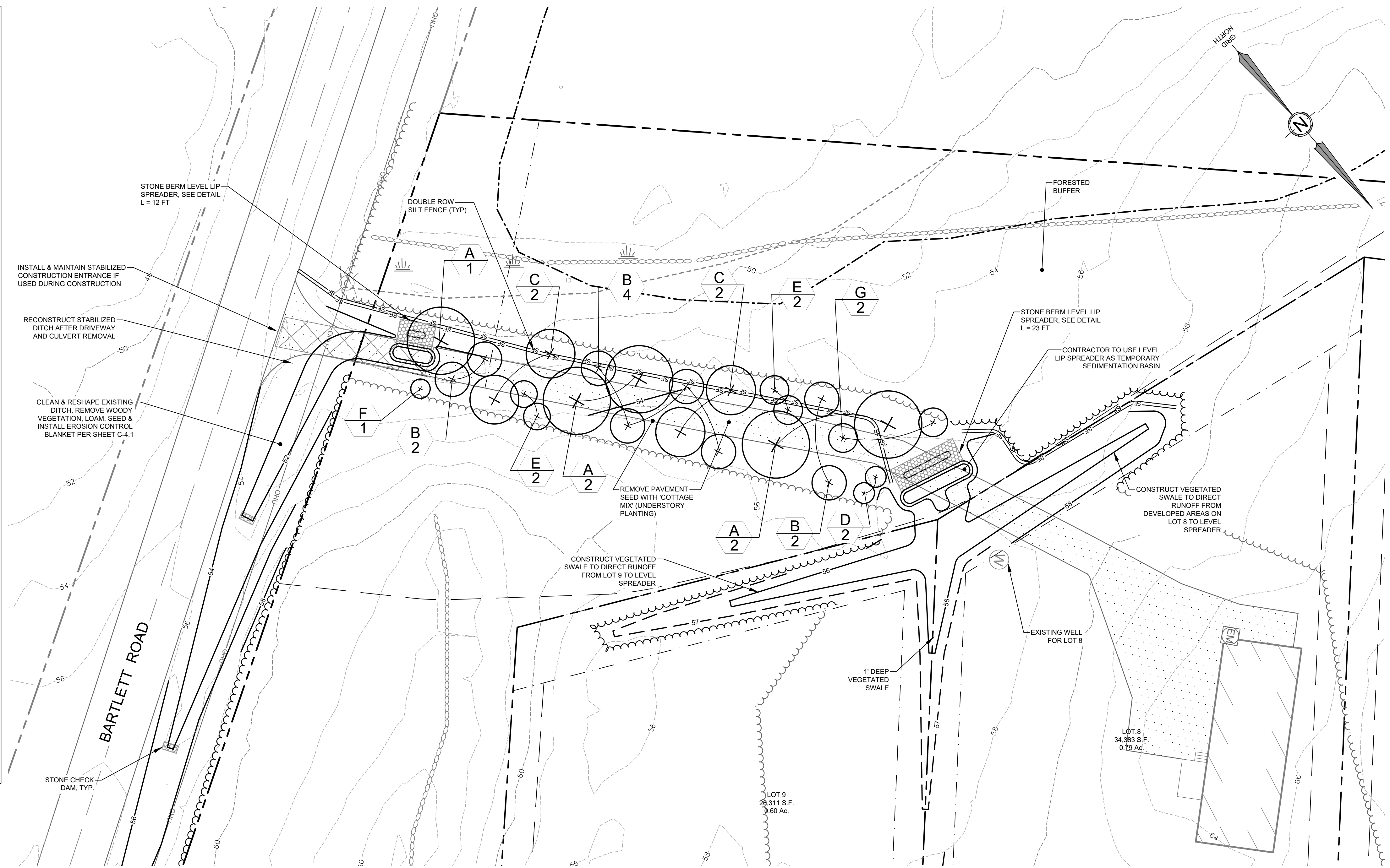


- NOTES:
INSTALL STAKES AND GUYS TO TREES IF THE FOLLOWING APPLY:
1. THE TREE IS OF SUBSTANTIAL SIZE.
2. THE PLANTING LOCATION IS EXTREMELY WINDY, AS ON OPEN UNDEVELOPED SITES.
3. THE PLANTING LOCATION IS COMPRISED OF SAND OR OTHER LOOSE TEXTURED SOILS.
4. IF STAKES AND GUYS ARE REQUIRED, REMOVE AFTER ONE YEAR TIME.

DECIDUOUS TREES 2" TO 4" CALIPER
NOT TO SCALE



DECIDUOUS & EVERGREEN SHRUB
NOT TO SCALE



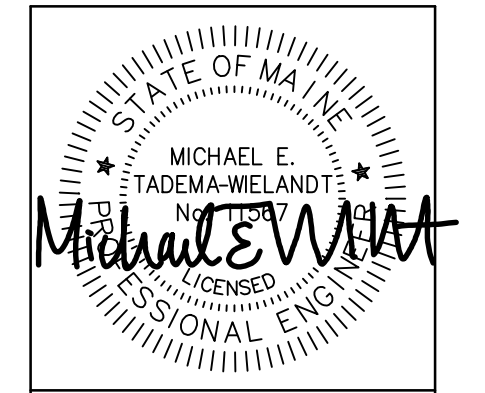
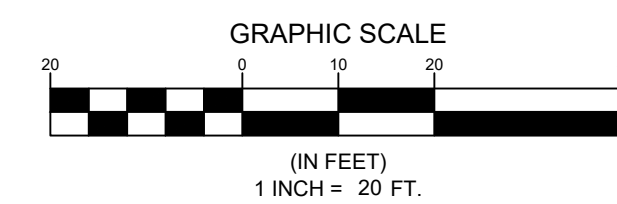
GENERAL NOTES

1. PLANTING PLAN BY:
ANTHONY MUENCH, RLA
94 COMMERCIAL STREET
PORTLAND, ME 04101
207-781-6621

PLANT LIST

77 BARTLETT ROAD

| Key | Common & Botanical Name | Size | Root | Qty | Notes |
|-----|--|-----------|-------|-----|----------|
| A. | Red Maple Acer Rubrum | 1.5" Dia. | B&B | 5 | |
| B. | Gray Dogwood C. Racemosa | 4'-5" Ht. | B&B | 8 | |
| C. | Native Shadbush Amelanchier Canadensis | 3'-4" Ht. | B&B | 4 | 3 trunks |
| D. | Red Twig Dogwood C. Sericea 'Cardinal' | #3 | B&B | 2 | |
| E. | Nannyberry Viburnum V. Lentago | 3'-4" Ht. | B&B | 4 | |
| F. | Blackhaw Viburnum V. Prunifolium | 30" Ht. | Cont. | 1 | 3 Canes |
| G. | Arrowwood Viburnum V. Dentatum 'Christom' | 3'-4" ht. | B&B | 2 | |



DATE: 12/28/2023
P.E. MICHAEL TADEMA-WIELANDT

| NO. | DATE | REVISIONS |
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41 CAMPUS DRIVE
SUITE 301
NEW GLOUCESTER, ME 04260
OFFICE: (207) 926-5111 FAX: (207) 221-1317
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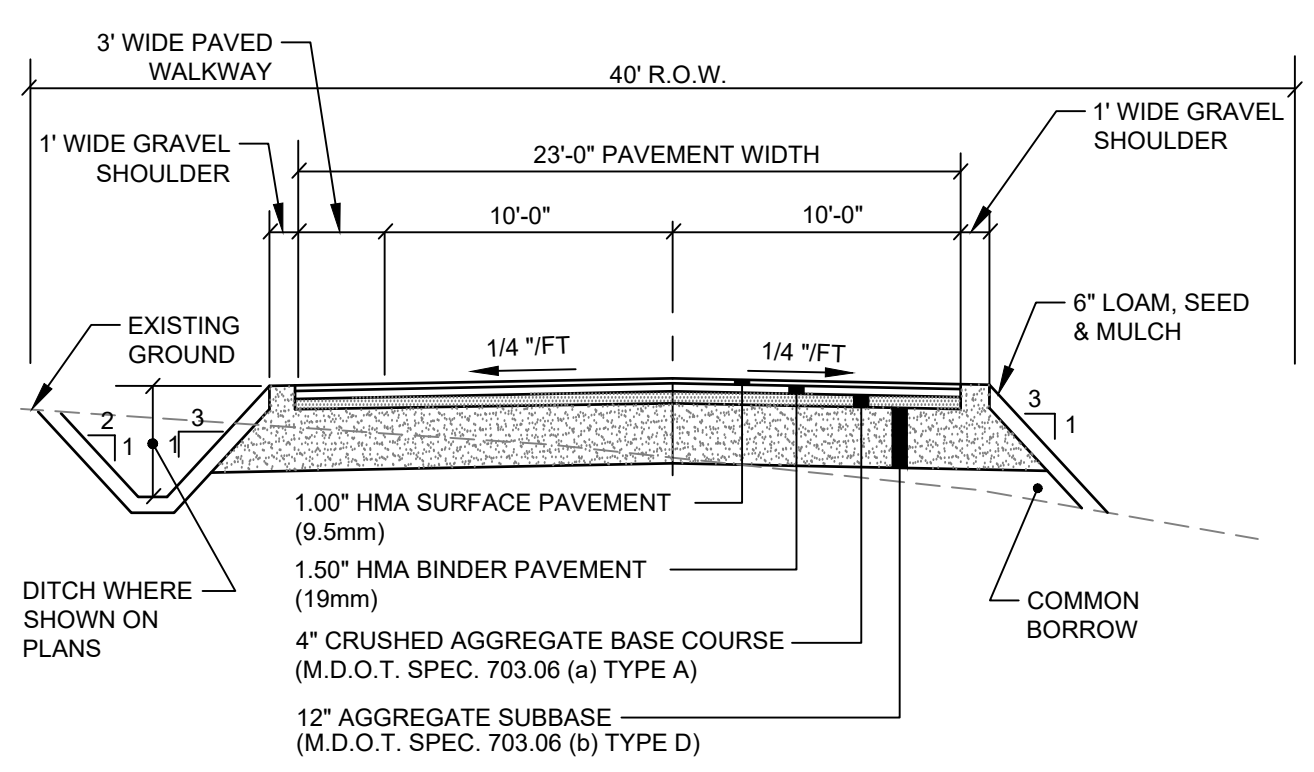
565 CONGRESS STREET
SUITE 201
PORTLAND, ME 04102



PERMIT DRAWING
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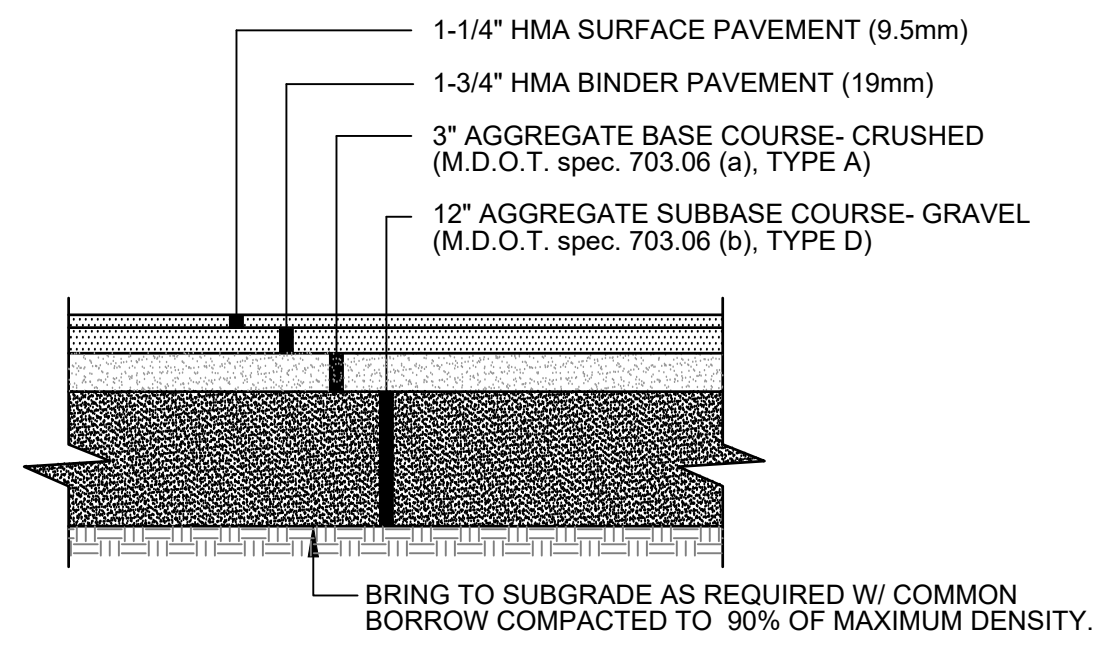
PROJECT: WASHBURN FARM SUBDIVISION
SHEET TITLE: EXISTING DRIVEWAY GRADING, PLANTING & EROSION CONTROL PLAN
CLIENT: BEACHWOOD DEVELOPMENT FUND
P.O. BOX 281
KENNEBUNK, MAINE 04043

DATE: 5/18/2023
SCALE: 1" = 20'
DESIGNED: MTW
JOB NO.: 22-145
SHEET: C-3.2



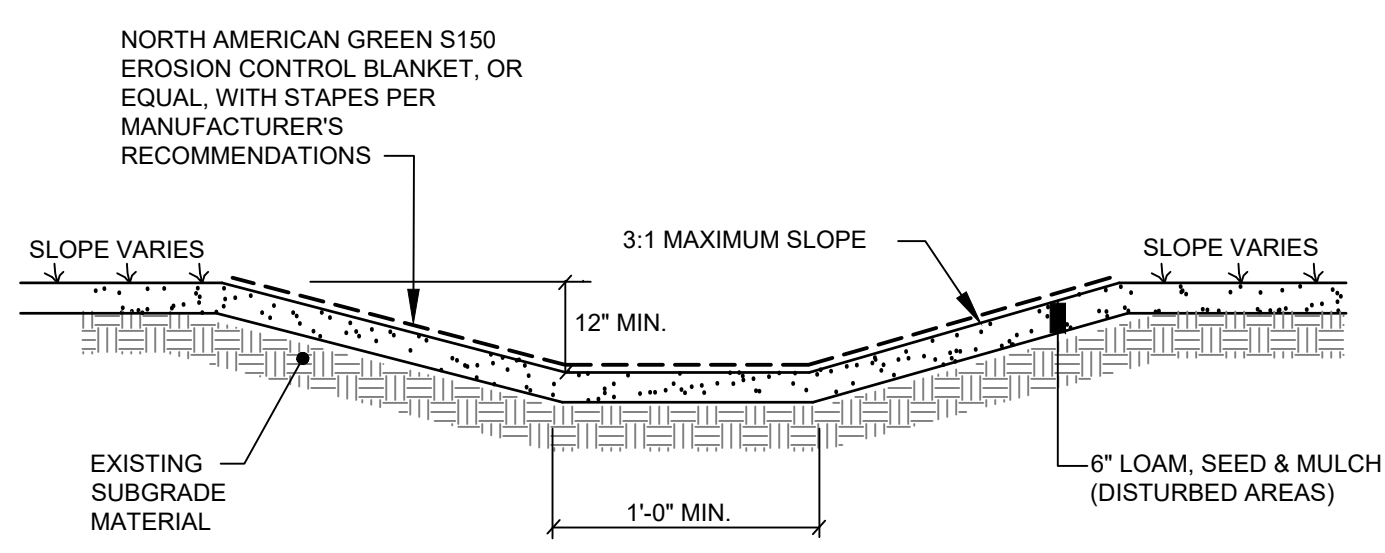
- NOTES:
- ROAD DESIGN ADAPTED FROM CLASS II PRIVATE STREET REQUIREMENTS IN TABLE 1 - "DESIGN AND CONSTRUCTION STANDARDS FOR STREETS AND PEDESTRIAN WAYS" LOCATED IN SECTION 16.8 OF THE KITTERY SUBDIVISION ORDINANCE.
 - SEE PLAN & PROFILE SHEETS FOR DEVIATIONS FROM TYPICAL SECTION.
 - A WHITE LINE SHALL BE PAINTED TO DELINEATE THE 3' WIDE PAVED WALKWAY.
 - ALL CONSTRUCTION MATERIALS AND METHODS SHALL ADHERE TO ARTICLE 16 OF THE TOWN OF KITTERY SUBDIVISION REGULATIONS AND MAINE DOT STANDARD SPECIFICATIONS.

TYPICAL ROAD SECTION
NOT TO SCALE



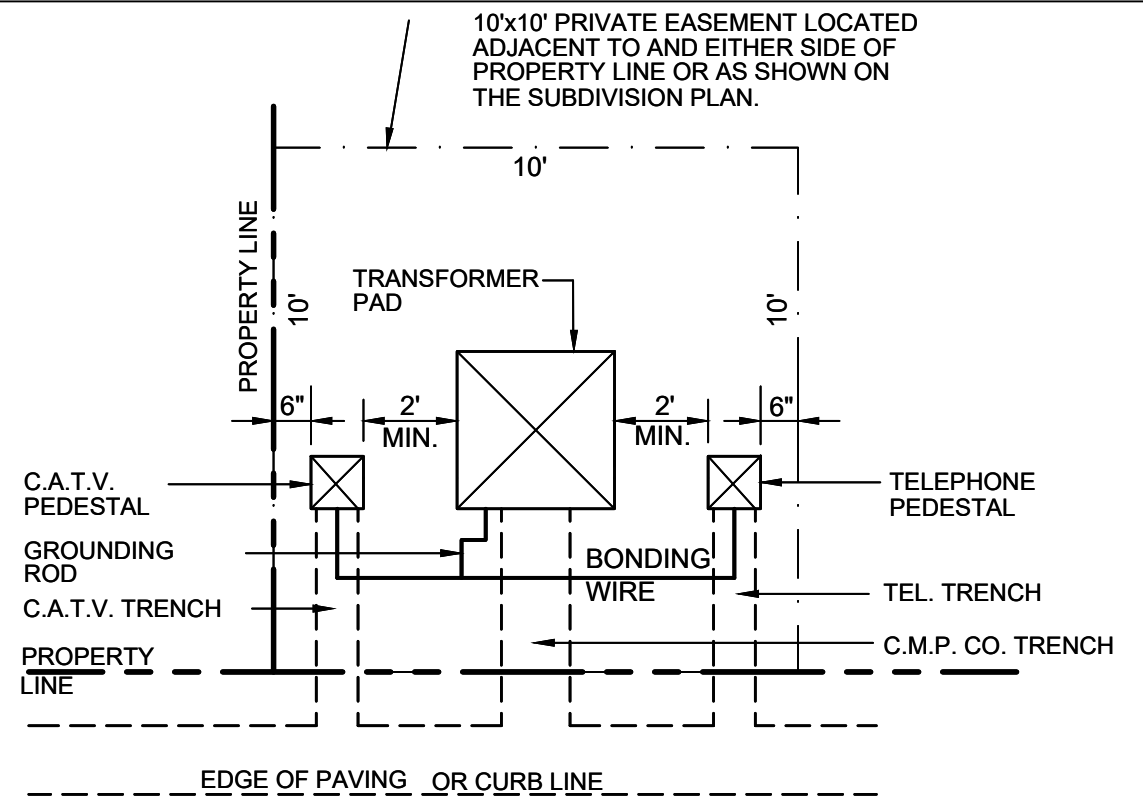
- NOTES:
- M.D.O.T. TYPE D AGGREGATE GRADATION SHALL BE MODIFIED FOR A MAXIMUM 4" STONE AND LIMIT #200 SIEVE TO 5% PASSING.

TYP. DRIVEWAY PAVEMENT SECTION
NOT TO SCALE



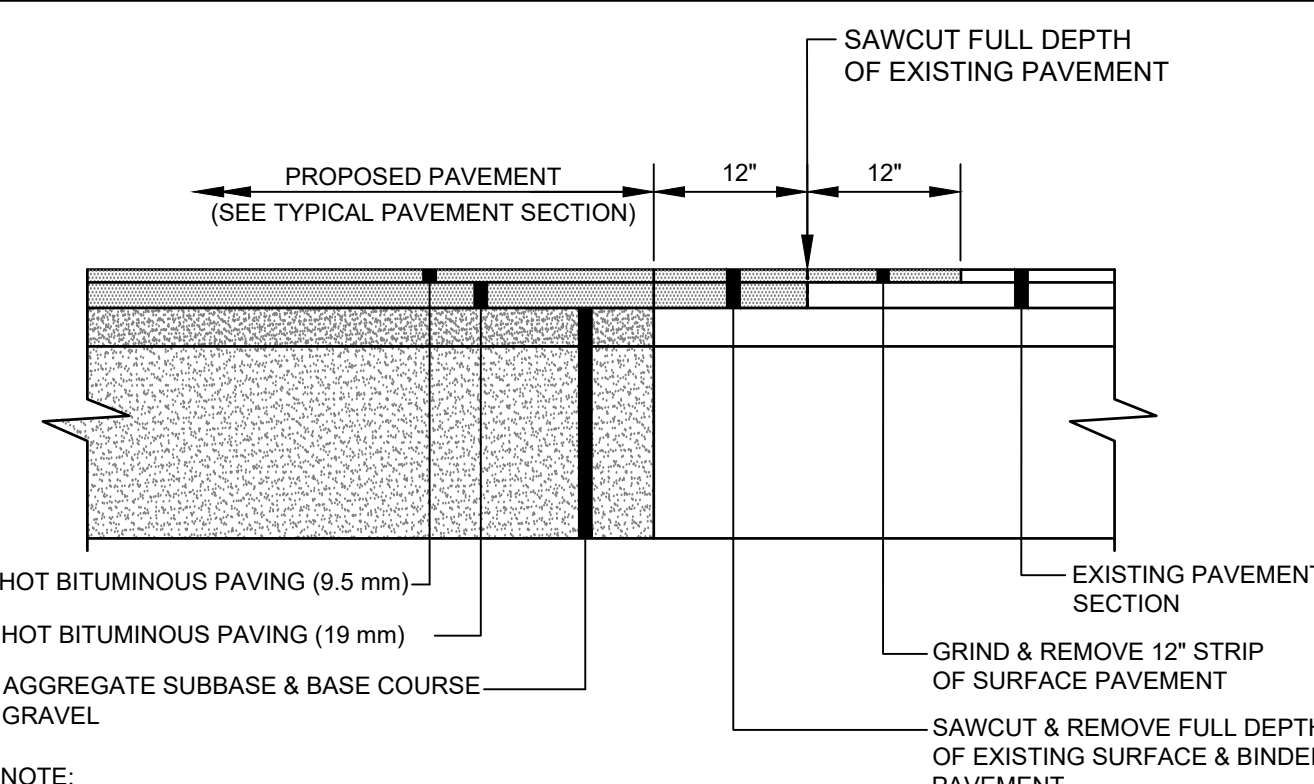
NOTE: REFER TO GRADING PLAN FOR DITCH WIDTH AND SIDE SLOPES

GRASSED SWALE
NOT TO SCALE



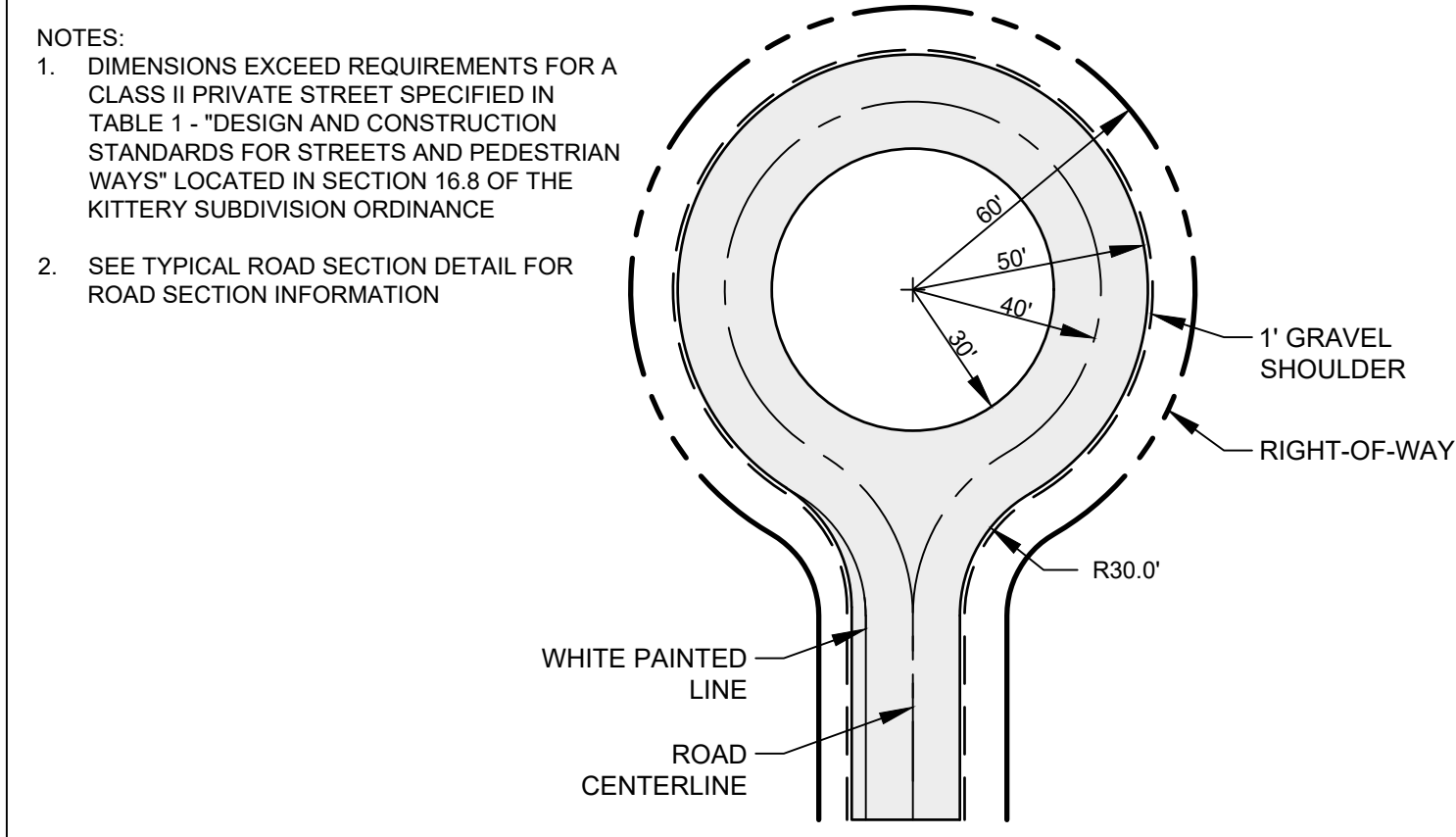
NOTE: TRANSFORMER PAD AND COVER TO BE FIBERGLASS MEETING CENTRAL MAINE POWER SPECIFICATIONS.

TRANSFORMER DETAIL
NOT TO SCALE



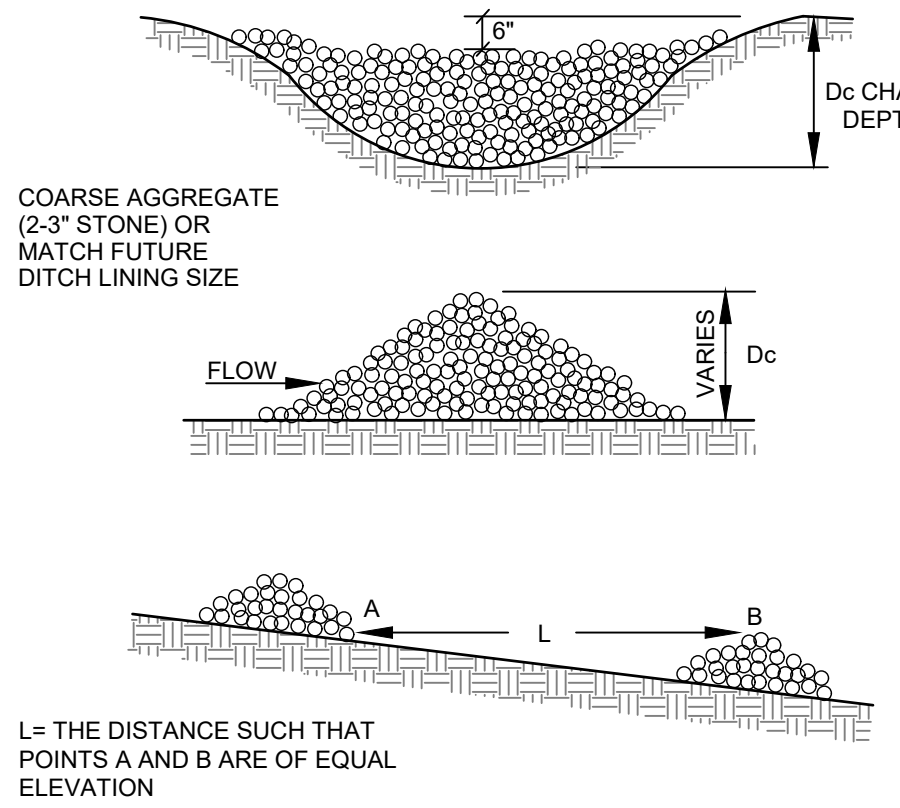
NOTE: CLEAN & APPLY TACK COAT TO SURFACES WHERE NEW BIT. PAVEMENT IS INSTALLED

TYPICAL PAVEMENT JOINT
NOT TO SCALE



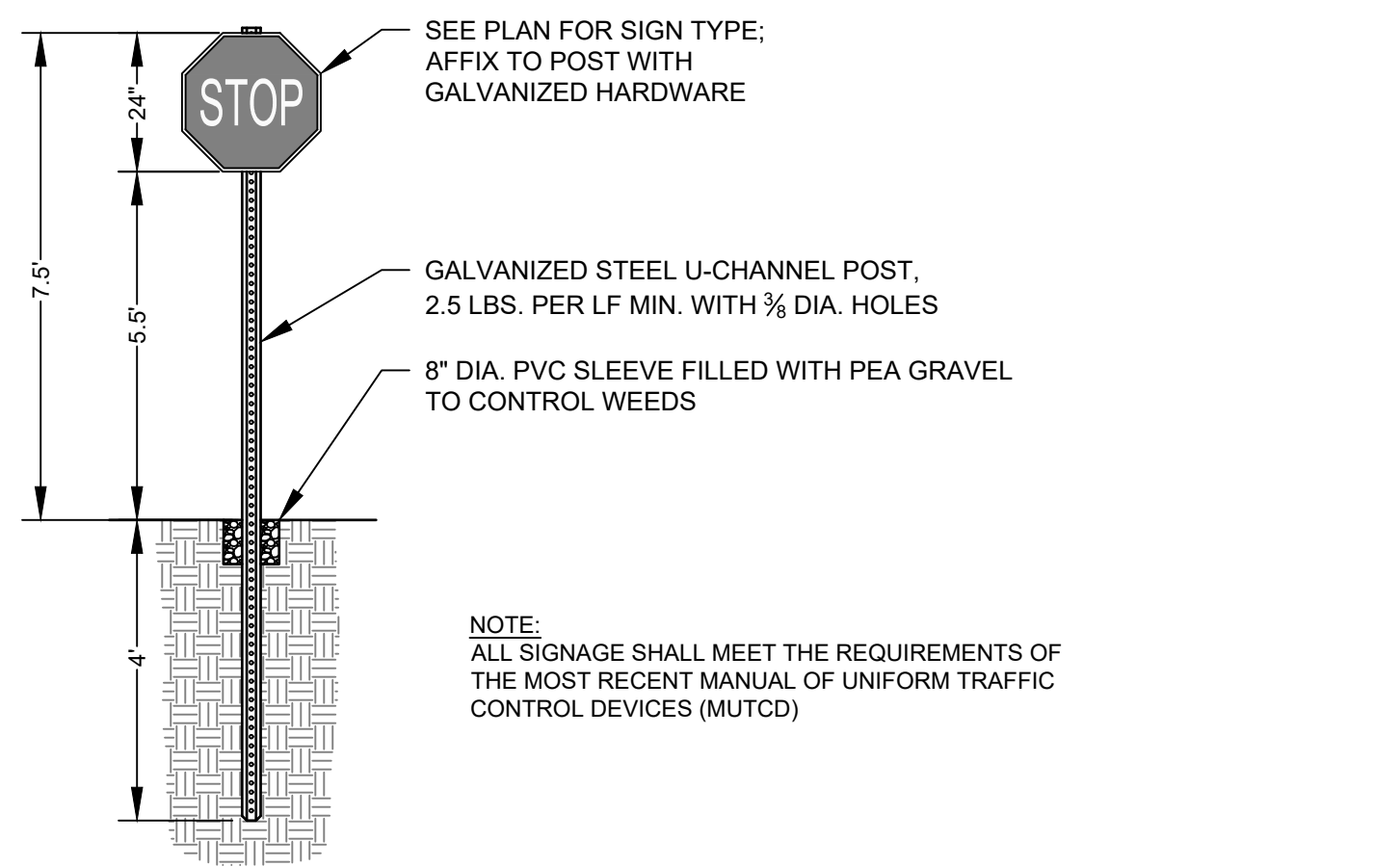
- NOTES:
- DIMENSIONS EXCEED REQUIREMENTS FOR A CLASS II PRIVATE STREET SPECIFIED IN TABLE 1 - "DESIGN AND CONSTRUCTION STANDARDS FOR STREETS AND PEDESTRIAN WAYS" LOCATED IN SECTION 16.8 OF THE KITTERY SUBDIVISION ORDINANCE
 - SEE TYPICAL ROAD SECTION DETAIL FOR ROAD SECTION INFORMATION

CUL-DE-SAC DIMENSIONS
NOT TO SCALE



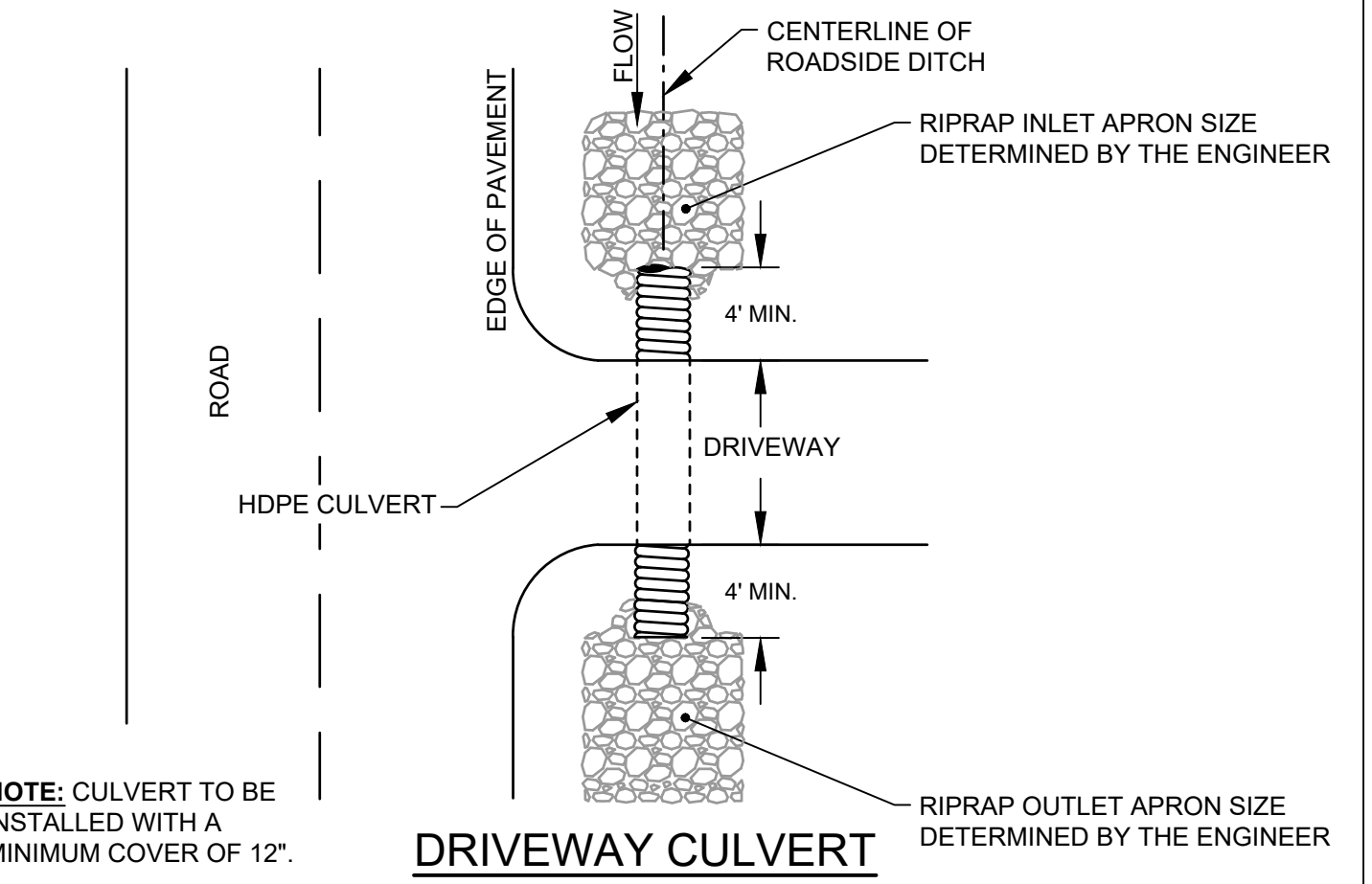
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

STONE CHECK DAM
NOT TO SCALE



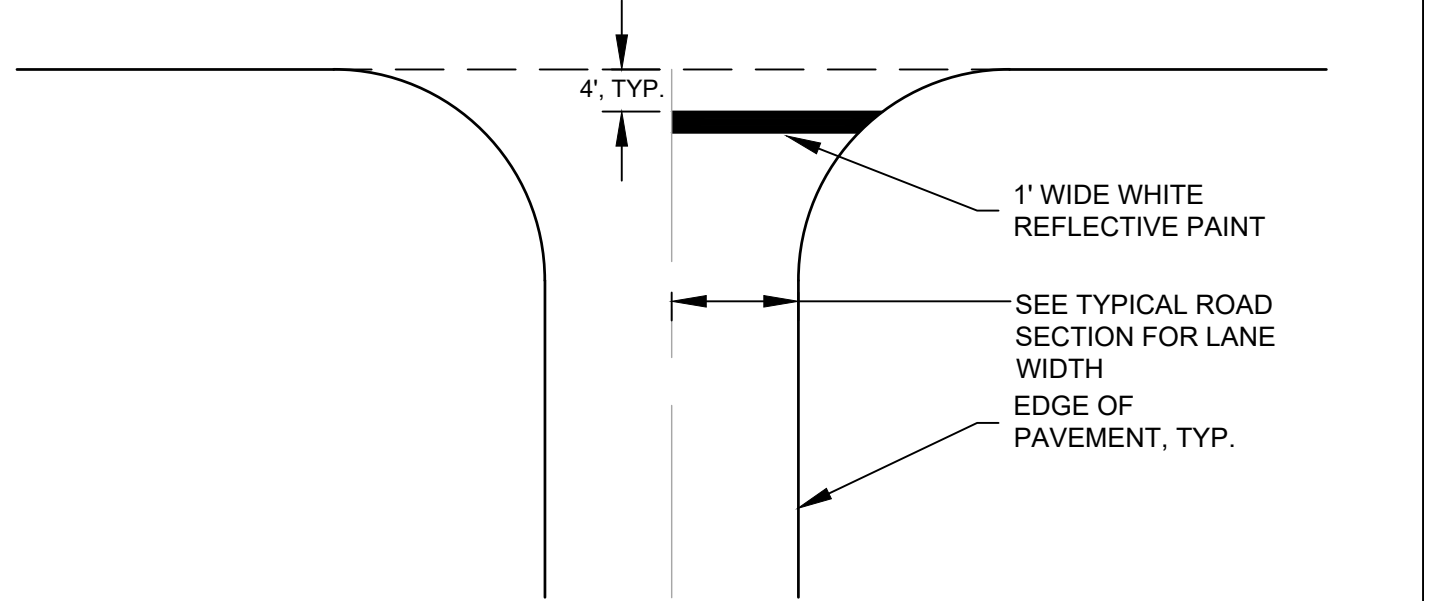
NOTE: ALL SIGNAGE SHALL MEET THE REQUIREMENTS OF THE MOST RECENT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

STREET SIGN
NOT TO SCALE

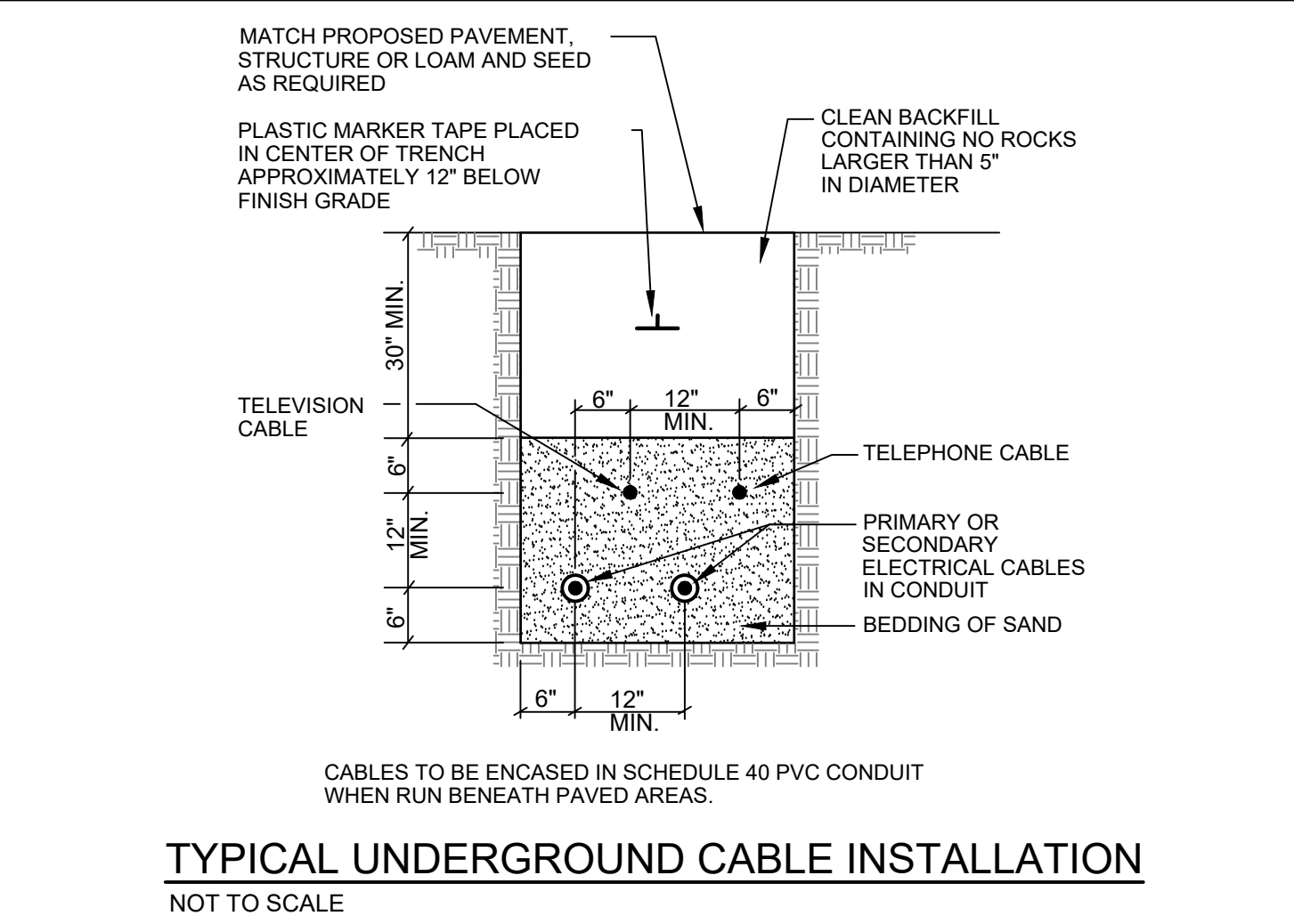


NOTE: CULVERT TO BE INSTALLED WITH A MINIMUM COVER OF 12".

DRIVEWAY CULVERT
NOT TO SCALE

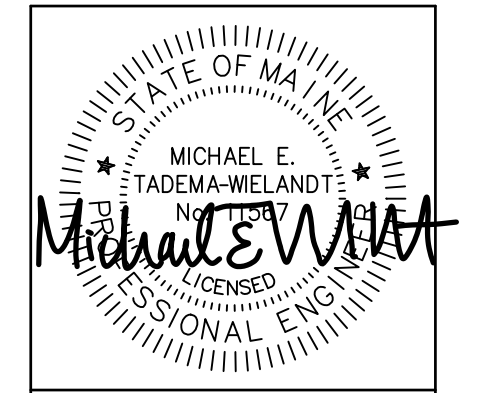


STOP BAR DETAIL
NOT TO SCALE



CABLES TO BE ENCASED IN SCHEDULE 40 PVC CONDUIT WHEN RUN BENEATH PAVED AREAS.

TYPICAL UNDERGROUND CABLE INSTALLATION
NOT TO SCALE



DATE: 12/28/2023
P.E.: MICHAEL TADEMA-WIELANDT

| NO. | DATE | REVISIONS |
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| 2 | 10/10/2023 | REVISED BASED ON PEER REVIEW COMMENTS |
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565 CONGRESS STREET
SUITE 201
PORTLAND, ME 04102

41 CAMPUS DRIVE
SUITE 301
NEW GLOUCESTER, ME 04260

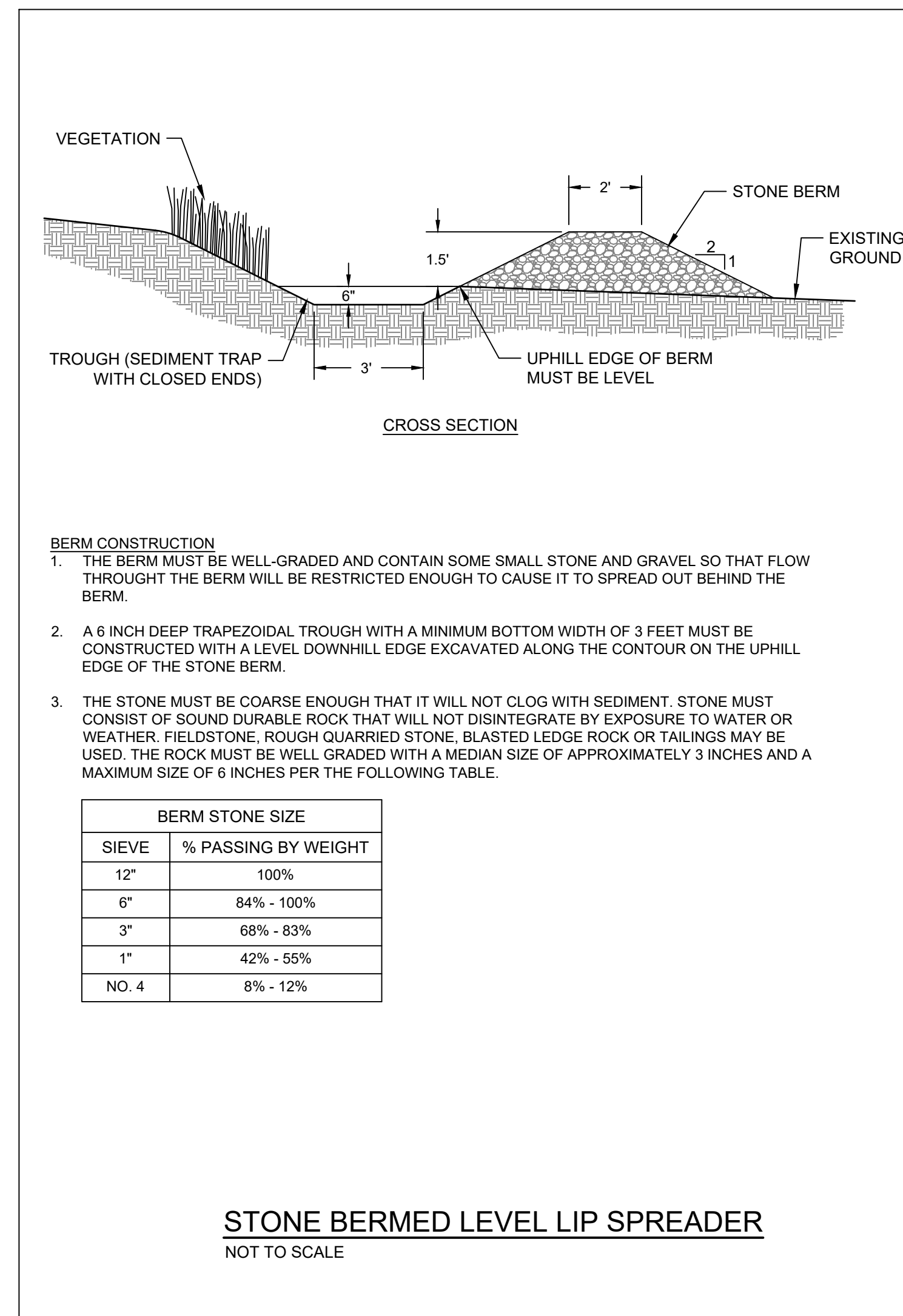
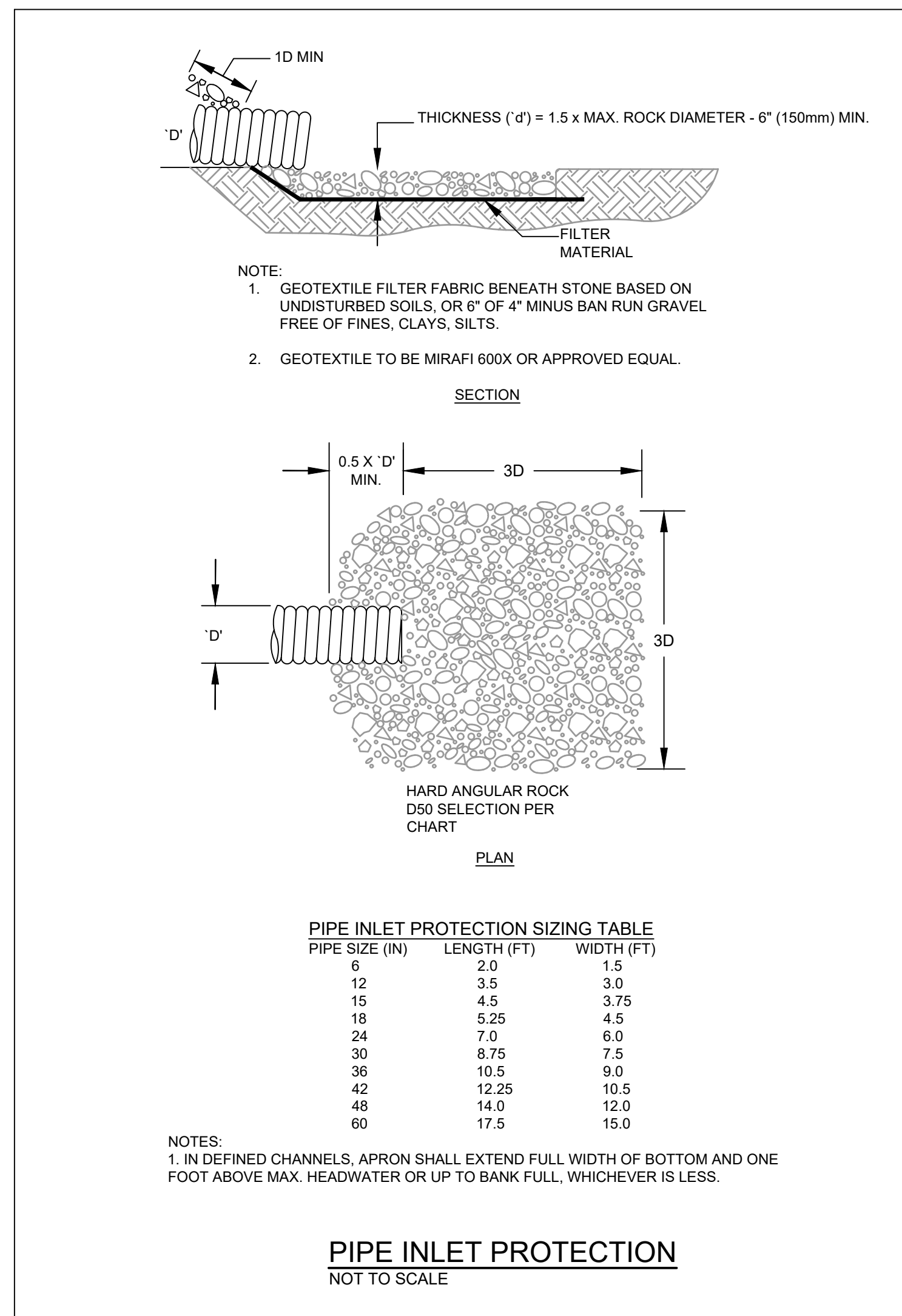
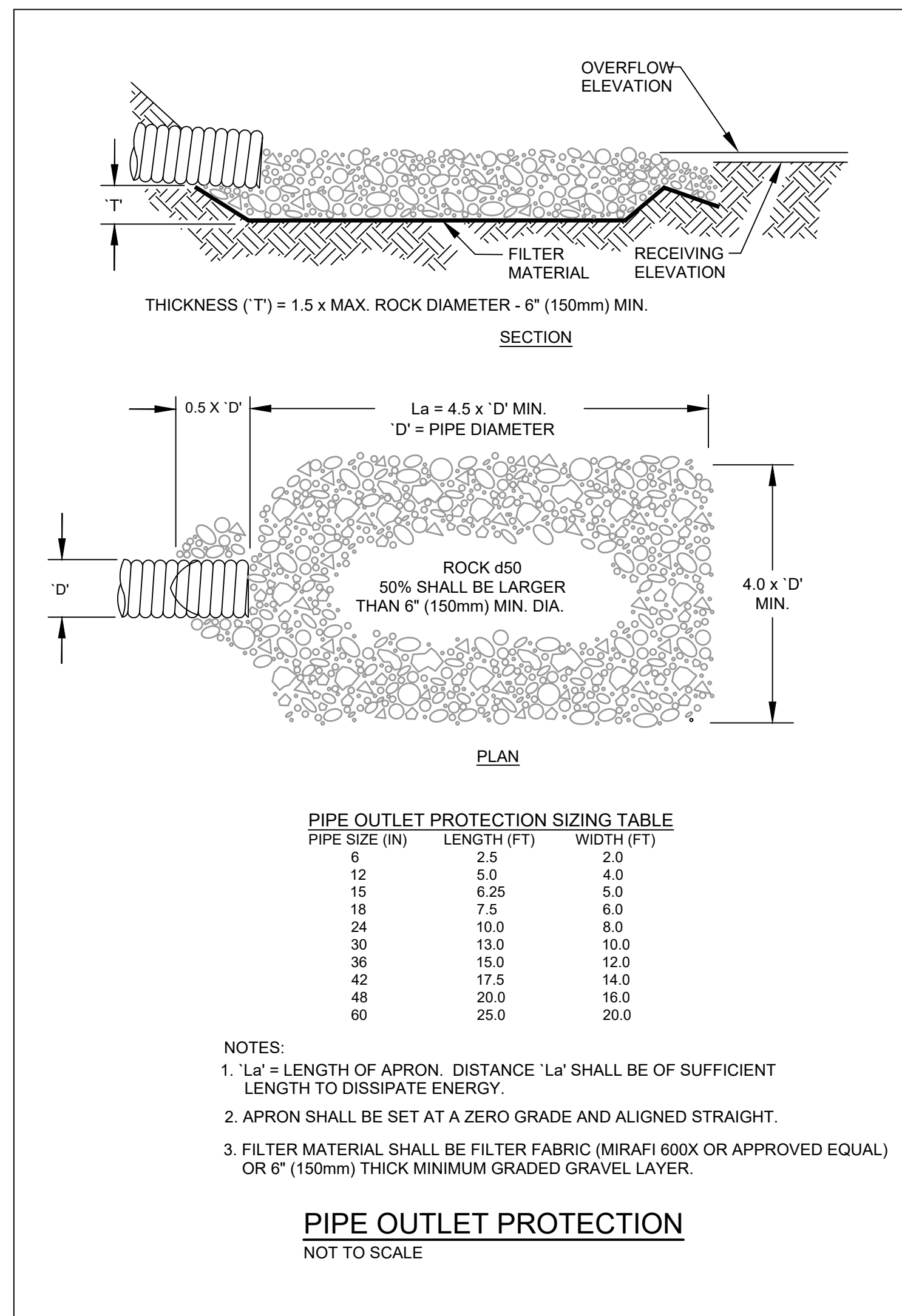
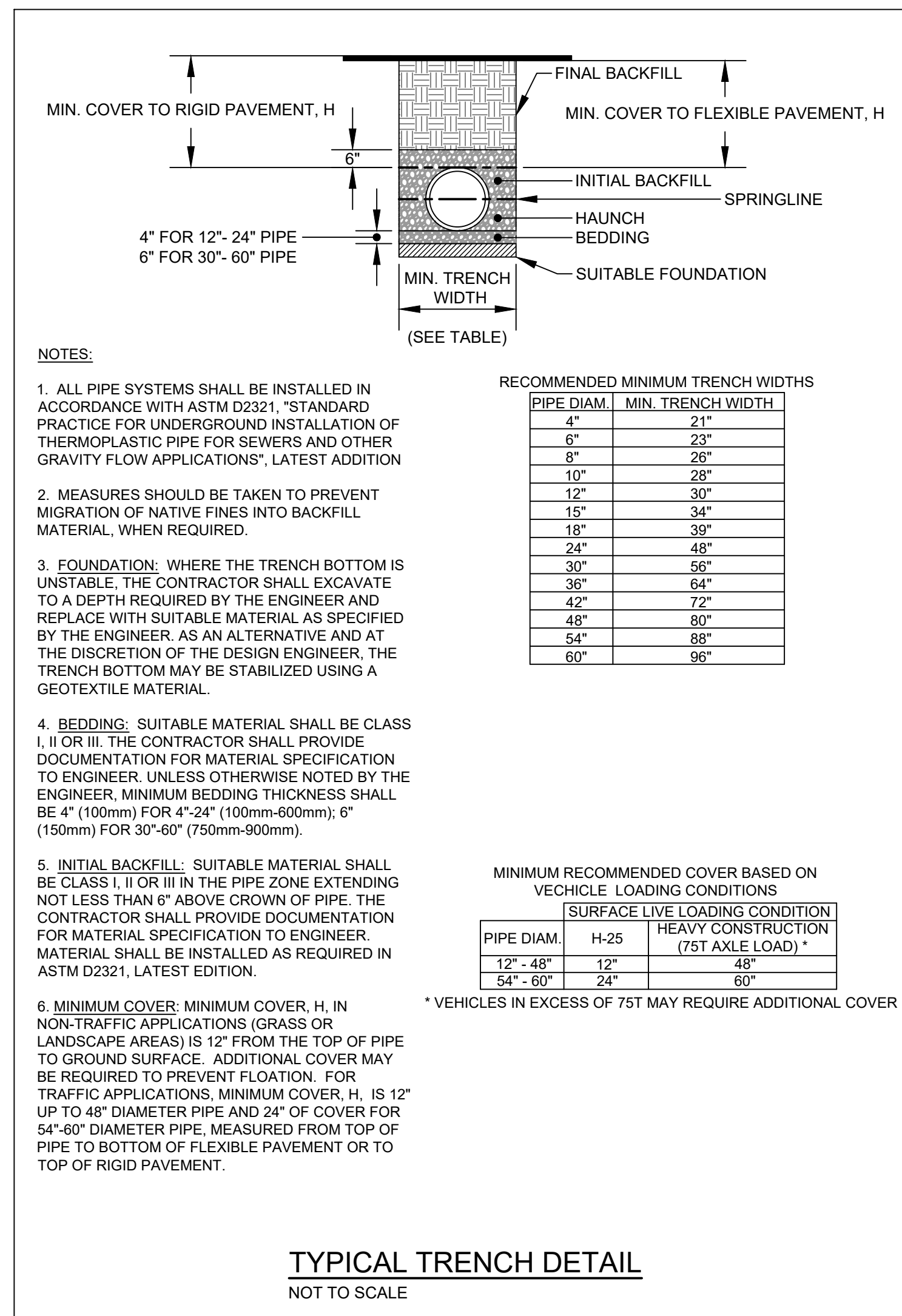
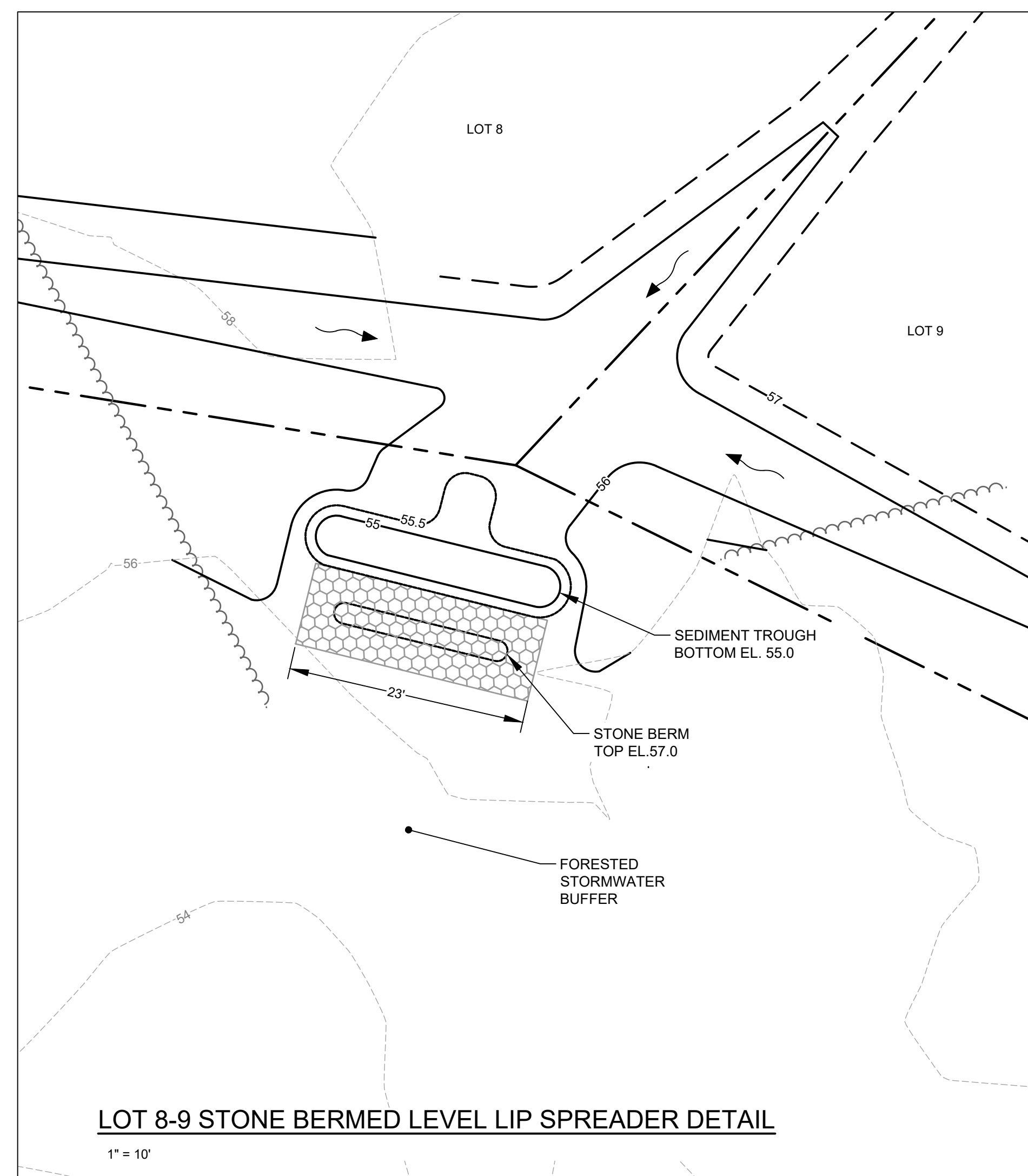
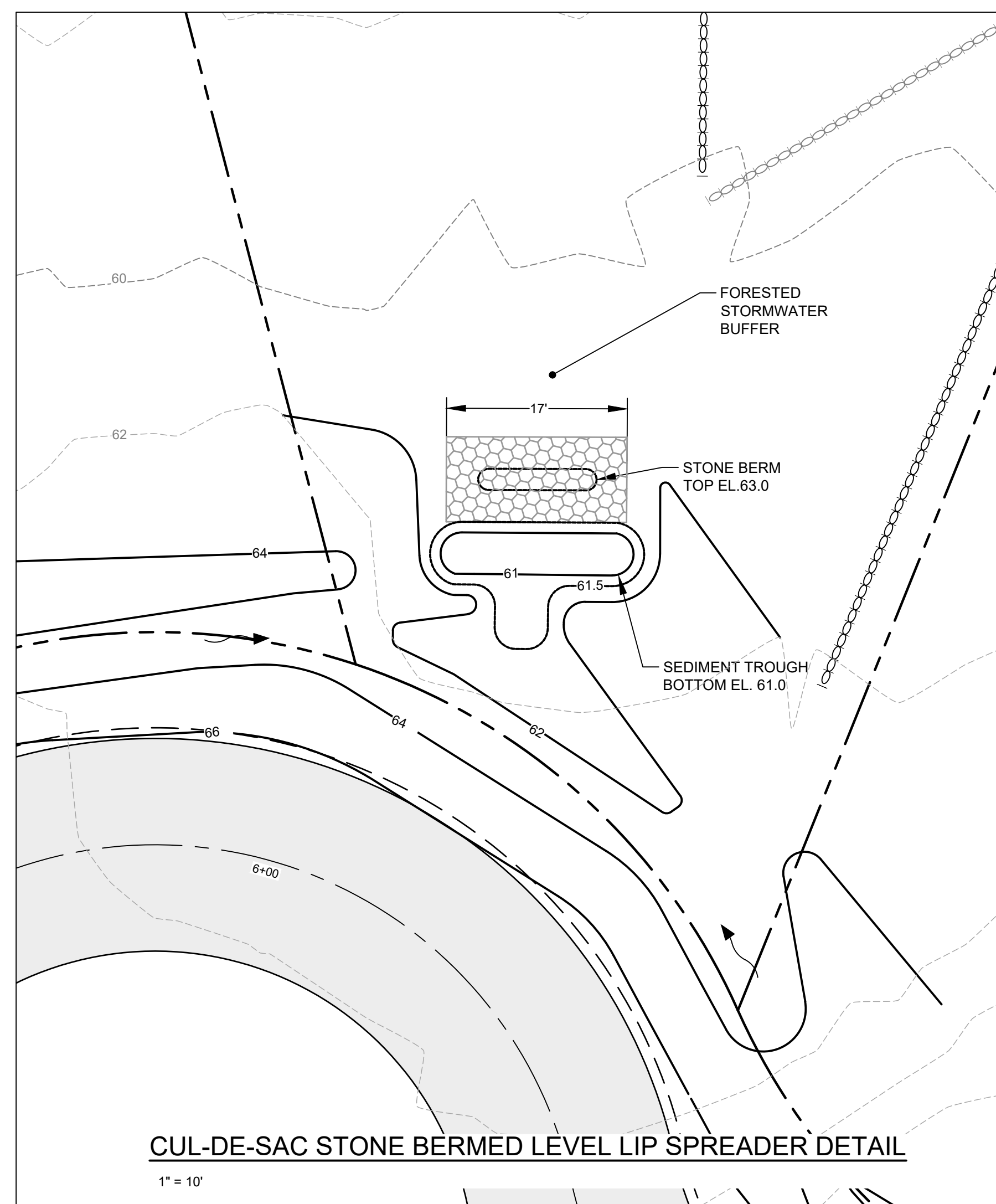
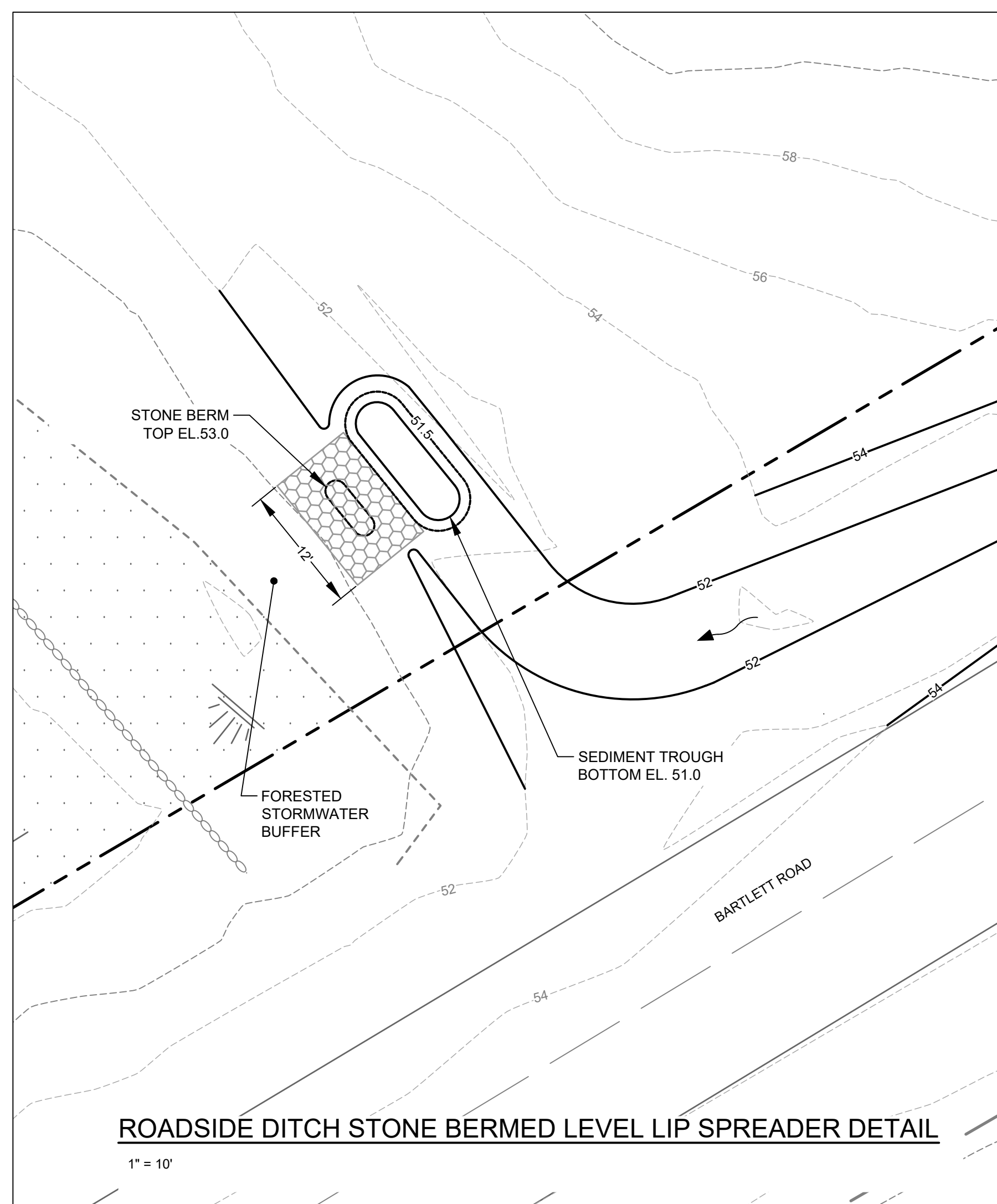
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Civil Engineering | Land Planning | Stormwater Design | Environmental Permitting

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| | |
|--------------|----------------------------|
| PROJECT: | WASHBURN FARM SUBDIVISION |
| CLIENT: | BEACHWOOD DEVELOPMENT FUND |
| SHEET TITLE: | SITE DETAILS |
| DATE: | 5/18/2023 |
| SCALE: | AS NOTED |
| DESIGNED: | MTW |
| JOB NO.: | 22-145 |
| SHEET | C-4.1 |



STATE OF MAINE
MICHAEL E. TADEMA-WIELANDT
LICENSED PROFESSIONAL ENGINEER

DATE: 12/28/2023
P.E.: MICHAEL TADEMA-WIELANDT

| NO. | DATE | REVISIONS |
|-----|------------|-----------|
| 1 | 8/3/2023 | MTW APPD |
| 2 | 10/10/2023 | MTW |
| 3 | 10/24/2023 | MTW |
| 4 | 12/28/2023 | MTW |

565 CONGRESS STREET
SUITE 201
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41 CAMPUS DRIVE
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TERRADYN
CONSULTANTS, LLC

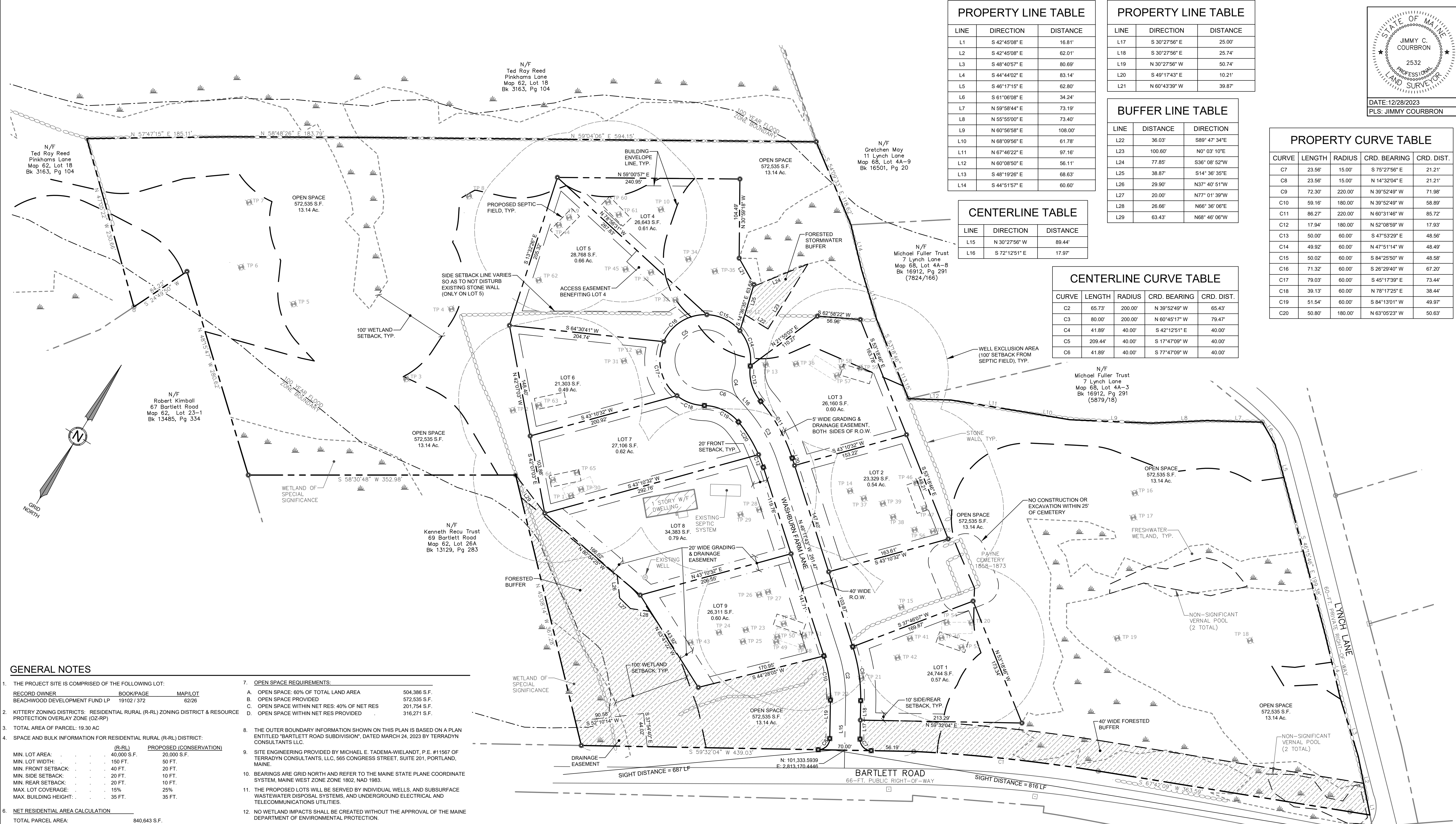
Civil Engineering | Land Planning | Stormwater Design | Environmental Permitting

PERMIT DRAWING
NOT FOR CONSTRUCTION

PROJECT: WASHBURN FARM SUBDIVISION
SHEET TITLE: DRAINAGE & UTILITY DETAILS
CLIENT: BEACHWOOD DEVELOPMENT FUND
P.O. BOX 261
KENNEBUNK, MAINE 04043

DATE: 5/18/2023
SCALE: AS NOTED
DESIGNED: MTW
JOB NO.: 22-145
SHEET: C-4.2

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PROPERTY LINE TABLE

| LINE | DIRECTION | DISTANCE |
|------|---------------|----------|
| L1 | S 42°45'08" E | 16.81' |
| L2 | S 42°45'08" E | 62.01' |
| L3 | S 48°40'57" E | 80.69' |
| L4 | S 44°44'02" E | 83.14' |
| L5 | S 46°17'15" E | 62.80' |
| L6 | S 61°06'08" E | 34.24' |
| L7 | N 59°58'44" E | 73.19' |
| L8 | N 55°55'00" E | 73.40' |
| L9 | N 60°56'58" E | 108.00' |
| L10 | N 68°09'56" E | 61.78' |
| L11 | N 67°46'22" E | 97.16' |
| L12 | N 60°08'50" E | 56.11' |
| L13 | S 48°19'26" E | 68.63' |
| L14 | S 44°51'57" E | 60.60' |

PROPERTY LINE TABLE

| LINE | DIRECTION | DISTANCE |
|------|---------------|----------|
| L17 | S 30°27'56" E | 25.00' |
| L18 | S 30°27'56" E | 25.74' |
| L19 | N 30°27'56" W | 50.74' |
| L20 | S 49°17'43" E | 10.21' |
| L21 | N 60°43'39" W | 39.87' |

BUFFER LINE TABLE

| LINE | DISTANCE | DIRECTION |
|------|----------|-------------|
| L22 | 36.03' | S89°47'34"E |
| L23 | 100.60' | N0°03'10"E |
| L24 | 77.85' | S36°08'52"W |
| L25 | 38.87' | S14°36'35"E |
| L26 | 29.90' | N37°40'51"W |
| L27 | 20.00' | N77°01'39"W |
| L28 | 26.66' | N66°36'06"E |
| L29 | 63.43' | N68°46'06"W |

CENTERLINE TABLE

| LINE | DIRECTION | DISTANCE |
|------|---------------|----------|
| L15 | N 30°27'56" W | 89.44' |
| L16 | S 72°12'51" E | 17.97' |

CENTERLINE CURVE TABLE

| CURVE | LENGTH | RADIUS | CRD. BEARING | CRD. DIST. |
|-------|---------|---------|---------------|------------|
| C2 | 65.73' | 200.00' | N 39°52'49" W | 65.43' |
| C3 | 80.00' | 200.00' | N 60°45'17" W | 79.47' |
| C4 | 41.89' | 40.00' | S 42°12'51" E | 40.00' |
| C5 | 209.44' | 40.00' | S 17°47'09" W | 40.00' |
| C6 | 41.89' | 40.00' | S 77°47'09" W | 40.00' |

PROPERTY CURVE TABLE

| CURVE | LENGTH | RADIUS | CRD. BEARING | CRD. DIST. |
|-------|--------|---------|---------------|------------|
| C7 | 23.56' | 15.00' | S 75°27'56" E | 21.21' |
| C8 | 23.56' | 15.00' | N 14°32'04" E | 21.21' |
| C9 | 72.30' | 220.00' | N 39°52'49" W | 71.98' |
| C10 | 59.16' | 180.00' | N 39°52'49" W | 58.89' |
| C11 | 86.27' | 220.00' | N 60°31'46" W | 85.72' |
| C12 | 17.94' | 180.00' | N 52°08'59" W | 17.93' |
| C13 | 50.00' | 60.00' | S 47°53'29" E | 48.56' |
| C14 | 49.92' | 60.00' | N 47°51'14" W | 48.49' |
| C15 | 50.02' | 60.00' | S 84°25'50" W | 48.58' |
| C16 | 71.32' | 60.00' | S 26°29'40" W | 67.20' |
| C17 | 79.03' | 60.00' | S 45°17'39" E | 73.44' |
| C18 | 39.13' | 60.00' | N 78°17'25" E | 38.44' |
| C19 | 51.54' | 60.00' | S 84°13'01" W | 49.97' |
| C20 | 50.80' | 180.00' | N 63°05'23" W | 50.63' |

GENERAL NOTES

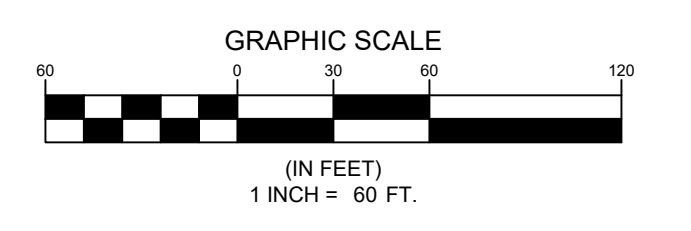
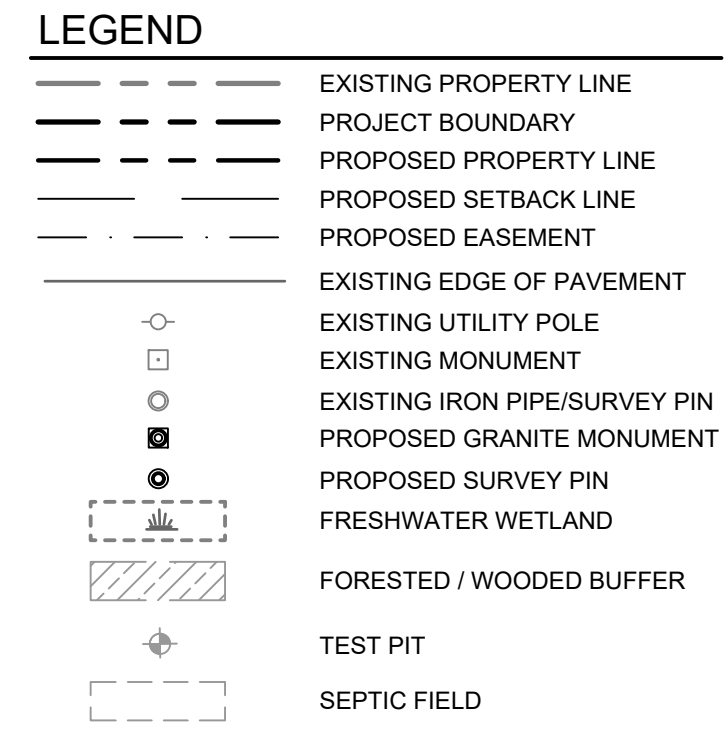
- THE PROJECT SITE IS COMPRISED OF THE FOLLOWING LOT:

| RECORD OWNER | BOOK/PAGE | MAP/LOT |
|-------------------------------|-------------|---------|
| BEACHWOOD DEVELOPMENT FUND LP | 19102 / 372 | 62/26 |
- KITTERY ZONING DISTRICTS: RESIDENTIAL RURAL (R-RL) ZONING DISTRICT & RESOURCE PROTECTION OVERLAY ZONE (OZ-RP)
- TOTAL AREA OF PARCEL: 19.30 AC
- SPACE AND BULK INFORMATION FOR RESIDENTIAL RURAL (R-RL) DISTRICT:

| (R-RL) | PROPOSED (CONSERVATION) |
|-----------------------|---------------------------|
| MIN. LOT AREA: | 40,000 S.F. / 20,000 S.F. |
| MIN. LOT WIDTH: | 150 FT. / 50 FT. |
| MIN. FRONT SETBACK: | 40 FT. / 20 FT. |
| MIN. SIDE SETBACK: | 20 FT. / 10 FT. |
| MIN. REAR SETBACK: | 20 FT. / 10 FT. |
| MAX. LOT COVERAGE: | 15% / 25% |
| MAX. BUILDING HEIGHT: | 35 FT. / 35 FT. |
- NET RESIDENTIAL AREA CALCULATION

| | |
|--------------------------------------|--|
| TOTAL PARCEL AREA: | 840,643 S.F. |
| LESS THE FOLLOWING UNSUITABLE AREAS: | |
| LAND BELOW HIGH TIDE: | 0 S.F. |
| LAND IN FLOOD PLAIN: | 17,785 S.F. (NOT INCL. WETLANDS) |
| WETLANDS: | 90,724 S.F. |
| 50% OF AREA WITHIN WETLAND SETBACK: | 59,934 S.F. (NOT INCL. OTHER AREAS) |
| LAND IN FILLED TIDAL AREAS: | 0 S.F. |
| LAND IN EXISTING R.O.W.: | 0 S.F. |
| LAND IN PROPOSED R.O.W.: | 31,737 S.F. |
| LAND ISOLATED BY BARRIER: | 0 S.F. |
| LAND ZONED COMMERCIAL: | 0 S.F. |
| STEEP SLOPES: | 0 S.F. |
| BEDROCK & POORLY DRAINED SOILS: | 2,436 S.F. (NOT INCL. WETLAND OR FLOOD) |
| 50% SOMEWHAT POORLY DRAINED SOILS: | 46,863 S.F. (NOT INCL. WETLAND OR FLOOD) |
| CEMETERY: | 6,965 S.F. |
| ZONED COMMERCIAL FISHERIES: | 0 S.F. |
| OPEN SPACE: | 0 S.F. |
| TOTAL UNSUITABLE AREA: | 256,264 S.F. |
| TOTAL NET RESIDENTIAL AREA: | 584,379 S.F. |
| MIN LOT DENSITY: | 40,000 S.F. |
| MAXIMUM LOTS: | 14 |
| PROPOSED LOTS: | 9 |
- OPEN SPACE REQUIREMENTS:

| | |
|--|--------------|
| A. OPEN SPACE: 60% OF TOTAL LAND AREA | 504,386 S.F. |
| B. OPEN SPACE PROVIDED | 572,535 S.F. |
| C. OPEN SPACE WITHIN NET RES: 40% OF NET RES | 201,754 S.F. |
| D. OPEN SPACE WITHIN NET RES PROVIDED | 316,271 S.F. |
- THE OUTER BOUNDARY INFORMATION SHOWN ON THIS PLAN IS BASED ON A PLAN ENTITLED "BARTLETT ROAD SUBDIVISION", DATED MARCH 24, 2023 BY TERRADYN CONSULTANTS LLC.
- SITE ENGINEERING PROVIDED BY MICHAEL E. TADEMA-WIELANDT, P.E. #11567 OF TERRADYN CONSULTANTS, LLC, 565 CONGRESS STREET, SUITE 201, PORTLAND, MAINE.
- BEARINGS ARE GRID NORTH AND REFER TO THE MAINE STATE PLANE COORDINATE SYSTEM, MAINE WEST ZONE ZONE 1802, NAD 1983.
- THE PROPOSED LOTS WILL BE SERVED BY INDIVIDUAL WELLS, AND SUBSURFACE WASTEWATER DISPOSAL SYSTEMS, AND UNDERGROUND ELECTRICAL AND TELECOMMUNICATIONS UTILITIES.
- NO WETLAND IMPACTS SHALL BE CREATED WITHOUT THE APPROVAL OF THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- A PORTION OF THE SITE IS WITHIN THE 100-YEAR FLOOD ZONE AS DEPICTED ON THE FLOOD INSURANCE RATE MAP FOR THE TOWN OF KITTERY, MAINE, YORK COUNTY, MAP NUMBER 2301710002C, REVISED JULY 5, 1984.
- WETLAND BOUNDARIES DEPICTED ON THIS PLAN WERE DELINEATED BY LONGVIEW PARTNERS, LLC IN JULY, AUGUST, SEPTEMBER, & OCTOBER 2021.
- LONGVIEW PARTNERS, LLC PERFORMED SITE INVESTIGATIONS FOR THE PRESENCE OF VERNAL POOL HABITAT IN THE SPRING OF 2023. TWO VERNAL POOLS WERE IDENTIFIED AS NON-SIGNIFICANT AND REPORTED AT THAT TIME.
- LONGVIEW PARTNERS, LLC PREPARED A HIGH INTENSITY SOIL SURVEY ON THE SITE, DATED DECEMBER, 2022. TEST PITS WERE OBSERVED ON 10/19/2023.
- THERE SHALL BE NO CONVEYANCE OF ANY LOT OR INTEREST IN ANY BUILDING PERMIT UNTIL A PERFORMANCE GUARANTEE(S) COVERING THE COST OF ALL REQUIRED IMPROVEMENTS IS PROVIDED AND APPROVED BY THE TOWN OF KITTERY.
- THE DEVELOPMENT IS SUBJECT TO THE FINDINGS OF FACT, CONCLUSIONS, DECISIONS, AND CONDITION OF APPROVAL AS APPROVED BY THE TOWN OF KITTERY PLANNING BOARD AND RECORDED IN THE YORK COUNTY REGISTRY OF DEEDS.
- THE NUMBERED LOTS SHOWN HEREON SHALL ONLY BE ACCESSED BY DRIVEWAYS OFF OF WASHBURN LANE.
- WASHBURN LANE SHALL REMAIN PRIVATE AND SHALL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
- SIGHT DISTANCE MEASUREMENTS WERE TAKEN IN THE FIELD BY TERRADYN CONSULTANTS, LLC ON SEPTEMBER 21, 2023.
- WETLAND BOUNDARIES SHALL BE IDENTIFIED WITH PERMANENT SIGNAGE EVERY 50' ALONG BOUNDARY.
- NO TREE CLEARING OR DISTURBANCE IS ALLOWED WITHIN 100' OF WETLANDS EXCEPT AS SHOWN ON THE APPROVED DRAWINGS AND AS NECESSARY TO CONSTRUCT THE ROAD AND STORMWATER MANAGEMENT INFRASTRUCTURE.



TOWN OF KITTERY PLANNING BOARD SUBDIVISION APPROVAL

DATE _____

CHAIRPERSON _____

ATTEST _____ REGISTER

STATE OF MAINE
YORK COUNTY REGISTRY OF DEEDS

RECEIVED _____ 20____

AT _____ M. AND RECORDED IN PLAN BOOK _____ PAGE _____

PROJECT: WASHBURN FARM SUBDIVISION
BARTLETT ROAD, KITTERY, MAINE

SHEET TITLE: SUBDIVISION PLAN

CLIENT: BEACHWOOD DEVELOPMENT FUND
P.O. BOX 281
KENNEBUNK, MAINE 04043

DATE: 5/18/2023

SCALE: 1" = 60'

DESIGNED: MTW

JOB NO: 22-145

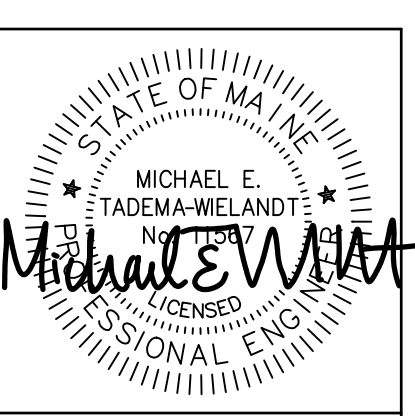
SHEET C-3.0

565 CONGRESS STREET
SUITE 201
PORTLAND, ME 04102

41 CAMPUS DRIVE
SUITE 301
NEW GLOUCESTER, ME 04260

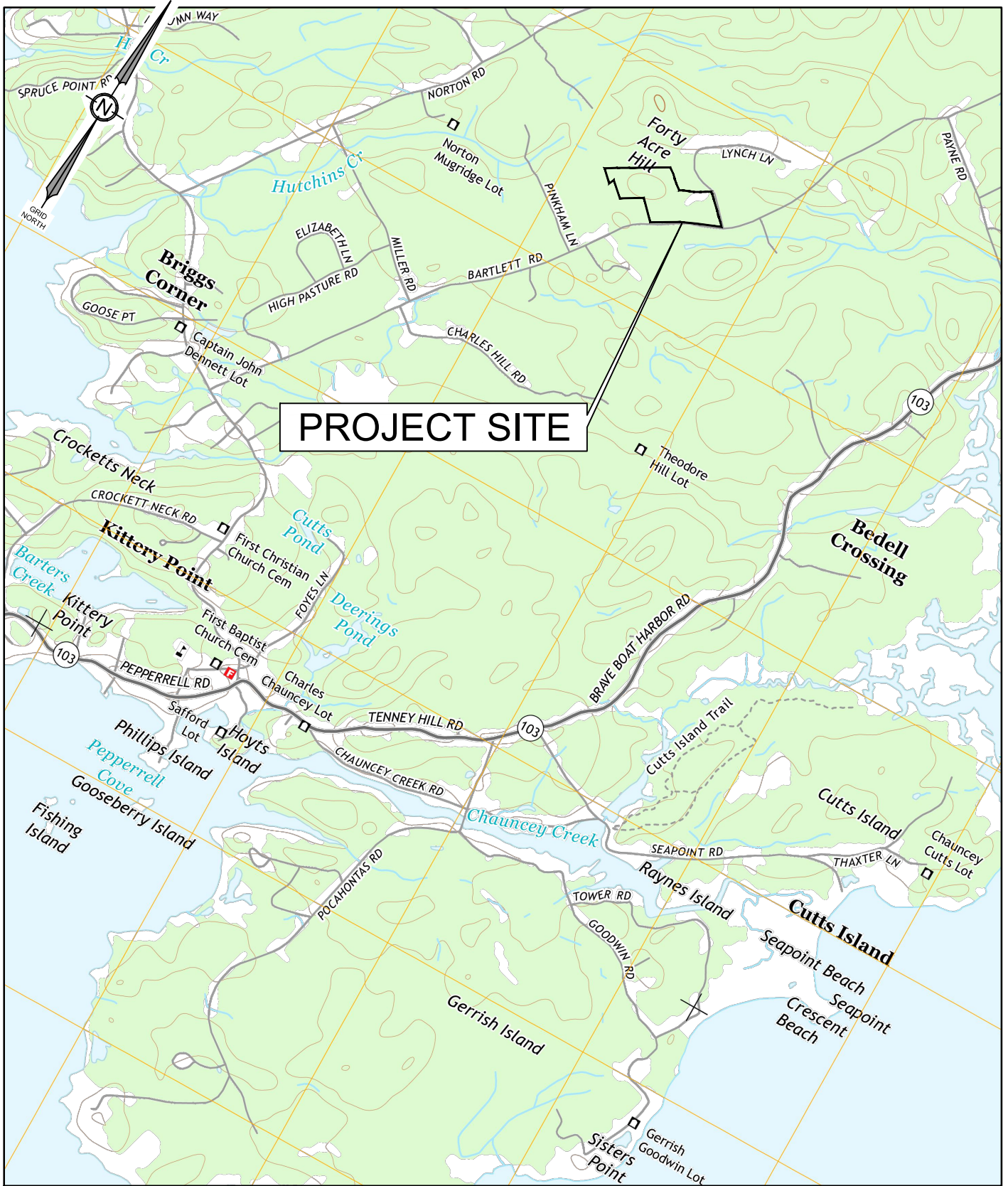
OFFICE: (207) 926-5111 FAX: (207) 221-1317
www.terradynconsultants.com

PERMIT DRAWING NOT FOR CONSTRUCTION



DATE: 12/28/2023
P.L.S: JIMMY COURBRON

| NO. | DATE | REVISIONS |
|-----|------------|---|
| 4 | 12/28/2023 | SUBMITTED TO KITTERY FOR FINAL SUBDIVISION REVIEW |
| 3 | 10/24/2023 | REVISED BASED ON PEER REVIEW COMMENTS |
| 2 | 10/10/2023 | REVISED BASED ON PEER REVIEW COMMENTS |
| 1 | 8/3/2023 | SUBMITTED TO KITTERY FOR PRELIMINARY SUBDIVISION REVIEW |



PROJECT SITE

USGS KITTERY QUADRANGLE

PROJECT:
 BARTLETT ROAD SUBDIVISION
 77 BARTLETT ROAD, KITTERY, MAINE

PREPARED FOR:
 BEACHWOOD DEVELOPMENT FUND LP
 PO BOX 260
 KENNEBUNK, MAINE 04043



ADDRESS:
 41 CAMPUS DRIVE, SUITE 301
 NEW GLOUCESTER, ME 04260

PHONE:
 (207) 926-5111

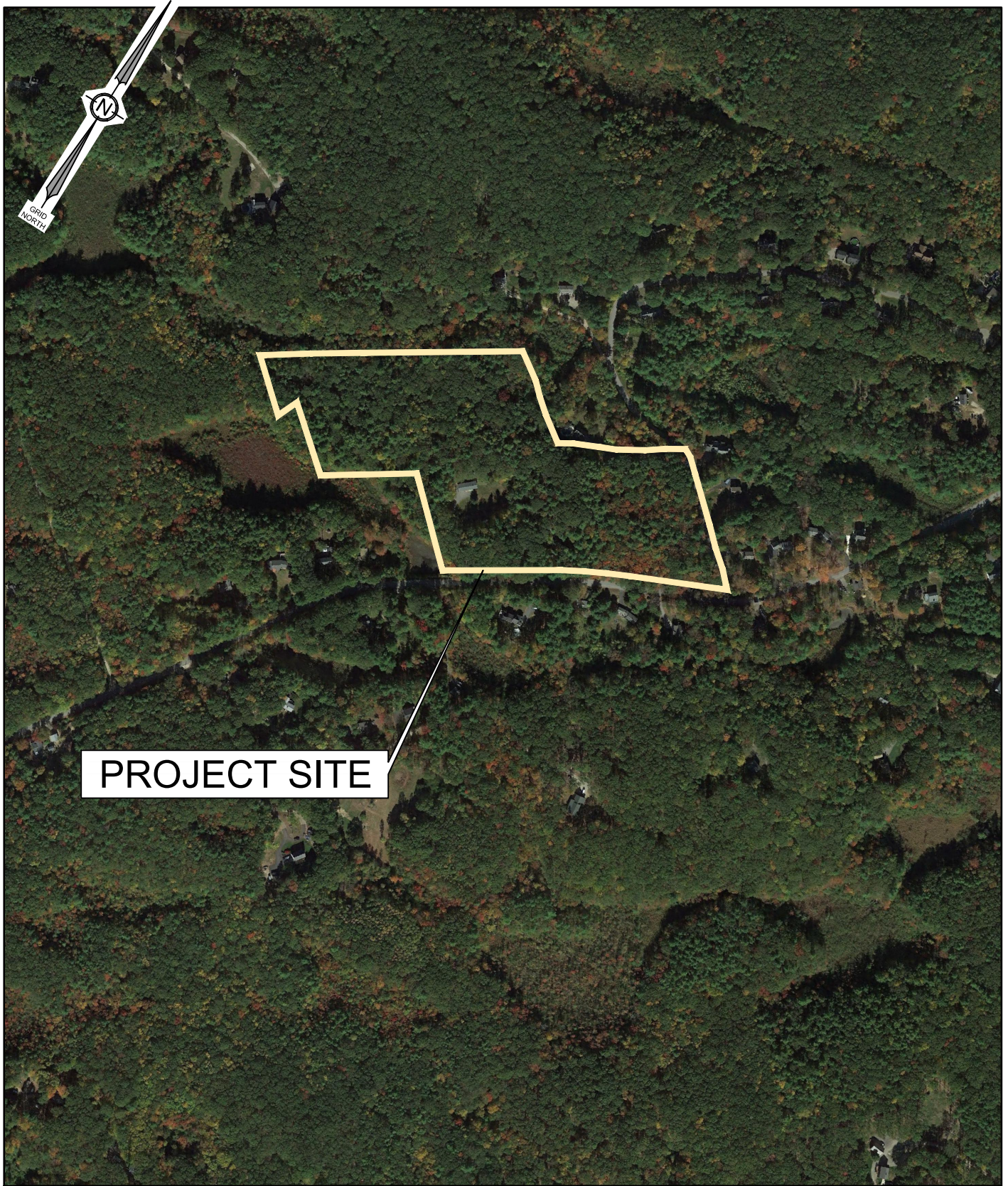
WEB SITE:
www.terradynconsultants.com

PROJECT NO.
 22-145

DATE
 3/20/2023

SCALE
 1" = 2,000'

SHEET
 1
 OF
 5



PROJECT SITE

| | | | | |
|---|---|---|--------------------------------------|-----------------------------------|
| <p>AERIAL MAP</p> |  <p>TERRADYN CONSULTANTS, LLC</p> | <p>ADDRESS: 41 CAMPUS DRIVE, SUITE 301 NEW GLOUCESTER, ME 04260 PHONE: (207) 926-5111 WEB SITE: www.terradync consultants.com</p> | <p>PROJECT NO. 22-145</p> | <p>SHEET 2 OF</p> |
| <p>PROJECT: BARTLETT ROAD SUBDIVISION 77 BARTLETT ROAD, KITTERY, MAINE</p> | | <p>DATE 3/20/2023</p> | <p>5</p> | |
| <p>PREPARED FOR: BEACHWOOD DEVELOPMENT FUND LP PO BOX 260 KENNEBUNK, MAINE 04043</p> | | <p>Civil Engineering Land Surveying Geomatics Stormwater Design Land Planning Environmental Permitting</p> | | <p>SCALE 1" = 500'</p> |



December 28, 2023

Project #22-145

Jason Garnham, Director of Planning & Development
Town of Kittery
200 Rogers Road
Kittery, ME 03904

**SUBJECT: WASHBURN FARM SUBDIVISION
FINAL PLAN APPLICATION**

Dear Jason:

On behalf of Beachwood Development Fund LP, attached is a Final Subdivision Plan application for Washburn Farm Subdivision, a proposed 9-lot single-family conservation subdivision located at 77 Bartlett Road in Kittery. The project received preliminary approval from the planning board on November 16, 2023. The subdivision application form is included in Attachment 1, and the current deed for the property is provided in Attachment 2. The applicant and owner of the property is Beachwood Development Fund LP.

EXISTING PROJECT SITE

The project site is approximately 19.30 acres in size and is identified as Lot 26 on Kittery Tax Map 62. The site is located in the Residential-Rural District with a small area in the Resource Protection Overlay Zone.

The parcel contains an existing single-family home with a paved driveway connecting to Bartlett Road and a small cemetery in the eastern part of the site. Most of the parcel is undeveloped woodland with pockets of freshwater wetlands. Several stone walls are located throughout the site.

A wetland and vernal pool study was conducted on the site by Longview Partners in the summer of 2022. There are approximately 2 acres of forested freshwater wetlands on the site. A wetland on the southern site boundary meets the Maine DEP's criteria for a "Wetland of Special Significance". The wetlands to the southwest and north of the site and the wetland located in the eastern portion of the site are greater than one acre in size and are subject to the applicable setback requirements of Table 16.5.30 in the Kittery Land Use and Development Code. A mapped flood zone is also located along the southern edge of the site.

Two potential vernal pools were identified on the site and studied in the spring of 2023 to determine if they have characteristics to be considered significant wildlife habitat by the Maine Department of Environmental Protection. The vernal pools were determined to be not significant

and are regulated as freshwater wetlands. More information on the vernal pools is located in Attachment 6.

Longview Partners also conducted a High Intensity Soil Survey of the site. Native soils are primarily loamy glacial till and bedrock outcrops in upland areas with wetland soils in low-lying areas. A copy of the High Intensity Soil Survey is provided in Attachment 4.

The net residential area of the parcel is 13.21 acres, and the minimum density in the R-RL district is 40,000 square feet per dwelling unit. According to these calculations, which are provided directly on the attached subdivision plans, the site can support up to 14 lots.

PROPOSED PROJECT

The applicant is proposing to develop a nine-lot conservation subdivision, including an 808 linear-foot road, stormwater management infrastructure, underground utilities, and pedestrian accommodations.

The proposed road and lots are located through the central portion of the site, preserving the wetlands and adjacent upland areas in the northern, western, and eastern areas of the site. Proposed lots were designed to avoid impacts to freshwater wetlands, the existing cemetery, and stone walls throughout the site.

The proposed road is approximately 808 linear feet in length, ending in a cul-de-sac. Nine proposed lots will all be accessed from the new road. Lot sizes range from approximately 21,000 square feet (Lot 6) to 29,000 square feet (Lot 5). The existing house on the property will be located on proposed Lot 8. The existing driveway from Bartlett Road will be removed, and a new driveway from the proposed road will be constructed to access the house on Lot 8. The previously existing driveway will be revegetated with a combination of native plants.

The proposed road has been designed to meet the town's Class II Private Street standard with a 3 foot widened shoulder designated with a painted stripe on the west side for pedestrian movement.

Approximately 13 acres will be preserved as open space, including the existing cemetery and all freshwater wetlands and vernal pools on the site. The majority of the existing stone walls on the site are located within the proposed open space. The lot line between lots 5 and 6 follows an existing stone wall that will be protected. Breaks in the existing stone walls will only be required for the proposed road and for driveways to lots 4 and 5.

Lots will be served by individual subsurface wastewater disposal fields and wells. The existing house on lot 8 is expected to continue to use the existing septic system and well. Electric and telecommunications services will be installed underground.

Longview Partners has completed test pits and prepared septic designs for each of the new lots, with the exception of Lot 8, in accordance with the performance standards of the Kittery Subdivision Ordinance. Information on soils, including test pit logs, HHE-200 forms, and a copy of the high-intensity soil survey are provided in Attachment 4.

Mark Cenci Geologic, Inc. has prepared a Ground Water Availability Assessment of the site and determined that the aquifer recharge capacity of the project site exceeds the expected groundwater withdrawal from the proposed wells. A copy of the report is provided in Attachment 5.

Stormwater runoff from the roadway will be managed with open ditches. The project was designed to meet the stormwater performance standards of the Town of Kittery Subdivision Regulations. Runoff from the cul-de-sac will be discharged to a level spreader and into the wetland system on the site's northern boundary. The remainder of the proposed road will drain to vegetated swales located on either side of the road, and into two level lip spreaders which discharge into the wetland system on the site's southern boundary. The stormwater management system will attenuate peak flow rates from the developed areas so peak discharge rates from the site will be limited to pre-development levels. A stormwater management report has been prepared for the project and is provided in Attachment 7.

UPDATES AND CHANGES TO FINAL PLANS

The following updates have been made to the project drawings and application materials to address final comments from the Planning Board and the town's peer review engineer.

1. A note has been added to the Subdivision Plan (Note 22) requiring that permanent signage be installed at 50' intervals along on-site wetland boundaries.
2. Notes have been added to the Subdivision Plan (Note 23) and the Homeowners Association Documents (Sections 3.20 & 4.06) prohibiting cutting or land disturbance with 100' of wetlands, except for areas shown on the approved plans for road construction and stormwater management infrastructure. Draft Homeowners Association Documents are provided in Attachment 12.
3. Sheet C-3.2 has been added to the plan set and shows the following information:
 - Proposed plant species and locations for the revegetation of the existing driveway have been specified by landscape architect Anthony Muench. Native species will be planted and are intended to "re-forest" the area and further buffer the open water wetland located at the southern boundary of the site.
 - The swale on the north side of Bartlett Road will be revegetated with loam, seed, and erosion control fabric. This will provide additional treatment for stormwater runoff before it enters the open water wetland south of the project site.
 - A level spreader has been added at the end of the Bartlett Road swale to slow runoff and convert it back to sheet flow before it enters the open water wetland.
 - The proposed silt barrier located adjacent to the open water wetland has been revised and is now a double row for extra sedimentation protection in this critical location.
 - The level spreader located at the back of lots 8 and 9 is now specified to be used as a temporary sedimentation basin during construction.

4. The Stormwater Management Report has been updated to address the final comments from the town's peer review engineer.
 - Time of Concentration flow paths have been updated on the Watershed Plans to be consistent with the stormwater model.
 - Culvert sizing analysis has been updated within the Stormwater Management Report. The updated analysis concludes that both proposed culverts have the capacity to convey the 25-year storm event without overtopping.

CLOSURE

In addition to the information provided above, additional materials are attached to meet the submission requirements of the Kittery Subdivision Regulations. We request to be added to the Planning Board's January 25th meeting agenda to present this information to the Board. If you have any questions or require additional information, please contact me at 207-632-9010 or mtw@terradyndynconsultants.com.

Sincerely,
TERRADYN CONSULTANTS, LLC



Michael Tadema-Wielandt, P.E.
Vice President

cc. Geoff Bowley, Beachwood Development LP

Attachments:

- 1 – Application Forms & Agent Authorization Letter
- 2 – Current Property Deed
- 3 – Existing Conditions Figures
- 4 – High Intensity Soil Survey, Test Pit Logs, & HHE 200 Forms
- 5 – Groundwater Assessment
- 6 – Vernal Pool Assessment Methodology & Summary
- 7 – Stormwater Management Report
- 8 – Vehicle Trip Generation Estimate
- 9 – Financial Capability
- 10 – Correspondence with State Agencies
- 11 – Abutter Notices
- 12 – Draft HOA Documents

Attachment 1

Application Form & Agent Authorization Letter



TOWN OF KITTERY MAINE

TOWN PLANNING AND DEVELOPMENT DEPARTMENT

200 Rogers Road, Kittery, Maine 03904

PHONE: (207) 475-1323

Fax: (207) 439-6806

www.kittery.org

APPLICATION: SUBDIVISION PLAN REVIEW

| | | | | | | | | | |
|--------------------------------------|---|--|---|---|---|--|---|-----------------|-------------|
| FEE FOR REVIEW: | <input checked="" type="checkbox"/> \$500.00 PLUS | <input checked="" type="checkbox"/> \$50.00/LOT OR DWELLING UNIT | <input type="checkbox"/> Minor Subdivision: not more than 4 lots <input checked="" type="checkbox"/> Major Subdivision: 5 or more lots | Fee Paid: \$ _____ Date: _____ Escrow Fee Paid: \$ _____ Date: _____ | | | | | |
| PROPERTY DESCRIPTION | Parcel ID | Map | 62 | Lot | 26 | Zone(s): Base: | R-RL _____ | Total Land Area | 19.11 acres |
| | Physical Address | 77 Bartlett Road | | | | Overlay | OZ-RP _____ Yes ___ No <input checked="" type="checkbox"/> | | |
| PROPERTY OWNER'S INFORMATION | Name | Beachwood Development Fund LP | | | Mailing Address | P.O. Box 261 Kennebunk ME 04043 | | | |
| | Phone | 207-985-3646 | | | | | | | |
| | Fax | | | | | | | | |
| | Email | geoff@bowleybuilders.com | | | | | | | |
| APPLICANT'S AGENT INFORMATION | Name | Michael Tadema-Wielandt, P.E. | | | Name of Business | Terradyn Consultants, LLC | | | |
| | Phone | 207-632-9010 | | | Mailing Address | 565 Congress Street Suite 201 Portland ME 04101 | | | |
| | Fax | | | | | | | | |
| | Email | mtw@terradyconsultants.com | | | | | | | |
| PROJECT DESCRIPTION | Existing Use(s): <u>The existing parcel is wooded with pockets of freshwater wetlands, and contains a single family residential home with a paved driveway accessing Bartlett Road. An old cemetery is located centrally to the southern half of the site.</u> | | | | | | | | |
| | Number of Proposed Lots | | 9 | | Subdivision Name | | Washburn Subdivision | | |
| | Proposed Subdivision: | | | | | | | | |
| | Design: (check) | ___ Conventional | | Responsibilities: (check) | ___ Total Development | | ___ Landscaping | | |
| | | <input checked="" type="checkbox"/> Cluster Development | | | ___ Other | | <input checked="" type="checkbox"/> Road | | |
| | Ownership: (check) | <input checked="" type="checkbox"/> Fee- Simple | | | <input checked="" type="checkbox"/> Post-Construction Storm Water Runoff System Maintenance | | | | |
| ___ Condominium | | | | | | | | | |
| Homeowner's Association | <input checked="" type="checkbox"/> YES ___ NO | | | | | | | | |
| | | | | | | | | | |

WAIVER REQUEST (Submittal Information or Development Standard)

| | Ordinance Section | Describe why this request is being made. |
|---------|--|---|
| Waivers | ***EXAMPLE*** 16.32.560 (B)- OFFSTREET PARKING. | ***EXAMPLE*** Requesting a waiver of this ordinance since the proposed professional offices have a written agreement with the abutting Church owned property to share parking. |
| | Table 1 Design and Construction Standards | Waiver to provide a paved pedestrian way instead of sidewalk, there are no connecting sidewalks within the vicinity of the site. |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Related Kittery Land Use and Development Code Provisions:

16.10.8.2.5 Conditions or Waivers.

Conditions required by the Planning Board at the final plan review phase must have been met before the final plan may be given final approval unless so specified in the condition or specifically waived, upon written request by the applicant, by formal Planning Board action wherein the character and extent of such waivers which may have been requested are such that they may be waived without jeopardy to the public health, safety and general welfare.

16.7.4.1 Objectives Met. In granting modifications or waivers, the Planning Board must require such conditions as will, in its judgment, substantially meet the objectives of the requirements so waived or modified.

ABUTTER NOTIFICATION

16.10.5.1.1. Preliminary Plan Application Filing and Completeness Review. ... The application must be accompanied by a Plan and the required fee together with a certification the applicant has notified abutters by mail of the filing of the Plan application for approval.

Submitted Application must include a list showing the names and addresses of the abutters notified and date mailed.

The Abutter Notice must include a copy of page one and where applicable page 2 of a signed Application.

| | | | |
|--|-------|------------------------------------|-------|
| 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. | | | |
| Applicant's Agent Signature: | _____ | Owner's Agent Signature: | _____ |
| Date: | _____ | Date: | _____ |

Minimum Plan Submittal Requirements

- 15 COPIES OF THE SUBDIVISION PLAN APPLICATION AND PLAN – 5 PLAN COPIES MUST BE 24" X 36"
- 1 PDF OF THE SUBDIVISION PLAN SHOWING GPS COORDINATES

PRIOR TO STARTING THE REVIEW PROCESS, THE PLANNING BOARD WILL DECIDE WHETHER SUFFICIENT INFORMATION HAS BEEN PROVIDED AND WILL VOTE TO *DETERMINE COMPLETENESS/ACCEPTANCE.*

NOTE: THE APPLICANT IS RESPONSIBLE TO PRESENT A CLEAR UNDERSTANDING OF THE PROJECT.

- A) Paper size:
 - No less than 11" X 17" (reduced) or greater than 24" X 36" (full)
- B) Scale size:
 - Under 10 acres: no greater than 1" = 30'
 - 10 + acres: 1" = 50'
- C) Title block:
 - Applicant's name and address
 - Name of preparer of plans with professional information and professional seal
 - Parcel's tax map identification (map – lot)
 - Date of plan preparation
- D) Boundary survey performed and sealed by licensed surveyor:
 - Identify all existing boundary markers
 - Show all proposed boundary monuments (per ordinance)
- E) Provide orientation:
 - Arrow showing true north and magnetic declination
 - Graphic scale Parcel Owners and map and lot
 - Deed docket and page numbers Draft Deed of Covenants
 - Signature block for planning board
- F) Show location and description of:
 - Elevations of dwelling units. If applicable
 - All structures and accesses within 100 feet
- G) Show parcel data:
 - Zoning District(s) Lots Lot Widths Lot Depths
 - Street frontage Building setback lines Lot Areas
 - Rights-of-way ROW area Exist. & new street names
 - Wetlands Wetland area Wetland setbacks
 - Common tracts Easements parcel areas
 - Shoreland Zoning setbacks undisturbed areas
 - Note on the subdivision plan regarding areas to be taped off and protected until project construction is completed.
- H) Show names and addresses of all owners of record on abutting parcels and the assessor's map and lot numbers.
- I) Label all zoning districts abutting the property boundaries.
- J) Show locations of natural physical features such as water bodies, watercourses, forest cover, and ledge outcroppings.
- K) Show the location of existing and proposed Utilities and identify which utilities are to be privately owned/ municipally owned:
 - Overhead Electric underground electric
 - Water mains Wells Gas mains Cable TV
 - Sewer mains Test pits Septic tanks Leach fields
 - Storm drain lines Catch basins Culverts Gutters
 - Stormwater storage basins Rain gardens
 - Nearest fire hydrant

- L) Indicate required landscaping including:
 - Type of plant material Plant/Tree sizes
 - Placement Irrigation systems
- M) Show natural and historical topography:
 - Rock walls Railroad beds
 - The location of all natural features or site elements to be preserved.
- N) Provide a vicinity map and aerial photograph at a scale not more than **400 feet to the inch** showing the relation to other properties and geographic features and show:
 - All the area within five hundred (500) feet of the boundary line of the proposed development including roads, geographic features, natural resources (wetlands, etc.), historic sites, applicable comprehensive plan features such as proposed park locations, land uses, Zones and other features;
 - Any smaller area between the tract and all existing streets, provided any part of such a street used as part of the perimeter for the vicinity map is at least five hundred (500) feet from any boundary of the proposed development.
- O) Show the locations of any:
 - Parks Preserved Open space Conservation easements
 - Note on the subdivision plan regarding areas to be dedicated for public use and conditions of such dedication.
- P) Identify and locate each:
 - Easements Rights-of-way Street alignments
 - All intersecting property lines within 50 feet of the parcel.
- Q) Include plans, profiles and typical sections of all roads and other paved ways, including all relevant street data.
 - Intersections or Distance to nearest intersection
 - Driveways onsite Distance to nearest driveway
 - Sight visibility lines
- R) Show all existing and proposed lighting
 - Map of all street lighting, attached lighting, and area lighting
 - Location of lighted signs Photo-metrics map
- S) Indicate the location of any permanently installed machinery likely to cause appreciable noise at the lot lines.
- T) Provide description of these materials stored on the property:
 - Hazardous Toxic Raw Waste
- U) Show existing contours and finished grade elevations onsite and sufficiently offsite to demonstrate how the project is situated in the surrounding environment.
- V) Indicate the location and dimensions of:
 - Sidewalks Curbs Driveways
 - Fences Retaining walls Other artificial features
- W) Copies of State and Local permit applications:
 - Notice of Intent NRPA Permit by Rule
 - All other applicable permits
- X) Copy of FIRM Map showing the proposed subdivision boundary to scale.

NOTE TO APPLICANT: PRIOR TO THE SITE WALK, TEMPORARY MARKERS MUST BE ADEQUATELY PLACED THAT ENABLE THE PLANNING BOARD TO READILY LOCATE AND APPRAISE THE LAYOUT OF DEVELOPMENT.

SUBMITTALS THE TOWN PLANNER DEEMS SUFFICIENTLY LACKING IN CONTENT WILL NOT BE SCHEDULED FOR PLANNING BOARD REVIEW.

August 1, 2023

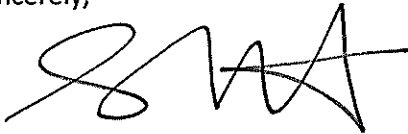
Michael Tadema-Wielandt, P.E.
Terradyn Consultants, LLC
565 Congress Street, Suite 201
Portland, ME 04101

Agent Authorization for Local, State and Federal Permitting
Bartlett Road Subdivision, Kittery, Maine

Dear Mike,

On behalf of Beachwood Development Fund LP, I hereby authorize Terradyn Consultants, LLC to act on my behalf as my agent in the processing of the required local, state, and federal permit applications related to the proposed subdivision of Bartlett Road in Kittery and to furnish, upon request, supplemental information in support of these applications.

Sincerely,

A handwritten signature in black ink, appearing to be 'GB' followed by a stylized 'W' or 'A'.

Geoff Bowley
Beachwood Development Fund LP

Attachment 2

Current Property Deed

1002240207920

After recording return to:

Space Above This Line For Recording Data

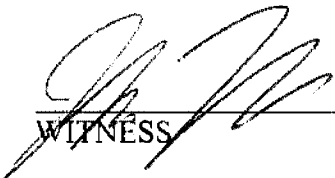
WARRANTY DEED

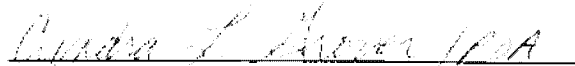
SHIRLEY B. WASHBURN, of 77 Bartlett Road, Kittery Point, ME , Maine 03909, for consideration paid, hereby grants to **BEACHWOOD DEVELOPMENT FUND LP**, with a mailing address of PO Box 261, Kennebunk ME 04043, with **WARRANTY COVENANTS**, a certain lot or parcel of land, together with any improvements thereon and all rights appurtenant thereto, in the Town of Kittery, York County, Maine, being more particularly described as follows:

SEE EXHIBIT A ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE.

Witness my hand this 29th day of August, 2022.

Maine R.E. Transfer Tax Paid

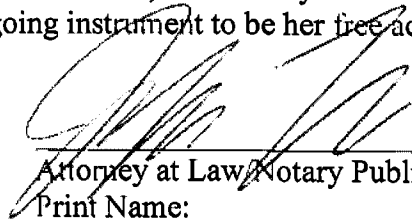

WITNESS


Shirley B. Washburn

STATE OF MAINE
County of York, ss.

August 29, 2022

Personally appeared Cyndra Lea Grover, before me, as attorney in fact for Shirley B. Washburn, principal, and acknowledged the foregoing instrument to be her free act and deed.


Attorney at Law/Notary Public
Print Name:

Jeffrey S Zdunczyk
Notary Public, Maine
My Commission Expires
March 20, 2023

EXHIBIT A

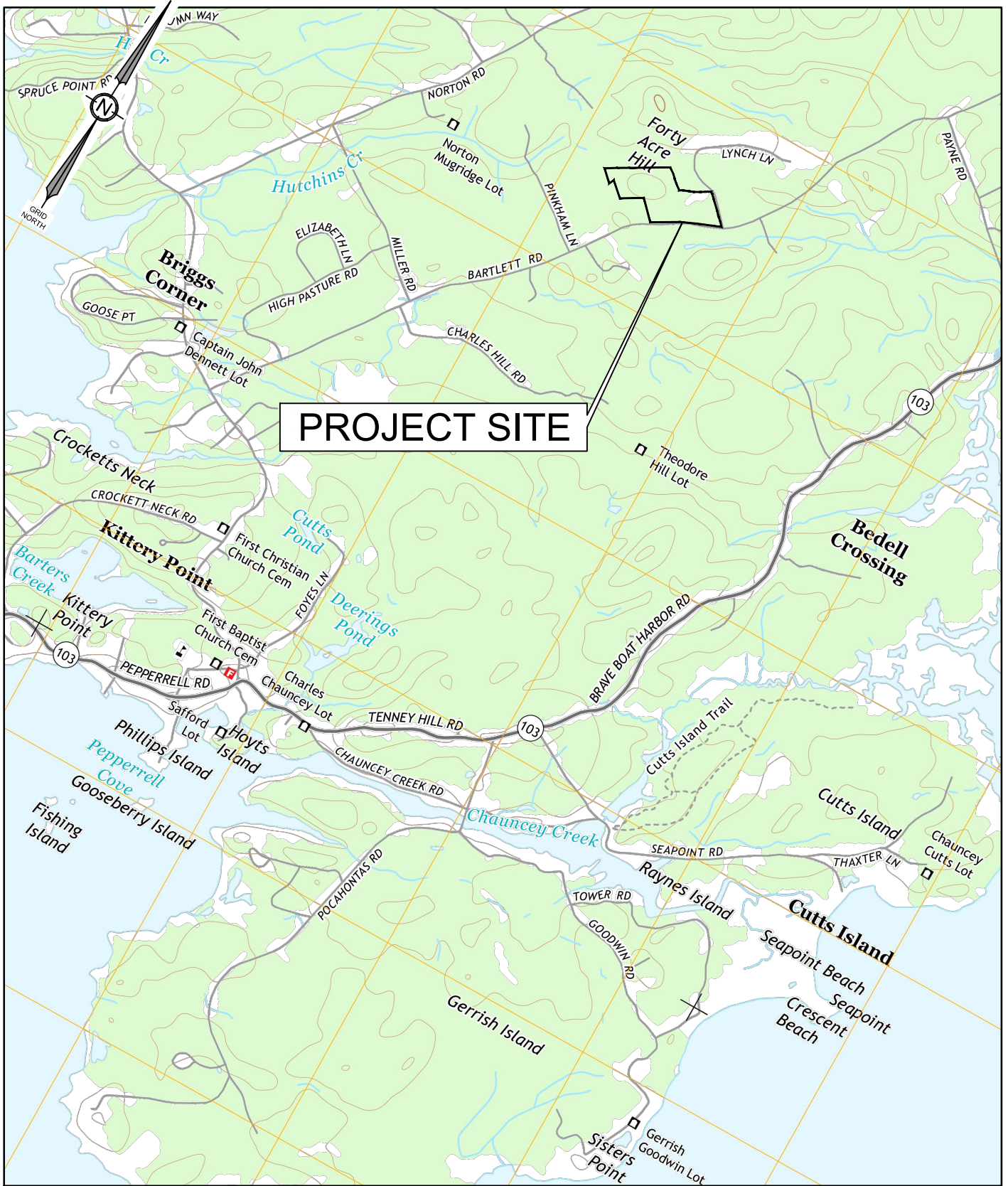
A certain lot or parcel of land with the buildings and improvements thereon, situated on the northerly side of the Bartlett Road, in the Town of Kittery, County of York and State of Maine and being more particularly bounded and described as follows:

Beginning at a point in the northerly sideline of the Bartlett Road, and in the easterly corner of the lot or parcel of land herein conveyed, thence running northwesterly by and along a stone wall and land now or formerly of Lynch for a distance of 557.53 feet to an intersection; thence turning and running southwesterly by and along a stone wall and land now or formerly of said Lynch for a distance of 468.49 feet to an intersection; thence turning and running northwesterly by and along a stone wall and land now or formerly of said Lynch for a distance of 360.91 feet to an intersection; thence turning and running southwesterly by and along a stone wall and land now or formerly of Reed for a distance 961.97 feet to an intersection; thence turning and running S 32° 03' 04" E partially by and along a stone wall and land now or formerly of Dyer for a distance of 231.01 feet to an iron pipe; thence turning and running N 41° 07' 27" E by and along said land of Dyer for a distance of 80.02 feet to an iron pipe; thence turning and running S 31° 58' 06" E by and along said land of Dyer for a distance of 282.04 feet to a point; thence turning and running N 74° 24' 21" E by and along land now or formerly of MacLeod for a distance of 351.35 feet to an iron pipe; thence turning and running S 31 °20' 04" E by and along said land of MacLeod for a distance of 385.46 feet to an iron put set in the northerly sideline of Bartlett Road; thence turning and running easterly by and along the northerly sideline of Bartlett Road for a distance of 685.08 feet to a point at the end of a stone wall; thence running easterly by and along said wall and the northerly sideline of Bartlett Road for a distance of 348.20 feet to the point of beginning. Containing 19.27 acres more or less.

Meaning to describe and intending to convey the same premises described in the deed of Jean A. Strater to Shirley Washburn dated March 11, 1992 and recorded in the York County Registry of Deeds in Book 6021, Page 344.

Attachment 3

Existing Conditions Figures



PROJECT SITE

USGS KITTERY QUADRANGLE

PROJECT:
 BARTLETT ROAD SUBDIVISION
 77 BARTLETT ROAD, KITTERY, MAINE

PREPARED FOR:
 BEACHWOOD DEVELOPMENT FUND LP
 PO BOX 260
 KENNEBUNK, MAINE 04043



ADDRESS:
 41 CAMPUS DRIVE, SUITE 301
 NEW GLOUCESTER, ME 04260

PHONE:
 (207) 926-5111

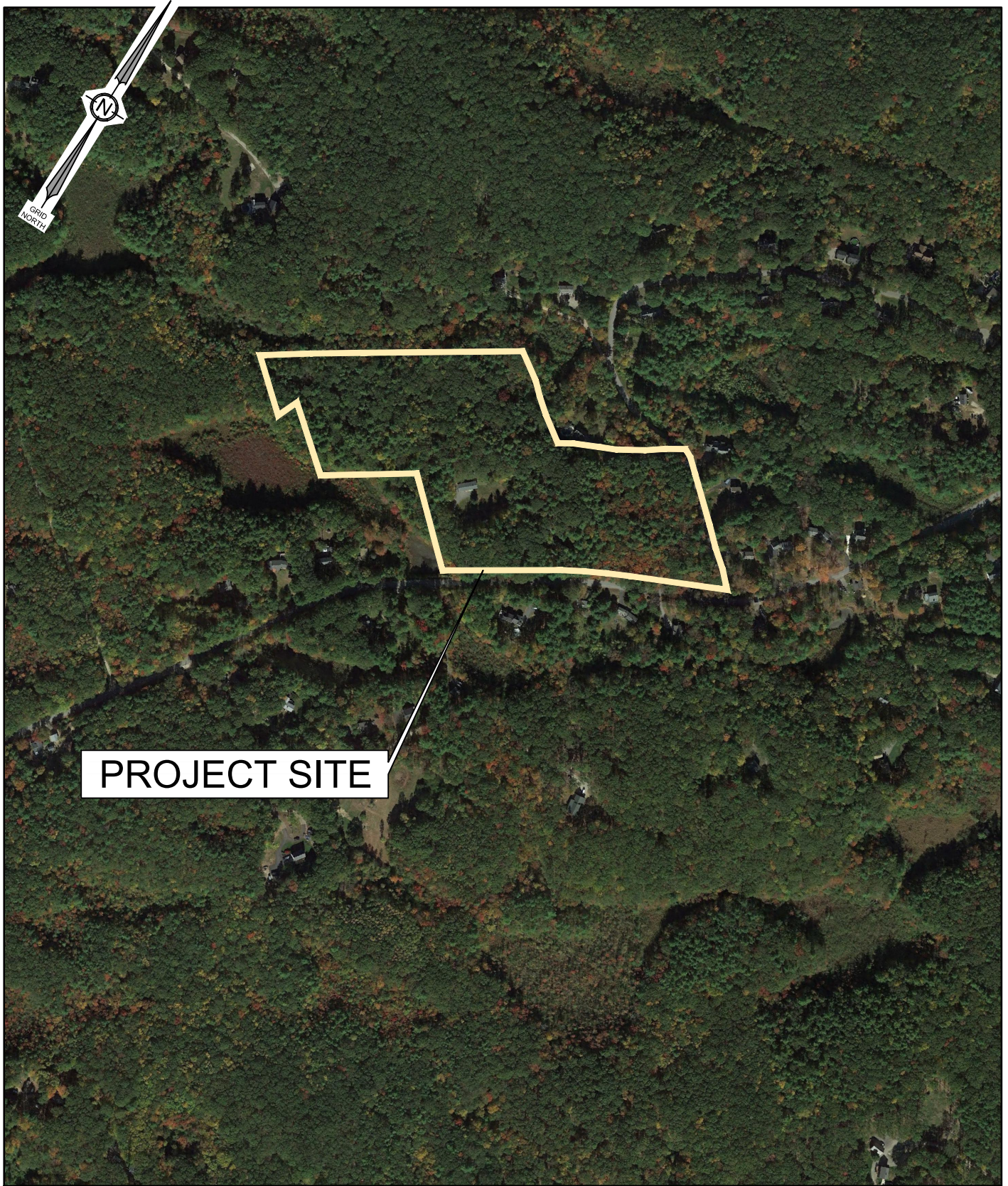
WEB SITE:
www.terradynconsultants.com

PROJECT NO.
 22-145

DATE
 3/20/2023

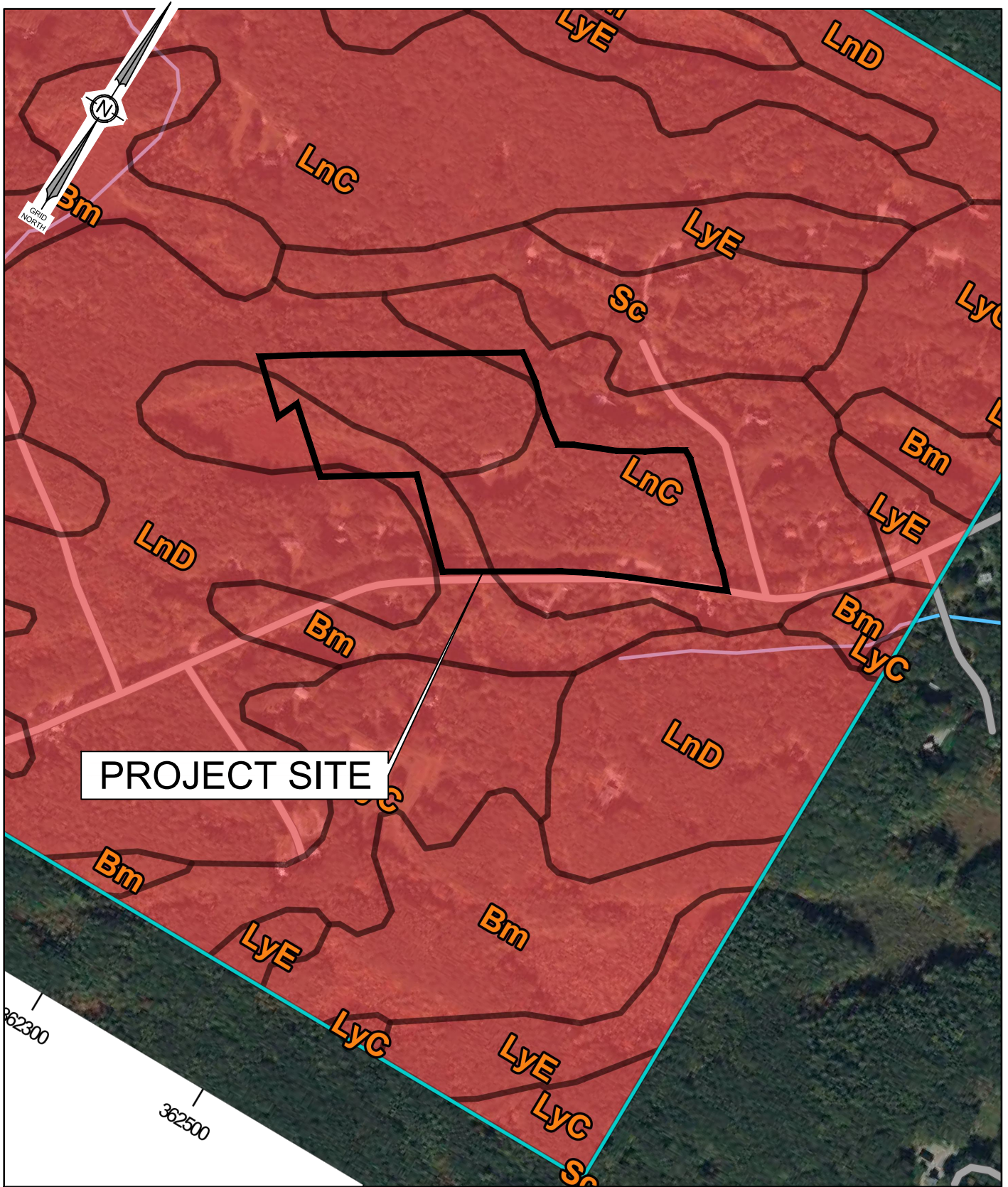
SCALE
 1" = 2,000'

SHEET
 1
 OF
 5

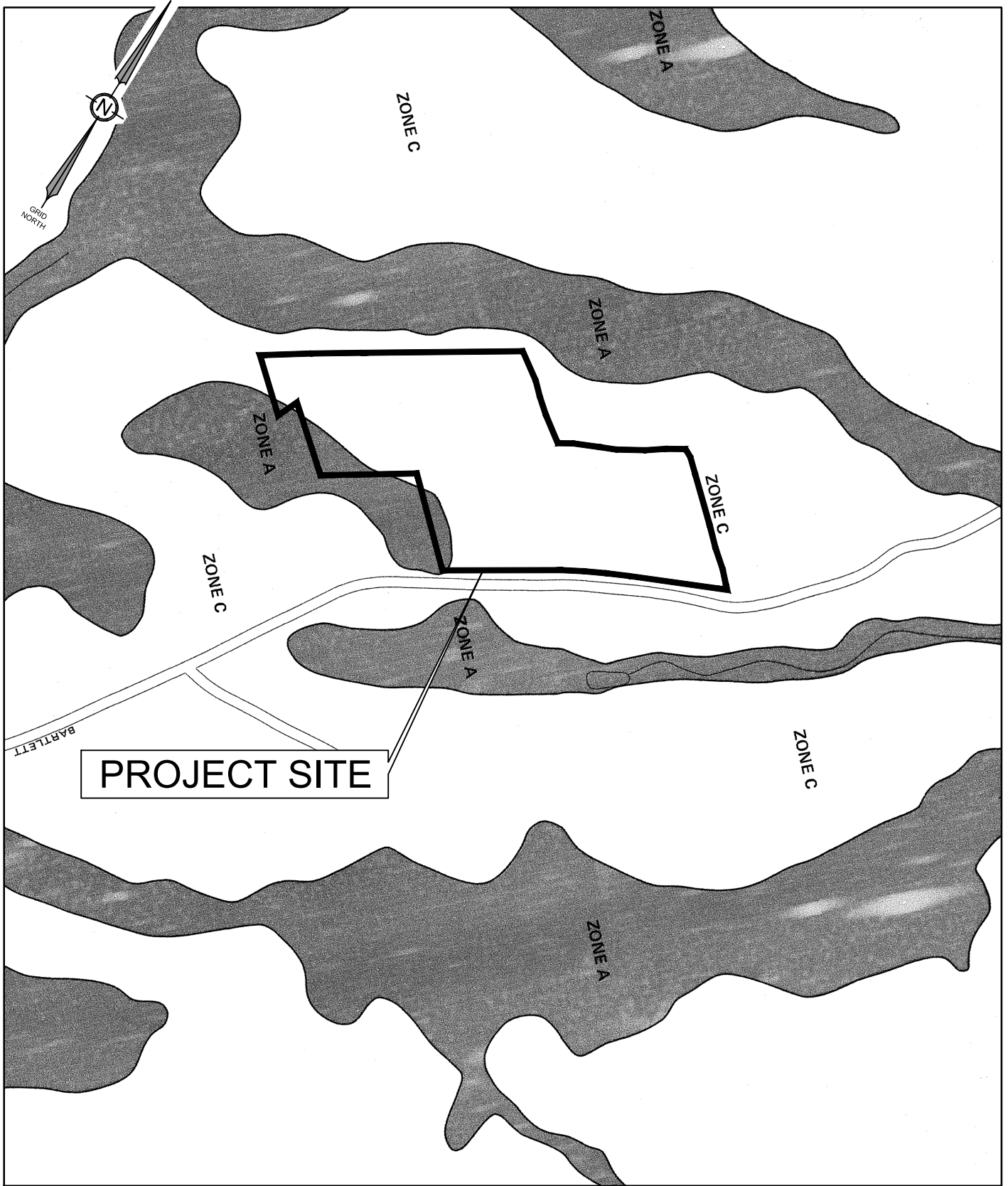


PROJECT SITE

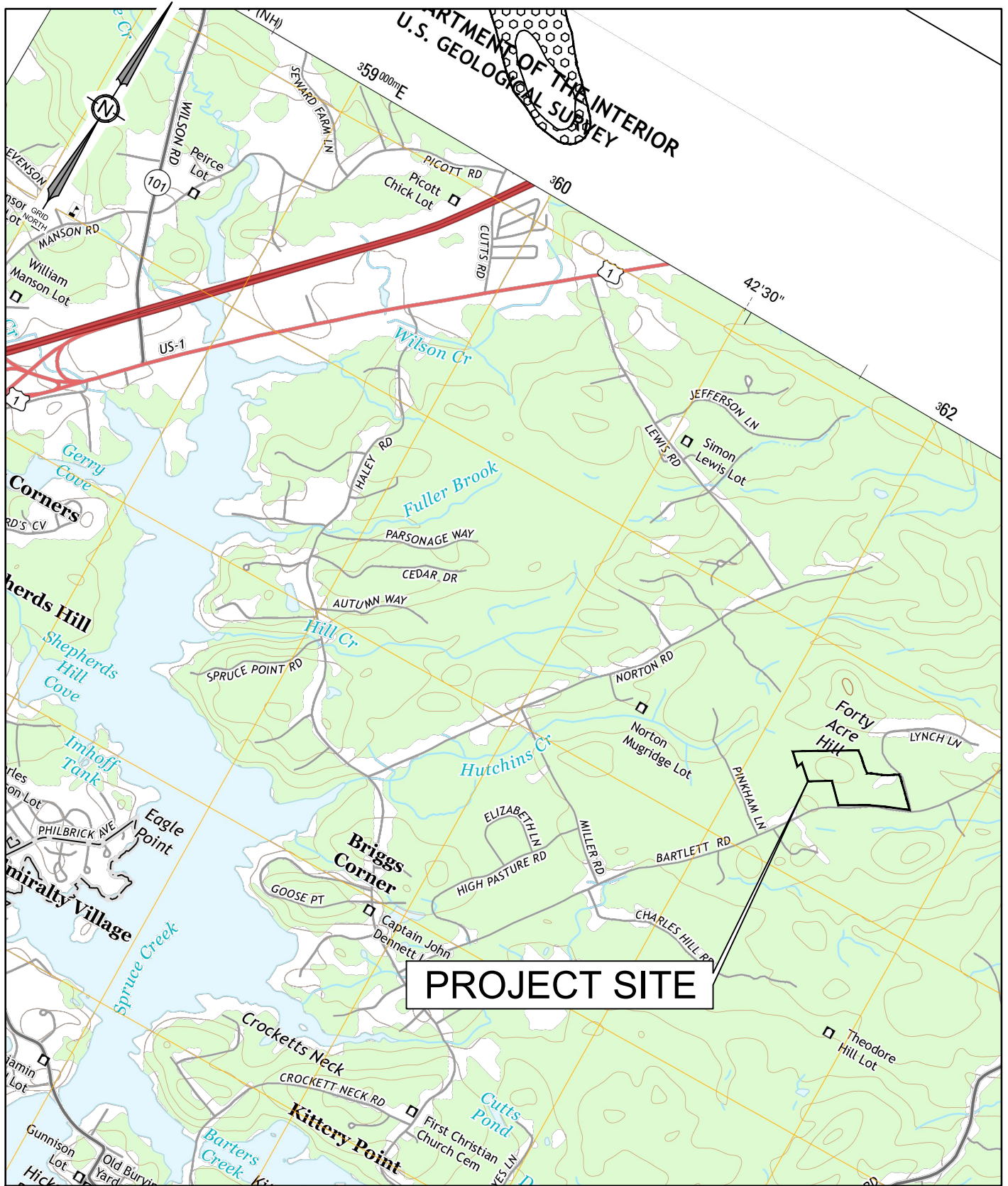
| | | | | |
|--|---|--|--------------------------------------|-----------------------------------|
| <p>AERIAL MAP</p> |  <p>TERRADYN CONSULTANTS, LLC</p> | <p>ADDRESS: 41 CAMPUS DRIVE, SUITE 301 NEW GLOUCESTER, ME 04260 PHONE: (207) 926-5111 WEB SITE: www.terradyndesign.com</p> | <p>PROJECT NO. 22-145</p> | <p>SHEET 2</p> |
| <p>PROJECT: BARTLETT ROAD SUBDIVISION 77 BARTLETT ROAD, KITTERY, MAINE</p> | | <p>DATE 3/20/2023</p> | <p>OF 5</p> | |
| <p>PREPARED FOR: BEACHWOOD DEVELOPMENT FUND LP PO BOX 260 KENNEBUNK, MAINE 04043</p> | | <p>Civil Engineering Land Surveying Geomatics Stormwater Design Land Planning Environmental Permitting</p> | | <p>SCALE 1" = 500'</p> |




| | | | | |
|--|---|--|---|----------------------------|
| <p>MEDIUM INTENSITY SOIL SURVEY</p> |  <p>TERRADYN CONSULTANTS, LLC</p> | <p>ADDRESS: 41 CAMPUS DRIVE, SUITE 301 NEW GLOUCESTER, ME 04260</p> | <p>PROJECT NO. 22-145</p> | <p>SHEET 3</p> |
| <p>PROJECT: BARTLETT ROAD SUBDIVISION 77 BARTLETT ROAD, KITTERY, MAINE</p> | | <p>PHONE: (207) 926-5111</p> | <p>DATE 3/20/2023</p> | |
| <p>PREPARED FOR: BEACHWOOD DEVELOPMENT FUND LP PO BOX 260 KENNEBUNK, MAINE 04043</p> | | <p>Civil Engineering Land Surveying Geomatics Stormwater Design Land Planning Environmental Permitting</p> | <p>WEB SITE: www.terradyconsultants.com</p> | <p>SCALE 1" = 500'</p> |



| | | | | |
|--|--|--|---|--|
| <p>FLOOD INSURANCE RATE MAP</p> |  <p>TERRADYN CONSULTANTS, LLC</p> <p>Civil Engineering Land Surveying Geomatics Stormwater Design Land Planning Environmental Permitting</p> | <p>ADDRESS: 41 CAMPUS DRIVE, SUITE 301 NEW GLOUCESTER, ME 04260 PHONE: (207) 926-5111 WEB SITE: www.terradynconsultants.com</p> | <p>PROJECT NO. 22-145</p> <p>DATE 3/20/2023</p> <p>SCALE 1" = 500'</p> | <p>SHEET 4</p> <p>OF 5</p> |
| <p>PROJECT: BARTLETT ROAD SUBDIVISION 77 BARTLETT ROAD, KITTERY, MAINE</p> | | | | |
| <p>PREPARED FOR: BEACHWOOD DEVELOPMENT FUND LP PO BOX 260 KENNEBUNK, MAINE 04043</p> | | | | |



PROJECT SITE

| | | | |
|--|--|-----------------------|------------|
| SIGNIFICANT SAND & GRAVEL AQUIFER MAP |  <p>ADDRESS: 41 CAMPUS DRIVE, SUITE 301 NEW GLOUCESTER, ME 04260 PHONE: (207) 926-5111 WEB SITE: www.terradyndynconsultants.com</p> | PROJECT NO. 22-145 | SHEET 5 |
| PROJECT: BARTLETT ROAD SUBDIVISION 77 BARTLETT ROAD, KITTERY, MAINE | | DATE 3/20/2023 | OF 5 |
| PREPARED FOR: BEACHWOOD DEVELOPMENT FUND LP PO BOX 260 KENNEBUNK, MAINE 04043 | | SCALE 1" = 500' | |
| Civil Engineering Land Surveying Geomatics Stormwater Design Land Planning Environmental Permitting | | | |

Attachment 4

Soil Narrative Report



Soil Narrative Report

Prepared for
Terradyn Consultants, LLC
(N/F Bowley Builders)
77 Bartlett Road
Kittery, Maine

December 2022

Soil test pits observed October 19 and November 15, 2022

Map prepared for a residential subdivision utilizing private water wells and on-site wastewater disposal

Map scaled 1" = 60', base map provided by Terradyn Consultants, LLC

Mapping meets Maine Association of Professional Soil Scientists Class A High-Intensity mapping standards with minimum mapping units of 1/8 acre

BIDDEFORD (Histic Humaquept)

SETTING

| | |
|-------------------------------|--|
| Parent Material: | Derived from marine & lacustrine sediments. |
| Landform: | Nearly level lowlands. |
| Position in Landscape: | Usually occupies the lowest position within the landscape. |
| Slope Gradient Ranges: | (A) 0-3% |

COMPOSITION AND SOIL CHARACTERISTICS

| | |
|-------------------------------------|---|
| Drainage Class: | Biddeford soil is very poorly drained with a perched water table within 0.5 feet of the soil surface, and may be ponded at the surface for some portion of the year. |
| Typical Profile Description: | Surface layer: Very dark brown mucky peat, 0-12" Subsurface layer: Gray silt loam, 12-16" Subsoil layer: Olive gray/dark gray silty clay, 16-35" Substratum: Gray silty clay & silty clay loam, 35-65" |
| Hydrologic Group: | Group D |
| Surface Run Off: | Very slow |
| Permeability: | Moderate or moderately slow in upper horizons, slow or very slow in substratum. |
| Depth to Bedrock: | Deep, more than 40 inches. |
| Hazard to Flooding: | This soil is intermittently ponded, and may rarely flood in areas adjacent to streams and rivers during periods of prolonged wetness. |

INCLUSIONS (Within Mapping Unit)

| | |
|--------------------|---|
| Similar: | Scantic, Whately, Roundabout, Bucksport |
| Dissimilar: | Sebago, Chocorua, Wonsqueak |

USE AND MANAGEMENT

Development with subsurface wastewater disposal: The limiting factor for building site development is wetness due to a high water table throughout the year. Biddeford soil has very low potential for dwellings with foundations and road construction due to ponding and low strength. Biddeford soil is unsuitable for subsurface wastewater disposal as defined by the State of Maine Subsurface Wastewater Disposal Rules. Biddeford soil is usually classified a wetland, based on the combined consideration of hydric conditions, hydrology, and vegetation.

DIXFIELD

(Typic Haplorthods)

SETTING

| | |
|-------------------------------|---------------------------------|
| Parent Material: | Compact loamy glacial till. |
| Landform: | Glaciated uplands and drumlins. |
| Position in Landscape: | Upper portions of landform. |
| Slope Gradient Ranges: | (B) 3-8% |

COMPOSITION AND SOIL CHARACTERISTICS

| | |
|-------------------------------------|---|
| Drainage Class: | Moderately well drained, with a perched water table 1.5 to 2.5 feet beneath the existing soil surface from November through April and during periods of excessive precipitation. |
| Typical Profile Description: | Surface layer: Grayish brown and dark brown fine sandy loam, 0-6" Subsurface layer: Strong brown and dark yellowish brown fine sandy loam, 6-19" Subsoil layer: Light olive brown gravelly fine sandy loam, 19-24" Substratum: Light olive brown gravelly sandy loam, 24-65" |
| Hydrologic Group: | Group C |
| Surface Runoff: | Moderate in the solum, moderately slow or slow in the compact substratum. |
| Permeability: | Moderate in the solum, moderately slow or slow in the compact substratum. |
| Depth to Bedrock: | Very deep, greater than 60". |
| Hazard to Flooding: | None |
| Erosion Factors: | K: .17 - .24 |

INCLUSIONS (Within Mapping Unit)

| | |
|--------------------|---|
| Similar: | Hermon, Skerry, Becket, Croghan, Sunappe, Marlow |
| Dissimilar: | Colonel, Tunbridge (20-40" to bedrock), Lyman, Hogback (10-20" to bedrock), Rawsonville (20-40" to bedrock) |

USE AND MANAGEMENT

Development with subsurface wastewater disposal: The limiting factor for building site development is wetness due to the presence of a perched water table 1.5 to 2.5 feet beneath the existing soil surface for a significant portion of the year. Proper foundation drainage is recommended for construction. Dixfield soil is suitable for subsurface wastewater disposal and requires a 12-inch separation distance from the bottom of any disposal area to the seasonal high groundwater table. Dixfield soil also requires 3.3 and 1.7 sq.ft/gpd for disposal beds and chamber area, respectively. The Very Stony phase of Dixfield soil has up to 3% of the soil surface covered with stones.

Stormwater design: Dixfield soils are moderately well drained, with seasonal high groundwater table of approximately 1.5 to 3.5 feet beneath the soil surface. Dixfield soils generally exhibit permeabilities of 0.6-2.0 inches/hour in the upper horizons, and 0.06-0.6 inches/hour in the firm basal till horizons of 1.5'+ (approximately).

Soil limitations for proposed use: The soil limiting factor for construction is wetness, due to the presence of a seasonal water table for some time during the year. Diversion of upslope drainage from work areas, or importation of coarse granular fill can help overcome these limitations. Stony soil map units have stony or boulder surfaces, which have limitations for vehicular traffic. Large excavation equipment or blasting of large glacial erratics may be necessary for excavation and/or site preparation.



LYMAN-TUNBRIDGE COMPLEX

SETTING

| | |
|-------------------------------|------------------------------|
| Parent Material: | Loamy glacial till. |
| Landform: | Glaciated uplands. |
| Position in Landscape: | Upper positions on landform. |
| Slope Gradient Ranges: | (B) 3-8% (C) 8-20% |

COMPOSITION AND SOIL CHARACTERISTICS

| | | |
|-------------------------------------|--|--|
| Drainage Class: | Somewhat excessively to well drained, with no evidence of a water table, or only inches from the bedrock surface during spring and periods of heavy precipitation. | |
| Typical Profile Description: | Surface layer: | Black & reddish brown loam & fine sandy loam, 0-4" |
| | Subsurface layer: | Very dusky red loam, 4-6" |
| | Subsoil layer: | Dark red loam, 6-10" |
| | Substratum layer: | Dark brown to brown loam, 10-20" |
| Hydrologic Group: | Group C/D | |
| Surface Run Off: | Rapid | |
| Permeability: | Moderate or moderately rapid. | |
| Depth to Bedrock: | Shallow (Lyman, 10-20") to moderately deep (Tunbridge, 20-40"). | |
| Hazard to Flooding: | None | |
| Erosion Factors: | K: .20 - .32 | |

INCLUSIONS (Within Mapping Unit)

| | |
|--------------------|---|
| Similar: | Dixfield, Skerry (deeper than 40" to bedrock) |
| Dissimilar: | Naskeag (in depressional areas), Colonel, Brayton |

USE AND MANAGEMENT

Development with subsurface wastewater disposal: The limiting factors for building site development is shallow to bedrock. Blasting or ripping of the more fractured and weathered bedrock is required for deep excavation. Portions of these map units are suitable for subsurface wastewater disposal, where the depth to limiting factor is greater than 15" from the mineral soil surface within Shoreland Zoned areas, and 9"-15" in non-Shoreland Zoned areas. This soil requires a 24-inch separation distance between the bottom of any disposal area and the bedrock surface, and 3.3 sq.ft/gpd and 1.7 sq.ft/gpd for bed disposal area and chamber area, respectively.

For stormwater design: Limiting factor for stormwater design is bedrock, which is generally less than 20". These soils are generally well drained, with no seasonal water table except for short durations on the bedrock surface. Permeabilities are 2-6 inches per hour in all horizons.

LYMAN-TUNBRIDGE-ROCK OUTCROP COMPLEX

SETTING

| | |
|-------------------------------|---|
| Parent Material: | Loamy glacial till. |
| Landform: | Glaciated uplands. |
| Position in Landscape: | Uppermost locations on landform; sideslopes, shoulders, and crests of ridges. |
| Slope Gradient Ranges: | (B) 3-8% (C) 8-20% (D) 20%+ |

COMPOSITION AND SOIL CHARACTERISTICS

| | |
|-------------------------------------|--|
| Drainage Class: | SomeWHAT excessively drained (Lyman) to well drained (Tunbridge) with no apparent water table other than run off across the bedrock surface occasionally, during spring and periods of heavy precipitation. These soils occur in a non-repeating pattern with exposed bedrock outcrop, and cannot be separated in mapping. |
| Typical Profile Description: | Surface layer: Black & reddish brown loam & fine sandy loam, 0-4" Subsurface layer: Very dusky red loam, 4-6" Subsoil layer: Dark red loam, 6-10" Substratum layer: Dark brown to brown loam, 10-20" |
| Hydrologic Group: | Group C/D |
| Surface Run Off: | Slow to rapid depending on slope and bedrock exposure. |
| Permeability: | Moderately rapid. |
| Depth to Bedrock: | Shallow (Lyman 10-20") to moderately deep (Tunbridge 20-40"). |
| Hazard to Flooding: | None |

INCLUSIONS (Within Mapping Unit)

| | |
|--------------------|--|
| Similar: | Dixfield, Skerry (deeper than 40" to bedrock) |
| Dissimilar: | Colonel (greater than 40" to bedrock), Naskeag (in microdepressions) |

USE AND MANAGEMENT

Development with subsurface wastewater disposal: The limiting factor for building site development is depth to bedrock, which ranges from 0" to 40" within this complex. Blasting or ripping of the more fractured bedrock is necessary for deep excavation. Tunbridge and Lyman (9"-15" deep to bedrock outside shoreland zone areas) soils are suitable for subsurface wastewater disposal in accordance with State of Maine Subsurface Wastewater Disposal Rules. These soils require a 24-inch separation distance between the bedrock surface and the bottom of any disposal system. These soils also require 3.3 and 1.7 sq.ft/gpd for disposal beds and chamber area, respectively.

NASKEAG (Aeric Haplaquods)

SETTING

| | |
|-------------------------------|---|
| Parent Material: | Loamy and sandy glacial till. |
| Landform: | Depressions of glaciated bedrock ridges. |
| Position in Landscape: | Lowest positions in depressions or concavities in landform. |
| Slope Gradient Ranges: | (A) 0-3% (B) 3-8% |

COMPOSITION AND SOIL CHARACTERISTICS

| | |
|-------------------------------------|---|
| Drainage Class: | Somewhat poorly to poorly drained, with a perched water table 0-1.5 feet beneath the soil surface. |
| Typical Profile Description: | Surface layer: Very dusky red muck, 0-5" Subsurface layer: Light brownish gray and brown sandy loam or loamy sand, 5-16" Subsoil layer: Dusky red loamy sand, 10-26" Substratum: Light yellowish brown gravelly sandy loam to loamy sand, 26-38" |
| Hydrologic Group: | Group C |
| Surface Run Off: | Moderate or moderately rapid (across bedrock surface) |
| Permeability: | Rapid |
| Depth to Bedrock: | Moderately deep, 20-40" to bedrock surface. |
| Hazard to Flooding: | None, but may be ponded for short duration in spring and during periods of excessive rainfall. |
| Erosion Factors: | .10 |

INCLUSIONS (Within Mapping Unit)

| | |
|--------------------|--|
| Similar: | Lyman, Tunbridge, Colonel, Brayton, Swanton, Pillsbury |
| Dissimilar: | Rock Outcrop, Peacham, Naskeag (Variant-V.P.D.) |

USE AND MANAGEMENT

Development with subsurface wastewater disposal: The limiting factor of this soil for building site development are depth to bedrock less than 40" in Naskeag and wetness due to a water table perched above the bedrock surface or hardpan. Proper foundation drainage is recommended for construction. Naskeag does not meet the minimum requirements for subsurface wastewater disposal as defined by the State of Maine Subsurface Wastewater Disposal Rules. This soil (poorly drained) may be classified as wetlands, based on the combined consideration of hydric conditions, hydrology, and vegetation.

SCANTIC (Typic Haplaquepts)

SETTING

| | |
|-------------------------------|--|
| Parent Material: | Marine or lacustrine sediments. |
| Landform: | Level or gently sloping marine or lake plains. |
| Position in Landscape: | Lower to intermediate positions. |
| Slope Gradient Ranges: | (A) 0-3% (B) 3-8% |

COMPOSITION AND SOIL CHARACTERISTICS

| | |
|-------------------------------------|---|
| Drainage Class: | Poorly drained, with a perched water table 0.5 to 1.0 feet beneath the soil surface. |
| Typical Profile Description: | Surface layer: Dark grayish brown silt loam, 0-9" Subsurface layer: Olive gray silt loam, 9-11" Subsoil layer: Olive gray, silty clay loam, 11-16" Substratum: Olive gray clay, 16-65" |
| Hydrologic Group: | Group D |
| Surface Run Off: | Slow |
| Permeability: | Moderate or moderately slow in upper profile, slow to very slow in dense substratum. |
| Depth to Bedrock: | Very deep, greater than 60". |
| Hazard to Flooding: | May flood occasionally on lowest fringes during spring and periods of excessive precipitation. |

INCLUSIONS (Within Mapping Unit)

| | |
|--------------------|-----------------------------|
| Similar: | Lamoine, Enosburg (Swanton) |
| Dissimilar: | Naskeag, Biddeford, Whately |

USE AND MANAGEMENT

Development with subsurface wastewater disposal: The limiting factor for building site development is wetness due to the presence of a shallow water table throughout most of the year. Proper foundation drainage or site modification is recommended for construction. Scantic soil does not meet the minimum requirements for subsurface wastewater disposal, as defined by State of Maine Rules for Subsurface Wastewater Disposal. Scantic soil may be classified as wetlands, based on the combined consideration of hydrology, hydric conditions, and vegetation.

Development for stormwater: Scantic soils are poorly drained with a high perched water table 0.5 to 1.0 feet beneath the soil surface and exhibit permeabilities of 0.2 to 2.0 inches/hr. in the upper 10 inches, and less than 0.2 inches/hr. below 10 inches.

SOIL TEST PIT PROFILE DESCRIPTIONS

LONGVIEW PARTNERS, LLC
6 SECOND STREET BUXTON, MAINE

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

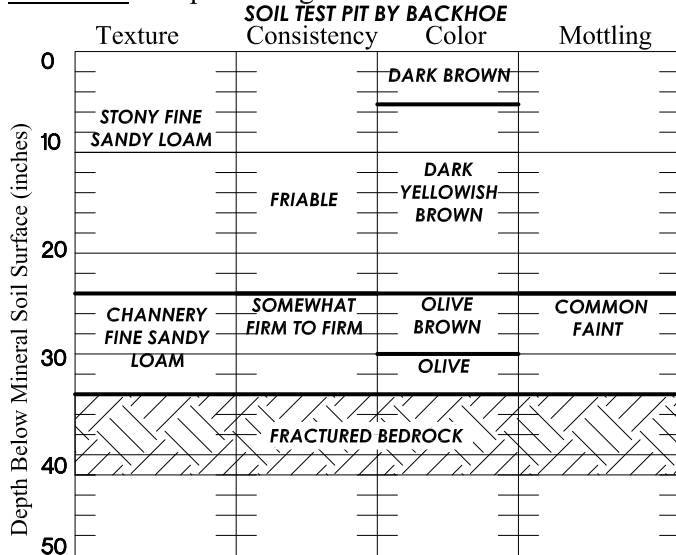
KITTERY

77 BARTLETT ROAD

BOWLEY BUILDERS

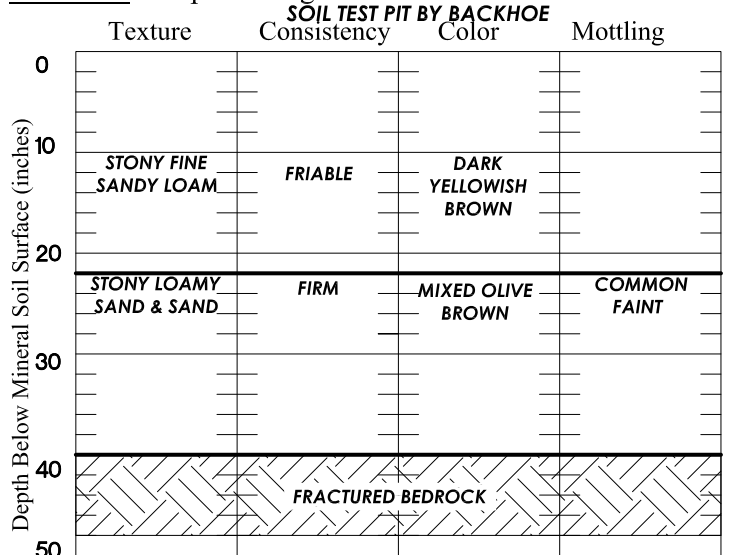
SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 1 Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil



| | | | |
|--|------------------|--------------------------------|--|
| Soil Classification 3 AIII/C Profile Condition TUNBRIDGE | Slope _____ % | Limiting Factor 34 " | <input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
|--|------------------|--------------------------------|--|

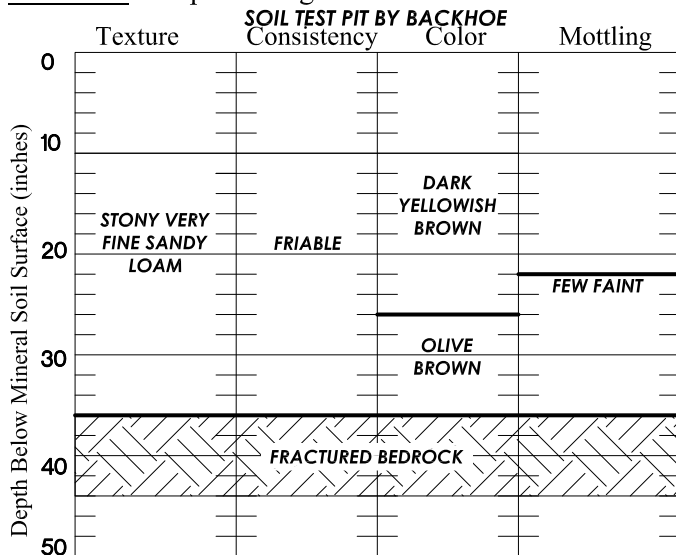
Observation Hole TP 2 Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil



| | | | |
|--|------------------|--------------------------------|---|
| Soil Classification 3 AIII/C Profile Condition TUNBRIDGE | Slope _____ % | Limiting Factor 22 " | <input checked="" type="checkbox"/> Ground Water <input checked="" type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
|--|------------------|--------------------------------|---|

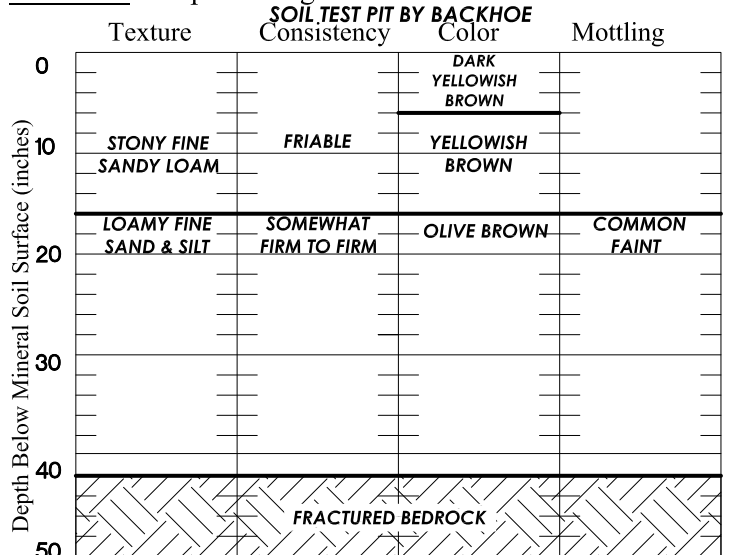
SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 3 Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil



| | | | |
|--|------------------|--------------------------------|--|
| Soil Classification 2 AIII/C Profile Condition TUNBRIDGE | Slope _____ % | Limiting Factor 22 " | <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
|--|------------------|--------------------------------|--|

Observation Hole TP 4 Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil



| | | | |
|---|------------------|--------------------------------|--|
| Soil Classification 8 AIII/C Profile Condition TUNBRIDGE (VARIANT) | Slope _____ % | Limiting Factor 16 " | <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
|---|------------------|--------------------------------|--|

James Logan
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237/213
LSE/CSS #

10/19/22
DATE

SOIL TEST PIT PROFILE DESCRIPTIONS

LONGVIEW PARTNERS, LLC
6 SECOND STREET BUXTON, MAINE

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

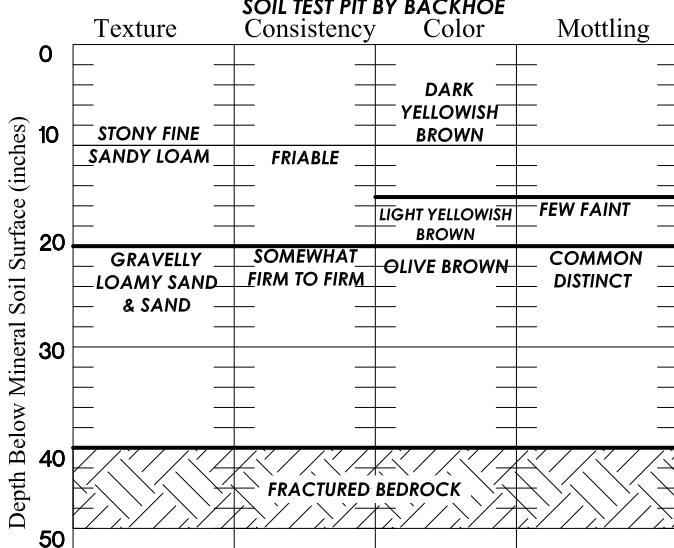
KITTERY

77 BARTLETT ROAD

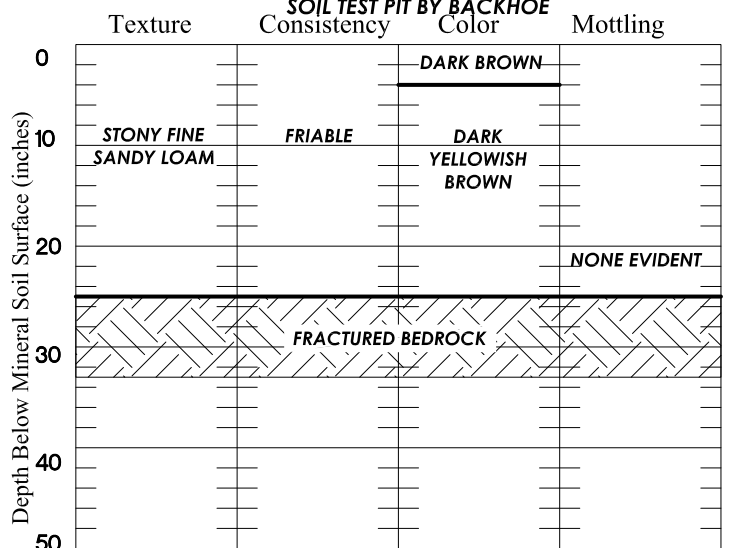
BOWLEY BUILDERS

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 5 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



Observation Hole TP 6 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

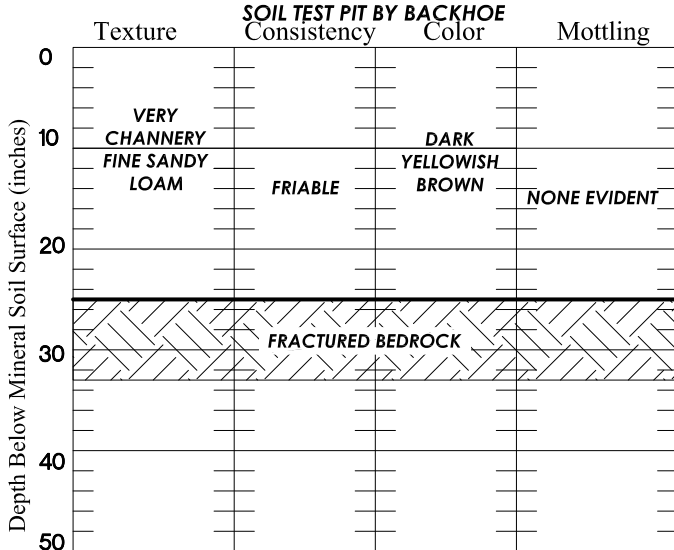


| | | | |
|---|---------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
| 3 <u>AIII/C</u> Profile Condition | _____ % | 15 " | |
| TUNBRIDGE | | | |

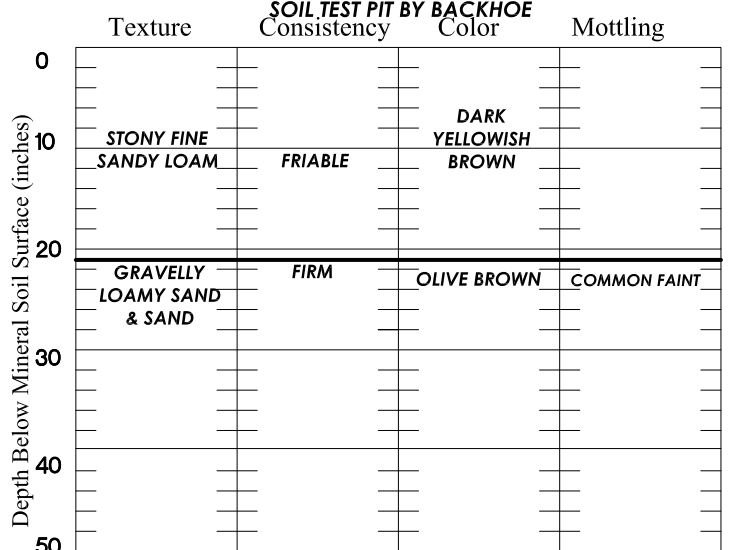
| | | | |
|---|---------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
| 2 <u>AIII</u> Profile Condition | _____ % | 25 " | |
| TUNBRIDGE | | | |

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 7 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



Observation Hole TP 8 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



| | | | |
|---|---------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
| 2 <u>AIII</u> Profile Condition | _____ % | 25 " | |
| TUNBRIDGE | | | |

| | | | |
|---|---------|-----------------|---|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water <input checked="" type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
| 3 <u>AIII/C</u> Profile Condition | _____ % | 21 " | |
| TUNBRIDGE | | | |

James Logan
SIGNATURE

237/213
LSE/CSS #

10/19/22
DATE

SOIL TEST PIT PROFILE DESCRIPTIONS

LONGVIEW PARTNERS, LLC
6 SECOND STREET BUXTON, MAINE

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

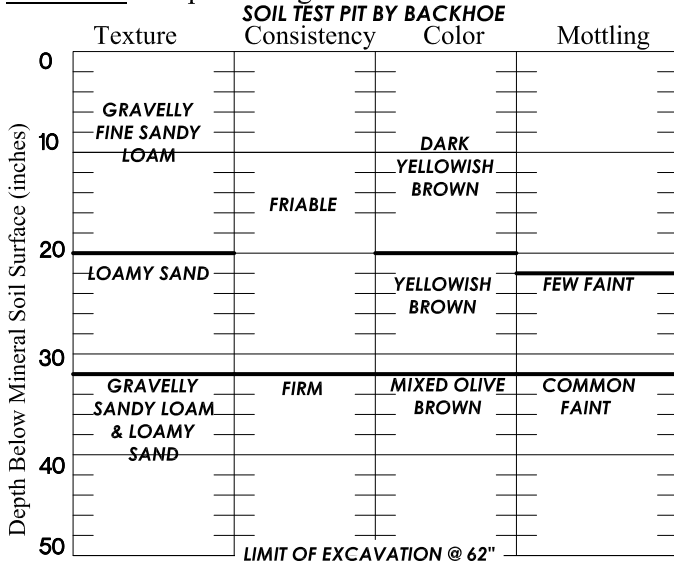
KITTERY

77 BARTLETT ROAD

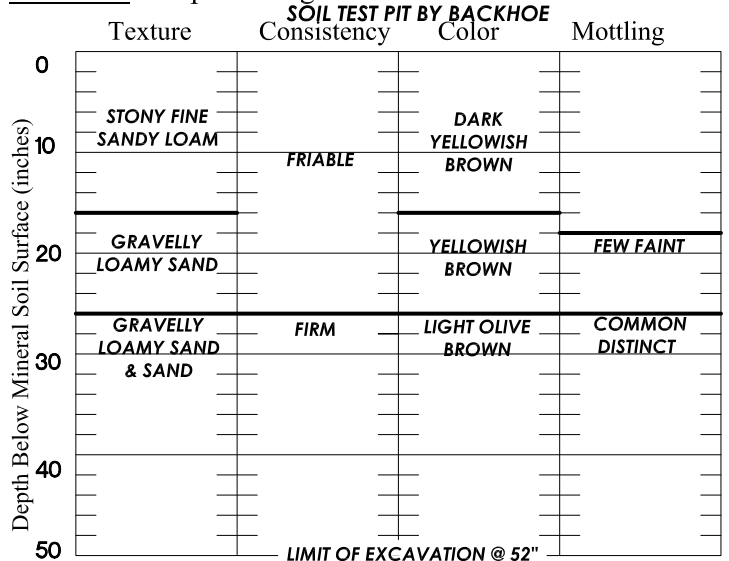
BOWLEY BUILDERS

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 9 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



Observation Hole TP 10 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

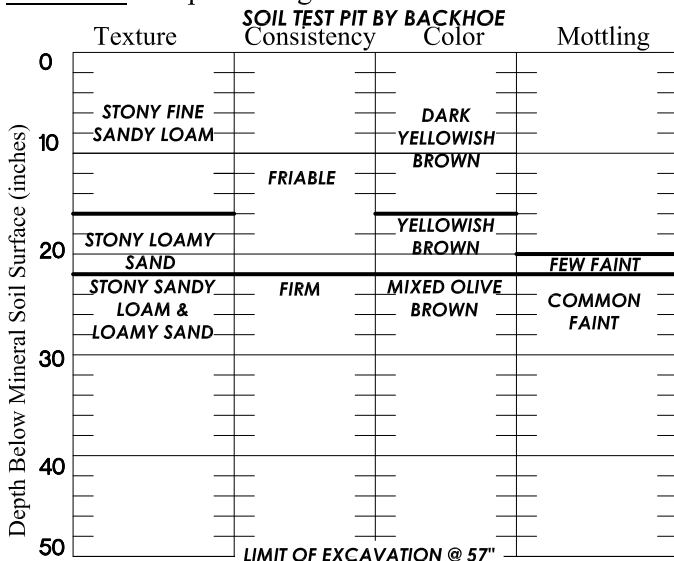


| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 22 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

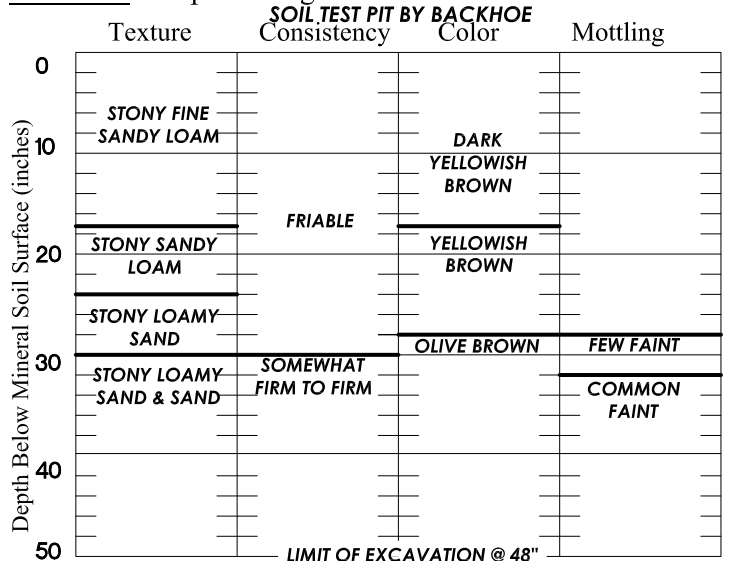
| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 18 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 11 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



Observation Hole TP 12 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 20 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 28 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

James Logan
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237/213
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10/19/22
DATE

SOIL TEST PIT PROFILE DESCRIPTIONS

LONGVIEW PARTNERS, LLC
6 SECOND STREET BUXTON, MAINE

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

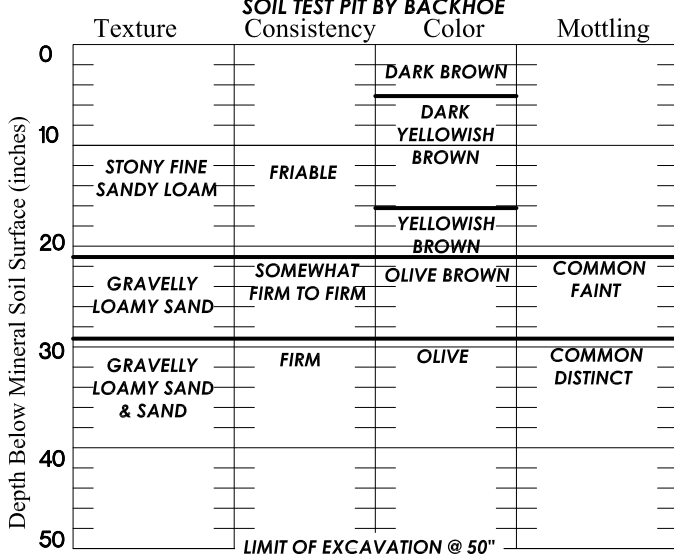
KITTERY

77 BARTLETT ROAD

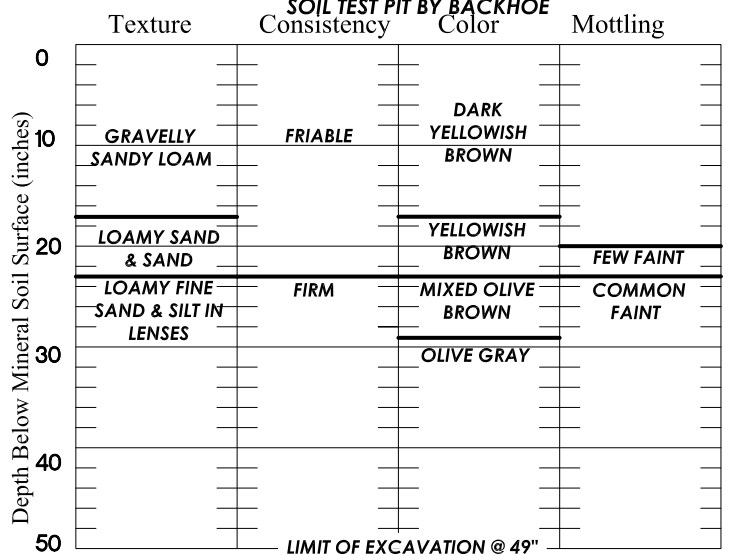
BOWLEY BUILDERS

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 13 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



Observation Hole TP 14 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

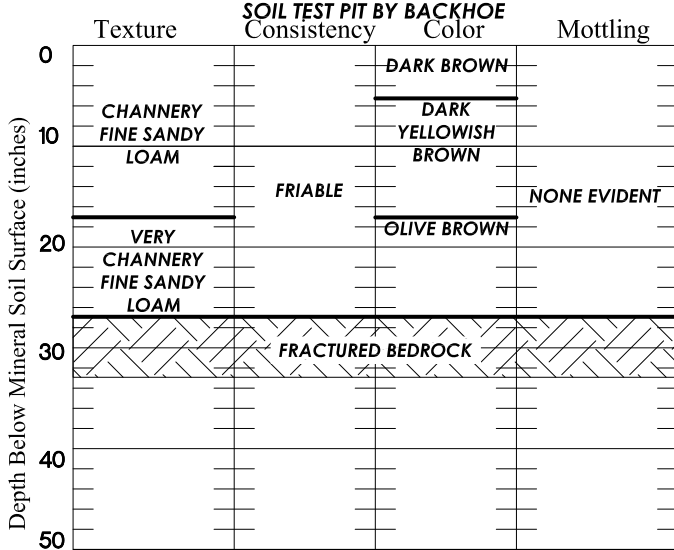


| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 21 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

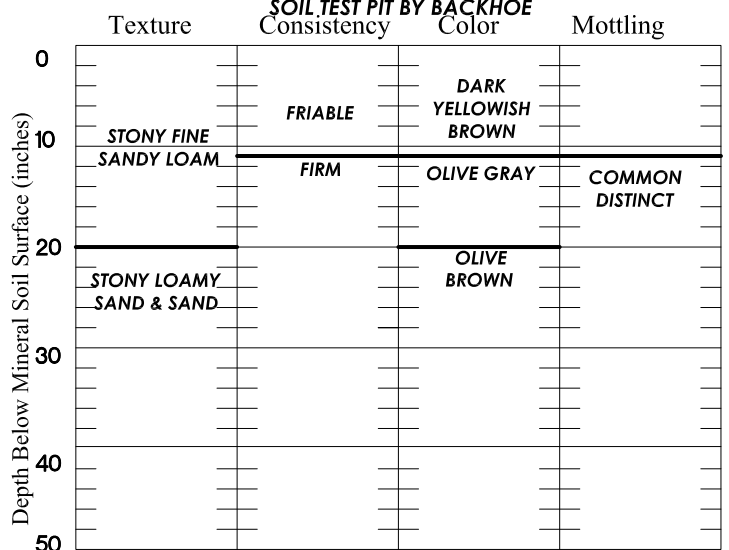
| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 20 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 15 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



Observation Hole TP 16 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



| | | | |
|----------------------|-------|-----------------|---|
| Soil Classification | Slope | Limiting Factor | <input type="checkbox"/> Ground Water |
| 2 AIII | % | 27 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input checked="" type="checkbox"/> Bedrock |
| TUNBRIDGE | | | <input type="checkbox"/> Pit Depth |

| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 D | % | 11 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| COLONEL | | | <input type="checkbox"/> Pit Depth |

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237/213
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DATE

SOIL TEST PIT PROFILE DESCRIPTIONS

LONGVIEW PARTNERS, LLC
6 SECOND STREET BUXTON, MAINE

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

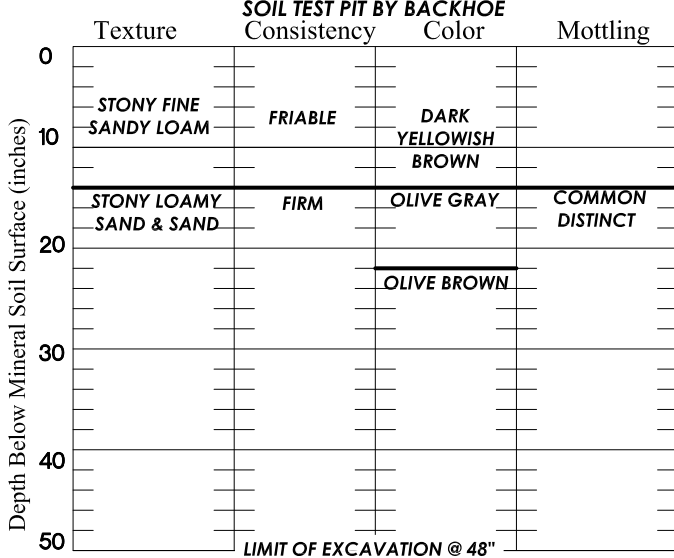
KITTERY

77 BARTLETT ROAD

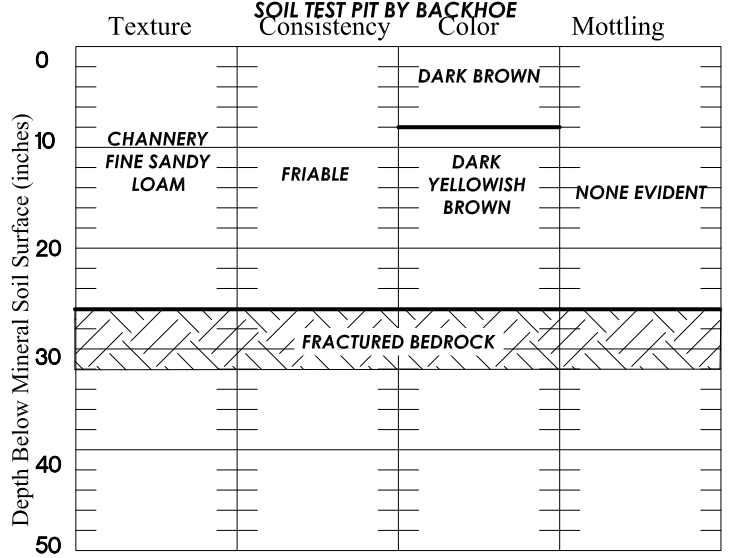
BOWLEY BUILDERS

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 17 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



Observation Hole TP 18 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

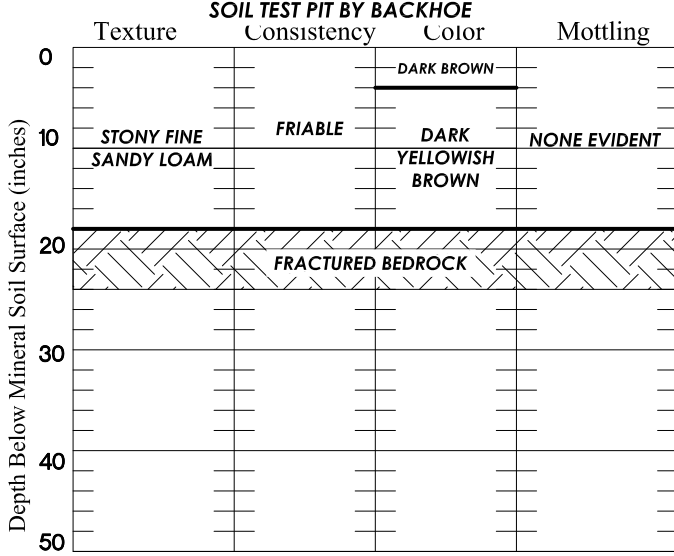


| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 D | % | 14 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| COLONEL | | | <input type="checkbox"/> Pit Depth |

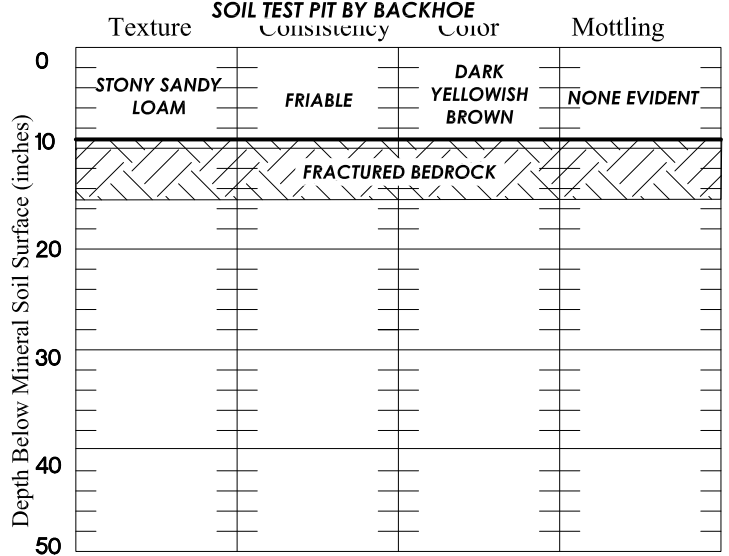
| | | | |
|---------------------|-------|-----------------|---|
| Soil Classification | Slope | Limiting Factor | <input type="checkbox"/> Ground Water |
| 2 AIII | % | 26 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input checked="" type="checkbox"/> Bedrock |
| TUNBRIDGE | | | <input type="checkbox"/> Pit Depth |

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 19 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



Observation Hole TP 20 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



| | | | |
|---------------------|-------|-----------------|---|
| Soil Classification | Slope | Limiting Factor | <input type="checkbox"/> Ground Water |
| 2 AIII | % | 18 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input checked="" type="checkbox"/> Bedrock |
| LYMAN | | | <input type="checkbox"/> Pit Depth |

| | | | |
|---------------------|-------|-----------------|---|
| Soil Classification | Slope | Limiting Factor | <input type="checkbox"/> Ground Water |
| 2 All | % | 9 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input checked="" type="checkbox"/> Bedrock |
| LYMAN | | | <input type="checkbox"/> Pit Depth |

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237/213
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10/19/22
DATE

SOIL TEST PIT PROFILE DESCRIPTIONS

LONGVIEW PARTNERS, LLC
6 SECOND STREET BUXTON, MAINE

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

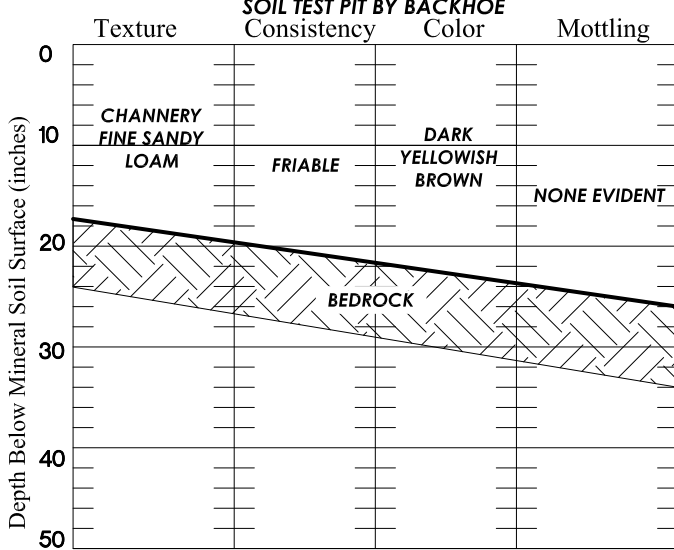
KITTERY

77 BARTLETT ROAD

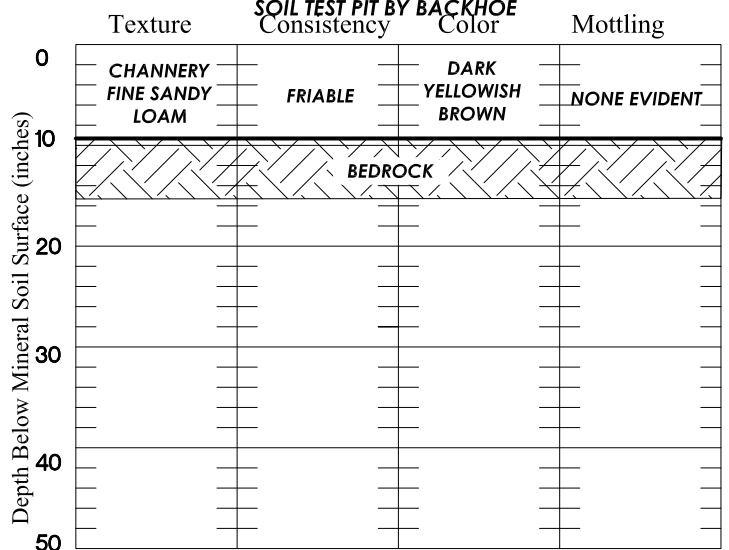
BOWLEY BUILDERS

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 21 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



Observation Hole TP 22 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

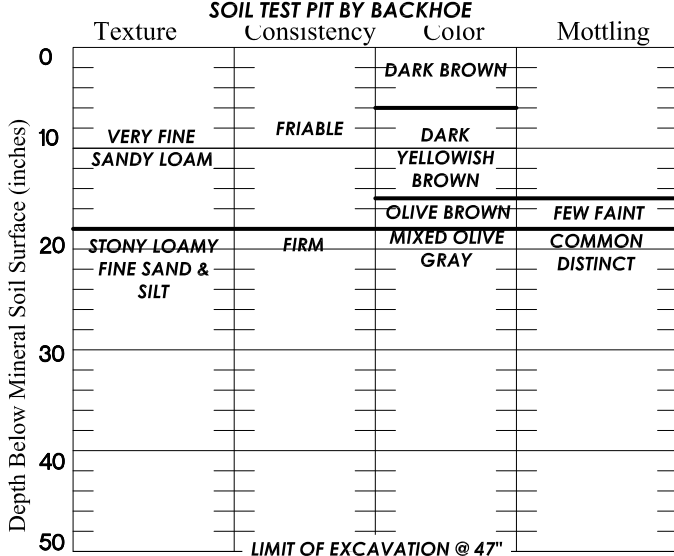


| | | | |
|------------------------|---------|-----------------|---|
| Soil Classification | Slope | Limiting Factor | <input type="checkbox"/> Ground Water |
| 2 All | _____ % | <u>17-26</u> " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input checked="" type="checkbox"/> Bedrock |
| LYMAN/TUNBRIDGE | | | <input type="checkbox"/> Pit Depth |

| | | | |
|---------------------|---------|-----------------|---|
| Soil Classification | Slope | Limiting Factor | <input type="checkbox"/> Ground Water |
| 2 All | _____ % | <u>9</u> " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input checked="" type="checkbox"/> Bedrock |
| LYMAN | | | <input type="checkbox"/> Pit Depth |

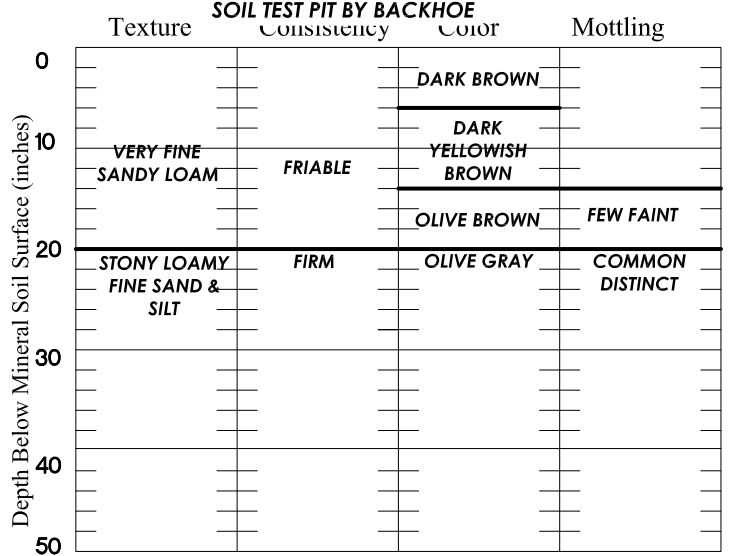
SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 23 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



| | | | |
|---------------------------|---------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 8 C | _____ % | <u>15</u> " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD (VARIANT) | | | <input type="checkbox"/> Pit Depth |

Observation Hole TP 24 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

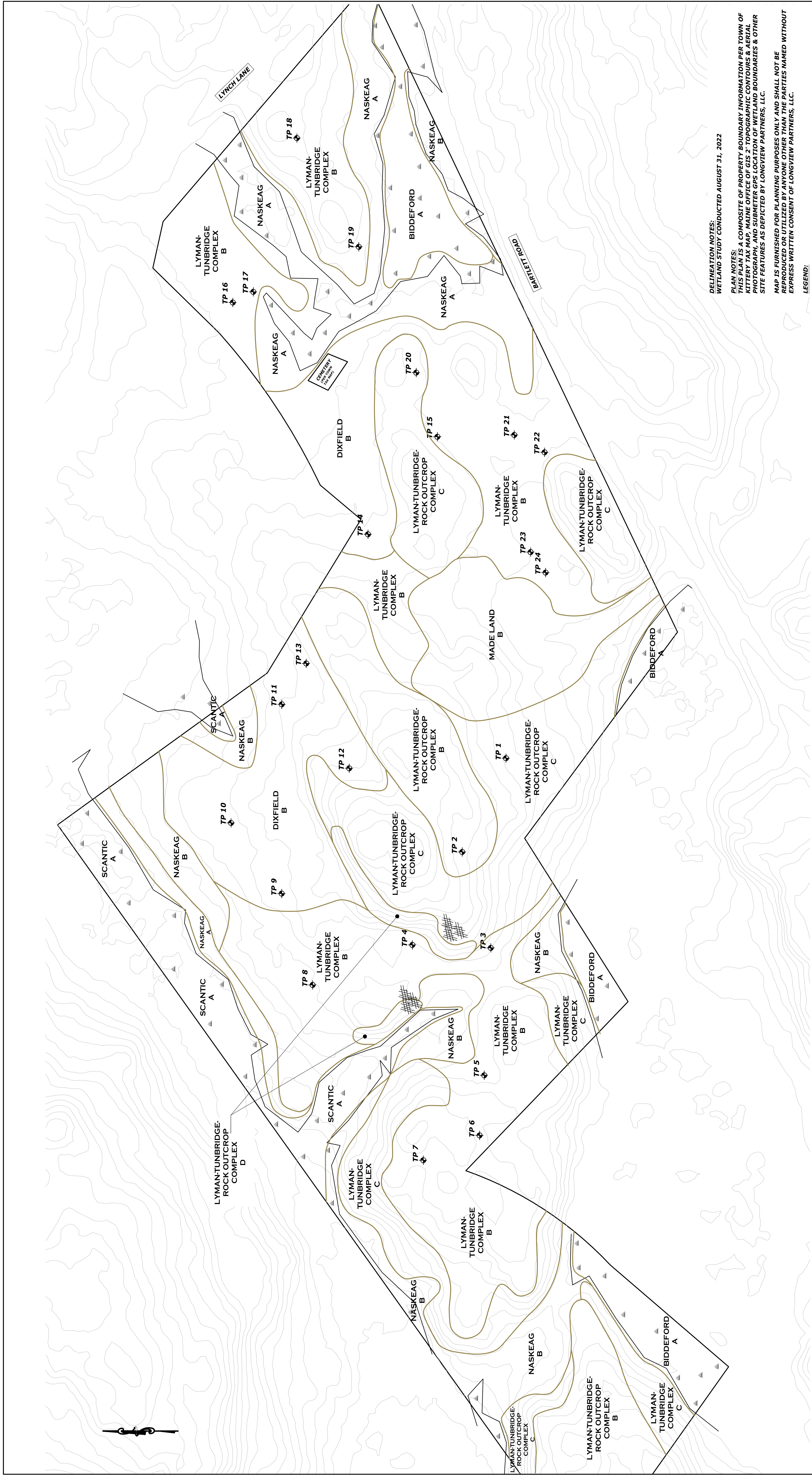


| | | | |
|---------------------------|---------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 8 C | _____ % | <u>14</u> " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD (VARIANT) | | | <input type="checkbox"/> Pit Depth |

James Logan
SIGNATURE

237/213
LSE/CSS #

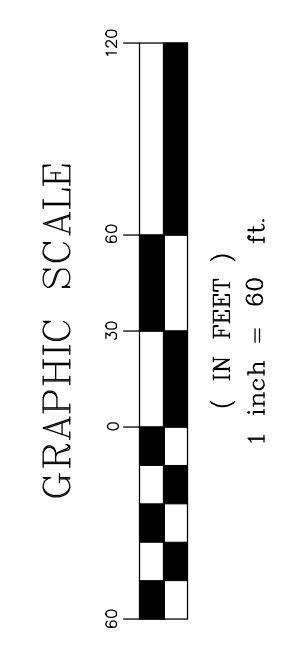
10/19/22
DATE



- SOILS MAP LEGEND:**
- TP SOIL TEST PIT (LOCATED BY LONGVIEW PARTNERS, LLC SUBMETER GPS)
 - SOIL BOUNDARY LINE
 - WETLAND BOUNDARY (LOCATED BY LONGVIEW PARTNERS, LLC SUBMETER GPS)
 - ## BEDROCK OUTCROPPING (LOCATED BY LONGVIEW PARTNERS, LLC SUBMETER GPS)

SLOPE DESIGNATION

| | |
|---|---------|
| A | 0 - 3% |
| B | 3 - 8% |
| C | 8 - 20% |
| D | 20%+ |



DELINEATION NOTES:
WETLAND STUDY CONDUCTED AUGUST 31, 2022

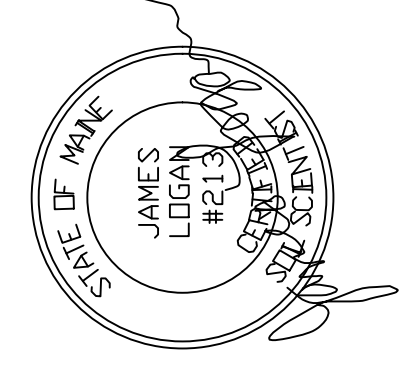
PLAN NOTES:
THIS PLAN IS A COMPOSITE OF PROPERTY BOUNDARY INFORMATION PER TOWN OF KITTERY TAX MAP, MAINE OFFICE OF GIS 2 TOPOGRAPHIC CONTOURS & AERIAL PHOTOGRAPH, AND SUBMETER GPS LOCATION OF WETLAND BOUNDARIES & OTHER SITE FEATURES AS DEPICTED BY LONGVIEW PARTNERS, LLC.

MAP IS FURNISHED FOR PLANNING PURPOSES ONLY AND SHALL NOT BE REPRODUCED OR UTILIZED BY ANYONE OTHER THAN THE PARTIES NAMED WITHOUT EXPRESS WRITTEN CONSENT OF LONGVIEW PARTNERS, LLC.

LEGEND:

- FRESHWATER WETLAND AREA (LOCATED BY LONGVIEW PARTNERS, LLC SUBMETER GPS)
- TP SOIL TEST PIT (LOCATED BY LONGVIEW PARTNERS, LLC SUBMETER GPS)
- ## BEDROCK OUTCROP (LOCATED BY LONGVIEW PARTNERS, LLC SUBMETER GPS)

CLASS A HIGH-INTENSITY SOIL SURVEY
PREPARED FOR
BOWLEY BUILDERS
77 BARTLETT ROAD
(MAP 62, LOT 26)
KITTERY, MAINE



NOTES: SEE ACCOMPANYING SOIL NARRATIVE REPORT, DATED DECEMBER, 2022
ALL SOIL TEST PITS EXCAVATED BY BACKHOE

THE ACCOMPANYING SOILS SURVEY WAS DONE IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE MAINE ASSOCIATION OF PROFESSIONAL SOIL SCIENTISTS, FEBRUARY 1995, AS AMENDED.



SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
 Div of Environmental Health, 11 SHS
 (207) 287-5672 Fax: (207) 287-4172

PROPERTY LOCATION

>> CAUTION: LPI APPROVAL REQUIRED <<

City, Town, or Plantation **KITTERY**

Street or Road **R.O.W. off BARTLETT ROAD**

Subdivision, Lot # **WASHBURN FARM, LOT 1**

Town/City _____ Permit # _____

Date Permit issued ___/___/___ Fee: \$ _____ Double Fee Charged

OWNER/APPLICANT INFORMATION

Name (last, first, MI) **BEACHWOOD DEVELOPMENT FUND** Owner Applicant

Mailing Address of Owner/Applicant **P.O. BOX 261**
KENNEBUNK, ME 04043

Daytime Tel. # _____

Local Plumbing Inspector Signature _____ LPI # _____

Owner Town State

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

Signature of Owner or Applicant _____ Date _____

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

_____ (1st) date approved

_____ (2nd) date approved

Municipal Tax Map # **62** Lot # **P/O 26**

PERMIT INFORMATION

| | |
|---|--|
| <h3>TYPE OF APPLICATION</h3> <p><input type="checkbox"/> 1. First Time System</p> <p><input type="checkbox"/> 2. Replacement System</p> <p>Type replaced: _____</p> <p>Year installed: _____</p> <p><input type="checkbox"/> 3. Expanded System</p> <p> a. <25% Expansion</p> <p> b. >25% Expansion</p> <p><input type="checkbox"/> 4. Experimental System</p> <p><input type="checkbox"/> 5. Seasonal Conversion</p> | <h3>THIS APPLICATION REQUIRES</h3> <p><input type="checkbox"/> 1. No Rule Variance</p> <p><input type="checkbox"/> 2. First Time System Variance</p> <p> a. Local Plumbing Inspector Approval</p> <p> b. State & Local Plumbing Inspector Approval</p> <p><input type="checkbox"/> 3. Replacement System Variance</p> <p> a. Local Plumbing Inspector Approval</p> <p> b. State & Local Plumbing Inspector Approval</p> <p><input type="checkbox"/> 4. Minimum Lot Size Variance</p> <p><input type="checkbox"/> 5. Seasonal Conversion Permit</p> |
| <h3>SIZE OF PROPERTY</h3> <p>0.57+/- SQ. FT. ACRES</p> | <h3>DISPOSAL SYSTEM TO SERVE</h3> <p><input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: 4</p> <p><input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____</p> <p><input type="checkbox"/> 3. Other: _____ (specify)</p> <p>Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped</p> |
| <h3>SHORELAND ZONING</h3> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> | |

DISPOSAL SYSTEM COMPONENTS

1. Complete Non-engineered System

2. Primitive System (graywater & alt. toilet)

3. Alternative Toilet, specify: _____

4. Non-engineered Treatment Tank (only)

5. Holding Tank, _____ gallons

6. Non-engineered Disposal Field (only)

7. Separated Laundry System

8. Complete Engineered System (2000 gpd or more)

9. Engineered Treatment Tank (only)

10. Engineered Disposal Field (only)

11. Pre-treatment, specify: _____

12. Miscellaneous Components

PROPOSED TYPE OF WATER SUPPLY

1. Drilled Well 2. Dug Well 3. Private

4. Public 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

| | | | |
|---|--|--|---|
| <h3>TREATMENT TANKS</h3> <p><input type="checkbox"/> 1. Concrete</p> <p> a. Regular</p> <p> b. Low Profile</p> <p><input type="checkbox"/> 2. Plastic</p> <p><input type="checkbox"/> 3. Other: _____</p> <p>CAPACITY: 1000 GAL.</p> | <h3>DISPOSAL FIELD TYPE & SIZE</h3> <p><input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench</p> <p><input type="checkbox"/> 3. Proprietary Device</p> <p> a. cluster array <input type="checkbox"/> c. Linear</p> <p> b. regular load <input type="checkbox"/> d. H-20 load</p> <p><input type="checkbox"/> 4. Other: _____</p> <p>SIZE: 1536 sq. ft. lin. ft.</p> <p>32 ELJEN GSF UNITS</p> | <h3>GARBAGE DISPOSAL UNIT</h3> <p><input type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe</p> <p>If Yes or Maybe, specify one below:</p> <p>a. multi-compartment tank</p> <p>b. _____ tanks in series</p> <p>c. increase in tank capacity</p> <p><input type="checkbox"/> d. Filter on Tank Outlet</p> <p>REQUIRED</p> | <h3>DESIGN FLOW</h3> <p>360 gallons per day</p> <p>BASED ON:</p> <p><input type="checkbox"/> 1. Table 4A (dwelling unit(s))</p> <p><input type="checkbox"/> 2. Table 4C (other facilities)</p> <p>SHOW CALCULATIONS for other facilities</p> <p>-SINGLE FAMILY DWELLING- 4 BEDROOMS @ 90 GPD EACH</p> |
| <h3>SOIL DATA & DESIGN CLASS</h3> <p>PROFILE CONDITION 2 / AII</p> <p>at Observation Hole # TP 53</p> <p>Depth 11 "</p> <p>of Most Limiting Soil Factor</p> | <h3>DISPOSAL FIELD SIZING</h3> <p><input type="checkbox"/> 1. Medium--2.6 sq. ft. / gpd</p> <p><input type="checkbox"/> 2. Medium--Large 3.3 sq. ft. / gpd</p> <p><input type="checkbox"/> 3. Large--4.1 sq. ft. / gpd</p> <p><input type="checkbox"/> 4. Extra Large--5.0 sq. ft. / gpd</p> | <h3>EFFLUENT/EJECTOR PUMP</h3> <p><input type="checkbox"/> 1. Not Required</p> <p><input type="checkbox"/> 2. May Be Required SEE NOTE PAGE 3</p> <p><input type="checkbox"/> 3. Required</p> <p>Specify only for engineered systems:</p> <p>DOSE: _____ gallons</p> | <p><input type="checkbox"/> 3. Section 4G (meter readings)</p> <p>ATTACH WATER METER DATA</p> <h3>LATITUDE AND LONGITUDE</h3> <p>at center of disposal area</p> <p>Lat. 43 d 06 m 39 s</p> <p>Lon. 70 d 41 m 21 s</p> <p>if g.p.s, state margin of error: _____</p> |

SITE EVALUATOR STATEMENT

I certify that on **11/28/23** (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

James Logan **237** **11/30/23**

Site Evaluator Signature SE # Date

JAMES LOGAN **207-693-8799** **longviewpartners213@gmail.com**

Site Evaluator Name Printed Telephone Number E-mail Address

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

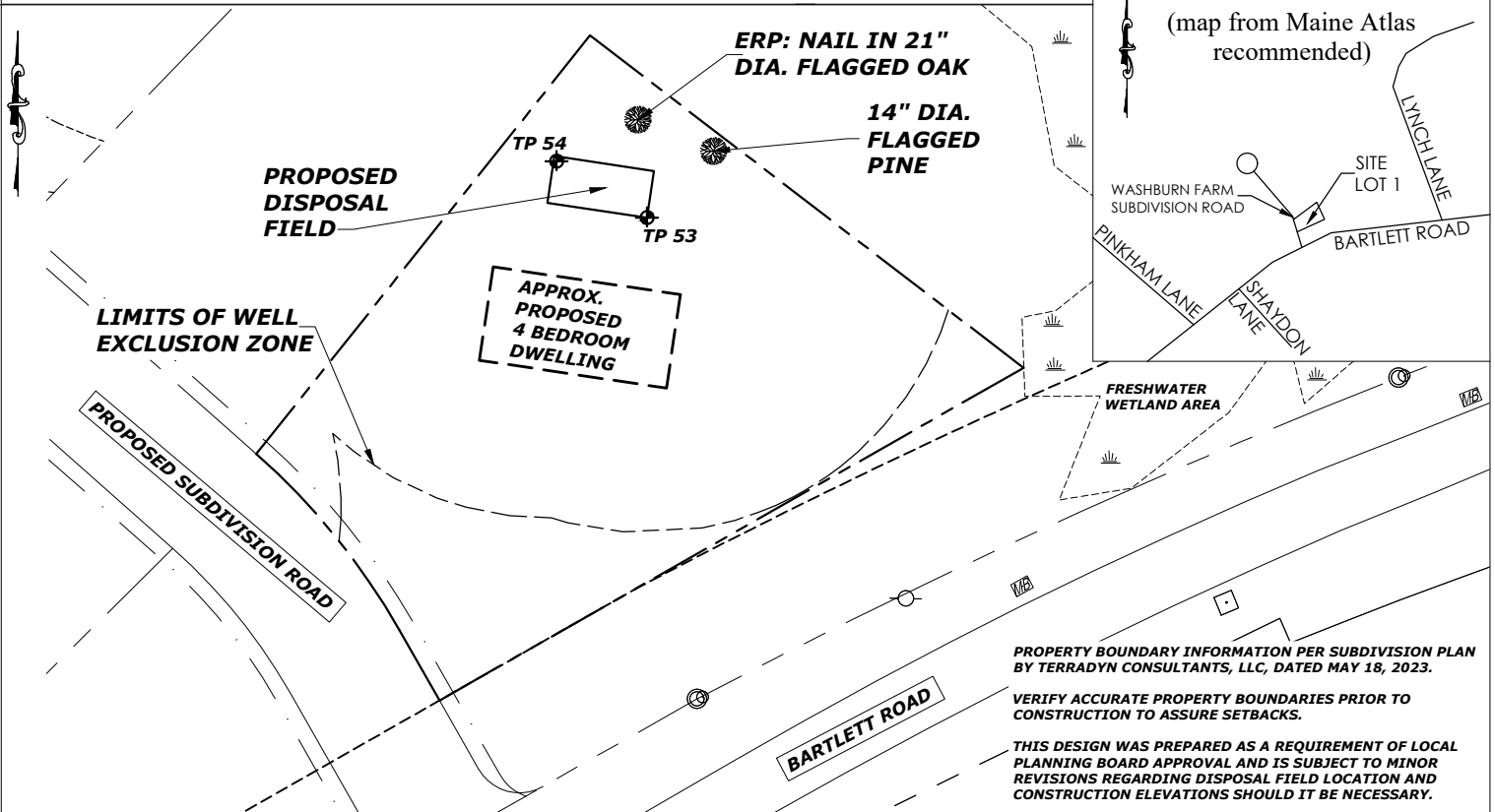
WASHBURN FARM SUBDIVISION, LOT 1

BEACHWOOD DEVELOPMENT FUND

SITE PLAN

Scale 1" = **60** ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas recommended)



PROPERTY BOUNDARY INFORMATION PER SUBDIVISION PLAN BY TERRADYN CONSULTANTS, LLC, DATED MAY 18, 2023.
 VERIFY ACCURATE PROPERTY BOUNDARIES PRIOR TO CONSTRUCTION TO ASSURE SETBACKS.
 THIS DESIGN WAS PREPARED AS A REQUIREMENT OF LOCAL PLANNING BOARD APPROVAL AND IS SUBJECT TO MINOR REVISIONS REGARDING DISPOSAL FIELD LOCATION AND CONSTRUCTION ELEVATIONS SHOULD IT BE NECESSARY.

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole **TP 53** ■ Test Pit □ Boring
 " Depth of Organic Horizon Above Mineral Soil

| Depth Below Mineral Soil Surface (inches) | Texture | Consistency | Color | Mottling |
|---|-----------------------|-------------|----------------------|--------------|
| | 0 | | FRIABLE | DARK BROWN |
| 10 | | | DARK YELLOWISH BROWN | |
| 20 | STONY FINE SANDY LOAM | | OLIVE BROWN | FEW FAINT |
| 30 | STONY SANDY LOAM | FIRM | OLIVE | COMMON FAINT |
| 40 | BEDROCK | | | |

| | | | |
|------------------------|--------------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 AIII/C | 6-7 % | 16 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| | | | <input type="checkbox"/> Pit Depth |

Observation Hole **TP 54** ■ Test Pit □ Boring
 " Depth of Organic Horizon Above Mineral Soil

| Depth Below Mineral Soil Surface (inches) | Texture | Consistency | Color | Mottling |
|---|-----------------------|-------------|----------------------|--------------|
| | 0 | | FRIABLE | DARK BROWN |
| 10 | STONY FINE SANDY LOAM | | DARK YELLOWISH BROWN | NONE EVIDENT |
| 20 | BEDROCK | | | |

| | | | |
|---------------------|--------------|-----------------|---|
| Soil Classification | Slope | Limiting Factor | <input type="checkbox"/> Ground Water |
| 2 All | 6-7 % | 11 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input checked="" type="checkbox"/> Bedrock |
| | | | <input type="checkbox"/> Pit Depth |

James Logan
 Site Evaluator Signature

237

SE #

11/30/23

Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

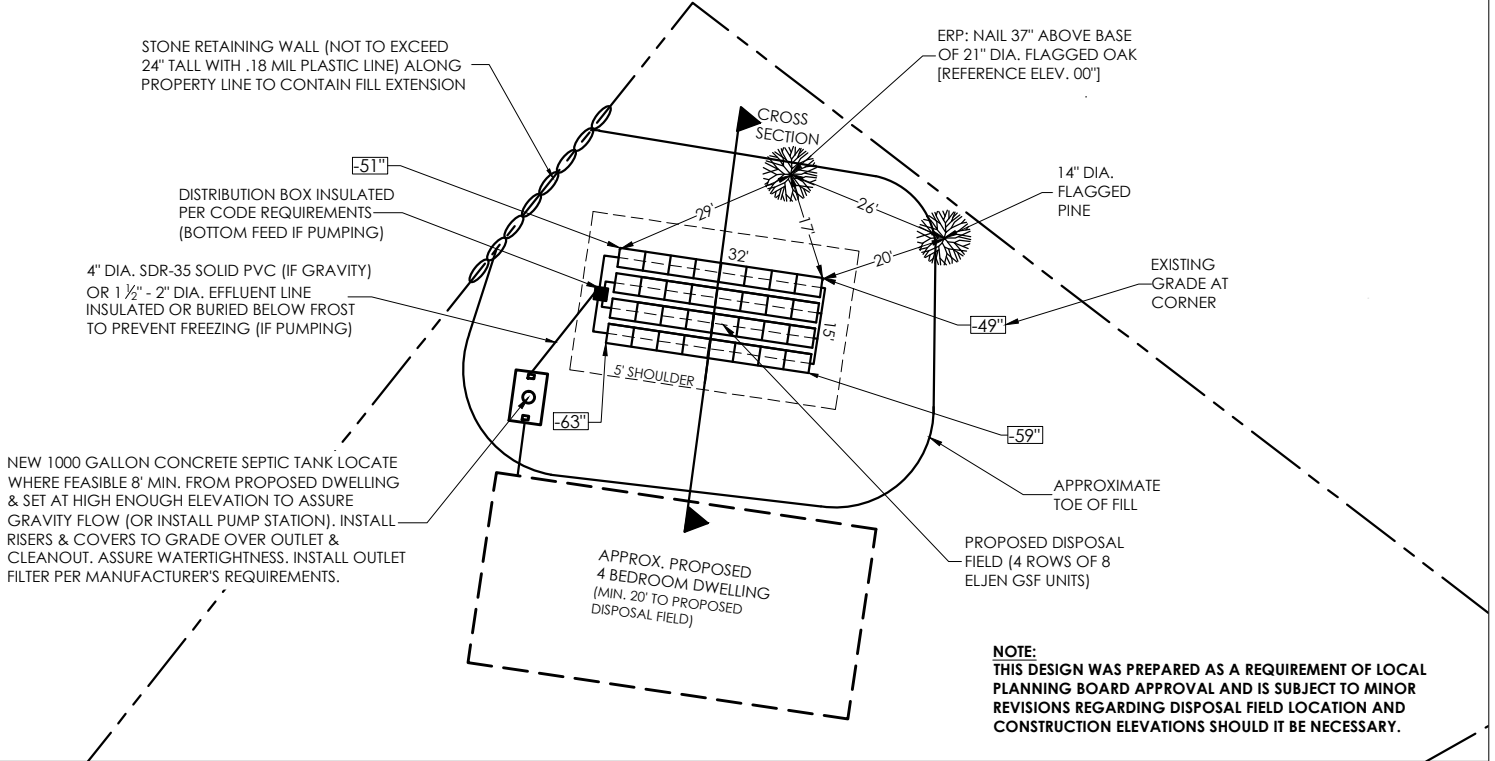
KITTERY

WASHBURN FARM SUBDIVISION, LOT 1

BEACHWOOD DEVELOPMENT FUND

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = **30** FT.



FILL REQUIREMENTS

CONSTRUCTION ELEVATIONS

ELEVATION REFERENCE POINT

Depth of Fill (Upslope) **36" - 38"** Finished Grade Elevation
 Top of Distribution Pipe or Proprietary Device

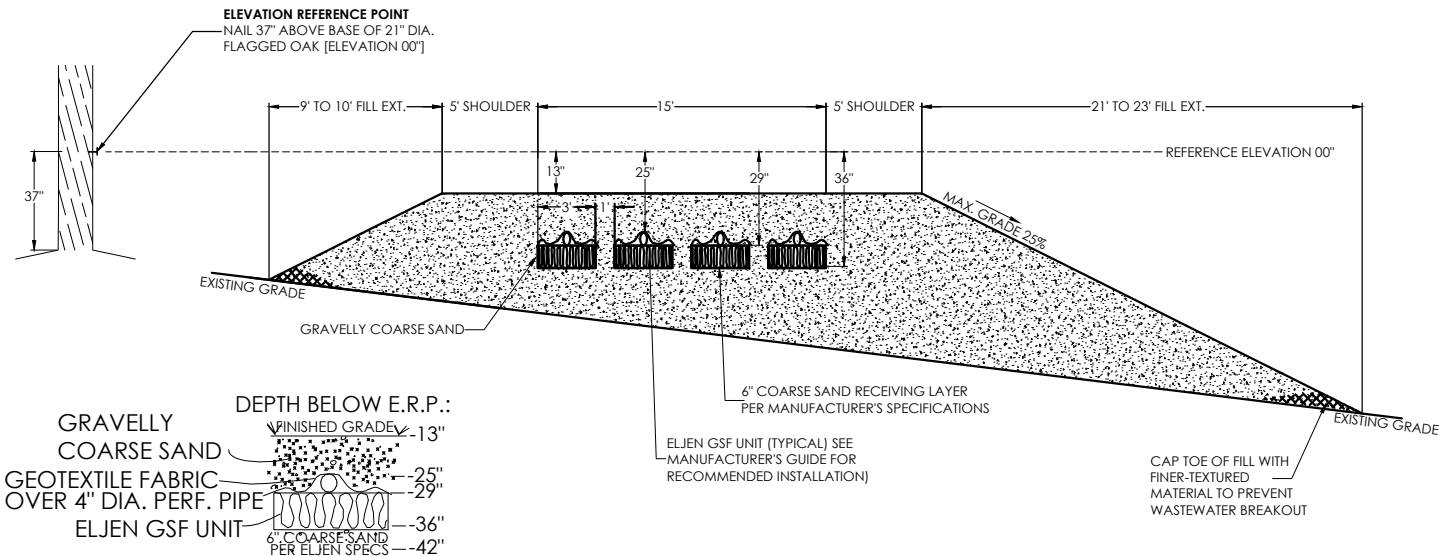
Depth of Fill (Downslope) **46" - 50"** Bottom of Disposal Area

**SEE
 DETAIL
 BELOW**

Location & Description:
NAIL 37" ABOVE BASE OF 21" DIA. FLAGGED OAK
 Reference Elevation: **00"**

DISPOSAL AREA CROSS SECTION

Scale
 Horizontal 1" = **10** ft.
 Vertical 1" = **5** ft.



James Logan
 Site Evaluator Signature

237

SE #

11/30/23

Date

DISPOSAL SYSTEM INSTALLATION NOTES

1. The State of Maine *Subsurface Wastewater Disposal Rules (10-144 Chapter 241 the Rules)* are incorporated by reference and made a part of this application. These shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system installer shall contact Longview Partners, LLC (207-693-8799) if there are any questions concerning materials, procedures or the design. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the *Rules* and with all State and municipal laws and ordinances pertaining to the permitting, construction, and inspection of subsurface wastewater disposal systems.
2. This application is intended to represent facts pertinent to the *Rules* only. It shall be the responsibility of the owner/applicant, system installer and/or building contractor to determine compliance with and to obtain other permits under all applicable local, State and/or Federal laws and regulations before installing the system or considering the property on which the system is to be installed a “buildable” lot. It is recommended that a wetland scientist be consulted regarding wetland regulations, should wet areas exist. Prior to commencement of construction/installation, the Local Plumbing Inspector or Code Enforcement Officer shall inform the owner/applicant and Longview Partners, LLC or any local ordinances which are more restrictive than the *Rules* in order that the design may be amended. All designs are subject to review by local, State and/or Federal authorities. Longview Partners, LLC’s liability shall be limited to revisions required by regulatory agencies and based on laws or regulations in effect at the time of preparation of this application.
3. All information shown on this application relating to property lines, well locations, subsurface structures, and underground facilities (such as utility lines, drains, septic systems, water lines, etc.) are based upon information provided by the owner/applicant and has been relied upon by Longview Partners, LLC in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties not readily visible above-grade (such as well points) should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.
4. Installation of a garbage (grinder) disposal is **not recommended**. If one is installed, an additional 1,000 gallon septic tank shall be connected in series to the proposed septic tank or a septic tank outlet filter shall be installed in the tank outlet. Risers and covers should be installed over the septic tank cleanout and outlet per the *Rules* for easy maintenance of the filter.
5. The septic tank should be pumped within 2 years of installation and subsequently as recommended by the pump service. **In no event should the septic tank be pumped less often than every 3 years.** The system use shall avoid introducing kitchen grease or fats into the system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life or performance.
6. All septic tanks, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration. Risers and covers should be properly installed to provide access while preventing surface water intrusion within 6” of a finished ground surface. Vehicular traffic over disposal system is prohibited unless specifically designed with H-20 rated components.

DISPOSAL SYSTEM INSTALLATION NOTES

7. The daily wastewater flow, number of bedrooms, or use of structure shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed.
8. The general minimum setbacks between a well (public or private) and septic system serving a single family residence are 100-300 feet, unless the local municipality has a more stringent requirement or a liner seal is installed in the well. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.
9. When a gravity flow is anticipated, **before construction/installation begins**, the system installer or building contractor shall review the elevation of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum pipe pitch requirements.
10. When an effluent pump is required, pump stations should be sized per manufacturer's specifications to meet lift requirements and friction/head loss. Provisions shall be made to make certain that surface and ground water does not enter the septic tank or pump station, by sealing/grouting all seams and connections, and by placement of a riser and cover at or above grade. An alarm device warning of a pump failure shall be installed. Bottom-feed distribution box is specified to prevent freezing. Insulate distribution boxes per the *Rules*.
11. On all systems, remove the vegetation, organic duff and roots, and old fill material from under the disposal area and any fill extension. Additional fill beyond indicated on the plan may be necessary to replace organic matter and/or stumps. On sites where the proposed disposal area is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling or scarifying with teeth of backhoe to a depth of at least 8 inches over the entire disposal field and fill extension are to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or different settling). Do not use wheeled equipment on the scarified soil until after 12 inches of fill is in place. Keep equipment off of proprietary leaching devices. Divert surface water away from the disposal area by ditching or shallow landscape swales.
12. Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more than 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process. Refer to the *Rules* for more specific information regarding fill and stone.
13. Seed all filled and disturbed surfaces with perennial grass seed, with 4 inches minimum soil or soil amendment mix suitable for growing, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover the system. Woody trees or shrubs are not permitted on the disposal field or fill extensions.
14. If an advanced wastewater treatment unit is part of this design, the system shall be operated and maintained per manufacturer's specifications.
15. Effluent (backwash) from water treatment units **SHALL NOT** be disposed of within this disposal system and **MUST** be redirected away from the disposal field

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
Div of Environmental Health, 11 SHS
(207) 287-5672 Fax: (207) 287-4172

PROPERTY LOCATION

>> CAUTION: LPI APPROVAL REQUIRED <<

City, Town, or Plantation **KITTERY**

Street or Road **R.O.W. off BARTLETT ROAD**

Subdivision, Lot # **WASHBURN FARM, LOT 2**

Town/City _____ Permit # _____

Date Permit issued ___/___/___ Fee: \$ _____ Double Fee Charged

Local Plumbing Inspector Signature _____ LPI # _____

Owner Town State

OWNER/APPLICANT INFORMATION

Name (last, first, MI) **BEACHWOOD DEVELOPMENT FUND** Owner Applicant

Mailing Address of Owner/Applicant **P.O. BOX 261**
KENNEBUNK, ME 04043

Daytime Tel. # _____

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map # **62** Lot # **P/O 26**

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. _____ (1st) date approved

Signature of Owner or Applicant _____ Date _____

Local Plumbing Inspector Signature _____ (2nd) date approved _____

PERMIT INFORMATION

| | | |
|---|--|---|
| TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input type="checkbox"/> 2. Replacement System Type replaced: _____ Year installed: _____ <input type="checkbox"/> 3. Expanded System a. <25% Expansion b. >25% Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion | THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3. Replacement System Variance a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit | DISPOSAL SYSTEM COMPONENTS <input type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components |
| SIZE OF PROPERTY 0.54+/- SQ. FT. ACRES | DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: 4 <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify) Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped | PROPOSED TYPE OF WATER SUPPLY <input type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other |
| SHORELAND ZONING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

| | | | |
|---|--|---|---|
| TREATMENT TANKS <input type="checkbox"/> 1. Concrete a. Regular b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: 1000 GAL. | DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device a. cluster array <input type="checkbox"/> c. Linear b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: 1536 sq. ft. lin. ft. 32 ELJEN GSF UNITS | GARBAGE DISPOSAL UNIT <input type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input type="checkbox"/> d. Filter on Tank Outlet REQUIRED | DESIGN FLOW 360 gallons per day BASED ON: <input type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities -SINGLE FAMILY DWELLING- 4 BEDROOMS @ 90 GPD EACH |
| SOIL DATA & DESIGN CLASS PROFILE CONDITION 3 / C at Observation Hole # TP 47 Depth 25 " of Most Limiting Soil Factor | DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Medium--2.6 sq. ft. / gpd <input type="checkbox"/> 2. Medium--Large 3.3 sq. ft. / gpd <input type="checkbox"/> 3. Large--4.1 sq. ft. / gpd <input type="checkbox"/> 4. Extra Large--5.0 sq. ft. / gpd | EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required SEE NOTE PAGE 3 <input type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons | <input type="checkbox"/> 3. Section 4G (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. 43 d 06 m 40 s Lon. 70 d 41 m 23 s if g.p.s, state margin of error: _____ |

SITE EVALUATOR STATEMENT

I certify that on **11/28/23** (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

James Logan
Site Evaluator Signature

237
SE #

11/30/23
Date

JAMES LOGAN
Site Evaluator Name Printed

207-693-8799
Telephone Number

longviewpartners213@gmail.com
E-mail Address

Note : Changes to or deviations from the design should be confirmed with the Site Evaluator.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

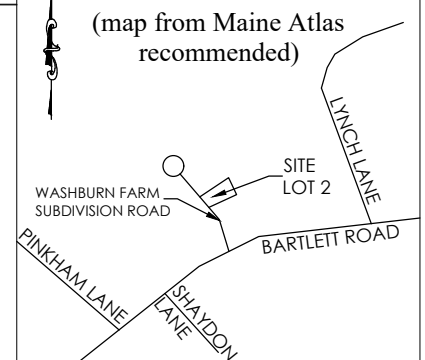
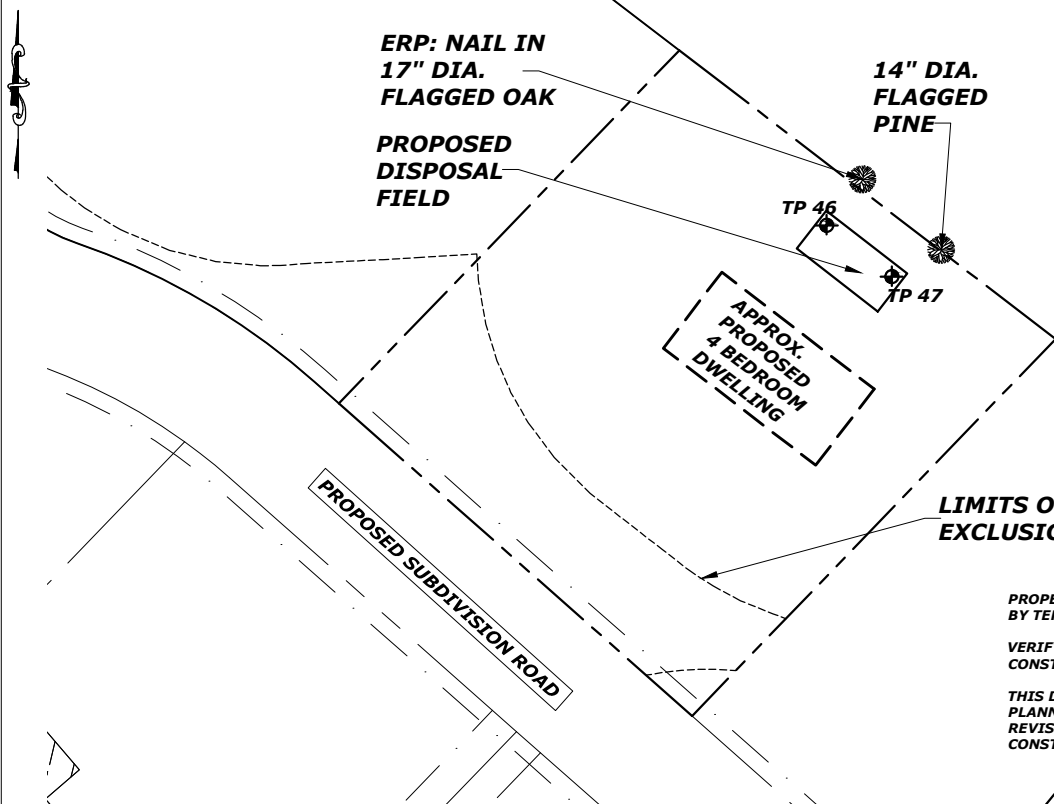
WASHBURN FARM SUBDIVISION, LOT 2

BEACHWOOD DEVELOPMENT FUND

SITE PLAN

Scale 1" = **60** ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas recommended)



PROPERTY BOUNDARY INFORMATION PER SUBDIVISION PLAN BY TERRADYN CONSULTANTS, LLC, DATED MAY 18, 2023.

VERIFY ACCURATE PROPERTY BOUNDARIES PRIOR TO CONSTRUCTION TO ASSURE SETBACKS.

THIS DESIGN WAS PREPARED AS A REQUIREMENT OF LOCAL PLANNING BOARD APPROVAL AND IS SUBJECT TO MINOR REVISIONS REGARDING DISPOSAL FIELD LOCATION AND CONSTRUCTION ELEVATIONS SHOULD IT BE NECESSARY.

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole **TP 46** ■ Test Pit □ Boring
 " Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|-------------------------|-------------|----------------------|-----------------|
| STONY SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN | |
| | | YELLOWISH BROWN | FEW FAINT |
| STONY LOAMY SAND & SAND | FIRM | OLIVE | COMMON DISTINCT |

| | | | |
|---------------------|--------------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | 0-5 % | 26 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| | | | <input type="checkbox"/> Pit Depth |

Observation Hole **TP 47** ■ Test Pit □ Boring
 " Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
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| STONY LOAMY SAND & SAND | FIRM | OLIVE | COMMON DISTINCT |

| | | | |
|---------------------|--------------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | 0-5 % | 25 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| | | | <input type="checkbox"/> Pit Depth |

James Logan
 Site Evaluator Signature

237

SE #

11/30/23

Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

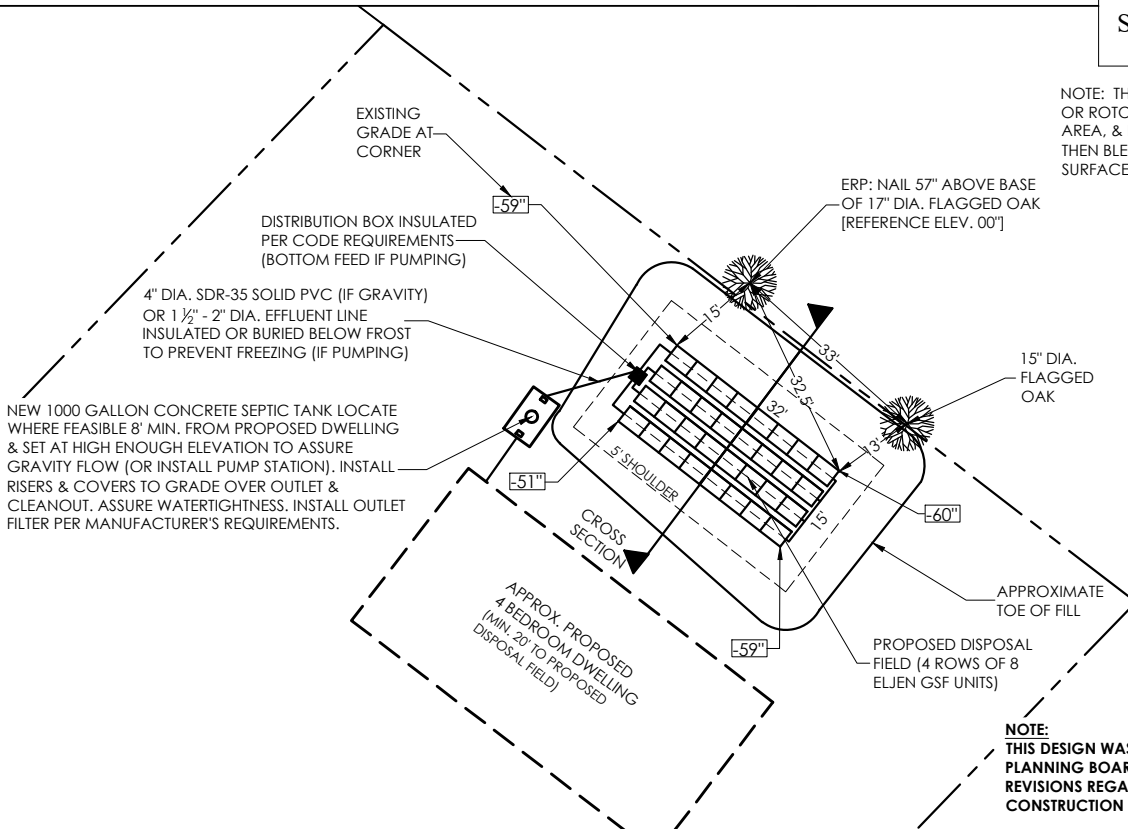
KITTERY

WASHBURN FARM SUBDIVISION, LOT 2

BEACHWOOD DEVELOPMENT FUND

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = **30** FT.



NOTE: THOROUGHLY SCARIFY WITH EXCAVATOR TEETH OR ROTOTILL UNDER ENTIRE DISPOSAL FIELD, SHOULDER AREA, & FILL EXTENSION AREA PRIOR TO FILL PLACEMENT, THEN BLEND FIRST 6" LIFT OF FILL INTO EXISTING SOIL SURFACE TO PROMOTE MIXING

NOTE: THIS DESIGN WAS PREPARED AS A REQUIREMENT OF LOCAL PLANNING BOARD APPROVAL AND IS SUBJECT TO MINOR REVISIONS REGARDING DISPOSAL FIELD LOCATION AND CONSTRUCTION ELEVATIONS SHOULD IT BE NECESSARY.

FILL REQUIREMENTS

CONSTRUCTION ELEVATIONS

ELEVATION REFERENCE POINT

Depth of Fill (Upslope) **10" - 18"** Finished Grade Elevation
Top of Distribution Pipe or Proprietary Device

Depth of Fill (Downslope) **18" - 19"** Bottom of Disposal Area

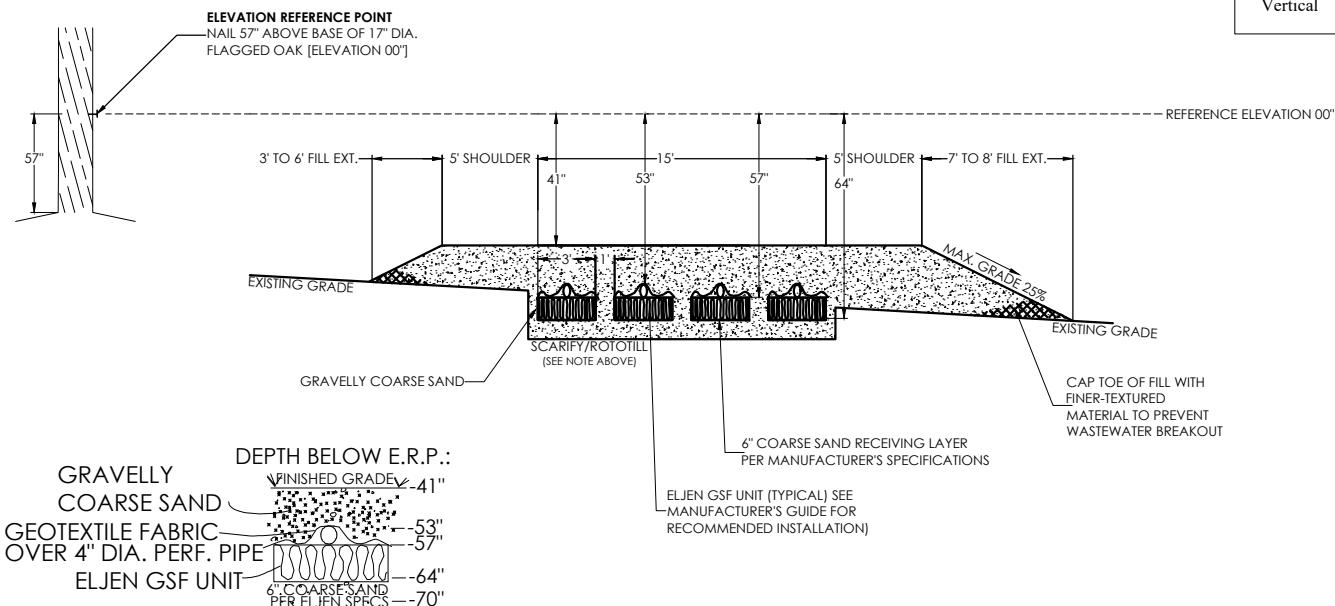
**SEE
DETAIL
BELOW**

Location & Description:
NAIL 57" ABOVE BASE OF 17" DIA. FLAGGED OAK

Reference Elevation: **00"**

DISPOSAL AREA CROSS SECTION

Scale
Horizontal 1" = **10** ft.
Vertical 1" = **5** ft.



James Logan
Site Evaluator Signature

237

SE #

11/30/23

Date

Page 3 of 3
HHE-200 Rev. 8/01

DISPOSAL SYSTEM INSTALLATION NOTES

1. The State of Maine *Subsurface Wastewater Disposal Rules (10-144 Chapter 241 the Rules)* are incorporated by reference and made a part of this application. These shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system installer shall contact Longview Partners, LLC (207-693-8799) if there are any questions concerning materials, procedures or the design. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the *Rules* and with all State and municipal laws and ordinances pertaining to the permitting, construction, and inspection of subsurface wastewater disposal systems.
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DISPOSAL SYSTEM INSTALLATION NOTES

7. The daily wastewater flow, number of bedrooms, or use of structure shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed.
8. The general minimum setbacks between a well (public or private) and septic system serving a single family residence are 100-300 feet, unless the local municipality has a more stringent requirement or a liner seal is installed in the well. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.
9. When a gravity flow is anticipated, **before construction/installation begins**, the system installer or building contractor shall review the elevation of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum pipe pitch requirements.
10. When an effluent pump is required, pump stations should be sized per manufacturer's specifications to meet lift requirements and friction/head loss. Provisions shall be made to make certain that surface and ground water does not enter the septic tank or pump station, by sealing/grouting all seams and connections, and by placement of a riser and cover at or above grade. An alarm device warning of a pump failure shall be installed. Bottom-feed distribution box is specified to prevent freezing. Insulate distribution boxes per the *Rules*.
11. On all systems, remove the vegetation, organic duff and roots, and old fill material from under the disposal area and any fill extension. Additional fill beyond indicated on the plan may be necessary to replace organic matter and/or stumps. On sites where the proposed disposal area is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling or scarifying with teeth of backhoe to a depth of at least 8 inches over the entire disposal field and fill extension are to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or different settling). Do not use wheeled equipment on the scarified soil until after 12 inches of fill is in place. Keep equipment off of proprietary leaching devices. Divert surface water away from the disposal area by ditching or shallow landscape swales.
12. Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more than 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process. Refer to the *Rules* for more specific information regarding fill and stone.
13. Seed all filled and disturbed surfaces with perennial grass seed, with 4 inches minimum soil or soil amendment mix suitable for growing, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover the system. Woody trees or shrubs are not permitted on the disposal field or fill extensions.
14. If an advanced wastewater treatment unit is part of this design, the system shall be operated and maintained per manufacturer's specifications.
15. Effluent (backwash) from water treatment units **SHALL NOT** be disposed of within this disposal system and **MUST** be redirected away from the disposal field

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
Div of Environmental Health, 11 SHS
(207) 287-5672 Fax: (207) 287-4172

PROPERTY LOCATION

>> CAUTION: LPI APPROVAL REQUIRED <<

City, Town, or Plantation: **KITTERY**

Street or Road: **R.O.W. off BARTLETT ROAD**

Subdivision, Lot #: **WASHBURN FARM, LOT 3**

Town/City: _____ Permit #: _____

Date Permit issued: ___/___/___ Fee: \$ _____ Double Fee Charged:

Local Plumbing Inspector Signature: _____ LPI #: _____

Owner Town State

OWNER/APPLICANT INFORMATION

Name (last, first, MI): **BEACHWOOD DEVELOPMENT FUND** Owner Applicant

Mailing Address of Owner/Applicant: **P.O. BOX 261**
KENNEBUNK, ME 04043

Daytime Tel. #: _____

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map #: **62** Lot #: **P/O 26**

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. _____ (1st) date approved

Signature of Owner or Applicant _____ Date _____

Local Plumbing Inspector Signature _____ (2nd) date approved _____

PERMIT INFORMATION

| | | |
|---|--|---|
| TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input type="checkbox"/> 2. Replacement System Type replaced: _____ Year installed: _____ <input type="checkbox"/> 3. Expanded System a. <25% Expansion b. >25% Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion | THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3. Replacement System Variance a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit | DISPOSAL SYSTEM COMPONENTS <input type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components |
| SIZE OF PROPERTY 0.67+/- SQ. FT. ACRES | DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: 4 <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify) Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped | PROPOSED TYPE OF WATER SUPPLY <input type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other |

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

| | | | |
|---|--|---|---|
| TREATMENT TANKS <input type="checkbox"/> 1. Concrete a. Regular b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: 1000 GAL. | DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device a. cluster array <input type="checkbox"/> c. Linear b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: 1536 sq. ft. lin. ft. 32 ELJEN GSF UNITS | GARBAGE DISPOSAL UNIT <input type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input type="checkbox"/> d. Filter on Tank Outlet REQUIRED | DESIGN FLOW 360 gallons per day BASED ON: <input type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities -SINGLE FAMILY DWELLING- 4 BEDROOMS @ 90 GPD EACH |
| SOIL DATA & DESIGN CLASS PROFILE CONDITION: 2 / AII at Observation Hole # TP 58 Depth 13 " of Most Limiting Soil Factor | DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Medium--2.6 sq. ft. / gpd <input type="checkbox"/> 2. Medium--Large 3.3 sq. ft. / gpd <input type="checkbox"/> 3. Large--4.1 sq. ft. / gpd <input type="checkbox"/> 4. Extra Large--5.0 sq. ft. / gpd | EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required SEE NOTE PAGE 3 <input type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons | <input type="checkbox"/> 3. Section 4G (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. 43 d 06 m 41 s Lon. 70 d 41 m 25 s if g.p.s, state margin of error: _____ |

SITE EVALUATOR STATEMENT

I certify that on **11/28/23** (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

James Logan
Site Evaluator Signature

237
SE #

11/30/23
Date

JAMES LOGAN
Site Evaluator Name Printed

207-693-8799
Telephone Number

longviewpartners213@gmail.com
E-mail Address

Note : Changes to or deviations from the design should be confirmed with the Site Evaluator.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

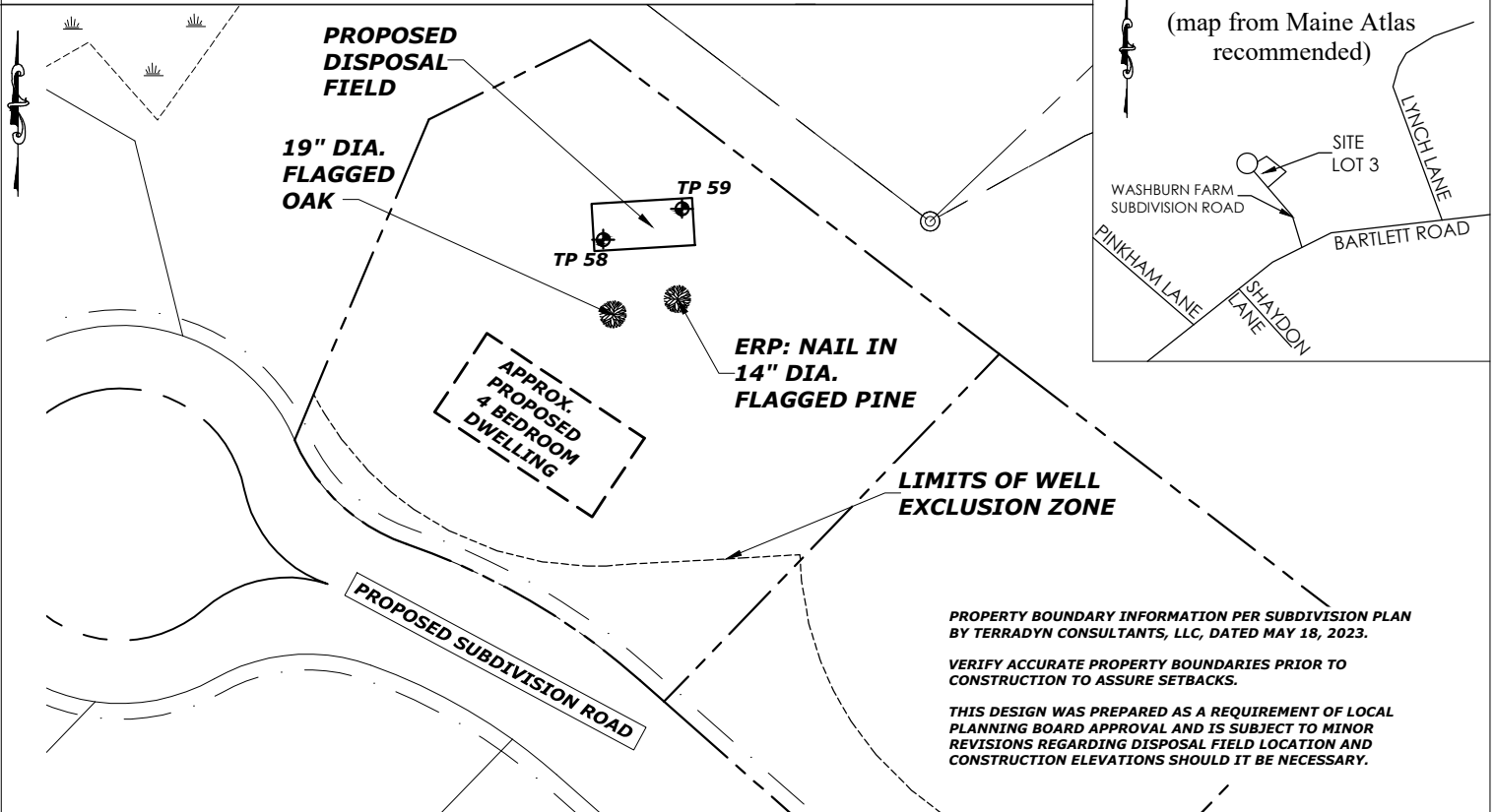
WASHBURN FARM SUBDIVISION, LOT 3

BEACHWOOD DEVELOPMENT FUND

SITE PLAN

Scale 1" = 60 ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas recommended)



SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole **TP 58** ■ Test Pit □ Boring
 " Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|-----------------------|-------------|----------------------|--------------|
| STONY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN | NONE EVIDENT |
| BEDROCK | | | |

Depth Below Mineral Soil Surface (inches)

| | | | |
|-----------------------------------|--------------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
| 2 All Profile Condition | 6-7 % | 13 " | |

Observation Hole **TP 59** ■ Test Pit □ Boring
 " Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|-----------------------|-------------|----------------------|-----------------|
| STONY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN | |
| | | DARK BROWN | |
| | | OLIVE BROWN | FEW FAINT |
| STONY LOAMY SAND | FIRM | OLIVE | COMMON DISTINCT |
| BEDROCK | | | |

Depth Below Mineral Soil Surface (inches)

| | | | |
|--------------------------------------|--------------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
| 3 AIII/C Profile Condition | 6-7 % | 17 " | |

James Logan
 Site Evaluator Signature

237

SE #

11/30/23

Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

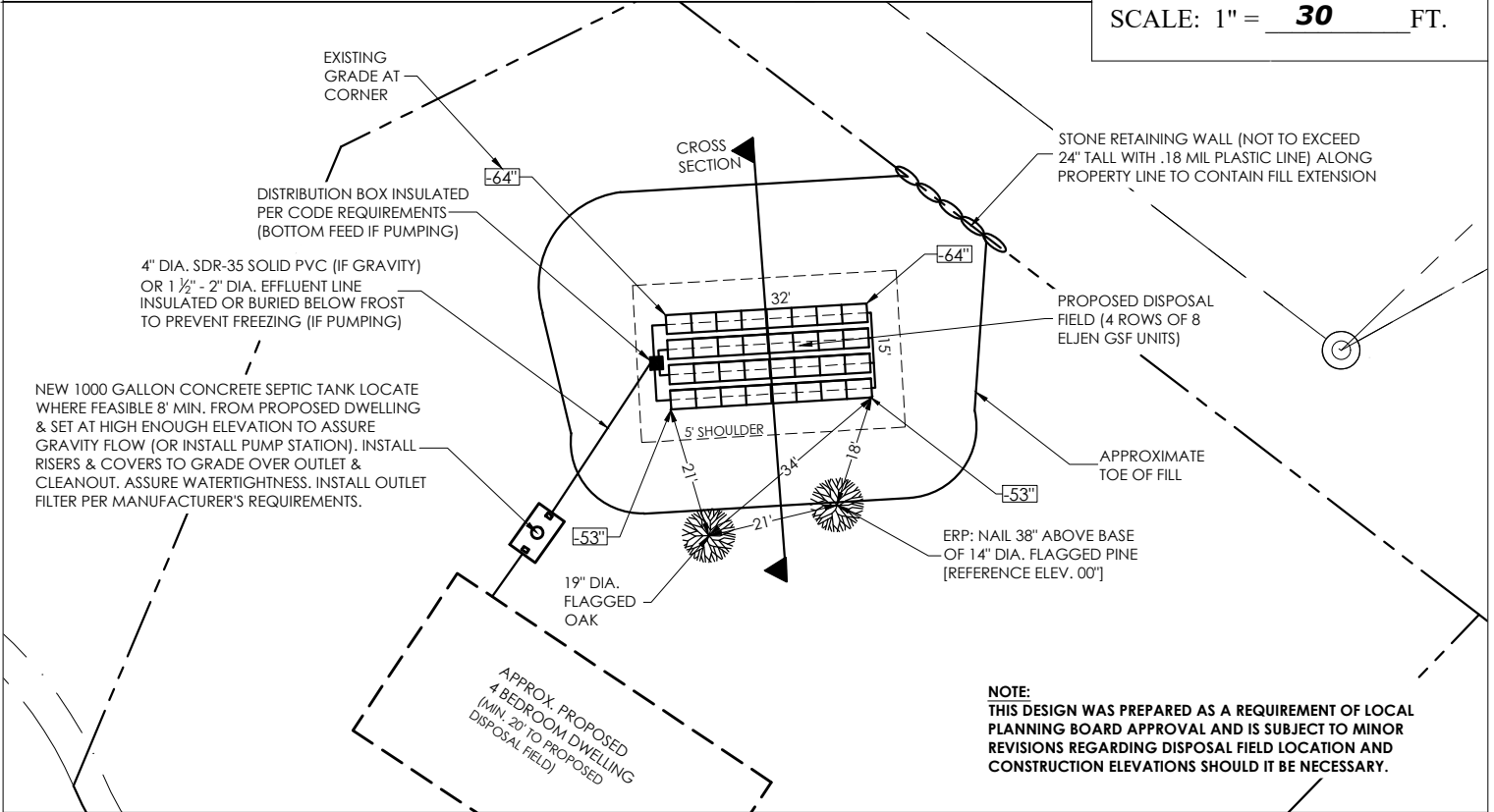
KITTERY

WASHBURN FARM SUBDIVISION, LOT 3

BEACHWOOD DEVELOPMENT FUND

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = **30** FT.



FILL REQUIREMENTS

CONSTRUCTION ELEVATIONS

ELEVATION REFERENCE POINT

Depth of Fill (Upslope) **34"**

Finished Grade Elevation

SEE

Location & Description:

Top of Distribution Pipe or Proprietary Device

DETAIL

NAIL 38" ABOVE BASE OF 14" DIA. FLAGGED PINE

Depth of Fill (Downslope) **45"**

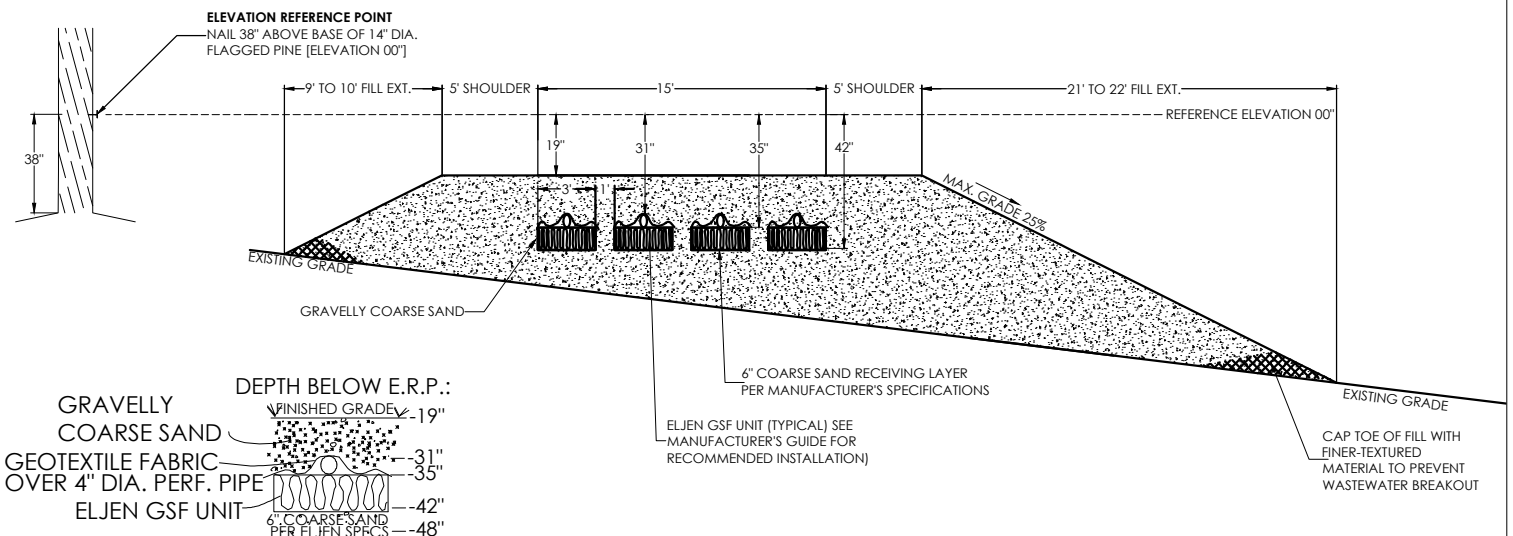
Bottom of Disposal Area

BELOW

Reference Elevation: **00"**

DISPOSAL AREA CROSS SECTION

Scale
 Horizontal 1" = **10** ft.
 Vertical 1" = **5** ft.



James Logan
 Site Evaluator Signature

237

SE #

11/30/23

Date

DISPOSAL SYSTEM INSTALLATION NOTES

1. The State of Maine *Subsurface Wastewater Disposal Rules (10-144 Chapter 241 the Rules)* are incorporated by reference and made a part of this application. These shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system installer shall contact Longview Partners, LLC (207-693-8799) if there are any questions concerning materials, procedures or the design. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the *Rules* and with all State and municipal laws and ordinances pertaining to the permitting, construction, and inspection of subsurface wastewater disposal systems.
2. This application is intended to represent facts pertinent to the *Rules* only. It shall be the responsibility of the owner/applicant, system installer and/or building contractor to determine compliance with and to obtain other permits under all applicable local, State and/or Federal laws and regulations before installing the system or considering the property on which the system is to be installed a “buildable” lot. It is recommended that a wetland scientist be consulted regarding wetland regulations, should wet areas exist. Prior to commencement of construction/installation, the Local Plumbing Inspector or Code Enforcement Officer shall inform the owner/applicant and Longview Partners, LLC or any local ordinances which are more restrictive than the *Rules* in order that the design may be amended. All designs are subject to review by local, State and/or Federal authorities. Longview Partners, LLC’s liability shall be limited to revisions required by regulatory agencies and based on laws or regulations in effect at the time of preparation of this application.
3. All information shown on this application relating to property lines, well locations, subsurface structures, and underground facilities (such as utility lines, drains, septic systems, water lines, etc.) are based upon information provided by the owner/applicant and has been relied upon by Longview Partners, LLC in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties not readily visible above-grade (such as well points) should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.
4. Installation of a garbage (grinder) disposal is **not recommended**. If one is installed, an additional 1,000 gallon septic tank shall be connected in series to the proposed septic tank or a septic tank outlet filter shall be installed in the tank outlet. Risers and covers should be installed over the septic tank cleanout and outlet per the *Rules* for easy maintenance of the filter.
5. The septic tank should be pumped within 2 years of installation and subsequently as recommended by the pump service. **In no event should the septic tank be pumped less often than every 3 years.** The system use shall avoid introducing kitchen grease or fats into the system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life or performance.
6. All septic tanks, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration. Risers and covers should be properly installed to provide access while preventing surface water intrusion within 6” of a finished ground surface. Vehicular traffic over disposal system is prohibited unless specifically designed with H-20 rated components.

DISPOSAL SYSTEM INSTALLATION NOTES

7. The daily wastewater flow, number of bedrooms, or use of structure shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed.
8. The general minimum setbacks between a well (public or private) and septic system serving a single family residence are 100-300 feet, unless the local municipality has a more stringent requirement or a liner seal is installed in the well. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.
9. When a gravity flow is anticipated, **before construction/installation begins**, the system installer or building contractor shall review the elevation of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum pipe pitch requirements.
10. When an effluent pump is required, pump stations should be sized per manufacturer's specifications to meet lift requirements and friction/head loss. Provisions shall be made to make certain that surface and ground water does not enter the septic tank or pump station, by sealing/grouting all seams and connections, and by placement of a riser and cover at or above grade. An alarm device warning of a pump failure shall be installed. Bottom-feed distribution box is specified to prevent freezing. Insulate distribution boxes per the *Rules*.
11. On all systems, remove the vegetation, organic duff and roots, and old fill material from under the disposal area and any fill extension. Additional fill beyond indicated on the plan may be necessary to replace organic matter and/or stumps. On sites where the proposed disposal area is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling or scarifying with teeth of backhoe to a depth of at least 8 inches over the entire disposal field and fill extension are to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or different settling). Do not use wheeled equipment on the scarified soil until after 12 inches of fill is in place. Keep equipment off of proprietary leaching devices. Divert surface water away from the disposal area by ditching or shallow landscape swales.
12. Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more than 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process. Refer to the *Rules* for more specific information regarding fill and stone.
13. Seed all filled and disturbed surfaces with perennial grass seed, with 4 inches minimum soil or soil amendment mix suitable for growing, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover the system. Woody trees or shrubs are not permitted on the disposal field or fill extensions.
14. If an advanced wastewater treatment unit is part of this design, the system shall be operated and maintained per manufacturer's specifications.
15. Effluent (backwash) from water treatment units **SHALL NOT** be disposed of within this disposal system and **MUST** be redirected away from the disposal field

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
Div of Environmental Health, 11 SHS
(207) 287-5672 Fax: (207) 287-4172

PROPERTY LOCATION

>> CAUTION: LPI APPROVAL REQUIRED <<

City, Town, or Plantation: **KITTERY**

Street or Road: **R.O.W. off BARTLETT ROAD**

Subdivision, Lot #: **WASHBURN FARM, LOT 4**

Town/City: _____ Permit #: _____

Date Permit issued: ___/___/___ Fee: \$ _____ Double Fee Charged:

Local Plumbing Inspector Signature: _____ LPI #: _____

Owner Town State

OWNER/APPLICANT INFORMATION

Name (last, first, MI): **BEACHWOOD DEVELOPMENT FUND** Owner Applicant

Mailing Address of Owner/Applicant: **P.O. BOX 261**
KENNEBUNK, ME 04043

Daytime Tel. #: _____

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map #: **62** Lot #: **P/O 26**

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. _____ (1st) date approved

Signature of Owner or Applicant _____ Date _____

Local Plumbing Inspector Signature _____ (2nd) date approved _____

PERMIT INFORMATION

| | | |
|---|--|---|
| TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input type="checkbox"/> 2. Replacement System Type replaced: _____ Year installed: _____ <input type="checkbox"/> 3. Expanded System a. <25% Expansion b. >25% Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion | THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3. Replacement System Variance a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit | DISPOSAL SYSTEM COMPONENTS <input type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components |
| SIZE OF PROPERTY 0.61 +/- <small>SQ. FT. ACRES</small> | DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: 4 <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify) Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped | PROPOSED TYPE OF WATER SUPPLY <input type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other |
| SHORELAND ZONING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

| | | | |
|---|--|---|---|
| TREATMENT TANKS <input type="checkbox"/> 1. Concrete a. Regular b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: 1000 GAL. | DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device a. cluster array <input type="checkbox"/> c. Linear b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: 1536 [sq. ft.] [lin. ft.] 32 ELJEN GSF UNITS | GARBAGE DISPOSAL UNIT <input type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input type="checkbox"/> d. Filter on Tank Outlet REQUIRED | DESIGN FLOW 360 gallons per day BASED ON: <input type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities -SINGLE FAMILY DWELLING- 4 BEDROOMS @ 90 GPD EACH |
| SOIL DATA & DESIGN CLASS PROFILE CONDITION 3 / C at Observation Hole # TP 60 Depth 20 " of Most Limiting Soil Factor | DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Medium--2.6 sq. ft. / gpd <input type="checkbox"/> 2. Medium--Large 3.3 sq. ft. / gpd <input type="checkbox"/> 3. Large--4.1 sq. ft. / gpd <input type="checkbox"/> 4. Extra Large--5.0 sq. ft. / gpd | EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required SEE NOTE PAGE 3 <input type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons | <input type="checkbox"/> 3. Section 4G (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. 43 d 06 m 41 s Lon. 70 d 41 m 30 s if g.p.s, state margin of error: _____ |

SITE EVALUATOR STATEMENT

I certify that on **11/28/23** (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

James Logan
Site Evaluator Signature

237
SE #

11/30/23
Date

JAMES LOGAN
Site Evaluator Name Printed

207-693-8799
Telephone Number

longviewpartners213@gmail.com
E-mail Address

Note : Changes to or deviations from the design should be confirmed with the Site Evaluator.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

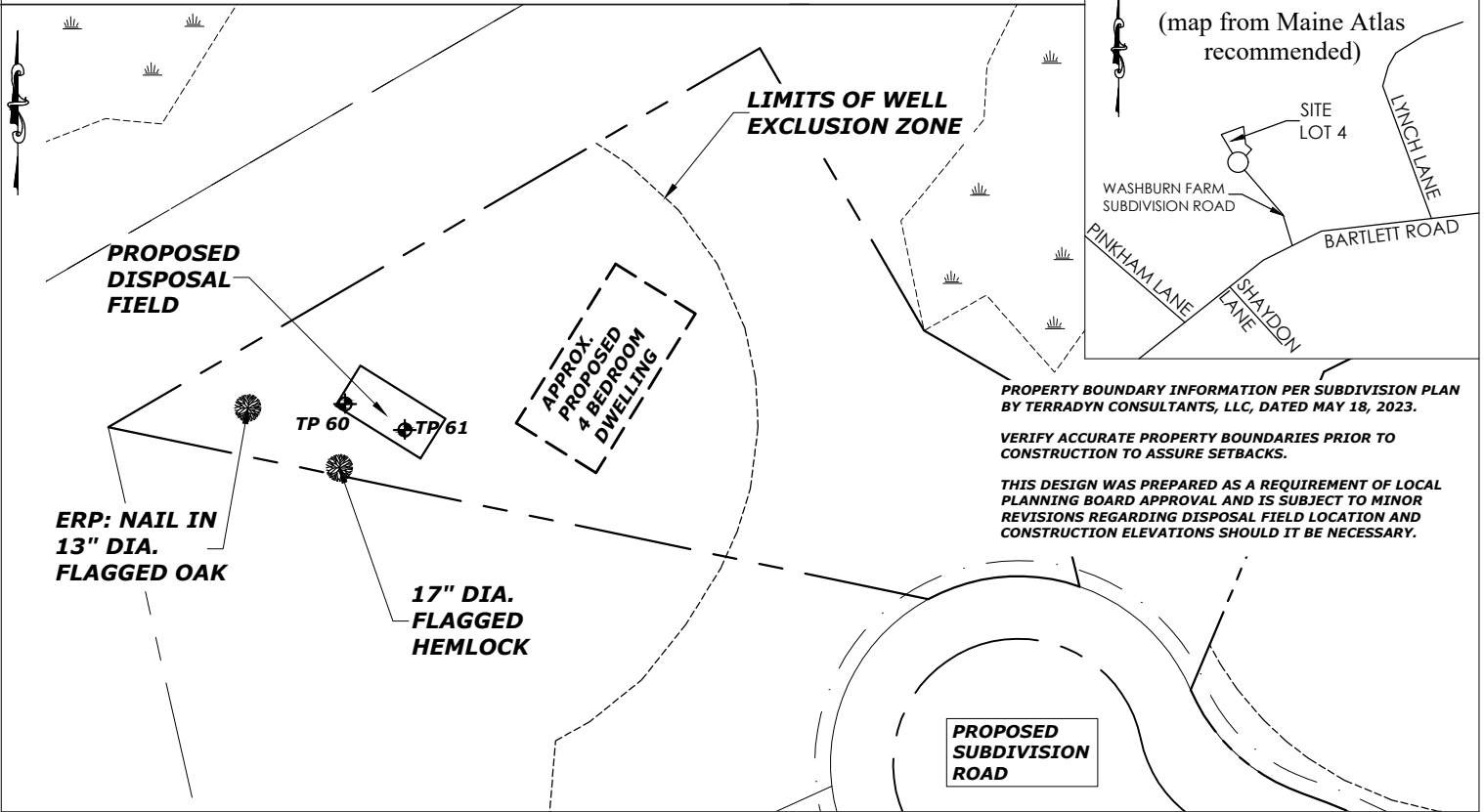
WASHBURN FARM SUBDIVISION, LOT 4

BEACHWOOD DEVELOPMENT FUND

SITE PLAN

Scale 1" = **60** ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas recommended)



PROPERTY BOUNDARY INFORMATION PER SUBDIVISION PLAN BY TERRADYN CONSULTANTS, LLC, DATED MAY 18, 2023.

VERIFY ACCURATE PROPERTY BOUNDARIES PRIOR TO CONSTRUCTION TO ASSURE SETBACKS.

THIS DESIGN WAS PREPARED AS A REQUIREMENT OF LOCAL PLANNING BOARD APPROVAL AND IS SUBJECT TO MINOR REVISIONS REGARDING DISPOSAL FIELD LOCATION AND CONSTRUCTION ELEVATIONS SHOULD IT BE NECESSARY.

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole **TP 60** ■ Test Pit □ Boring
 " Depth of Organic Horizon Above Mineral Soil

| Depth Below Mineral Soil Surface (inches) | SOIL TEST PIT BY BACKHOE | | | |
|---|-------------------------------|-------------|----------------------------|-----------|
| | Texture | Consistency | Color | Mottling |
| 0 | | | LIGHT GRAY (ALBIC) | |
| 10 | STONY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN | |
| 20 | STONY SANDY LOAM & LOAMY SAND | FIRM | YELLOWISH BROWN PALE OLIVE | FEW FAINT |
| 50 | LIMIT OF EXCAVATION @ 50" | | | |

| | | | |
|--|-----------------------|--------------------------------|--|
| Soil Classification 3 C Profile Condition | Slope 3-5 % | Limiting Factor 20 " | <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
|--|-----------------------|--------------------------------|--|

Observation Hole **TP 61** ■ Test Pit □ Boring
 " Depth of Organic Horizon Above Mineral Soil

| Depth Below Mineral Soil Surface (inches) | SOIL TEST PIT BY BACKHOE | | | |
|---|---------------------------|-----------------------|----------------------|--------------|
| | Texture | Consistency | Color | Mottling |
| 0 | | | STRONG BROWN | |
| 10 | STONY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN | |
| 20 | STONY LOAMY SAND | | OLIVE BROWN | |
| 30 | STONY LOAMY SAND & SAND | SOMEWHAT FIRM TO FIRM | OLIVE | COMMON FAINT |
| 50 | LIMIT OF EXCAVATION @ 50" | | | |

| | | | |
|--|-----------------------|--------------------------------|---|
| Soil Classification 3 C Profile Condition | Slope 3-5 % | Limiting Factor 27 " | <input checked="" type="checkbox"/> Ground Water <input checked="" type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
|--|-----------------------|--------------------------------|---|

James Logan
 Site Evaluator Signature

237

SE #

11/30/23

Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

WASHBURN FARM SUBDIVISION, LOT 4

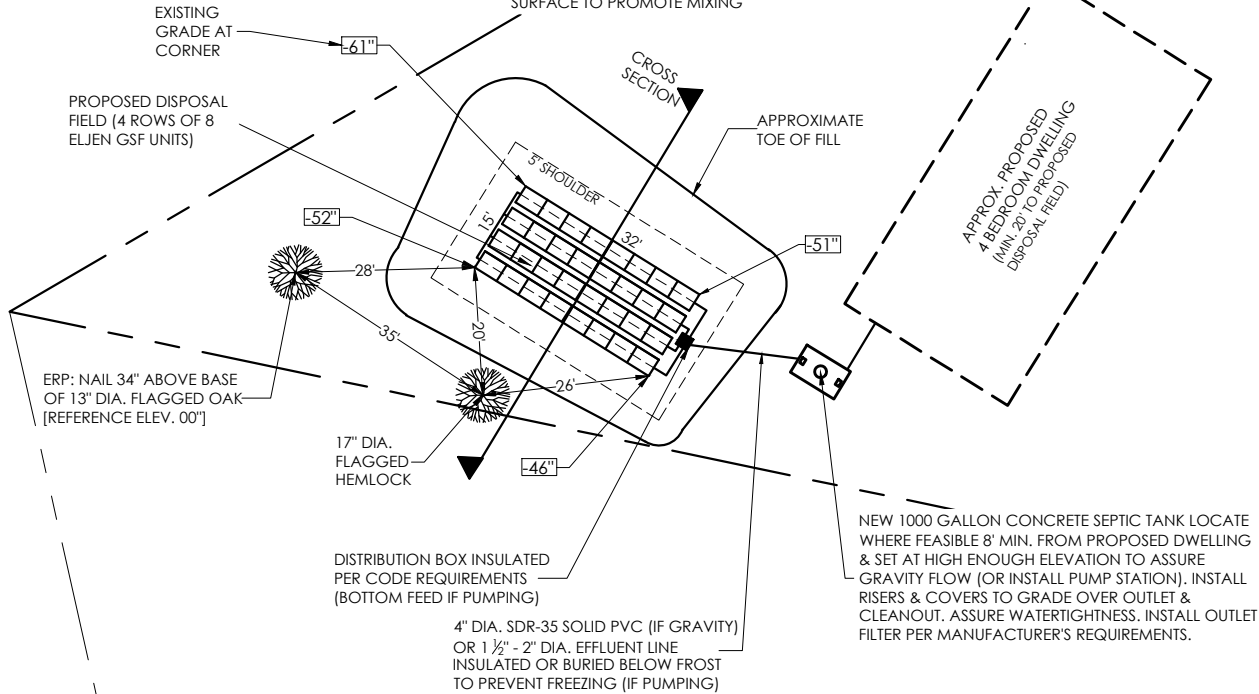
BEACHWOOD DEVELOPMENT FUND

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = **30** FT.

NOTE:
 THIS DESIGN WAS PREPARED AS A REQUIREMENT OF LOCAL PLANNING BOARD APPROVAL AND IS SUBJECT TO MINOR REVISIONS REGARDING DISPOSAL FIELD LOCATION AND CONSTRUCTION ELEVATIONS SHOULD IT BE NECESSARY.

NOTE: THOROUGHLY SCARIFY WITH EXCAVATOR TEETH OR ROTOTILL UNDER ENTIRE DISPOSAL FIELD, SHOULDER AREA, & FILL EXTENSION AREA PRIOR TO FILL PLACEMENT, THEN BLEND FIRST 6" LIFT OF FILL INTO EXISTING SOIL SURFACE TO PROMOTE MIXING



FILL REQUIREMENTS

CONSTRUCTION ELEVATIONS

ELEVATION REFERENCE POINT

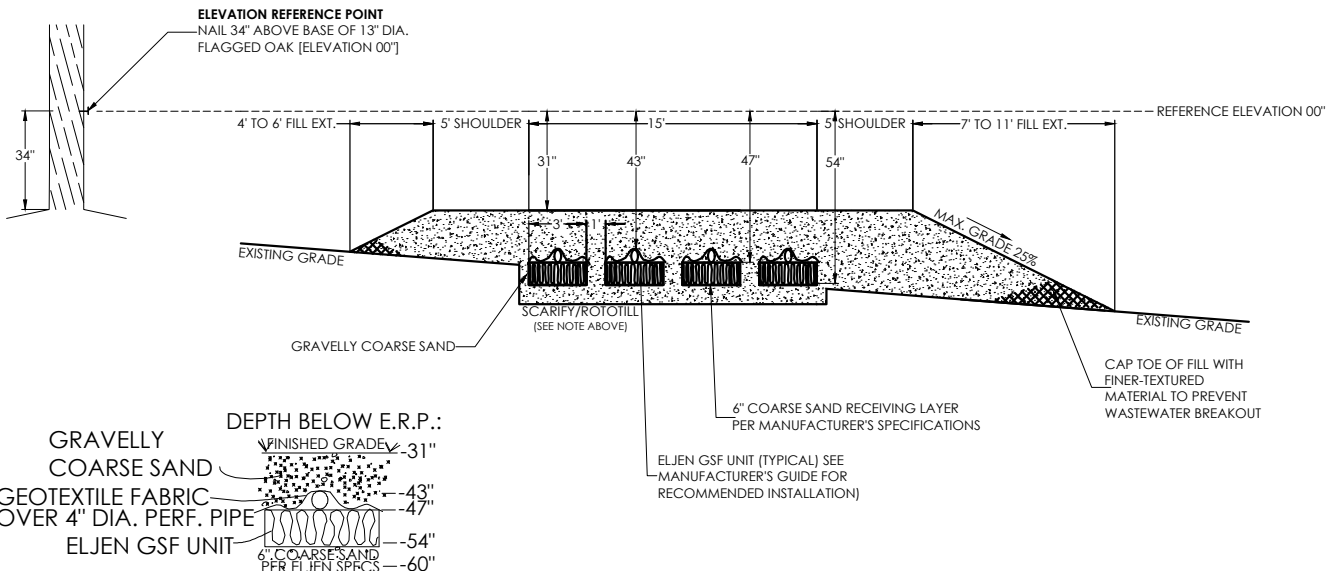
Depth of Fill (Upslope) **15" - 21"** Finished Grade Elevation
 Top of Distribution Pipe or Proprietary Device
 Depth of Fill (Downslope) **20" - 30"** Bottom of Disposal Area

**SEE
 DETAIL
 BELOW**

Location & Description:
NAIL 34" ABOVE BASE OF 13" DIA. FLAGGED OAK
 Reference Elevation: **00"**

DISPOSAL AREA CROSS SECTION

Scale
 Horizontal 1" = **10** ft.
 Vertical 1" = **5** ft.



James Logan
 Site Evaluator Signature

237

SE #

11/30/23

Date

DISPOSAL SYSTEM INSTALLATION NOTES

1. The State of Maine *Subsurface Wastewater Disposal Rules (10-144 Chapter 241 the Rules)* are incorporated by reference and made a part of this application. These shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system installer shall contact Longview Partners, LLC (207-693-8799) if there are any questions concerning materials, procedures or the design. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the *Rules* and with all State and municipal laws and ordinances pertaining to the permitting, construction, and inspection of subsurface wastewater disposal systems.
2. This application is intended to represent facts pertinent to the *Rules* only. It shall be the responsibility of the owner/applicant, system installer and/or building contractor to determine compliance with and to obtain other permits under all applicable local, State and/or Federal laws and regulations before installing the system or considering the property on which the system is to be installed a “buildable” lot. It is recommended that a wetland scientist be consulted regarding wetland regulations, should wet areas exist. Prior to commencement of construction/installation, the Local Plumbing Inspector or Code Enforcement Officer shall inform the owner/applicant and Longview Partners, LLC or any local ordinances which are more restrictive than the *Rules* in order that the design may be amended. All designs are subject to review by local, State and/or Federal authorities. Longview Partners, LLC’s liability shall be limited to revisions required by regulatory agencies and based on laws or regulations in effect at the time of preparation of this application.
3. All information shown on this application relating to property lines, well locations, subsurface structures, and underground facilities (such as utility lines, drains, septic systems, water lines, etc.) are based upon information provided by the owner/applicant and has been relied upon by Longview Partners, LLC in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties not readily visible above-grade (such as well points) should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.
4. Installation of a garbage (grinder) disposal is **not recommended**. If one is installed, an additional 1,000 gallon septic tank shall be connected in series to the proposed septic tank or a septic tank outlet filter shall be installed in the tank outlet. Risers and covers should be installed over the septic tank cleanout and outlet per the *Rules* for easy maintenance of the filter.
5. The septic tank should be pumped within 2 years of installation and subsequently as recommended by the pump service. **In no event should the septic tank be pumped less often than every 3 years.** The system use shall avoid introducing kitchen grease or fats into the system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life or performance.
6. All septic tanks, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration. Risers and covers should be properly installed to provide access while preventing surface water intrusion within 6” of a finished ground surface. Vehicular traffic over disposal system is prohibited unless specifically designed with H-20 rated components.

DISPOSAL SYSTEM INSTALLATION NOTES

7. The daily wastewater flow, number of bedrooms, or use of structure shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed.
8. The general minimum setbacks between a well (public or private) and septic system serving a single family residence are 100-300 feet, unless the local municipality has a more stringent requirement or a liner seal is installed in the well. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.
9. When a gravity flow is anticipated, **before construction/installation begins**, the system installer or building contractor shall review the elevation of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum pipe pitch requirements.
10. When an effluent pump is required, pump stations should be sized per manufacturer's specifications to meet lift requirements and friction/head loss. Provisions shall be made to make certain that surface and ground water does not enter the septic tank or pump station, by sealing/grouting all seams and connections, and by placement of a riser and cover at or above grade. An alarm device warning of a pump failure shall be installed. Bottom-feed distribution box is specified to prevent freezing. Insulate distribution boxes per the *Rules*.
11. On all systems, remove the vegetation, organic duff and roots, and old fill material from under the disposal area and any fill extension. Additional fill beyond indicated on the plan may be necessary to replace organic matter and/or stumps. On sites where the proposed disposal area is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling or scarifying with teeth of backhoe to a depth of at least 8 inches over the entire disposal field and fill extension are to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or different settling). Do not use wheeled equipment on the scarified soil until after 12 inches of fill is in place. Keep equipment off of proprietary leaching devices. Divert surface water away from the disposal area by ditching or shallow landscape swales.
12. Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more than 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process. Refer to the *Rules* for more specific information regarding fill and stone.
13. Seed all filled and disturbed surfaces with perennial grass seed, with 4 inches minimum soil or soil amendment mix suitable for growing, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover the system. Woody trees or shrubs are not permitted on the disposal field or fill extensions.
14. If an advanced wastewater treatment unit is part of this design, the system shall be operated and maintained per manufacturer's specifications.
15. Effluent (backwash) from water treatment units **SHALL NOT** be disposed of within this disposal system and **MUST** be redirected away from the disposal field

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
Div of Environmental Health, 11 SHS
(207) 287-5672 Fax: (207) 287-4172

PROPERTY LOCATION

>> CAUTION: LPI APPROVAL REQUIRED <<

City, Town, or Plantation: **KITTERY**

Street or Road: **R.O.W. off BARTLETT ROAD**

Subdivision, Lot #: **WASHBURN FARM, LOT 5**

Town/City: _____ Permit #: _____

Date Permit issued: ___/___/___ Fee: \$ _____ Double Fee Charged:

Local Plumbing Inspector Signature: _____ LPI #: _____

Owner Town State

OWNER/APPLICANT INFORMATION

Name (last, first, MI): **BEACHWOOD DEVELOPMENT FUND** Owner Applicant

Mailing Address of Owner/Applicant: **P.O. BOX 261**
KENNEBUNK, ME 04043

Daytime Tel. #: _____

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map #: **62** Lot #: **P/O 26**

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

Signature of Owner or Applicant: _____ Date: _____

Local Plumbing Inspector Signature: _____ (1st) date approved: _____
Local Plumbing Inspector Signature: _____ (2nd) date approved: _____

PERMIT INFORMATION

TYPE OF APPLICATION

THIS APPLICATION REQUIRES

DISPOSAL SYSTEM COMPONENTS

1. First Time System
2. Replacement System
Type replaced: _____
Year installed: _____
3. Expanded System
a. <25% Expansion
b. >25% Expansion
4. Experimental System
5. Seasonal Conversion

1. No Rule Variance
2. First Time System Variance
a. Local Plumbing Inspector Approval
b. State & Local Plumbing Inspector Approval
3. Replacement System Variance
a. Local Plumbing Inspector Approval
b. State & Local Plumbing Inspector Approval
4. Minimum Lot Size Variance
5. Seasonal Conversion Permit

1. Complete Non-engineered System
2. Primitive System (graywater & alt. toilet)
3. Alternative Toilet, specify: _____
4. Non-engineered Treatment Tank (only)
5. Holding Tank, _____ gallons
6. Non-engineered Disposal Field (only)
7. Separated Laundry System
8. Complete Engineered System (2000 gpd or more)
9. Engineered Treatment Tank (only)
10. Engineered Disposal Field (only)
11. Pre-treatment, specify: _____
12. Miscellaneous Components

SIZE OF PROPERTY

DISPOSAL SYSTEM TO SERVE

0.66+/- SQ. FT. ACRES

1. Single Family Dwelling Unit, No. of Bedrooms: **4**
2. Multiple Family Dwelling, No. of Units: _____
3. Other: _____ (specify)
- Current Use: Seasonal Year Round Undeveloped

SHORELAND ZONING

Yes No

PROPOSED TYPE OF WATER SUPPLY

1. Drilled Well 2. Dug Well 3. Private
4. Public 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANKS

DISPOSAL FIELD TYPE & SIZE

GARBAGE DISPOSAL UNIT

DESIGN FLOW

1. Concrete
a. Regular
b. Low Profile
2. Plastic
3. Other: _____
CAPACITY: **1000** GAL.

1. Stone Bed 2. Stone Trench
3. Proprietary Device
a. cluster array c. Linear
b. regular load d. H-20 load
4. Other: _____
SIZE: **1536** sq. ft. lin. ft.
32 ELJEN GSF UNITS

1. No 2. Yes 3. Maybe
- If Yes or Maybe, specify one below:
a. multi-compartment tank
b. _____ tanks in series
c. increase in tank capacity
d. Filter on Tank Outlet
- REQUIRED**

360 gallons per day
BASED ON:
 1. Table 4A (dwelling unit(s))
 2. Table 4C (other facilities)

SHOW CALCULATIONS for other facilities
**-SINGLE FAMILY DWELLING-
4 BEDROOMS @ 90 GPD EACH**

SOIL DATA & DESIGN CLASS

DISPOSAL FIELD SIZING

EFFLUENT/EJECTOR PUMP

PROFILE CONDITION: **3 / C**
at Observation Hole # **TP 9**
Depth **22** "
of Most Limiting Soil Factor

1. Medium--2.6 sq. ft. / gpd
2. Medium--Large 3.3 sq. ft. / gpd
3. Large--4.1 sq. ft. / gpd
4. Extra Large--5.0 sq. ft. / gpd

1. Not Required
2. May Be Required **SEE NOTE PAGE 3**
3. Required
- Specify only for engineered systems:
DOSE: _____ gallons

3. Section 4G (meter readings)
ATTACH WATER METER DATA

LATITUDE AND LONGITUDE
at center of disposal area
Lat. **43** d **06** m **41** s
Lon. **70** d **41** m **31** s
if g.p.s, state margin of error: _____

SITE EVALUATOR STATEMENT

I certify that on **11/28/23** (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

James Logan
Site Evaluator Signature

237
SE #

11/30/23
Date

JAMES LOGAN
Site Evaluator Name Printed

207-693-8799
Telephone Number

longviewpartners213@gmail.com
E-mail Address

Note : Changes to or deviations from the design should be confirmed with the Site Evaluator.

Page 1 of 3

HHE-200 Rev. 08/2011

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

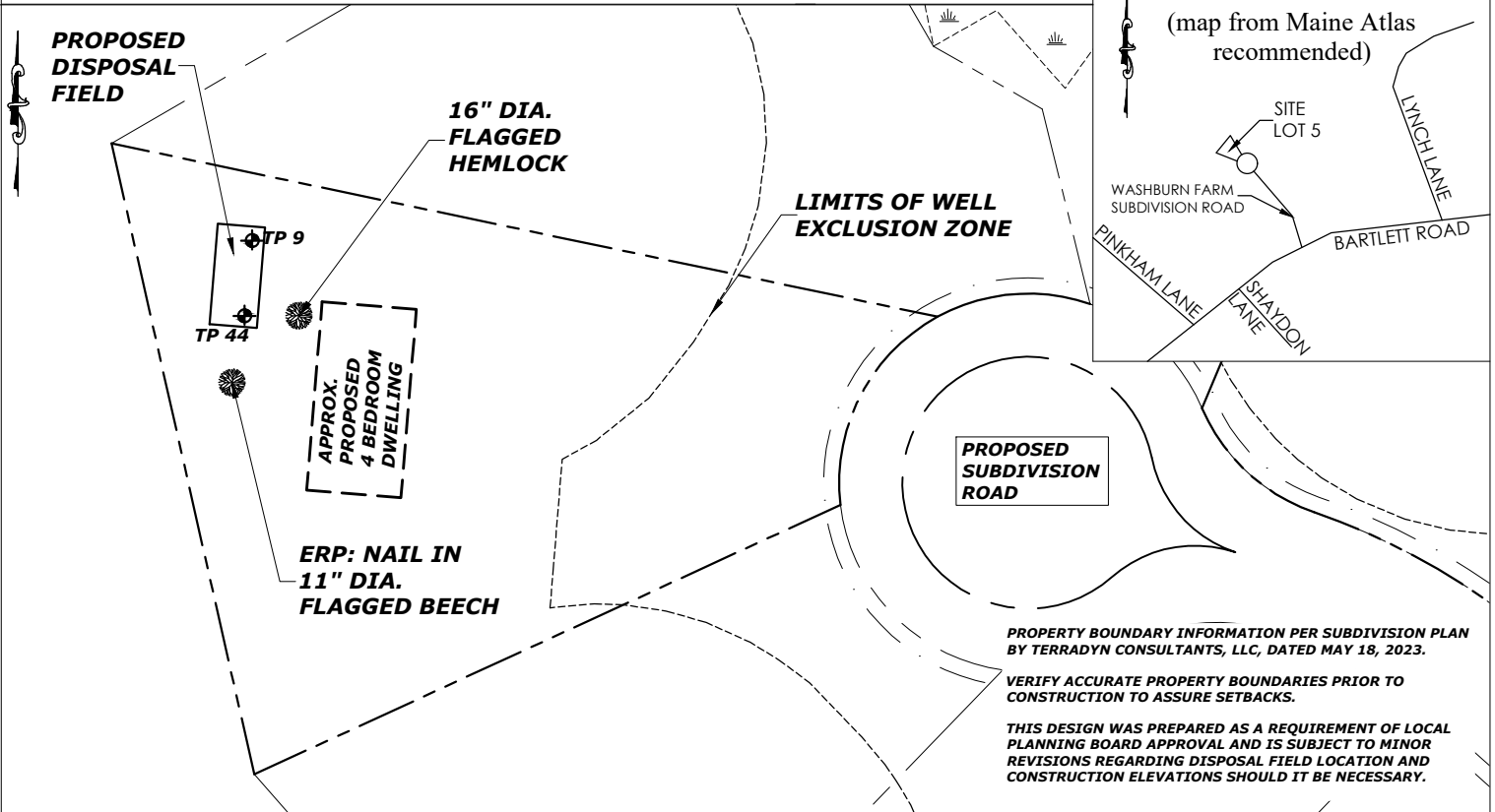
WASHBURN FARM SUBDIVISION, LOT 5

BEACHWOOD DEVELOPMENT FUND

SITE PLAN

Scale 1" = **60** ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas recommended)



SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole **TP 9** Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|----------------------------------|-------------|----------------------|--------------|
| GRAVELLY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN | |
| LOAMY SAND | | YELLOWISH BROWN | FEW FAINT |
| GRAVELLY SANDY LOAM & LOAMY SAND | FIRM | MIXED OLIVE BROWN | COMMON FAINT |
| LIMIT OF EXCAVATION @ 62" | | | |

| | | | |
|---------------------------------|--------------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
| 3 C Profile Condition | 5-8 % | 22 " | |

Observation Hole **TP 44** Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|----------------------------------|-------------|----------------------|--------------|
| GRAVELLY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN | |
| LOAMY SAND | | YELLOWISH BROWN | FEW FAINT |
| GRAVELLY SANDY LOAM & LOAMY SAND | FIRM | MIXED OLIVE BROWN | COMMON FAINT |

| | | | |
|---------------------------------|--------------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
| 3 C Profile Condition | 5-8 % | 24 " | |

James Logan
 Site Evaluator Signature

237

SE #

11/30/23

Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

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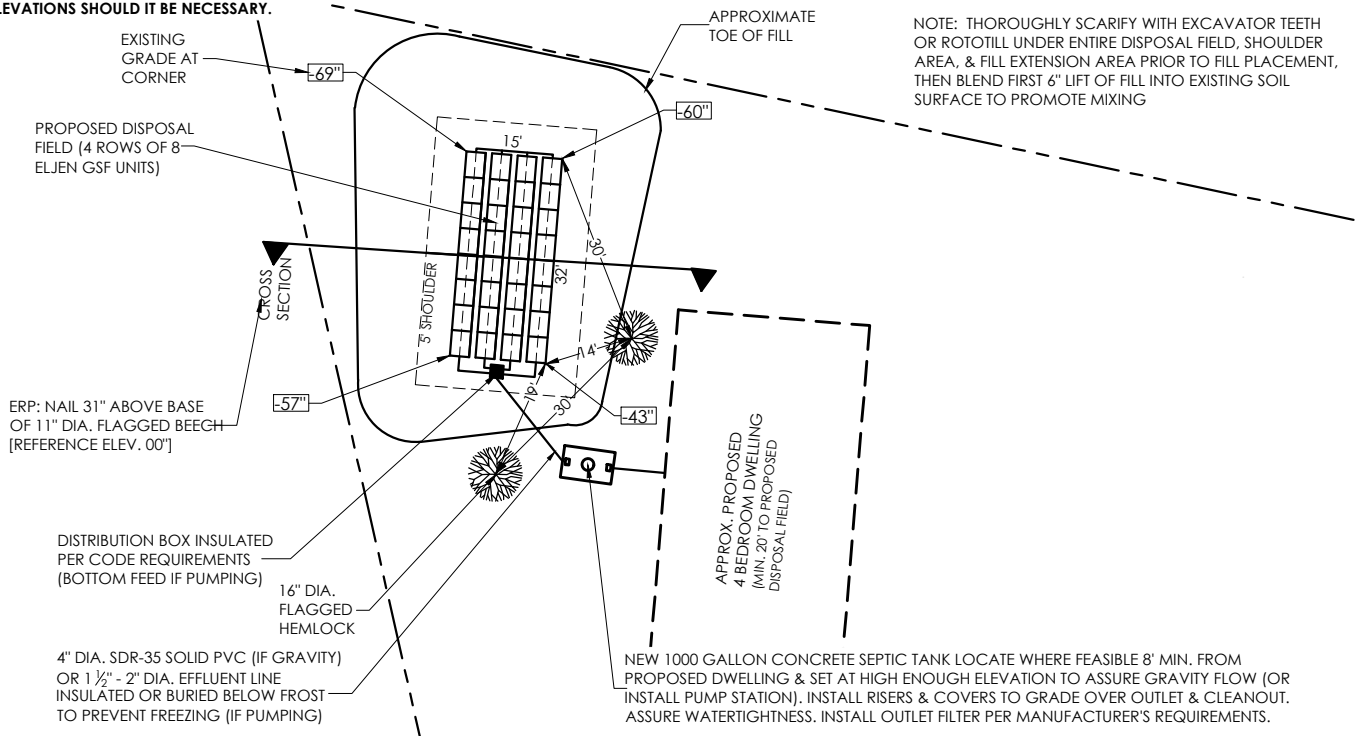
BEACHWOOD DEVELOPMENT FUND

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FILL REQUIREMENTS

CONSTRUCTION ELEVATIONS

ELEVATION REFERENCE POINT

Depth of Fill (Upslope) **13" - 30"** Finished Grade Elevation
 Top of Distribution Pipe or Proprietary Device

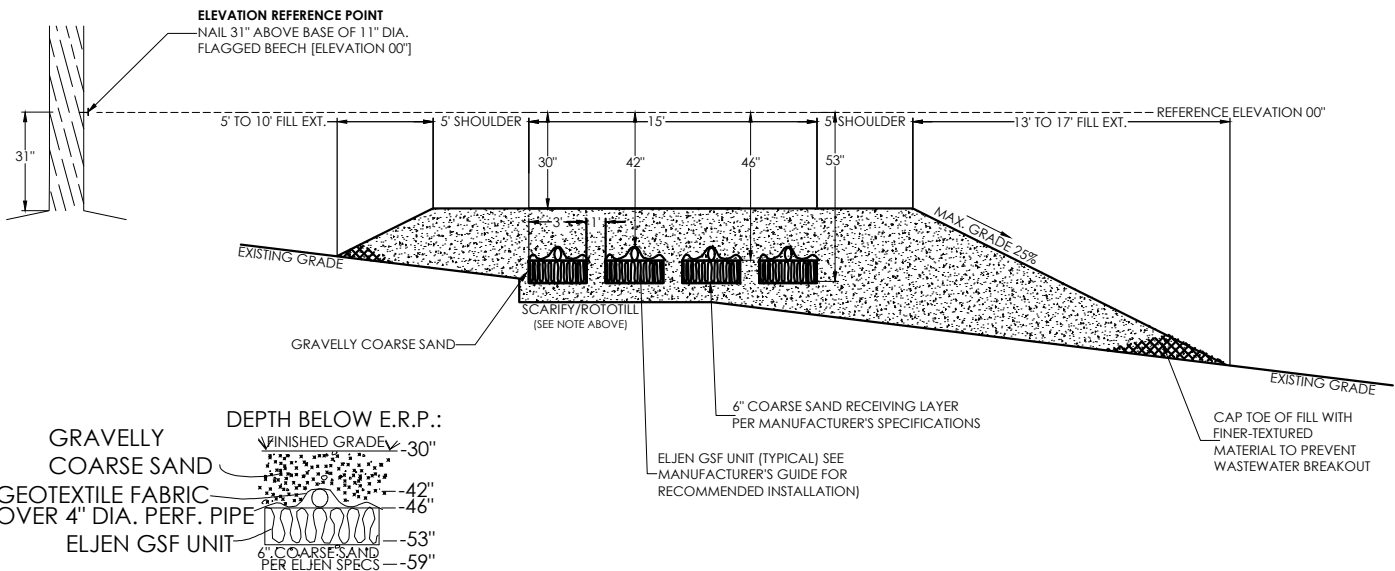
Depth of Fill (Downslope) **27" - 39"** Bottom of Disposal Area

**SEE
 DETAIL
 BELOW**

Location & Description:
NAIL 31" ABOVE BASE OF 1 1/2" DIA. FLAGGED BEECH
 Reference Elevation: **00"**

DISPOSAL AREA CROSS SECTION

Scale
 Horizontal 1" = **10** ft.
 Vertical 1" = **5** ft.



James Logan
 Site Evaluator Signature

237

SE #

11/30/23

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SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
Div of Environmental Health, 11 SHS
(207) 287-5672 Fax: (207) 287-4172

PROPERTY LOCATION

>> CAUTION: LPI APPROVAL REQUIRED <<

City, Town, or Plantation: **KITTERY**

Street or Road: **R.O.W. off BARTLETT ROAD**

Subdivision, Lot #: **WASHBURN FARM, LOT 6**

Town/City: _____ Permit #: _____

Date Permit issued: ___/___/___ Fee: \$ _____ Double Fee Charged:

Local Plumbing Inspector Signature: _____ LPI #: _____

Owner Town State

OWNER/APPLICANT INFORMATION

Name (last, first, MI): **BEACHWOOD DEVELOPMENT FUND** Owner Applicant

Mailing Address of Owner/Applicant: **P.O. BOX 261**
KENNEBUNK, ME 04043

Daytime Tel. #: _____

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map #: **62** Lot #: **P/O 26**

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

Signature of Owner or Applicant _____ Date _____

Local Plumbing Inspector Signature _____ (1st) date approved _____
Local Plumbing Inspector Signature _____ (2nd) date approved _____

PERMIT INFORMATION

| | | |
|---|--|---|
| TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input type="checkbox"/> 2. Replacement System Type replaced: _____ Year installed: _____ <input type="checkbox"/> 3. Expanded System a. <25% Expansion b. >25% Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion | THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3. Replacement System Variance a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit | DISPOSAL SYSTEM COMPONENTS <input type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components |
| SIZE OF PROPERTY 0.49+/- SQ. FT. ACRES | DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: 4 <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify) Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped | PROPOSED TYPE OF WATER SUPPLY <input type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other |
| SHORELAND ZONING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

| | | | |
|---|--|---|---|
| TREATMENT TANKS <input type="checkbox"/> 1. Concrete a. Regular b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: 1000 GAL. | DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device a. cluster array <input type="checkbox"/> c. Linear b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: 1536 sq. ft. lin. ft. 32 ELJEN GSF UNITS | GARBAGE DISPOSAL UNIT <input type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input type="checkbox"/> d. Filter on Tank Outlet REQUIRED | DESIGN FLOW 360 gallons per day BASED ON: <input type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities -SINGLE FAMILY DWELLING- 4 BEDROOMS @ 90 GPD EACH |
| SOIL DATA & DESIGN CLASS PROFILE CONDITION 3 / C at Observation Hole # TP 63 Depth 25 " of Most Limiting Soil Factor | DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Medium--2.6 sq. ft. / gpd <input type="checkbox"/> 2. Medium--Large 3.3 sq. ft. / gpd <input type="checkbox"/> 3. Large--4.1 sq. ft. / gpd <input type="checkbox"/> 4. Extra Large--5.0 sq. ft. / gpd | EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required SEE NOTE PAGE 3 <input type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons | <input type="checkbox"/> 3. Section 4G (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. 43 d 06 m 38 s Lon. 70 d 41 m 30 s if g.p.s, state margin of error: _____ |

SITE EVALUATOR STATEMENT

I certify that on **11/28/23** (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

James Logan
Site Evaluator Signature

237
SE #

11/30/23
Date

JAMES LOGAN
Site Evaluator Name Printed

207-693-8799
Telephone Number

longviewpartners213@gmail.com
E-mail Address

Note : Changes to or deviations from the design should be confirmed with the Site Evaluator.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

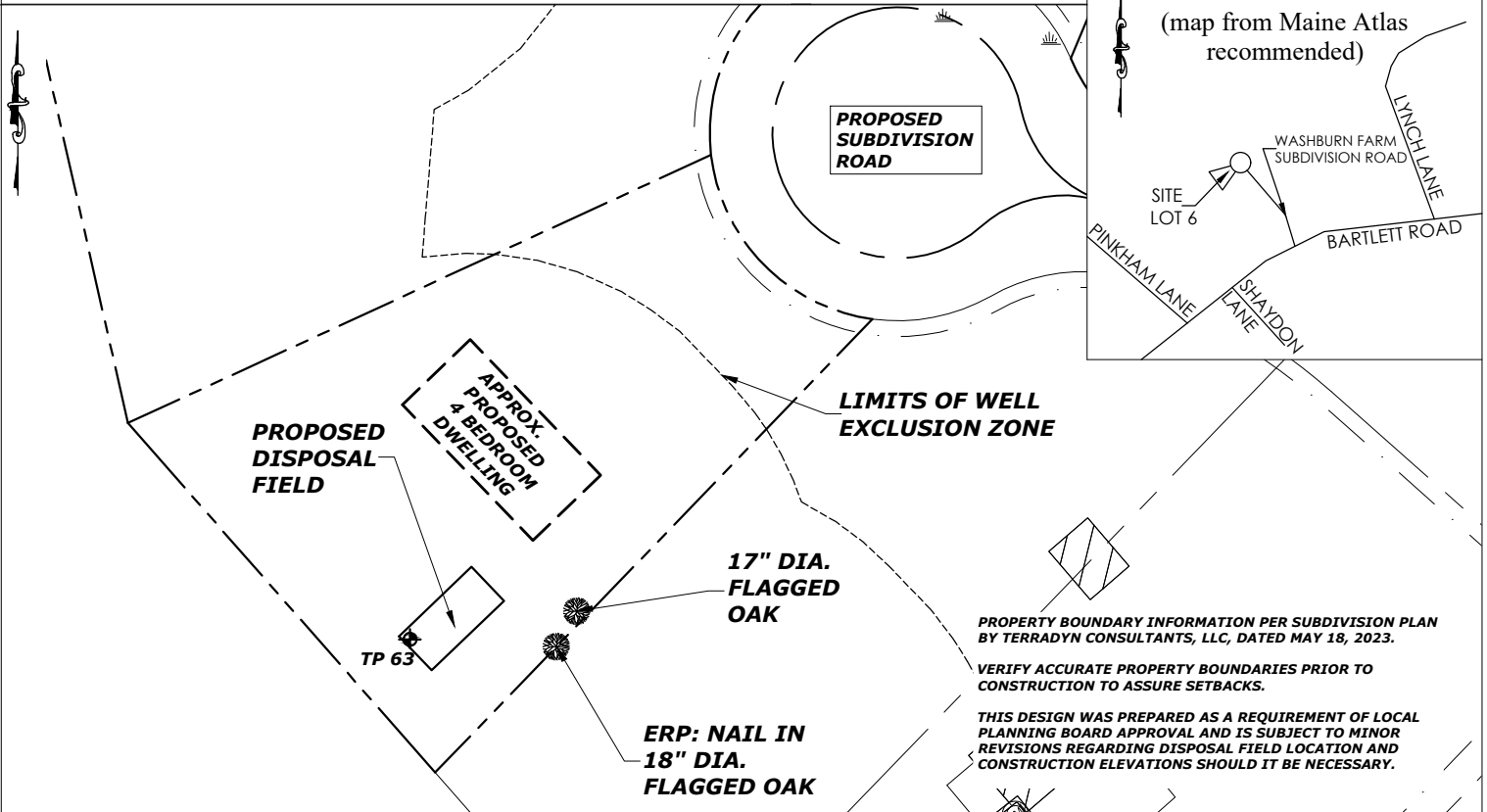
WASHBURN FARM SUBDIVISION, LOT 6

BEACHWOOD DEVELOPMENT FUND

SITE PLAN

Scale 1" = **60** ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas recommended)



SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole **TP 63** Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|----------------------------------|-------------|----------------------|-----------------|
| 0 | | | |
| STONY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN | |
| | | YELLOWISH BROWN | |
| CHANNERY SANDY LOAM & LOAMY SAND | FIRM | OLIVE BROWN | FEW FAINT |
| | | OLIVE | COMMON DISTINCT |
| 50 | BEDROCK | | |

| | | | |
|---|------------------------|--------------------------------|--|
| Soil Classification 3 AIII/C Profile Condition | Slope 3-13 % | Limiting Factor 25 " | <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
|---|------------------------|--------------------------------|--|

Observation Hole _____ Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil

| Texture | Consistency | Color | Mottling |
|---------|-------------|-------|----------|
| 0 | | | |
| 10 | | | |
| 20 | | | |
| 30 | | | |
| 40 | | | |
| 50 | | | |

| | | | |
|---|-----------------|---------------------------|---|
| Soil Classification _____ Profile Condition | Slope _____% | Limiting Factor _____" | <input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
|---|-----------------|---------------------------|---|

James Logan
 Site Evaluator Signature

237

SE #

11/30/23

Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

WASHBURN FARM SUBDIVISION, LOT 6

BEACHWOOD DEVELOPMENT FUND

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = **30** FT.

DISTRIBUTION BOX INSULATED
 PER CODE REQUIREMENTS
 (BOTTOM FEED IF PUMPING)

EXISTING
 GRADE AT
 CORNER

APPROX. PROPOSED
 4 BEDROOM DWELLING
 (MIN 20' TO PROPOSED
 DISPOSAL FIELD)

NEW 1000 GALLON CONCRETE SEPTIC TANK LOCATE
 WHERE FEASIBLE 8' MIN. FROM PROPOSED DWELLING
 & SET AT HIGH ENOUGH ELEVATION TO ASSURE
 GRAVITY FLOW (OR INSTALL PUMP STATION). INSTALL
 RISERS & COVERS TO GRADE OVER OUTLET &
 CLEANOUT. ASSURE WATERTIGHTNESS. INSTALL
 OUTLET FILTER PER MANUFACTURER'S REQUIREMENTS.

4" DIA. SDR-35 SOLID PVC (IF GRAVITY)
 OR 1 1/2" - 2" DIA. EFFLUENT LINE
 INSULATED OR BURIED BELOW FROST
 TO PREVENT FREEZING (IF PUMPING)

17" DIA.
 FLAGGED
 OAK

ERP: NAIL 62" ABOVE BASE
 OF 18" DIA. FLAGGED OAK
 [REFERENCE ELEV. 00']

APPROXIMATE
 TOE OF FILL

PROPOSED DISPOSAL
 FIELD (4 ROWS OF 8
 ELJEN GSF UNITS)

NOTE: THOROUGHLY SCARIFY WITH EXCAVATOR TEETH
 OR ROTOTILL UNDER ENTIRE DISPOSAL FIELD, SHOULDER
 AREA, & FILL EXTENSION AREA PRIOR TO FILL PLACEMENT,
 THEN BLEND FIRST 6" LIFT OF FILL INTO EXISTING SOIL
 SURFACE TO PROMOTE MIXING

NOTE:
 THIS DESIGN WAS PREPARED AS A REQUIREMENT OF LOCAL
 PLANNING BOARD APPROVAL AND IS SUBJECT TO MINOR
 REVISIONS REGARDING DISPOSAL FIELD LOCATION AND
 CONSTRUCTION ELEVATIONS SHOULD IT BE NECESSARY.

FILL REQUIREMENTS

CONSTRUCTION ELEVATIONS

ELEVATION REFERENCE POINT

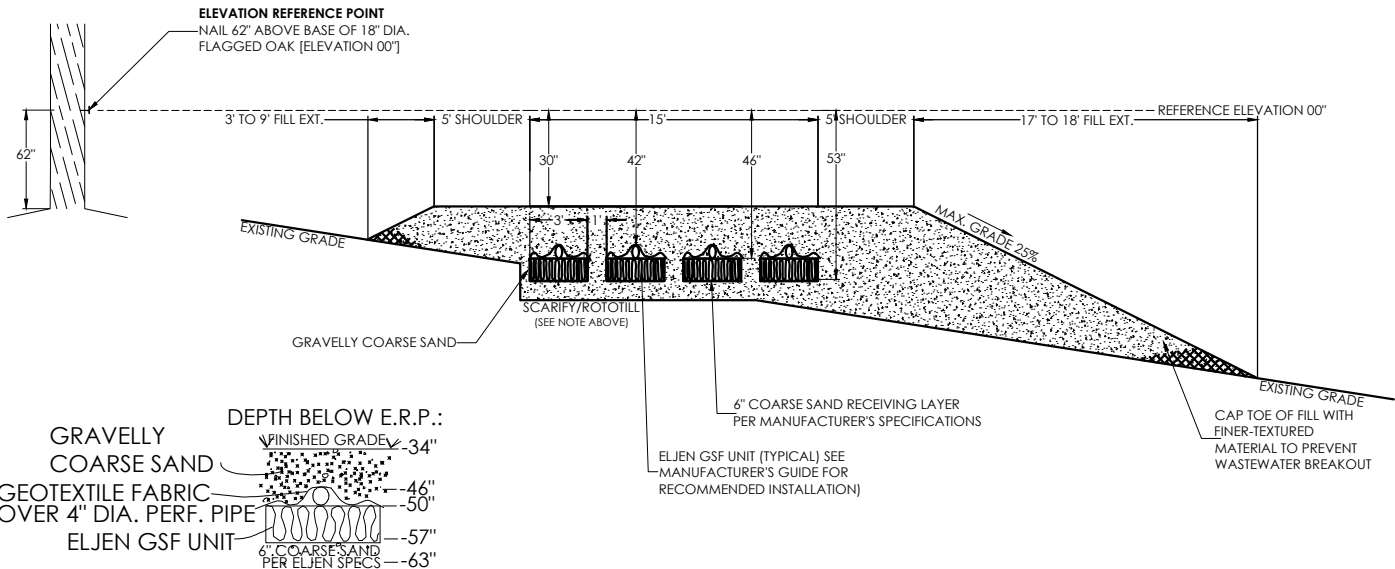
Depth of Fill (Upslope) **10" - 27"** Finished Grade Elevation
 Depth of Fill (Downslope) **33"** Top of Distribution Pipe or Proprietary Device
 Bottom of Disposal Area

**SEE
 DETAIL
 BELOW**

Location & Description:
NAIL 62" ABOVE BASE OF 18" DIA. FLAGGED OAK
 Reference Elevation: **00"**

DISPOSAL AREA CROSS SECTION

Scale
 Horizontal 1" = **10** ft.
 Vertical 1" = **5** ft.



James Logan
 Site Evaluator Signature

237

SE #

11/30/23

Date

DISPOSAL SYSTEM INSTALLATION NOTES

1. The State of Maine *Subsurface Wastewater Disposal Rules (10-144 Chapter 241 the Rules)* are incorporated by reference and made a part of this application. These shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system installer shall contact Longview Partners, LLC (207-693-8799) if there are any questions concerning materials, procedures or the design. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the *Rules* and with all State and municipal laws and ordinances pertaining to the permitting, construction, and inspection of subsurface wastewater disposal systems.
2. This application is intended to represent facts pertinent to the *Rules* only. It shall be the responsibility of the owner/applicant, system installer and/or building contractor to determine compliance with and to obtain other permits under all applicable local, State and/or Federal laws and regulations before installing the system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations, should wet areas exist. Prior to commencement of construction/installation, the Local Plumbing Inspector or Code Enforcement Officer shall inform the owner/applicant and Longview Partners, LLC or any local ordinances which are more restrictive than the *Rules* in order that the design may be amended. All designs are subject to review by local, State and/or Federal authorities. Longview Partners, LLC's liability shall be limited to revisions required by regulatory agencies and based on laws or regulations in effect at the time of preparation of this application.
3. All information shown on this application relating to property lines, well locations, subsurface structures, and underground facilities (such as utility lines, drains, septic systems, water lines, etc.) are based upon information provided by the owner/applicant and has been relied upon by Longview Partners, LLC in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties not readily visible above-grade (such as well points) should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.
4. Installation of a garbage (grinder) disposal is **not recommended**. If one is installed, an additional 1,000 gallon septic tank shall be connected in series to the proposed septic tank or a septic tank outlet filter shall be installed in the tank outlet. Risers and covers should be installed over the septic tank cleanout and outlet per the *Rules* for easy maintenance of the filter.
5. The septic tank should be pumped within 2 years of installation and subsequently as recommended by the pump service. **In no event should the septic tank be pumped less often than every 3 years.** The system use shall avoid introducing kitchen grease or fats into the system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life or performance.
6. All septic tanks, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration. Risers and covers should be properly installed to provide access while preventing surface water intrusion within 6" of a finished ground surface. Vehicular traffic over disposal system is prohibited unless specifically designed with H-20 rated components.

DISPOSAL SYSTEM INSTALLATION NOTES

7. The daily wastewater flow, number of bedrooms, or use of structure shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed.
8. The general minimum setbacks between a well (public or private) and septic system serving a single family residence are 100-300 feet, unless the local municipality has a more stringent requirement or a liner seal is installed in the well. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.
9. When a gravity flow is anticipated, **before construction/installation begins**, the system installer or building contractor shall review the elevation of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum pipe pitch requirements.
10. When an effluent pump is required, pump stations should be sized per manufacturer's specifications to meet lift requirements and friction/head loss. Provisions shall be made to make certain that surface and ground water does not enter the septic tank or pump station, by sealing/grouting all seams and connections, and by placement of a riser and cover at or above grade. An alarm device warning of a pump failure shall be installed. Bottom-feed distribution box is specified to prevent freezing. Insulate distribution boxes per the *Rules*.
11. On all systems, remove the vegetation, organic duff and roots, and old fill material from under the disposal area and any fill extension. Additional fill beyond indicated on the plan may be necessary to replace organic matter and/or stumps. On sites where the proposed disposal area is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling or scarifying with teeth of backhoe to a depth of at least 8 inches over the entire disposal field and fill extension are to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or different settling). Do not use wheeled equipment on the scarified soil until after 12 inches of fill is in place. Keep equipment off of proprietary leaching devices. Divert surface water away from the disposal area by ditching or shallow landscape swales.
12. Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more than 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process. Refer to the *Rules* for more specific information regarding fill and stone.
13. Seed all filled and disturbed surfaces with perennial grass seed, with 4 inches minimum soil or soil amendment mix suitable for growing, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover the system. Woody trees or shrubs are not permitted on the disposal field or fill extensions.
14. If an advanced wastewater treatment unit is part of this design, the system shall be operated and maintained per manufacturer's specifications.
15. Effluent (backwash) from water treatment units **SHALL NOT** be disposed of within this disposal system and **MUST** be redirected away from the disposal field

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
Div of Environmental Health, 11 SHS
(207) 287-5672 Fax: (207) 287-4172

PROPERTY LOCATION

>> CAUTION: LPI APPROVAL REQUIRED <<

City, Town, or Plantation: **KITTERY**

Street or Road: **R.O.W. off BARTLETT ROAD**

Subdivision, Lot #: **WASHBURN FARM, LOT 7**

Town/City: _____ Permit #: _____

Date Permit issued: ___/___/___ Fee: \$ _____ Double Fee Charged:

OWNER/APPLICANT INFORMATION

Name (last, first, MI): **BEACHWOOD DEVELOPMENT FUND** Owner Applicant

Mailing Address of Owner/Applicant: **P.O. BOX 261**
KENNEBUNK, ME 04043

Daytime Tel. #: _____

Local Plumbing Inspector Signature: _____ LPI #: _____

Owner Town State

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map #: **62** Lot #: **P/O 26**

OWNER OR APPLICANT STATEMENT
I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

Signature of Owner or Applicant: _____ Date: _____

CAUTION: INSPECTION REQUIRED
I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

(1st) date approved: _____

Local Plumbing Inspector Signature: _____ (2nd) date approved: _____

PERMIT INFORMATION

| | | |
|---|--|---|
| TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input type="checkbox"/> 2. Replacement System Type replaced: _____ Year installed: _____ <input type="checkbox"/> 3. Expanded System a. <25% Expansion b. >25% Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion | THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3. Replacement System Variance a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit | DISPOSAL SYSTEM COMPONENTS <input type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components |
| SIZE OF PROPERTY 0.62 +/- SQ. FT. ACRES | DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: 4 <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify) Current Use: <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped | PROPOSED TYPE OF WATER SUPPLY <input type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other |
| SHORELAND ZONING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

| | | | |
|---|--|---|---|
| TREATMENT TANKS <input type="checkbox"/> 1. Concrete a. Regular b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: 1000 GAL. | DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device a. cluster array <input type="checkbox"/> c. Linear b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: 1536 sq. ft. lin. ft. 32 ELJEN GSF UNITS | GARBAGE DISPOSAL UNIT <input type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input type="checkbox"/> d. Filter on Tank Outlet REQUIRED | DESIGN FLOW 360 gallons per day BASED ON: <input type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities -SINGLE FAMILY DWELLING- 4 BEDROOMS @ 90 GPD EACH |
| SOIL DATA & DESIGN CLASS PROFILE: 2 / AIII at Observation Hole # TP 64 Depth 22 " of Most Limiting Soil Factor | DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Medium--2.6 sq. ft. / gpd <input type="checkbox"/> 2. Medium--Large 3.3 sq. ft. / gpd <input type="checkbox"/> 3. Large--4.1 sq. ft. / gpd <input type="checkbox"/> 4. Extra Large--5.0 sq. ft. / gpd | EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required SEE NOTE PAGE 3 <input type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons | <input type="checkbox"/> 3. Section 4G (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. 43 d 06 m 38 s Lon. 70 d 41 m 29 s if g.p.s, state margin of error: _____ |

SITE EVALUATOR STATEMENT

I certify that on **11/28/23** (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

James Logan
Site Evaluator Signature

237
SE #

11/30/23
Date

JAMES LOGAN
Site Evaluator Name Printed

207-693-8799
Telephone Number

longviewpartners213@gmail.com
E-mail Address

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

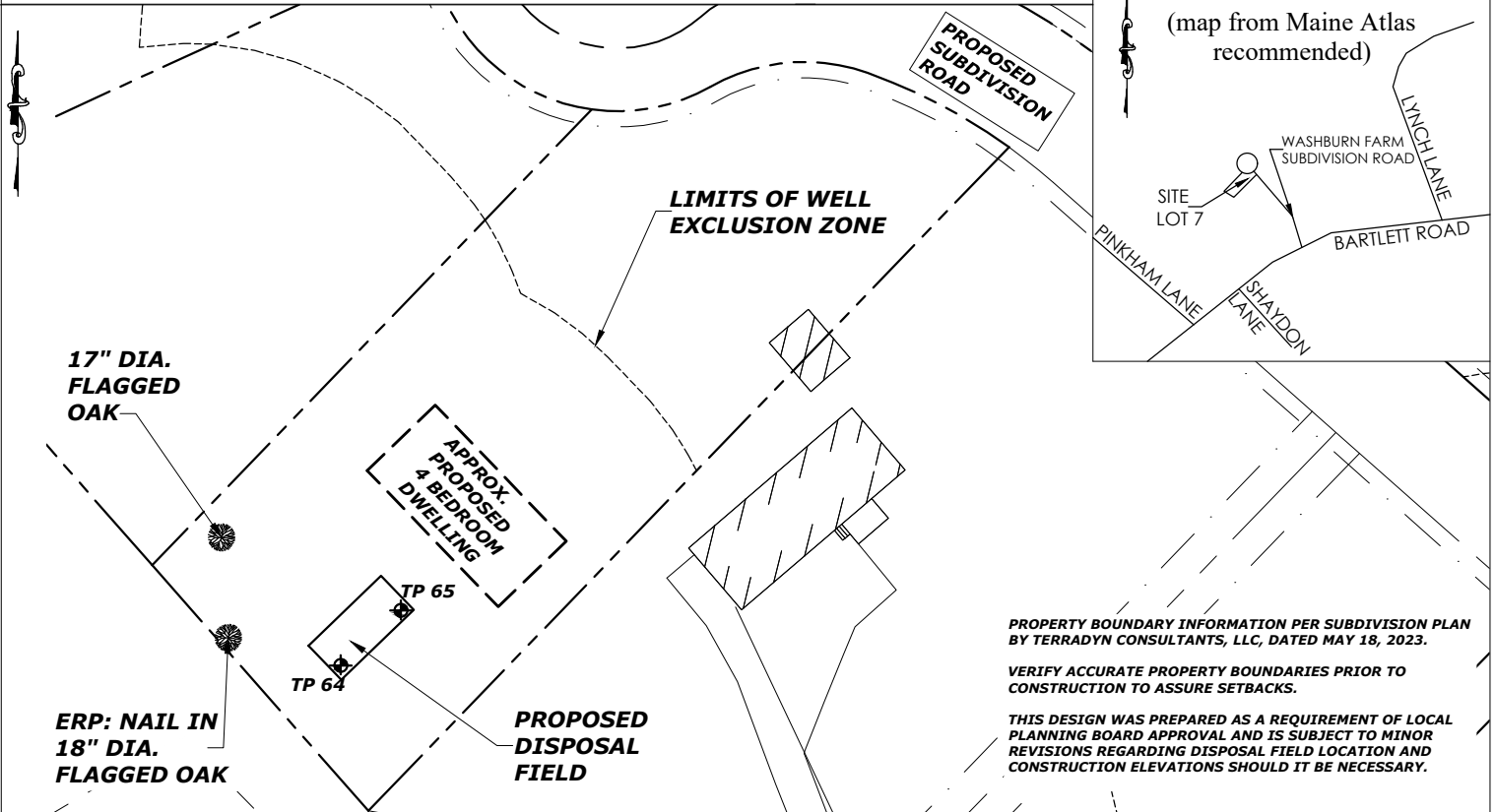
WASHBURN FARM SUBDIVISION, LOT 7

BEACHWOOD DEVELOPMENT FUND

SITE PLAN

Scale 1" = **60** ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas recommended)



SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole **TP 64** ■ Test Pit □ Boring
 " Depth of Organic Horizon Above Mineral Soil

| Depth Below Mineral Soil Surface (inches) | Texture | Consistency | Color | Mottling |
|---|-----------------------|-------------|----------------------|--------------|
| | 0 | | | |
| 10 | STONY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN | NONE EVIDENT |
| 20 | | | | |
| 25 | BEDROCK | | | |
| 30 | | | | |
| 40 | | | | |
| 50 | | | | |

| | | | |
|----------------------|--------------|-----------------|---|
| Soil Classification | Slope | Limiting Factor | <input type="checkbox"/> Ground Water |
| 2 AIII | 7-8 % | 22 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input checked="" type="checkbox"/> Bedrock |
| | | | <input type="checkbox"/> Pit Depth |

Observation Hole **TP 65** ■ Test Pit □ Boring
 " Depth of Organic Horizon Above Mineral Soil

| Depth Below Mineral Soil Surface (inches) | Texture | Consistency | Color | Mottling |
|---|-----------------------|-------------|----------------------|--------------|
| | 0 | | | |
| 10 | STONY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN | NONE EVIDENT |
| 20 | | | | |
| 25 | BEDROCK | | | |
| 30 | | | | |
| 40 | | | | |
| 50 | | | | |

| | | | |
|----------------------|--------------|-----------------|---|
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| | | | <input type="checkbox"/> Pit Depth |

James Logan
 Site Evaluator Signature

237

SE #

11/30/23

Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

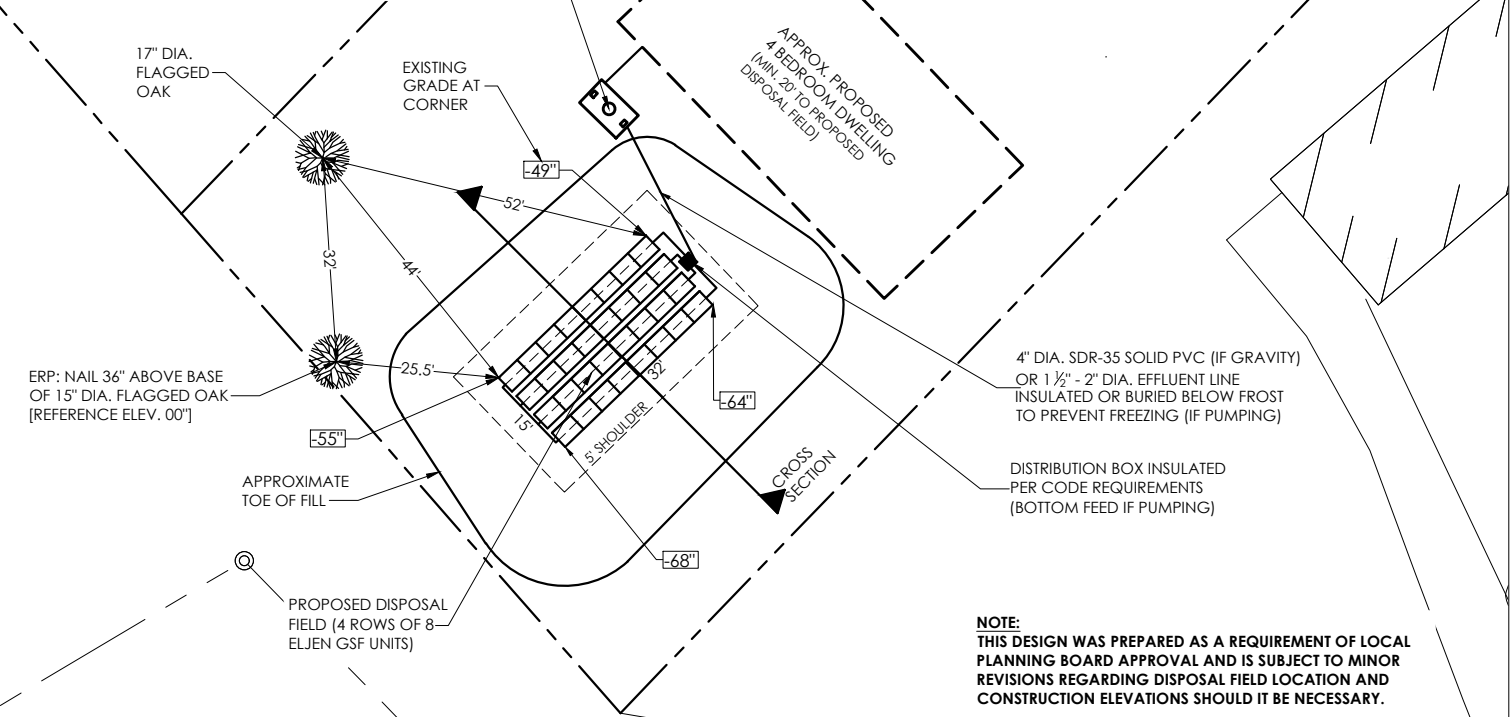
WASHBURN FARM SUBDIVISION, LOT 7

BEACHWOOD DEVELOPMENT FUND

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = **30** FT.

NEW 1000 GALLON CONCRETE SEPTIC TANK LOCATE WHERE FEASIBLE 8' MIN. FROM PROPOSED DWELLING & SET AT HIGH ENOUGH ELEVATION TO ASSURE GRAVITY FLOW (OR INSTALL PUMP STATION). INSTALL RISERS & COVERS TO GRADE OVER OUTLET & CLEANOUT. ASSURE WATERTIGHTNESS. INSTALL OUTLET FILTER PER MANUFACTURER'S REQUIREMENTS.



4" DIA. SDR-35 SOLID PVC (IF GRAVITY) OR 1 1/2" - 2" DIA. EFFLUENT LINE INSULATED OR BURIED BELOW FROST TO PREVENT FREEZING (IF PUMPING)

DISTRIBUTION BOX INSULATED PER CODE REQUIREMENTS (BOTTOM FEED IF PUMPING)

NOTE:
 THIS DESIGN WAS PREPARED AS A REQUIREMENT OF LOCAL PLANNING BOARD APPROVAL AND IS SUBJECT TO MINOR REVISIONS REGARDING DISPOSAL FIELD LOCATION AND CONSTRUCTION ELEVATIONS SHOULD IT BE NECESSARY.

FILL REQUIREMENTS

CONSTRUCTION ELEVATIONS

ELEVATION REFERENCE POINT

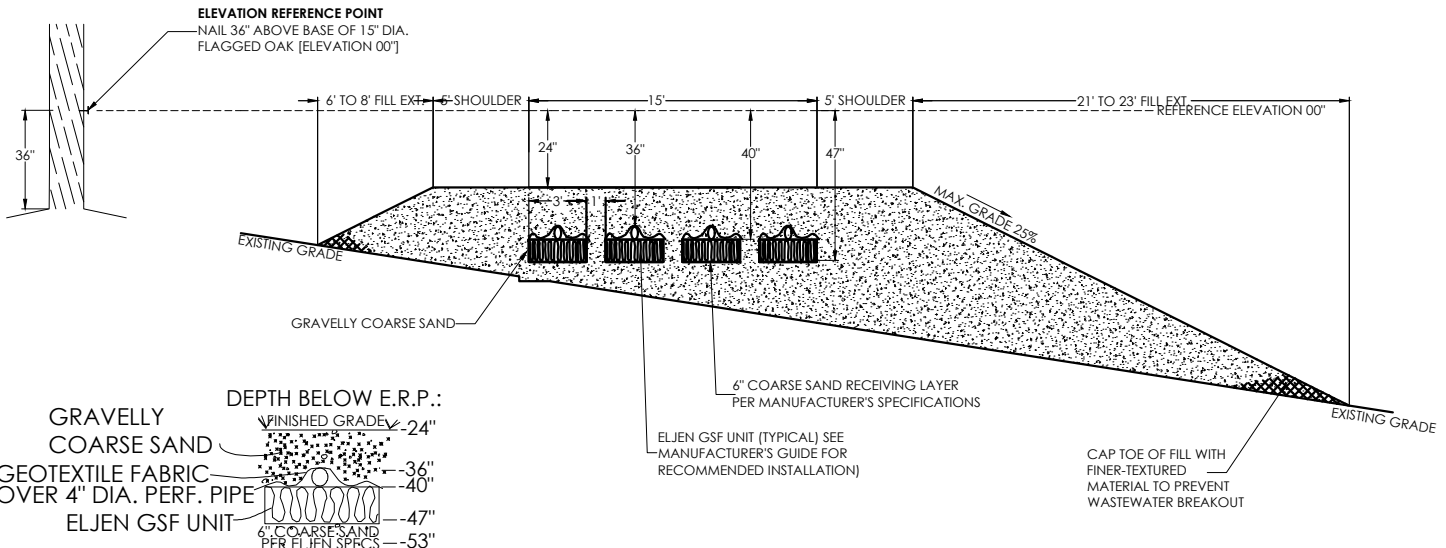
Depth of Fill (Upslope) **25" - 30"** Finished Grade Elevation
 Top of Distribution Pipe or Proprietary Device
 Depth of Fill (Downslope) **40" - 44"** Bottom of Disposal Area

**SEE
 DETAIL
 BELOW**

Location & Description:
NAIL 36" ABOVE BASE OF 15" DIA. FLAGGED OAK
 Reference Elevation: **00"**

DISPOSAL AREA CROSS SECTION

Scale
 Horizontal 1" = **10** ft.
 Vertical 1" = **5** ft.



James Logan
 Site Evaluator Signature

237

SE #

11/30/23

Date

DISPOSAL SYSTEM INSTALLATION NOTES

1. The State of Maine *Subsurface Wastewater Disposal Rules (10-144 Chapter 241 the Rules)* are incorporated by reference and made a part of this application. These shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system installer shall contact Longview Partners, LLC (207-693-8799) if there are any questions concerning materials, procedures or the design. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the *Rules* and with all State and municipal laws and ordinances pertaining to the permitting, construction, and inspection of subsurface wastewater disposal systems.
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DISPOSAL SYSTEM INSTALLATION NOTES

7. The daily wastewater flow, number of bedrooms, or use of structure shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed.
8. The general minimum setbacks between a well (public or private) and septic system serving a single family residence are 100-300 feet, unless the local municipality has a more stringent requirement or a liner seal is installed in the well. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.
9. When a gravity flow is anticipated, **before construction/installation begins**, the system installer or building contractor shall review the elevation of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum pipe pitch requirements.
10. When an effluent pump is required, pump stations should be sized per manufacturer's specifications to meet lift requirements and friction/head loss. Provisions shall be made to make certain that surface and ground water does not enter the septic tank or pump station, by sealing/grouting all seams and connections, and by placement of a riser and cover at or above grade. An alarm device warning of a pump failure shall be installed. Bottom-feed distribution box is specified to prevent freezing. Insulate distribution boxes per the *Rules*.
11. On all systems, remove the vegetation, organic duff and roots, and old fill material from under the disposal area and any fill extension. Additional fill beyond indicated on the plan may be necessary to replace organic matter and/or stumps. On sites where the proposed disposal area is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling or scarifying with teeth of backhoe to a depth of at least 8 inches over the entire disposal field and fill extension are to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or different settling). Do not use wheeled equipment on the scarified soil until after 12 inches of fill is in place. Keep equipment off of proprietary leaching devices. Divert surface water away from the disposal area by ditching or shallow landscape swales.
12. Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more than 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process. Refer to the *Rules* for more specific information regarding fill and stone.
13. Seed all filled and disturbed surfaces with perennial grass seed, with 4 inches minimum soil or soil amendment mix suitable for growing, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover the system. Woody trees or shrubs are not permitted on the disposal field or fill extensions.
14. If an advanced wastewater treatment unit is part of this design, the system shall be operated and maintained per manufacturer's specifications.
15. Effluent (backwash) from water treatment units **SHALL NOT** be disposed of within this disposal system and **MUST** be redirected away from the disposal field

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
Div of Environmental Health, 11 SHS
(207) 287-5672 Fax: (207) 287-4172

PROPERTY LOCATION

>> CAUTION: LPI APPROVAL REQUIRED <<

City, Town, or Plantation: **KITTERY**

Street or Road: **R.O.W. off BARTLETT ROAD**

Subdivision, Lot #: **WASHBURN FARM, LOT 9**

Town/City _____ Permit # _____

Date Permit issued ___/___/___ Fee: \$ _____ Double Fee Charged _____

OWNER/APPLICANT INFORMATION

Name (last, first, MI) **BEACHWOOD DEVELOPMENT FUND** Owner Applicant

Mailing Address of Owner/Applicant: **P.O. BOX 261**
KENNEBUNK, ME 04043

Daytime Tel. # _____

Local Plumbing Inspector Signature _____ LPI # _____

Owner Town State

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map # **62** Lot # **P/O 26**

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

Signature of Owner or Applicant _____ Date _____

Local Plumbing Inspector Signature _____ (1st) date approved _____

Local Plumbing Inspector Signature _____ (2nd) date approved _____

PERMIT INFORMATION

| | | |
|---|--|---|
| TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input type="checkbox"/> 2. Replacement System Type replaced: _____ Year installed: _____ <input type="checkbox"/> 3. Expanded System a. <25% Expansion b. >25% Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion | THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3. Replacement System Variance a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit | DISPOSAL SYSTEM COMPONENTS <input type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components |
| SIZE OF PROPERTY 0.59+/- SQ. FT. ACRES | DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: 4 <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify) Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped | PROPOSED TYPE OF WATER SUPPLY <input type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other |
| SHORELAND ZONING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

| | | | |
|---|--|---|---|
| TREATMENT TANKS <input type="checkbox"/> 1. Concrete a. Regular b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: 1000 GAL. | DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device a. cluster array <input type="checkbox"/> c. Linear b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: 1536 sq. ft. lin. ft. 32 ELJEN GSF UNITS | GARBAGE DISPOSAL UNIT <input type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input type="checkbox"/> d. Filter on Tank Outlet REQUIRED | DESIGN FLOW 360 gallons per day BASED ON: <input type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities -SINGLE FAMILY DWELLING- 4 BEDROOMS @ 90 GPD EACH |
| SOIL DATA & DESIGN CLASS PROFILE CONDITION 8 / AIII/C at Observation Hole # TP 50 Depth 16 " of Most Limiting Soil Factor | DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Medium--2.6 sq. ft. / gpd <input type="checkbox"/> 2. Medium--Large 3.3 sq. ft. / gpd <input type="checkbox"/> 3. Large--4.1 sq. ft. / gpd <input type="checkbox"/> 4. Extra Large--5.0 sq. ft. / gpd | EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required SEE NOTE PAGE 3 <input type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons | <input type="checkbox"/> 3. Section 4G (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. 43 d 06 m 38 s Lon. 70 d 41 m 24 s if g.p.s, state margin of error: _____ |

SITE EVALUATOR STATEMENT

I certify that on **11/28/23** (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

James Logan
Site Evaluator Signature

237
SE #

11/30/23
Date

JAMES LOGAN
Site Evaluator Name Printed

207-693-8799
Telephone Number

longviewpartners213@gmail.com
E-mail Address

Note : Changes to or deviations from the design should be confirmed with the Site Evaluator.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

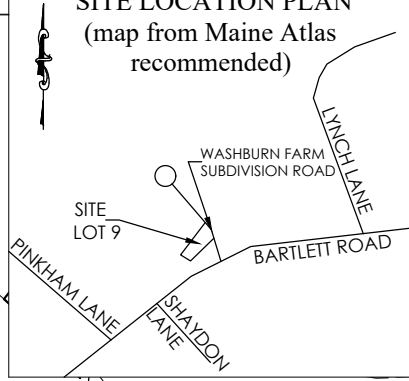
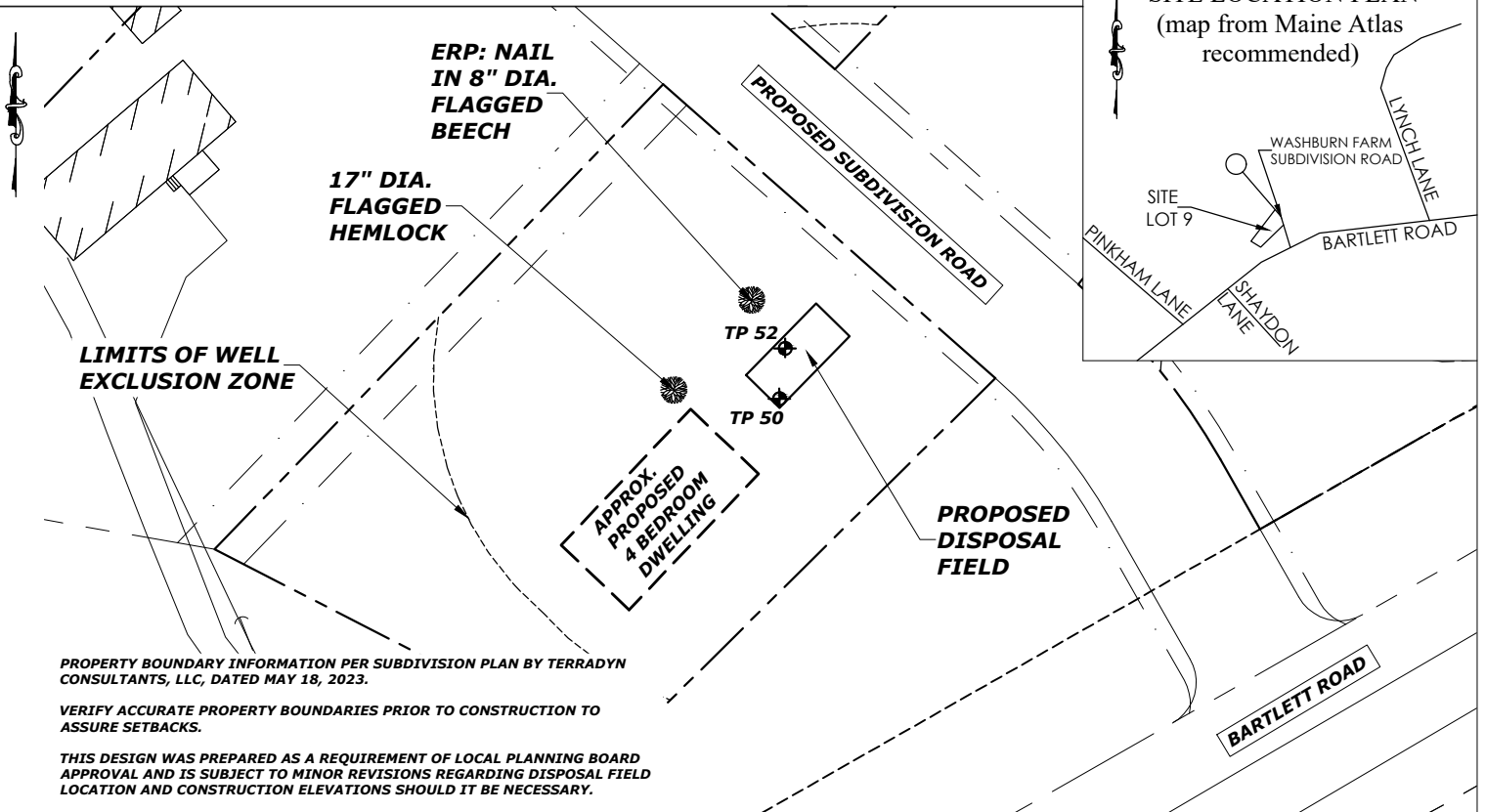
WASHBURN FARM SUBDIVISION, LOT 9

BEACHWOOD DEVELOPMENT FUND

SITE PLAN

Scale 1" = **60** ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas recommended)



SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole **TP 50** Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|------------------------------|-------------|----------------------|-----------------|
| | | DARK BROWN | |
| | | DARK YELLOWISH BROWN | |
| STONY FINE SANDY LOAM | FRIABLE | OLIVE BROWN | FEW FAINT |
| STONY LOAMY FINE SAND & SILT | FIRM | OLIVE | COMMON DISTINCT |
| | | OLIVE GRAY | |
| BEDROCK | | | |

| | | | |
|------------------------|--------------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 8 AIII/C | 4-8 % | 16 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| | | | <input type="checkbox"/> Pit Depth |

Observation Hole **TP 52** Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|-----------------------|---------------|----------------------|-----------------|
| | | DARK BROWN | |
| STONY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN | |
| | | OLIVE BROWN | FEW FAINT |
| STONY SANDY LOAM | SOMEWHAT FIRM | OLIVE | COMMON DISTINCT |
| BEDROCK | | | |

| | | | |
|------------------------|--------------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 AIII/C | 4-8 % | 16 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| | | | <input type="checkbox"/> Pit Depth |

James Logan
 Site Evaluator Signature

237

SE #

11/30/23

Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

WASHBURN FARM SUBDIVISION, LOT 9

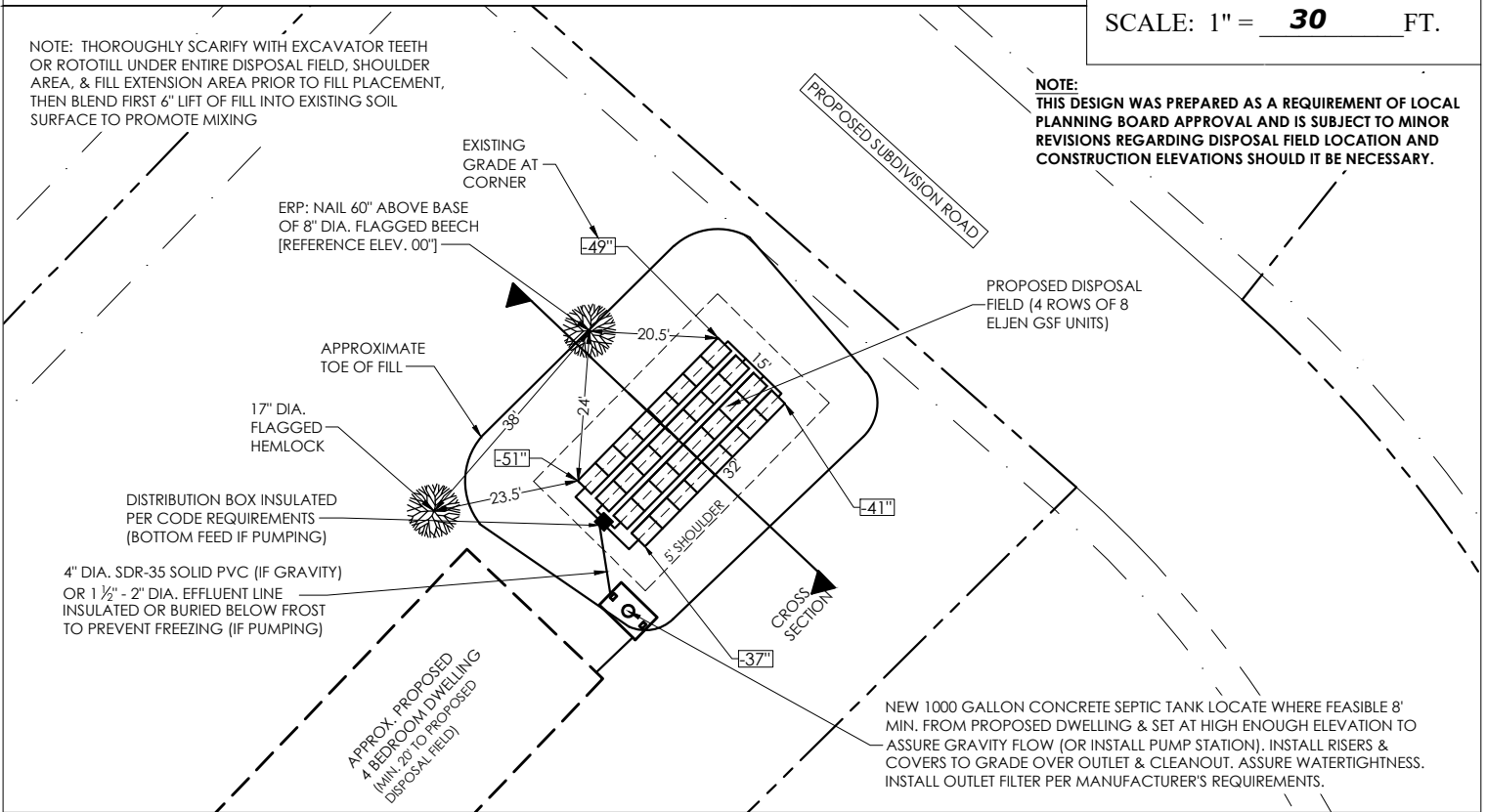
BEACHWOOD DEVELOPMENT FUND

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = **30** FT.

NOTE: THOROUGHLY SCARIFY WITH EXCAVATOR TEETH OR ROTOTILL UNDER ENTIRE DISPOSAL FIELD, SHOULDER AREA, & FILL EXTENSION AREA PRIOR TO FILL PLACEMENT, THEN BLEND FIRST 6" LIFT OF FILL INTO EXISTING SOIL SURFACE TO PROMOTE MIXING

NOTE: THIS DESIGN WAS PREPARED AS A REQUIREMENT OF LOCAL PLANNING BOARD APPROVAL AND IS SUBJECT TO MINOR REVISIONS REGARDING DISPOSAL FIELD LOCATION AND CONSTRUCTION ELEVATIONS SHOULD IT BE NECESSARY.



FILL REQUIREMENTS

CONSTRUCTION ELEVATIONS

ELEVATION REFERENCE POINT

Depth of Fill (Upslope) **19" - 23"** Finished Grade Elevation
 Top of Distribution Pipe or Proprietary Device

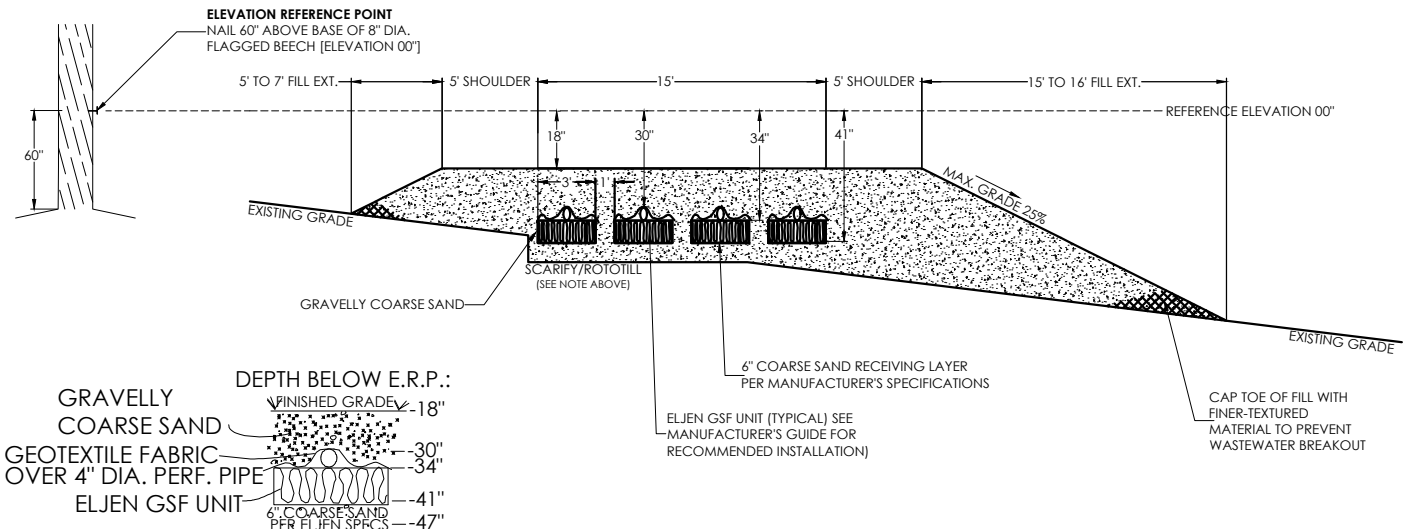
Depth of Fill (Downslope) **31" - 33"** Bottom of Disposal Area

**SEE
 DETAIL
 BELOW**

Location & Description:
NAIL 60" ABOVE BASE OF 8" DIA. FLAGGED BEECH
 Reference Elevation: **00"**

DISPOSAL AREA CROSS SECTION

Scale
 Horizontal 1" = **10** ft.
 Vertical 1" = **5** ft.



James Logan
 Site Evaluator Signature

237

SE #

11/30/23

Date

DISPOSAL SYSTEM INSTALLATION NOTES

1. The State of Maine *Subsurface Wastewater Disposal Rules (10-144 Chapter 241 the Rules)* are incorporated by reference and made a part of this application. These shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system installer shall contact Longview Partners, LLC (207-693-8799) if there are any questions concerning materials, procedures or the design. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the *Rules* and with all State and municipal laws and ordinances pertaining to the permitting, construction, and inspection of subsurface wastewater disposal systems.
2. This application is intended to represent facts pertinent to the *Rules* only. It shall be the responsibility of the owner/applicant, system installer and/or building contractor to determine compliance with and to obtain other permits under all applicable local, State and/or Federal laws and regulations before installing the system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations, should wet areas exist. Prior to commencement of construction/installation, the Local Plumbing Inspector or Code Enforcement Officer shall inform the owner/applicant and Longview Partners, LLC or any local ordinances which are more restrictive than the *Rules* in order that the design may be amended. All designs are subject to review by local, State and/or Federal authorities. Longview Partners, LLC's liability shall be limited to revisions required by regulatory agencies and based on laws or regulations in effect at the time of preparation of this application.
3. All information shown on this application relating to property lines, well locations, subsurface structures, and underground facilities (such as utility lines, drains, septic systems, water lines, etc.) are based upon information provided by the owner/applicant and has been relied upon by Longview Partners, LLC in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties not readily visible above-grade (such as well points) should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.
4. Installation of a garbage (grinder) disposal is **not recommended**. If one is installed, an additional 1,000 gallon septic tank shall be connected in series to the proposed septic tank or a septic tank outlet filter shall be installed in the tank outlet. Risers and covers should be installed over the septic tank cleanout and outlet per the *Rules* for easy maintenance of the filter.
5. The septic tank should be pumped within 2 years of installation and subsequently as recommended by the pump service. **In no event should the septic tank be pumped less often than every 3 years.** The system use shall avoid introducing kitchen grease or fats into the system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life or performance.
6. All septic tanks, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration. Risers and covers should be properly installed to provide access while preventing surface water intrusion within 6" of a finished ground surface. Vehicular traffic over disposal system is prohibited unless specifically designed with H-20 rated components.

DISPOSAL SYSTEM INSTALLATION NOTES

7. The daily wastewater flow, number of bedrooms, or use of structure shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed.
8. The general minimum setbacks between a well (public or private) and septic system serving a single family residence are 100-300 feet, unless the local municipality has a more stringent requirement or a liner seal is installed in the well. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.
9. When a gravity flow is anticipated, **before construction/installation begins**, the system installer or building contractor shall review the elevation of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum pipe pitch requirements.
10. When an effluent pump is required, pump stations should be sized per manufacturer's specifications to meet lift requirements and friction/head loss. Provisions shall be made to make certain that surface and ground water does not enter the septic tank or pump station, by sealing/grouting all seams and connections, and by placement of a riser and cover at or above grade. An alarm device warning of a pump failure shall be installed. Bottom-feed distribution box is specified to prevent freezing. Insulate distribution boxes per the *Rules*.
11. On all systems, remove the vegetation, organic duff and roots, and old fill material from under the disposal area and any fill extension. Additional fill beyond indicated on the plan may be necessary to replace organic matter and/or stumps. On sites where the proposed disposal area is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling or scarifying with teeth of backhoe to a depth of at least 8 inches over the entire disposal field and fill extension are to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or different settling). Do not use wheeled equipment on the scarified soil until after 12 inches of fill is in place. Keep equipment off of proprietary leaching devices. Divert surface water away from the disposal area by ditching or shallow landscape swales.
12. Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more than 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process. Refer to the *Rules* for more specific information regarding fill and stone.
13. Seed all filled and disturbed surfaces with perennial grass seed, with 4 inches minimum soil or soil amendment mix suitable for growing, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover the system. Woody trees or shrubs are not permitted on the disposal field or fill extensions.
14. If an advanced wastewater treatment unit is part of this design, the system shall be operated and maintained per manufacturer's specifications.
15. Effluent (backwash) from water treatment units **SHALL NOT** be disposed of within this disposal system and **MUST** be redirected away from the disposal field

SOIL TEST PIT PROFILE DESCRIPTIONS

LONGVIEW PARTNERS, LLC
6 SECOND STREET BUXTON, MAINE

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

77 BARTLETT ROAD

BOWLEY BUILDERS

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 25 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|------------------------------|-------------|----------------------|-----------------|
| | | DARK BROWN | |
| VERY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN | |
| | | OLIVE BROWN | FEW FAINT |
| STONY LOAMY FINE SAND & SILT | FIRM | MIXED OLIVE GRAY | COMMON DISTINCT |
| LIMIT OF EXCAVATION @ 49" | | | |

| | | | |
|---|-----------------|--------------------------------|--|
| Soil Classification 8 C Profile Condition DIXFIELD (VARIANT) | Slope _____% | Limiting Factor 15 " | <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
|---|-----------------|--------------------------------|--|

Observation Hole TP 26 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|---------------------------|-------------|----------------------|--------------|
| | | DARK YELLOWISH BROWN | |
| STONY FINE SANDY LOAM | FRIABLE | LIGHT OLIVE BROWN | NONE EVIDENT |
| BEDROCK | | | |
| LIMIT OF EXCAVATION @ 49" | | | |

| | | | |
|---|-----------------|--------------------------------|--|
| Soil Classification 2 AIII Profile Condition LYMAN | Slope _____% | Limiting Factor 18 " | <input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
|---|-----------------|--------------------------------|--|

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 27 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|---------------------------|-------------|----------------------------|--------------|
| STONY SANDY LOAM | | DARK YELLOWISH BROWN | |
| | FRIABLE | MIXED DARK YELLOWISH BROWN | FEW FAINT |
| STONY LOAMY SAND | | MIXED OLIVE BROWN | COMMON FAINT |
| STONY FINE SANDY LOAM | FIRM | | |
| BEDROCK | | | |
| LIMIT OF EXCAVATION @ 49" | | | |

| | | | |
|---|-----------------|--------------------------------|--|
| Soil Classification 3 AIII/C Profile Condition TUNBRIDGE | Slope _____% | Limiting Factor 16 " | <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
|---|-----------------|--------------------------------|--|

Observation Hole TP 28 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|--------------------------------------|-------------|----------------------|-----------------|
| | | DARK BROWN | |
| STONY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN | |
| | | YELLOWISH BROWN | |
| | | LIGHT OLIVE BROWN | FEW FAINT |
| GRAVELLY FINE & VERY FINE SANDY LOAM | FIRM | OLIVE | COMMON DISTINCT |
| LIMIT OF EXCAVATION @ 49" | | | |

| | | | |
|---|-----------------|--------------------------------|--|
| Soil Classification 3/8 C Profile Condition DIXFIELD (VARIANT) | Slope _____% | Limiting Factor 16 " | <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth |
|---|-----------------|--------------------------------|--|

James Logan
SIGNATURE

237/213
LSE/CSS #

6/15/23
DATE

SOIL TEST PIT PROFILE DESCRIPTIONS

LONGVIEW PARTNERS, LLC
6 SECOND STREET BUXTON, MAINE

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

77 BARTLETT ROAD

BOWLEY BUILDERS

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 29 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

| Depth Below Mineral Soil Surface (inches) | SOIL TEST PIT BY BACKHOE | | Mottling |
|---|-------------------------------|-------------|---|
| | Texture | Consistency | |
| 0 | | | DARK BROWN |
| 10 | STONY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN YELLOWISH BROWN |
| 20 | STONY SANDY & FINE SANDY LOAM | FIRM | LIGHT OLIVE BROWN FEW FAINT OLIVE GRAY COMMON DISTINCT |
| 30 | | | |
| 40 | | | |
| 50 | | | LIMIT OF EXCAVATION @ 42" |

| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 17 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

Observation Hole TP 30 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

| Depth Below Mineral Soil Surface (inches) | SOIL TEST PIT BY BACKHOE | | | Mottling |
|---|--------------------------|---------------|----------------------|--------------|
| | Texture | Consistency | Color | |
| 0 | | | | |
| 10 | STONY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN | |
| 20 | CHANNERY LOAMY SAND | SOMEWHAT FIRM | OLIVE | COMMON FAINT |
| 30 | | | | |
| 35 | BEDROCK | | | |
| 40 | | | | |
| 50 | | | | |

| | | | |
|------------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 AIII/C | % | 18 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| TUNBRIDGE | | | <input type="checkbox"/> Pit Depth |

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 31 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

| Depth Below Mineral Soil Surface (inches) | SOIL TEST PIT BY BACKHOE | | Mottling |
|---|-----------------------------------|-------------|--|
| | Texture | Consistency | |
| 0 | | | |
| 10 | STONY FINE SANDY LOAM | FRIABLE | DARK YELLOWISH BROWN |
| 20 | | | MIXED DARK YELLOWISH BROWN & OLIVE BROWN FEW FAINT |
| 30 | STONY FINE & VERY FINE SANDY LOAM | FIRM | OLIVE COMMON DISTINCT |
| 40 | | | |
| 50 | | | LIMIT OF EXCAVATION @ 48" |

| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 19 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

Observation Hole TP 32 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

| Depth Below Mineral Soil Surface (inches) | SOIL TEST PIT BY BACKHOE | | | Mottling |
|---|----------------------------|-------------|---------------------------|---------------------------|
| | Texture | Consistency | Color | |
| 0 | | | | |
| 10 | STONY FINE SANDY LOAM | FRIABLE | DARK BROWN | |
| 20 | | | YELLOWISH BROWN FEW FAINT | |
| 25 | GRAVELLY LOAMY SAND & SAND | FIRM | OLIVE BROWN COMMON FAINT | |
| 30 | | | OLIVE | |
| 40 | | | | |
| 50 | | | | LIMIT OF EXCAVATION @ 47" |

| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 17 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

James Logan
SIGNATURE

237/213

6/15/23

LSE/CSS #

DATE

SOIL TEST PIT PROFILE DESCRIPTIONS

LONGVIEW PARTNERS, LLC
6 SECOND STREET BUXTON, MAINE

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

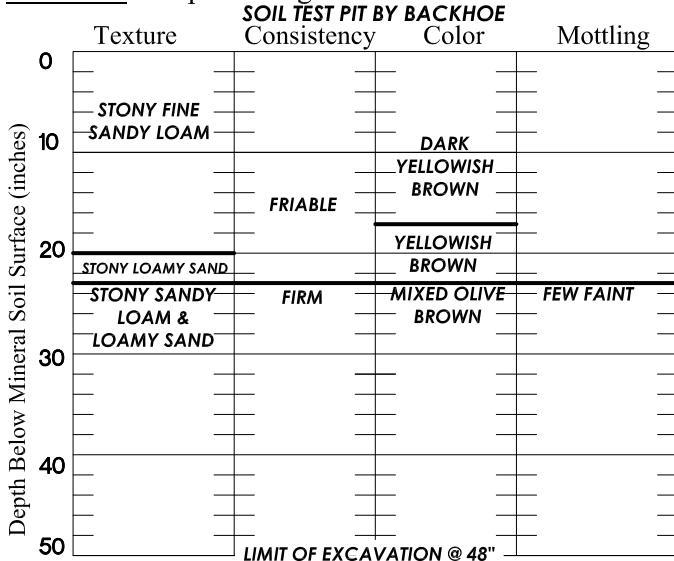
KITTERY

77 BARTLETT ROAD

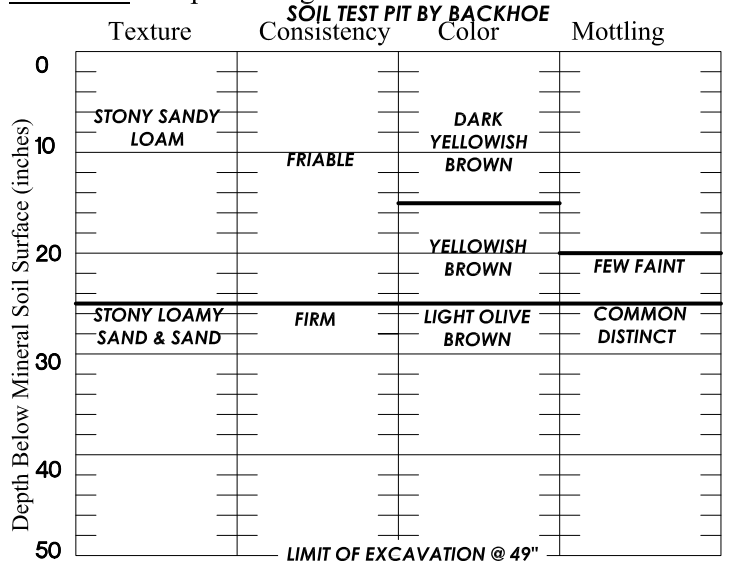
BOWLEY BUILDERS

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 33 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



Observation Hole TP 34 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

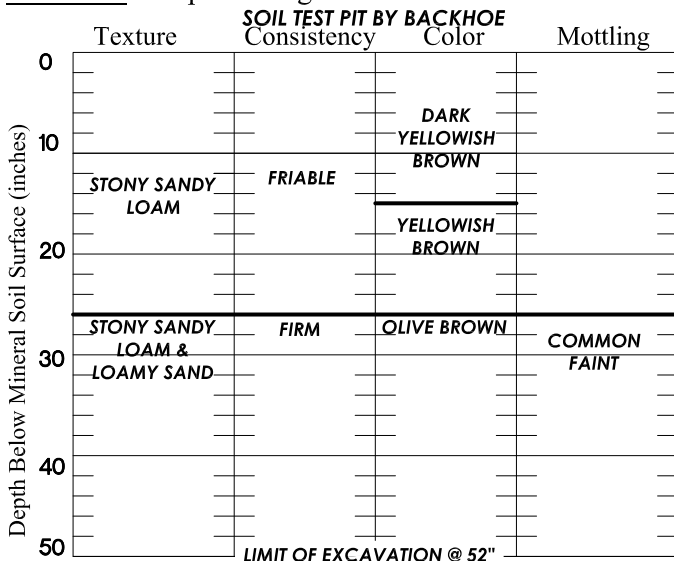


| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 23 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

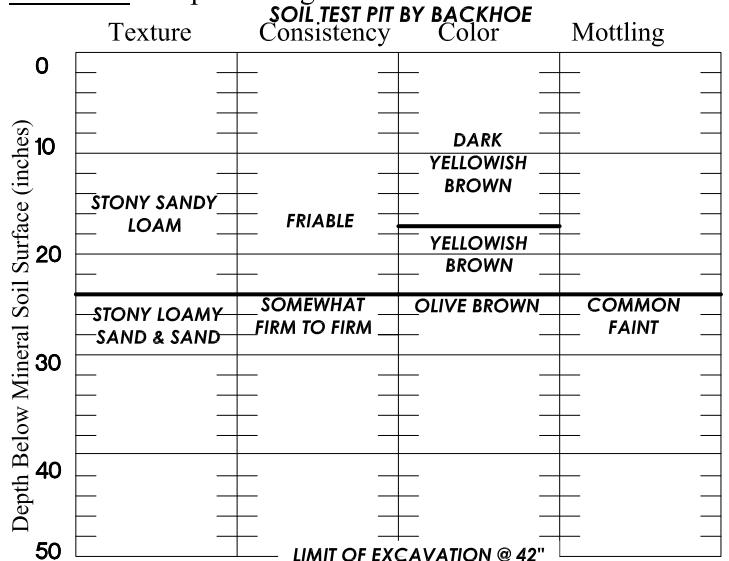
| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 20 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 35 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



Observation Hole TP 36 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 26 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 24 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

James Logan
SIGNATURE

237/213
LSE/CSS #

6/15/23
DATE

SOIL TEST PIT PROFILE DESCRIPTIONS

LONGVIEW PARTNERS, LLC
6 SECOND STREET BUXTON, MAINE

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

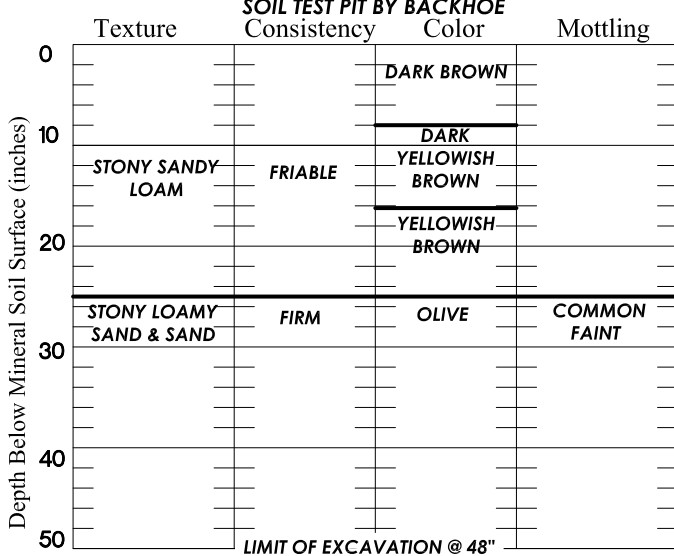
KITTERY

77 BARTLETT ROAD

BOWLEY BUILDERS

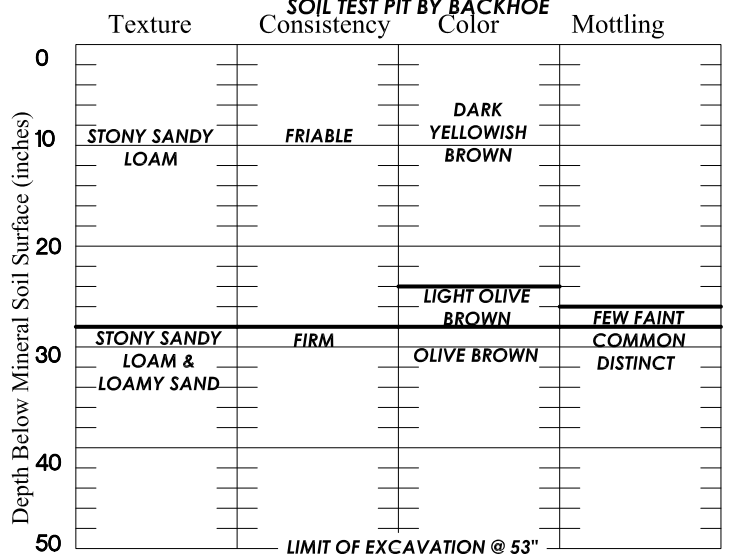
SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 37 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



| | | | |
|---------------------|---------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | _____ % | 25 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

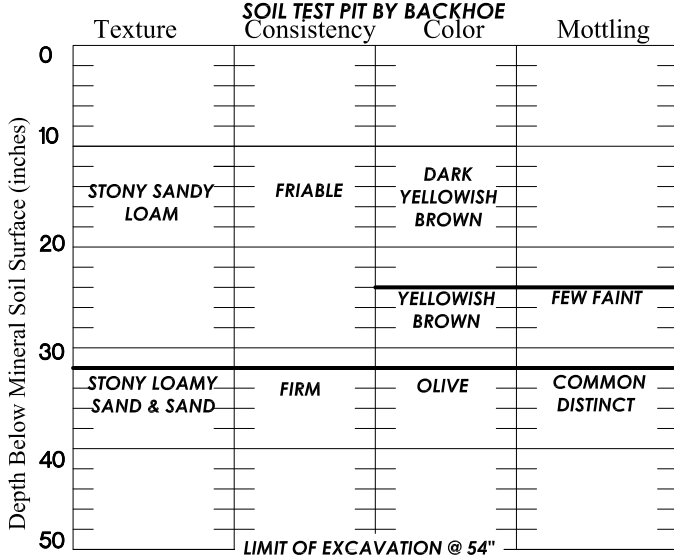
Observation Hole TP 38 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



| | | | |
|---------------------|---------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | _____ % | 26 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

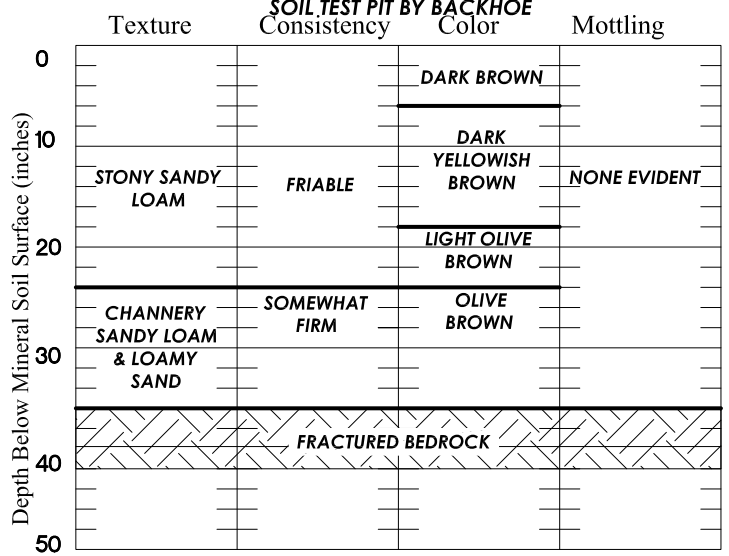
SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 39 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



| | | | |
|---------------------|---------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | _____ % | 24 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

Observation Hole TP 40 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil



| | | | |
|------------------------|---------|-----------------|---|
| Soil Classification | Slope | Limiting Factor | <input type="checkbox"/> Ground Water |
| 3 AIII/C | _____ % | 24 " | <input checked="" type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| TUNBRIDGE | | | <input type="checkbox"/> Pit Depth |

James Logan
SIGNATURE

237/213
LSE/CSS #

10/19/22
DATE

SOIL TEST PIT PROFILE DESCRIPTIONS

LONGVIEW PARTNERS, LLC
6 SECOND STREET BUXTON, MAINE

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

77 BARTLETT ROAD

BOWLEY BUILDERS

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 41 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|-------------------------------|-------------|----------------------|-----------------|
| | | DARK BROWN | |
| | | DARK YELLOWISH BROWN | |
| STONY SANDY LOAM | FRIABLE | OLIVE BROWN | |
| | | OLIVE GRAY | COMMON DISTINCT |
| STONY SANDY LOAM & LOAMY SAND | FIRM | | |
| LIMIT OF EXCAVATION @ 50" | | | |

| | | | |
|------------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 27 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD/SKERRY | | | <input type="checkbox"/> Pit Depth |

Observation Hole TP 42 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|-------------------------------|-------------|----------------------|-----------------|
| | | DARK BROWN | |
| | | DARK YELLOWISH BROWN | |
| STONY SANDY LOAM | FRIABLE | OLIVE BROWN | FEW FAINT |
| | | OLIVE GRAY | COMMON DISTINCT |
| STONY SANDY LOAM & LOAMY SAND | FIRM | | |
| LIMIT OF EXCAVATION @ 49" | | | |

| | | | |
|----------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 D | % | 13 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| COLONEL (SWP) | | | <input type="checkbox"/> Pit Depth |

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 43 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|------------------------------|-------------|----------------------|-----------------|
| | | DARK BROWN | |
| | | DARK YELLOWISH BROWN | |
| VERY FINE SANDY LOAM | FRIABLE | OLIVE BROWN | FEW FAINT |
| | | OLIVE GRAY | COMMON DISTINCT |
| STONY LOAMY FINE SAND & SILT | FIRM | | |

| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 8 C | % | 20 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

Observation Hole TP 44 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

SOIL TEST PIT BY BACKHOE

| Texture | Consistency | Color | Mottling |
|----------------------------------|-------------|----------------------|-----------------|
| | | DARK BROWN | |
| | | DARK YELLOWISH BROWN | |
| GRAVELLY FINE SANDY LOAM | FRIABLE | OLIVE BROWN | FEW FAINT |
| | | OLIVE GRAY | COMMON DISTINCT |
| LOAMY SAND | | | |
| | | YELLOWISH BROWN | FEW FAINT |
| GRAVELLY SANDY LOAM & LOAMY SAND | FIRM | MIXED OLIVE BROWN | COMMON FAINT |

| | | | |
|---------------------|-------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | % | 24 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

James Logan
SIGNATURE

237/213
LSE/CSS #

6/15 & 7/25/23
DATE

SOIL TEST PIT PROFILE DESCRIPTIONS

LONGVIEW PARTNERS, LLC
6 SECOND STREET BUXTON, MAINE

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

KITTERY

77 BARTLETT ROAD

BOWLEY BUILDERS

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 45 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

| Texture | Consistency | Color | Mottling |
|-------------------------------|-------------|----------------------|-----------|
| 0 | | | |
| STONY FINE SANDY LOAM | | | |
| | FRIABLE | DARK YELLOWISH BROWN | |
| 20 | | | |
| STONY LOAMY SAND | | YELLOWISH BROWN | |
| 30 | FIRM | MIXED OLIVE BROWN | FEW FAINT |
| STONY SANDY LOAM & LOAMY SAND | | | |
| 40 | | | |
| 50 | | | |

| | | | |
|---------------------|---------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | _____ % | 29 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

Observation Hole TP 46 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

| Texture | Consistency | Color | Mottling |
|-------------------------|-------------|----------------------|-----------------|
| 0 | | | |
| STONY SANDY LOAM | | | |
| | FRIABLE | DARK YELLOWISH BROWN | |
| 20 | | | |
| | | YELLOWISH BROWN | FEW FAINT |
| 30 | FIRM | OLIVE | COMMON DISTINCT |
| STONY LOAMY SAND & SAND | | | |
| 40 | | | |
| 50 | | | |

| | | | |
|---------------------|---------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | _____ % | 26 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

SOIL DESCRIPTION AND CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES)

Observation Hole TP 47 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

| Texture | Consistency | Color | Mottling |
|-------------------------|-------------|----------------------|-----------------|
| 0 | | | |
| STONY SANDY LOAM | | | |
| | FRIABLE | DARK YELLOWISH BROWN | |
| 20 | | | |
| | | YELLOWISH BROWN | FEW FAINT |
| 30 | FIRM | OLIVE | COMMON DISTINCT |
| STONY LOAMY SAND & SAND | | | |
| 40 | | | |
| 50 | | | |

| | | | |
|---------------------|---------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water |
| 3 C | _____ % | 25 " | <input type="checkbox"/> Restrictive Layer |
| Profile Condition | | | <input type="checkbox"/> Bedrock |
| DIXFIELD | | | <input type="checkbox"/> Pit Depth |

Observation Hole _____ Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

| Texture | Consistency | Color | Mottling |
|---------|-------------|-------|----------|
| 0 | | | |
| 10 | | | |
| 20 | | | |
| 30 | | | |
| 40 | | | |
| 50 | | | |

| | | | |
|---------------------|---------|-----------------|--|
| Soil Classification | Slope | Limiting Factor | <input type="checkbox"/> Ground Water |
| Profile Condition | _____ % | _____ " | <input type="checkbox"/> Restrictive Layer |
| | | | <input type="checkbox"/> Bedrock |
| | | | <input type="checkbox"/> Pit Depth |

James Logan
SIGNATURE

237/213
LSE/CSS #

7/25/23
DATE

Attachment 5

Groundwater Availability Letter



Ground Water Availability Assessment of the Bartlett Road Subdivision, Kittery

Date: July 25, 2023

Summary of the Assessment:

The proposed subdivision of nine residential lots satisfies the requirements of the Town of Kittery Subdivision Ordinance regarding effects on ground water quantity.

Purpose of the Assessment:

The purpose of the assessment is to predict the possible effects on ground water from water wells planned for the project to satisfy the requirements of the Town of Kittery.

Information used:

Information used in this assessment includes the *Sketch Plan Conservation Subdivision* by Terradyn Consultants dated 5/18/23 and library research of published geologic, hydrogeologic and soils information.

Project summary:

The project is a subdivision of nine residential lots on 19.3 acres. One existing home occupies one lot. The residences will be single family homes, served by private, drilled bedrock water wells. The homes are assumed to be four-bedrooms in size.

Summary of geology:

The property is located (see Figure 1) on the dissected coastal plain of Kittery, south of Forty Acre Hill. Surface slopes are gentle.

The site is mapped (see Figure 2) as a marine nearshore deposit (Pmn) on the *Surficial Geology of the Kittery 7.5 Quadrangle, York County Maine* (ME Geol. Surv. Open-File Map 99-88). Marine nearshore deposits are defined as “thin, discontinuous and water laid sediments overlying shallow bedrock”.

Depths to bedrock are reported from water wells in the area to be 4 to 10 feet below the surface (see Figure 6). The bedrock is mapped as metamorphosed sandstones and siltstones of the Kittery Formation (SOk) by Arthur Hussey (see Figure 3) on the *Bedrock Geology of the Kittery Quadrangle, Maine* (ME Geol. Surv, Geologic Map 12-28).

Summary of hydrogeology:

The source of ground water on this site is precipitation. Precipitation falling on this site seeps into the soil and descends until restrictive soil layers, the water table or bedrock is encountered, where a portion seeps into the open fractures of the bedrock.

On this site the soils are sandy loam to loamy sand in texture. Surface slopes are gentle. Soil recharge is average to above average on the property.

Based on the recommendations of the Maine DEP for hydrogeologic assessments, 30% of all precipitation can be expected to recharge the soil.

Impact on ground water quantity:

An estimated 3,600 gallons of water will be removed from the bedrock aquifer per day, assuming each of the single-family residences uses 400 gallons per day.

Water occurs in fractures and partings in a rock body. The openness and spacing of the fractures and partings differs from rock body to rock body and within the rock body as well. It is extremely difficult to predict the well yield and well depth at any specific location, but general trends can be discerned by looking at well drilling results.

There are two variables to consider when evaluating a water well. One is the depth of the borehole into the rock and the other is the amount of water that can be delivered to the borehole from the bedrock fractures. Where the yield of the well is low, a deep borehole can act as a storage container. The typical drilled, bedrock water well in Maine is 300 feet deep and has a yield of 3 gallons per minute.

To investigate the capacity of the site to deliver water from the bedrock aquifer to the proposed homes, while complying with the Ordinance, research of existing published information was made.

No test wells were drilled and evaluated on the property, but the Maine Water Well Database of the Maine Geological Survey provides published information of existing water wells that are searchable. These are presented in a map format (see Figures 4 and 5).

Twenty-one bedrock wells within 3,500 feet of the property, drilled into the same Kittery Formation that underlies the property, were tallied regarding depth and yield of well.

Well depths range from 72 feet to 520 feet deep. The average well depth is 260 feet, and the median well depth is 240 feet deep. Well yields range from 2 gpm to 100 gpm. The average yield is 22.8 gpm and the median is 6 gpm. These results suggest the Kittery Formation in this area is a body of rock offering above average aquifer characteristics regarding depth and yield.

To better understand the capacity of the bedrock aquifer to deliver the quantity of water required by nine residences without depleting the stored water in the ground, an analysis of the recharge capacity of the property was made.

Precipitation recharges the bedrock aquifer, and typical rates of recharge are known from studies of bedrock in Maine. Rocks like the Kittery Formation typically recharge 9 inches (0.75 feet) of precipitation per year into the bedrock. This is regardless of drought conditions.

A simple Mass-Balance equation can be done to evaluate the capacity of the subject property to supply sufficient water to the bedrock aquifer. Calculations are attached as Table 1 and indicate the property itself supplies more water to the bedrock than will be withdrawn by the proposed wells.

Conclusions:

The bedrock aquifer recharge capacity of the parcel is greater than the ground water withdrawal from the proposed water wells. The Kittery Formation beneath the site is a good bedrock aquifer, as shown by a review of the nearest bedrock water wells in the Maine Water Well Database.


Mark Cenci, LG # 467

TABLE 1

Bedrock Aquifer Mass-Balance Calculations

Assumptions:

19.3-acre parcel

9 single family residences pumping 400 gallons per day, (3,600 gpd total)

4 feet per year of precipitation

9 inches recharge (0.75 ft) to the bedrock per year, at a recharge rate of 21%

Calculations:

$19.3 \text{ acres} \times 43,540 \text{ sq ft/acre} \times 0.75 \text{ ft/year} \times 7.481 \text{ gal/sq ft} / 365 \text{ days per year} = 51,693$
gallons per day, average, recharged into the bedrock aquifer on this parcel.

Conclusions:

Recharge to the bedrock aquifer on the property exceeds the withdrawal from the combined total of existing and new wells.

Attachment 6

Vernal Pool Assessment Methodology & Summary



JANET T. MILLS
GOVERNOR

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION



MELANIE LOYZIM
COMMISSIONER

July 5, 2023

Bowley Builders
86 York Street, Suite 3
Kennebunk, ME 04043

Re: Vernal Pool Significance Determination, Pool ID #s 5156, 5157–Kittery

To Whom It May Concern:

Vernal pools are temporary to semi-permanent wetlands occurring in shallow depressions that typically fill during the spring and dry during the summer or in drought years. They provide important breeding and foraging habitat for a wide variety of specialized wildlife species including several rare, threatened, and endangered species.

After conducting a field survey at your request, it has been determined that the vernal pools identified above on your property are NOT SIGNIFICANT because either: 1. the features do not meet the definition of a vernal pool under the Significant Wildlife Habitat rules, 06-096 CMR 335(9) or 2. the vernal pools do not meet the biological standards for exceptional wildlife use of the Significant Wildlife Habitat rules, 06-096 CMR 335(9)(B). Therefore, activities within 250 feet of the pools are not regulated under the Natural Resources Protection Act (NRPA) unless there are other protected natural resources nearby such as streams or freshwater wetlands. I have attached a copy of the database printout that verifies the State's findings with respect to your survey.

I want to also advise you that the pool areas on your property can be considered freshwater wetlands and therefore direct pool alterations may require permitting under the NRPA.

If you have any questions or need further clarification, please contact Mark Stebbins at 207-592-4810 or email at: Mark.N.Stebbins@maine.gov

Sincerely,

Robert Wood
Director, Bureau of Land Resources

cc. town file

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
(207) 287-7688 FAX: (207) 287-7826

BANGOR
106 HOGAN ROAD, SUITE 6
BANGOR, MAINE 04401
207-941-4570 FAX: (207) 941-4584

PORTLAND
312 CANCO ROAD
PORTLAND, MAINE 04103
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04769
(207) 764-0477 FAX: (207) 760-3143

IFW Recommendations for Significant Vernal Pool Determinations

The following is a list of pools and IFW's recommendations for whether or not they qualify as Significant Vernal Pools, one of Maine's Significant Wildlife Habitats.

Data current as of: Wednesday, July 05, 2023

IFW's Pool ID: 5156 Twp: Kittery
Observer's ID: Pool 1

UTM Coordinates of Pool Center: 4774569 E, 4774569 N
ProjectType: 77 BARTLETT ROAD

Landowner: Bowley Builders
86 York Street, Suite 3
Kennebunk, ME 04043
geoff@bowleybuilders.com

Contact: James Logan - Longview Partners, LLC
6 Second Street
Buxton, ME 04093
(207) 693-8799 longviewpartners213@gmail.com

Survey Date: 4/4/2023

Additional Survey Dates: 04/26/2023, 05/03/2023

IFW's Recommendation: RED: NOT SIGNIFICANT, does not meet the biological criteria

IFW Comments: pool provides some habitat for spotted salamanders but does not meet biological criteria for significance.

IFW's Pool ID: 5157 Twp: Kittery
Observer's ID: Pool 2

UTM Coordinates of Pool Center: 4774518 E, 4774518 N
ProjectType: 77 BARTLETT ROAD

Landowner: Bowley Builders
86 York Street, Suite 3
Kennebunk, ME 04043
geoff@bowleybuilders.com

Contact: James Logan - Longview Partners, LLC
6 Second Street
Buxton, ME 04093
(207) 693-8799 longviewpartners213@gmail.com

Survey Date: 4/4/2023

Additional Survey Dates: 04/26/2023, 05/03/2023

IFW's Recommendation: RED: NOT SIGNIFICANT, does not meet the biological criteria

IFW Comments: pool provides some habitat for wood frogs but does not meet biological criteria for significance.



Maine State Vernal Pool Assessment Form



INSTRUCTIONS:

- Complete all 3 pages of form thoroughly. Most fields are required for pool registration.
- Clear photographs of a) the pool AND b) the indicators (one example of each species egg mass) are required for all observers.

Observer's Pool ID: **POOL 1**

MDIFW Pool ID:

1. PRIMARY OBSERVER INFORMATION

- a. Observer name: **LONGVIEW PARTNERS (J. LOGAN & W. O'CONNOR)**
- b. Contact and credentials previously provided? No (submit Addendum 1) Yes

2. PROJECT CONTACT INFORMATION

- a. Contact name: same as observer other
- b. Contact and credentials previously provided? No (submit Addendum 1) Yes
- c. Project Name: **77 BARTLETT ROAD**

3. LANDOWNER CONTACT INFORMATION

- a. Are you the landowner? Yes No If no, was landowner permission obtained for survey? Yes No
- b. Landowner's contact information (required)
- Name: **BOWLEY BUILDERS** Phone: E-mail: **geoff@bowleybuilders.com**
- Street Address: **86 YORK STREET, SUITE 3** City: **KENNEBUNK** State: **ME** Zip: **04043**
- c. Large Projects: check if separate project landowner data file submitted

The Maine Department of Environmental Protection will e-mail official status letters to the project contact and landowner. Please check these data for completeness and accuracy to prevent delay in mailings. E-mail is the preferred method of notification; please provide e-mail addresses for the project contact and the landowner when available.

4. VERNAL POOL LOCATION INFORMATION

- a. **Location** Township: **KITTERY**
- Brief site directions to the pool (using mapped landmarks):

PLEASE SEE ATTACHED

b. Mapping Requirements

- i. USGS topographic map OR aerial photograph with pool clearly marked.
- ii. **GPS location of vernal pool (use Datum NAD83 / WGS84)**
- Longitude/Easting: **70 41' 18.08"W** Latitude/Northing: **43 06' 41.04"N**
- Coordinate system: **WGS 1984**
- Check one: GIS shapefile
- send to VernalPool.MDIFW@maine.gov; observer has reviewed shape accuracy (Best) The pool perimeter is delineated by multiple GPS points. (Excellent)
- Include map or spreadsheet with coordinates.
- The above GPS point is at the center of the pool. (Good)



Maine State Vernal Pool Assessment Form



5. VERNAL POOL HABITAT INFORMATION

a. Habitat survey date (only if different from indicator survey dates on page 3):

b. Wetland habitat characterization

■ Choose the best descriptor for the landscape setting:

- | | |
|-----------------------|---|
| Isolated depression | Pool associated with larger wetland complex |
| Floodplain depression | Other: |

■ Check all wetland types that best apply to this pool:

- | | | | |
|-----------------------|--------------------------|-------------------------|------------------------|
| Forested swamp | Wet meadow | Slow stream | Dug pond or borrow pit |
| Shrub swamp | Lake or pond cove | Floodplain | Roadside ditch |
| Peatland (fen or bog) | Abandoned beaver flowage | Mostly unvegetated pool | Other: |
| Emergent marsh | Active beaver flowage | ATV or skidder rut | |

c. Vernal pool status under the Natural Resources Protection Act (NRPA)

i. Pool Origin: Natural Natural-Modified Unnatural Unknown

If modified, unnatural or unknown, describe any modern or historic human impacts to the pool (**required**):

ii. Pool Hydrology

■ Select the pool's estimated hydroperiod AND provide rationale in box (**required**):

- | | | | |
|-----------|---|--|---------|
| Permanent | Semi-permanent (drying partially in all years and completely in drought years) | Ephemeral (drying out completely in most years) | Unknown |
|-----------|---|--|---------|

Explain:

SLOW-MOVING DRAINAGE FLOWS THROUGH POOL

■ Maximum depth at survey: 0-12" (0-1 ft.) 12-36" (1-3 ft.) 36-60" (3-5 ft.) >60" (>5 ft.)

■ Approximate size of pool (at spring highwater): Width: m ft Length: m ft

■ Predominate substrate in order of increasing hydroperiod:

- | | |
|---|---|
| Mineral soil (bare, leaf-litter bottom, or upland mosses present) | Organic matter (peat/muck) shallow or restricted to deepest portion |
| Mineral soil (sphagnum moss present) | Organic matter (peat/muck) deep and widespread |

■ Pool vegetation indicators in order of increasing hydroperiod (check all that apply):

- | | |
|--|--|
| Terrestrial nonvascular spp. (e.g. haircap moss, lycopodium spp.) | Wet site ferns (e.g. royal fern, marsh fern) |
| Dry site ferns (e.g. spinulose wood fern, lady fern, bracken fern) | Wet site shrubs (e.g. highbush blueberry, maleberry, winterberry, mountain holly) |
| Moist site ferns (e.g. sensitive fern, cinnamon fern, interrupted fern, New York fern) | Wet site graminoids (e.g. blue-joint grass, tussock sedge, cattail, bulrushes) |
| Moist site vasculars (e.g. skunk cabbage, jewelweed, blue flag iris, swamp candle) | Aquatic vascular spp. (e.g. pickerelweed, arrowhead) |
| Sphagnum moss (anchored or suspended) | Floating or submerged aquatics (e.g. water lily, water shield, pond weed, bladderwort) |
| | No vegetation in pool |

■ Faunal indicators (check all that apply):

- | | | |
|------|---------------------------------|--------|
| Fish | Bullfrog or Green Frog tadpoles | Other: |
|------|---------------------------------|--------|

iii. Inlet/Outlet Flow Permanency

Type of inlet or outlet (a seasonal or permanent channel providing water flowing into or out of the pool):

- | | |
|------------------------------|--|
| No inlet or outlet | Permanent inlet or outlet (channel with well-defined banks and permanent flow) |
| Intermittent inlet or outlet | Other or Unknown (explain): |



Maine State Vernal Pool Assessment Form



6. VERNAL POOL INDICATOR INFORMATION

a. Indicator survey dates: **APRIL 4 & 26, & MAY 3, 2023**

b. Indicator abundance criteria and pool survey effort

- Is pool depression bisected by 2 ownerships (straddler pool)? Yes No
- Was the entire pool surveyed for egg masses? Yes No; what % of entire pool surveyed?
- For each indicator species, indicate the exact number of egg masses, confidence level for species determination, and egg mass maturity. Separate cells are provided for separate survey dates.

| INDICATOR SPECIES | Egg Masses (or adult Fairy Shrimp) | | | | | | Tadpoles/Larvae ⁴ | | | | | |
|---------------------------|------------------------------------|----------|----------|-------------------------------|---|---|--------------------------------|---|----------|--|-------------------------------|--|
| | Visit #1 | Visit #2 | Visit #3 | Confidence Level ¹ | | | Egg Mass Maturity ² | | Observed | | Confidence Level ¹ | |
| Wood Frog | 0 | 0 | 0 | 3 | 3 | 3 | | | | | | |
| Spotted Salamander | 0 | 0 | 4 | 3 | 3 | 3 | | M | | | | |
| Blue-spotted Salamander | 0 | 0 | 0 | 3 | 3 | 3 | | | | | | |
| Fairy Shrimp ³ | 0 | 0 | 0 | 3 | 3 | 3 | | | | | | |

1-Confidence level: 1 = <60%, 2 = 60-95%, 3 = >95%

2-Egg mass maturity: F= Fresh (<24 hrs), M= Mature (round embryos), A= Advanced (loose matrix, curved embryos), H= Hatched or Hatching

3-Fairy shrimp: X = present

4-Tadpoles/larvae: X = present

c. Rarity criteria

- Note any rare species associated with vernal pools. Observations should be accompanied by photographs.

| SPECIES | Method of Verification* | | | CL** | SPECIES | Method of Verification* | | | CL** |
|-------------------|-------------------------|---|---|------|--------------|-------------------------|---|---|------|
| | P | H | S | | | P | H | S | |
| Blanding's Turtle | | | | | Wood Turtle | | | | |
| Spotted Turtle | | | | | Ribbon Snake | | | | |
| Ringed Boghaunter | | | | | Other: | | | | |

*Method of verification: P = Photographed, H = Handled, S = Seen

**CL - Confidence level in species determination: 1= <60%, 2= 60-95%, 3= >95%

d. Optional observer recommendation:

SVP Potential SVP Non Significant VP Indicator Breeding Area

e. General vernal pool comments and/or observations of other wildlife:

POOL LACKS SUFFICIENT SUBMERGED WOODY VEGETATION TO SUPPORT SIGNIFICANT NUMBERS OF EGG MASSES. SLOW MOVING DRAINAGE.

Send completed form and supporting documentation to: VernalPool.MDIFW@maine.gov

NOTE: Digital submissions are preferred but if not possible, please mail to: Maine Department of Inland Fisheries and Wildlife
Attn: Vernal Pools
106 Hogan Road, Suite 1
Bangor, ME 04401

For MDIFW use only

Reviewed by MDIFW Date:

Initials:

This pool is: **Significant** **Potentially Significant** but lacking critical data **Not Significant** due to: does not meet biological criteria. does not meet MDEP vernal pool criteria.

Comments:

106 Hogan Rd
to 77 Bartlett Rd

2 hr 40 min

180.7 miles

IRS reimbursement: **\$105.68**



Head toward Hogan Rd. Go for 0.1 mi.

Then 0.11 miles



Turn left onto Hogan Rd. Go for 1.0 mi.

Then 0.99 miles



Turn sharp left and take ramp onto I-95 S toward Newport/Augusta. Go for 84.1 mi.

Then 84.15 miles



Take exit 103 toward I-295 S/Gardiner/ME-9/Brunswick/ME-126. Go for 0.7 mi.

Then 0.66 miles



Keep left onto I-295. Go for 51.6 mi.

Then 51.63 miles

Take the exit onto I-95 (Gold Star Memorial Hwy). Go for 37.0 mi.

Then 37.00 miles



Take exit 7 toward Yorks/US-1/The Berwicks/ME-91. Go for 0.3 mi.

Then 0.26 miles



Turn left onto Spur Rd. Go for 0.5 mi.

Then 0.46 miles



Turn right onto Blue Star Memorial Hwy (US-1). Go for 0.3 mi.

Then 0.33 miles



Turn left onto York St (US-1A). Go for 1.3 mi.

Then 1.34 miles



Turn right onto Lilac Ln (ME-103). Go for 2.2 mi.

Then 2.21 miles



Turn right onto Payne Rd. Go for 0.6 mi.

Then 0.62 miles



Turn left onto Bartlett Rd. Go for 0.8 mi.

Then 0.79 miles

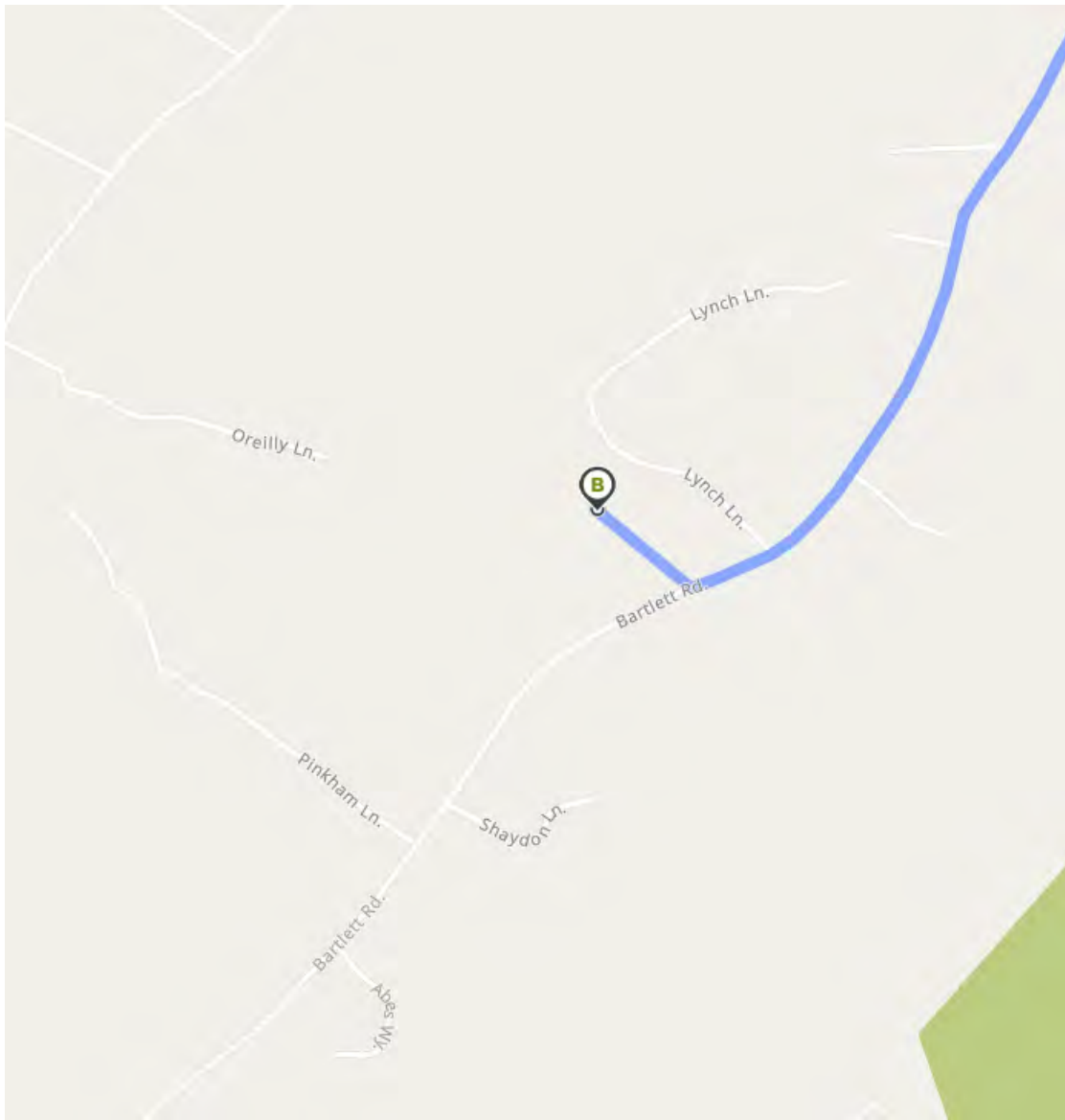


Turn right. Go for 0.1 mi.

Then 0.11 miles



77 Bartlett Rd
Kittery, ME 03905-5640



Bowley Builders property
77 Bartlett Road
Kittery, Maine
Spring 2023 Vernal Pool Study-Pool 1



Pool 1, April 4, 2023



Pool 1, April 4, 2023

Bowley Builders property
77 Bartlett Road
Kittery, Maine
Spring 2023 Vernal Pool Study-Pool 1



Pool 1, April 26, 2023



Pool 1, April 26, 2023

Bowley Builders property
77 Bartlett Road
Kittery, Maine
Spring 2023 Vernal Pool Study-Pool 1



Pool 1, May 3, 2023



Spotted Salamander egg mass in Pool 1, May 3, 2023

Bowley Builders property
77 Bartlett Road
Kittery, Maine
Spring 2023 Vernal Pool Study-Pool 1



Pool 1, May 3, 2023



DELINEATION NOTES:
WETLAND STUDY CONDUCTED AUGUST 31, 2022

PLAN NOTES:
THIS IS A COMPOSITE OF PROPERTY BOUNDARY INFORMATION PER TOWN OF KITTERY TAX MAP, MAINE OFFICE OF GIS, 2" TOPOGRAPHIC CONTOURS, & AERIAL PHOTOGRAPH, AND SUBMETER GPS LOCATION OF WETLAND BOUNDARIES & OTHER SITE FEATURES AS DEPICTED BY LONGVIEW PARTNERS, LLC.

MAP IS FURNISHED FOR PLANNING PURPOSES ONLY AND SHALL NOT BE REPRODUCED OR UTILIZED BY ANYONE OTHER THAN THE PARTIES NAMED WITHOUT EXPRESS WRITTEN CONSENT OF LONGVIEW PARTNERS, LLC.

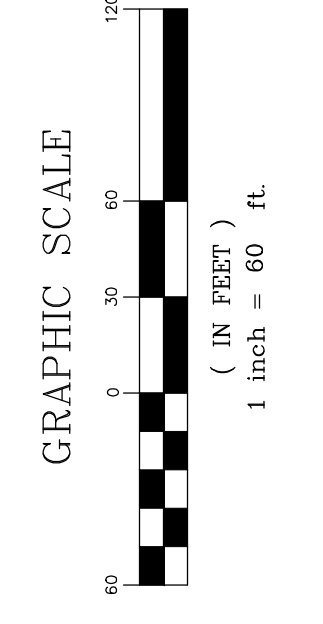
LEGEND:

- FRESHWATER WETLAND AREA (LOCATED BY LONGVIEW PARTNERS, LLC SUBMETER GPS)
- POTENTIAL VERNAL POOL (LOCATED BY LONGVIEW PARTNERS, LLC SUBMETER GPS)
- SOIL TEST PIT (LOCATED BY LONGVIEW PARTNERS, LLC SUBMETER GPS)
- POTENTIAL WASTEWATER DISPOSAL SITE
- BEDROCK OUTCROP (LOCATED BY LONGVIEW PARTNERS, LLC SUBMETER GPS)

WETLAND DELINEATION & VERNAL POOL LOCATION PLAN
PREPARED FOR
BOWLEY BUILDERS
77 BARTLETT ROAD
(MAP 62, LOT 26)
KITTERY, MAINE



PLAN DATE: 5/15/23
SCALE: 1" = 60'
CHECKED: JL
DRAFT: BO
ENVIRONMENTAL PERMITTING SPECIALISTS





Maine State Vernal Pool Assessment Form



INSTRUCTIONS:

- Complete all 3 pages of form thoroughly. Most fields are required for pool registration.
Clear photographs of a) the pool AND b) the indicators (one example of each species egg mass) are required for all observers.

Observer's Pool ID: POOL 2

MDIFW Pool ID:

1. PRIMARY OBSERVER INFORMATION

- Observer name: LONGVIEW PARTNERS (J. LOGAN & W. O'CONNOR)
Contact and credentials previously provided? No (submit Addendum 1) Yes

2. PROJECT CONTACT INFORMATION

- Contact name: same as observer other
Contact and credentials previously provided? No (submit Addendum 1) Yes
Project Name: 77 BARTLETT ROAD

3. LANDOWNER CONTACT INFORMATION

- Are you the landowner? Yes No If no, was landowner permission obtained for survey? Yes No
Landowner's contact information (required)
Name: BOWLEY BUILDERS Phone: E-mail: geoff@bowleybuilders.com
Street Address: 86 YORK STREET, SUITE 3 City: KENNEBUNK State: ME Zip: 04043
Large Projects: check if separate project landowner data file submitted

The Maine Department of Environmental Protection will e-mail official status letters to the project contact and landowner. Please check these data for completeness and accuracy to prevent delay in mailings. E-mail is the preferred method of notification; please provide e-mail addresses for the project contact and the landowner when available.

4. VERNAL POOL LOCATION INFORMATION

- Location Township: KITTERY
Brief site directions to the pool (using mapped landmarks):

PLEASE SEE ATTACHED

b. Mapping Requirements

- USGS topographic map OR aerial photograph with pool clearly marked.
GPS location of vernal pool (use Datum NAD83 / WGS84)
Longitude/Easting: 70 41' 13.88"W Latitude/Northing: 43 06' 39.44"N
Coordinate system: WGS 1984
Check one: GIS shapefile
- send to VernalPool.MDIFW@maine.gov; observer has reviewed shape accuracy (Best) The pool perimeter is delineated by multiple GPS points. (Excellent)
- Include map or spreadsheet with coordinates.
The above GPS point is at the center of the pool. (Good)



Maine State Vernal Pool Assessment Form



5. VERNAL POOL HABITAT INFORMATION

a. Habitat survey date (only if different from indicator survey dates on page 3):

b. Wetland habitat characterization

■ Choose the best descriptor for the landscape setting:

- | | |
|-----------------------|---|
| Isolated depression | Pool associated with larger wetland complex |
| Floodplain depression | Other: |

■ Check all wetland types that best apply to this pool:

- | | | | |
|-----------------------|--------------------------|-------------------------|------------------------|
| Forested swamp | Wet meadow | Slow stream | Dug pond or borrow pit |
| Shrub swamp | Lake or pond cove | Floodplain | |
| Peatland (fen or bog) | Abandoned beaver flowage | Mostly unvegetated pool | Roadside ditch |
| Emergent marsh | Active beaver flowage | ATV or skidder rut | Other: |

c. Vernal pool status under the Natural Resources Protection Act (NRPA)

i. Pool Origin: Natural Natural-Modified Unnatural Unknown

If modified, unnatural or unknown, describe any modern or historic human impacts to the pool (**required**):

POOLING OF WATER WITHIN WETLAND HAS BEEN CAUSED BY THE TRAVEL SURFACE OF BARTLETT ROAD.

ii. Pool Hydrology

■ Select the pool's estimated hydroperiod AND provide rationale in box (**required**):

- | | | | |
|-----------|---|--|---------|
| Permanent | Semi-permanent (drying partially in all years and completely in drought years) | Ephemeral (drying out completely in most years) | Unknown |
|-----------|---|--|---------|

Explain:

SLOW-MOVING DRAINAGE FLOWS THROUGH POOL. POOL HAS BEEN OBSERVED IN ALL SEASONS OVER THE PAST 2 CALENDAR YEARS.

■ Maximum depth at survey: 0-12" (0-1 ft.) 12-36" (1-3 ft.) 36-60" (3-5 ft.) >60" (>5 ft.)

■ Approximate size of pool (at spring highwater): Width: m ft Length: m ft

■ Predominate substrate in order of increasing hydroperiod:

- | | |
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- | | |
|--|--|
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| Moist site vasculars (e.g. skunk cabbage, jewelweed, blue flag iris, swamp candle) | Aquatic vascular spp. (e.g. pickerelweed, arrowhead) |
| Sphagnum moss (anchored or suspended) | Floating or submerged aquatics (e.g. water lily, water shield, pond weed, bladderwort) |
| | No vegetation in pool |

■ Faunal indicators (check all that apply):

- | | | |
|------|---------------------------------|--------|
| Fish | Bullfrog or Green Frog tadpoles | Other: |
|------|---------------------------------|--------|

iii. Inlet/Outlet Flow Permanency

Type of inlet or outlet (a seasonal or permanent channel providing water flowing into or out of the pool):

- | | |
|------------------------------|--|
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Maine State Vernal Pool Assessment Form



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- Is pool depression bisected by 2 ownerships (straddler pool)? Yes No
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| | Visit #1 | Visit #2 | Visit #3 | Confidence Level ¹ | | | Egg Mass Maturity ² | | Observed | | Confidence Level ¹ | | |
| Wood Frog | 0 | 1 | 4 | 3 | 3 | 3 | | M | H | | | | |
| Spotted Salamander | 0 | 0 | 0 | 3 | 3 | 3 | | | | | | | |
| Blue-spotted Salamander | 0 | 0 | 0 | 3 | 3 | 3 | | | | | | | |
| Fairy Shrimp ³ | 0 | 0 | 0 | 3 | 3 | 3 | | | | | | | |

1-Confidence level: 1 = <60%, 2 = 60-95%, 3 = >95%

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| SPECIES | Method of Verification* | | | CL** | SPECIES | Method of Verification* | | | CL** |
|-------------------|-------------------------|---|---|------|--------------|-------------------------|---|---|------|
| | P | H | S | | | P | H | S | |
| Blanding's Turtle | | | | | Wood Turtle | | | | |
| Spotted Turtle | | | | | Ribbon Snake | | | | |
| Ringed Boghaunter | | | | | Other: | | | | |

*Method of verification: P = Photographed, H = Handled, S = Seen

**CL - Confidence level in species determination: 1= <60%, 2= 60-95%, 3= >95%

d. Optional observer recommendation:

SVP Potential SVP Non Significant VP Indicator Breeding Area

e. General vernal pool comments and/or observations of other wildlife:

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Send completed form and supporting documentation to: VernalPool.MDIFW@maine.gov

NOTE: Digital submissions are preferred but if not possible, please mail to: Maine Department of Inland Fisheries and Wildlife
Attn: Vernal Pools
106 Hogan Road, Suite 1
Bangor, ME 04401

For MDIFW use only

Reviewed by MDIFW Date:

Initials:

This pool is: **Significant** **Potentially Significant** but lacking critical data **Not Significant** due to: does not meet biological criteria. does not meet MDEP vernal pool criteria.

Comments:

106 Hogan Rd
to 77 Bartlett Rd

2 hr 40 min

180.7 miles

IRS reimbursement: **\$105.68**



Head toward Hogan Rd. Go for 0.1 mi.

Then 0.11 miles



Turn left onto Hogan Rd. Go for 1.0 mi.

Then 0.99 miles



Turn sharp left and take ramp onto I-95 S toward Newport/Augusta. Go for 84.1 mi.

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Turn left onto Spur Rd. Go for 0.5 mi.

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Turn right onto Blue Star Memorial Hwy (US-1). Go for 0.3 mi.

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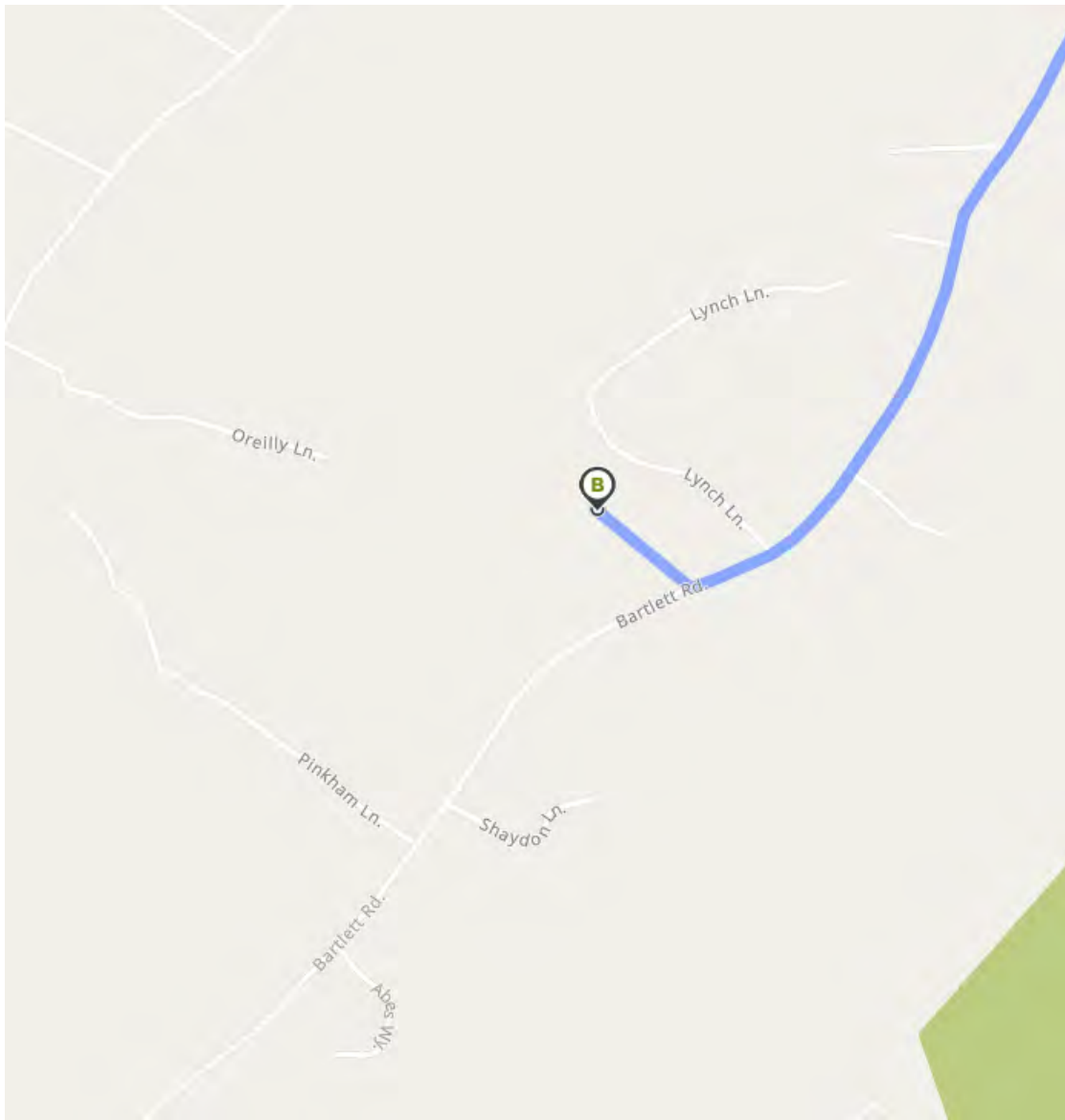


Turn right. Go for 0.1 mi.

Then 0.11 miles



77 Bartlett Rd
Kittery, ME 03905-5640



Bowley Builders property
77 Bartlett Road
Kittery, Maine
Spring 2023 Vernal Pool Study-Pool 2



Pool 2, April 4, 2023



Pool 2, April 26, 2023

Bowley Builders property
77 Bartlett Road
Kittery, Maine
Spring 2023 Vernal Pool Study-Pool 2



Pool 2, April 26, 2023



Wood frog egg mass in Pool 2, April 26, 2023

Bowley Builders property
77 Bartlett Road
Kittery, Maine
Spring 2023 Vernal Pool Study-Pool 2



Pool 2, May 26, 2023



Pool 2, May 3, 2023

Bowley Builders property
77 Bartlett Road
Kittery, Maine
Spring 2023 Vernal Pool Study-Pool 2



Wood frog egg mass in Pool 2, May 3, 2023



Pool 2, May 3, 2023



DELINEATION NOTES:
WETLAND STUDY CONDUCTED AUGUST 31, 2022

PLAN NOTES:
THIS IS A COMPOSITE OF PROPERTY BOUNDARY INFORMATION PER TOWN OF KITTERY TAX MAP, MAINE OFFICE OF GIS, 2" TOPOGRAPHIC CONTOURS, & AERIAL PHOTOGRAPH, AND SUBMETER GPS LOCATION OF WETLAND BOUNDARIES & OTHER SITE FEATURES AS DEPICTED BY LONGVIEW PARTNERS, LLC.

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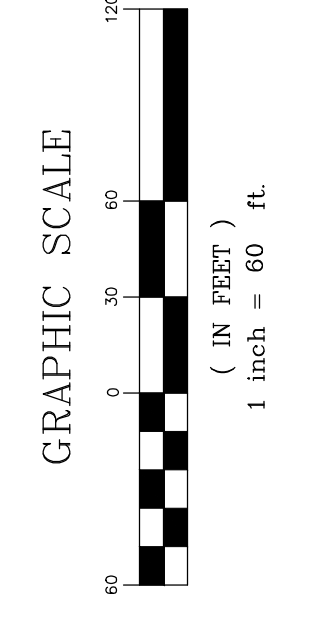
LEGEND:

- FRESHWATER WETLAND AREA (LOCATED BY LONGVIEW PARTNERS, LLC SUBMETER GPS)
- POTENTIAL VERNAL POOL (LOCATED BY LONGVIEW PARTNERS, LLC SUBMETER GPS)
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WETLAND DELINEATION & VERNAL POOL LOCATION PLAN
 PREPARED FOR
BOWLEY BUILDERS
 77 BARTLETT ROAD
 (MAP 62, LOT 26)
 KITTERY, MAINE



PLAN DATE: 5/15/23
 CHECKED: JL
 SCALE: 1" = 60'
 DRAFT: BO
 ENVIRONMENTAL PERMITTING SPECIALISTS



Attachment 7

Stormwater Management Report



207.926.5111
info@terradynconsultants.com
www.terradynconsultants.com

WASHBURN FARM SUBDIVISION
77 BARTLETT ROAD, KITTERY, MAINE

STORMWATER MANAGEMENT REPORT

PREPARED FOR:

BEACHWOOD DEVELOPMENT FUND LP
P.O. BOX 261
KENNEBUNK, MAINE 04043

PREPARED BY:

TERRADYN CONSULTANTS LLC
565 CONGRESS STREET, SUITE 201
PORTLAND, MAINE 04101

December 2023

Pineland
41 Campus Drive, Suite 301
New Gloucester, ME 04260

Portland
565 Congress Street, Suite 201
Portland, ME 04101

Auburn
95 Main Street, 2nd Floor
Auburn, ME 04210

Introduction

The following Stormwater Management Plan has been prepared for Washburn Farm Subdivision to evaluate stormwater runoff and erosion control for the proposed 9-lot subdivision.

Site Calculations

Below is a summary of existing and proposed impervious and developed areas on the project site.

| | |
|--------------------------|----------------|
| Total Property Area | 19.30 Ac (+/-) |
| Existing Impervious Area | 0.18 Ac |
| Existing Developed Area | 0.44 Ac |
| Proposed New Impervious | 0.43 Ac |
| Proposed New Developed | 0.93 Ac |
| Total Impervious Area | 0.56 Ac |
| Total Developed Area | 1.19 Ac |

Existing Conditions

The project site is approximately 19.30 acres in size and is identified as Lot 26 on Kittery Tax Map 62. The site is located in the Residential-Rural District with a small area in the Resource Protection Overlay Zone.

The parcel contains an existing single-family home with a paved driveway connecting to Bartlett Road and a small cemetery in the eastern part of the site. Most of the parcel is undeveloped woodland with pockets of freshwater wetlands. Several stone walls are located throughout the site.

A wetland and vernal pool study was conducted on the site by Longview Partners in the summer of 2022. There are approximately 2 acres of forested freshwater wetlands on the site. A wetland on the southern site boundary meets the Maine DEP's criteria for a "Wetland of Special Significance". This wetland also has a mapped flood zone associated with it.

Two potential vernal pools were identified on the site and studied in the spring of 2023 to determine if they have characteristics to be considered significant wildlife habitat by the Maine Department of Environmental Protection. The vernal pools were determined to be not significant and are regulated as freshwater wetlands.

Longview Partners also conducted a High Intensity Soil Survey of the site. Native soils are primarily loamy glacial till and bedrock outcrops in upland areas with wetland soils in low-lying areas. A copy of the High Intensity Soil Survey is attached herein.

The site is generally bisected by two ridgelines, sloping gradually at approximately 2%. Stormwater from the site is split by the ridges and flows in four directions toward the on site wetlands.

The following existing conditions figures are provided in Appendix 1:

| | |
|----------|-----------------------------------|
| Figure 1 | USGS Topographic Map |
| Figure 2 | Aerial Photograph |
| Figure 3 | NRCS Medium Intensity Soil Survey |
| Figure 4 | Federal Insurance Rate Map |
| Figure 5 | Aquifer Map |

Proposed Project

The proposed project includes of a 808' long dead-end road with 9 proposed house lots. The project will have 13.14 acres of open space surrounding the development. Each proposed lot ranges in size from 0.49 acres to 0.79 acres and meets all dimensional standards of the town's zoning ordinance. The existing house will occupy Lot 8 and will be accessed from the proposed road.

Lots will be served by public water and individual subsurface wastewater disposal systems.

Applicable Design Standards

The Town of Kittery's Ordinance Title 16, Part E, Section 4-a Stormwater runoff requires: *All components of the stormwater management system must be designed to limit peak discharge to predevelopment levels for the two-year and twenty-five-year, twenty-four-hour duration, frequencies, based on the rainfall data for Portsmouth, NH.*

The project includes 0.43 Ac. of new impervious area and 0.93 Ac. of new developed area and does not require a stormwater permit-by rule in compliance with MDEP Chapter 500. The project is close to the threshold, conservatively a stormwater permit-by-rule has been filed with MDEP.

Stormwater Quantity Control

Stormwater Quantity control is required as part of town requirements for this project; the proposed development has been designed to minimize stormwater runoff from the site in excess of the natural pre-development conditions. A hydrologic analysis of pre-development and post-development conditions was conducted based upon the methodology contained in the USDA Soil Conservation Service's Technical Releases No. 20 and 55 (SCS TR-20 and TR-55). For Portsmouth, New Hampshire a 24-hour SCS Type III Storm distribution was used for the analysis using the following storm frequencies and rainfall amounts, per Maine DEP Chapter 500:

| Storm Event | 24-Hour Rainfall |
|--------------------|-------------------------|
| 2-Year Storm | 3.3 inches |
| 10-Year Storm | 4.9 inches |
| 25-Year Storm | 6.2 inches |

Runoff curve numbers, time of concentration, and travel time data were established based on methods outlined in the USDA TR-55 manual.

A minimum time of concentration of 5 minutes and a maximum sheet flow distance of 150 linear feet was used in the models.

Pre-Development Conditions

The pre-development HydroCAD model includes five (5) subcatchments and five (5) study points. Below is a summary of the study points:

Study Point SP1 – Study Point 1 is the eastern parcel boundary where on site flow travels through culvert under the southern section of Lynch Lane and to Brave Boat Harbor.

Study Point SP2 – Study Point 2 is the southern parcel boundary outletting through a culvert under Bartlett Road, to Smith Brook and to Brave Boat Harbor.

Study Point SP3 – Study Point 3 is the southern boundary where on site flow collects in a wetland and travels through a culvert under Bartlett Road and to Brave Boat Harbor.

Study Point SP4 – Study Point 4 is the western site boundary where on site flow collects in a wetland and travels to Spruce Creek.

Study Point SP5 – Study Point 5 is the eastern parcel boundary where on site flow travels through culvert under the northern section of Lynch Lane and to Brave Boat Harbor.

A Pre-Development Watershed Map, showing sub-watershed boundaries, time of concentration flow paths, and Study Points is provided in Appendix 5. The Pre-development HydroCAD model is attached in Appendix 6.

The pre-development peak rates of runoff are a baseline used for comparison to the post-development condition.

Post-Development Conditions

Stormwater runoff from the roadway will be managed with open ditches and level lip spreaders. The project was designed to meet the stormwater performance standards of the Town of Kittery Subdivision Regulations. Runoff from the cul-de-sac will be discharged to a level spreader and forested stormwater buffer for treatment. From the high point located at the cul-de-sac runoff down to approximate station 3+15 stormwater is treated by a level spreader, distributing flow to a forested buffer. The remainder of the proposed road will drain to vegetated swales located on either side of the road, collecting in the Bartlett Road ditch which outlets through a ditch turnout level spreader to a forested buffer. The stormwater management system will attenuate peak flow rates from the developed areas so peak discharge rates from the site will be limited to pre-development levels.

The proposed post-development HydroCAD model includes eight (8) subcatchments and five (5) study points. The study points remain the same from the pre-development model. A Post-development Watershed Map showing sub-watershed boundaries, time of concentration flow paths, and Study Points is provided in Appendix 5. The Post-development HydroCAD model is attached in Appendix 7.

Peak Flow Analysis

The results of the pre-development and post-development models were analyzed at the defined Study Points described above. The direct comparison of the pre-development and post-development conditions at the Study Points are as follows:

| Peak Runoff Flow Rates Comparison | | |
|--|------------------------------|-------------------------------|
| Storm Event | Pre-Development (cfs) | Post-Development (cfs) |
| Study Point SP1 | | |
| 2-Year | 1.98 | 1.76 |
| 10-Year | 4.21 | 3.74 |
| 25-Year | 5.60 | 4.97 |
| Study Point SP2 | | |
| 2-Year | 2.52 | 2.41 |
| 10-Year | 5.48 | 5.25 |
| 25-Year | 7.34 | 7.03 |
| Study Point SP3 | | |
| 2-Year | 8.49 | 8.32 |
| 10-Year | 18.54 | 17.83 |
| 25-Year | 24.82 | 23.74 |
| Study Point SP4 | | |
| 2-Year | 5.15 | 5.12 |
| 10-Year | 11.27 | 11.21 |
| 25-Year | 15.09 | 15.01 |
| Study Point SP5 | | |
| 2-Year | 6.12 | 5.83 |
| 10-Year | 13.00 | 12.57 |
| 25-Year | 17.26 | 16.78 |

The peak rates of runoff at all five study points are expected to decrease slightly in the 2, 10 & 25-year storm events. The reduction in peak flow rates is believed to be the result of modified timing of the peak rates of runoff from different tributary areas resulting from the proposed development. The relatively small amount of impervious area to be constructed, and the associated increase in runoff volume and peak runoff rates from these areas of the site, is expected to be offset by the modified timing of peak runoff rates.

Summary

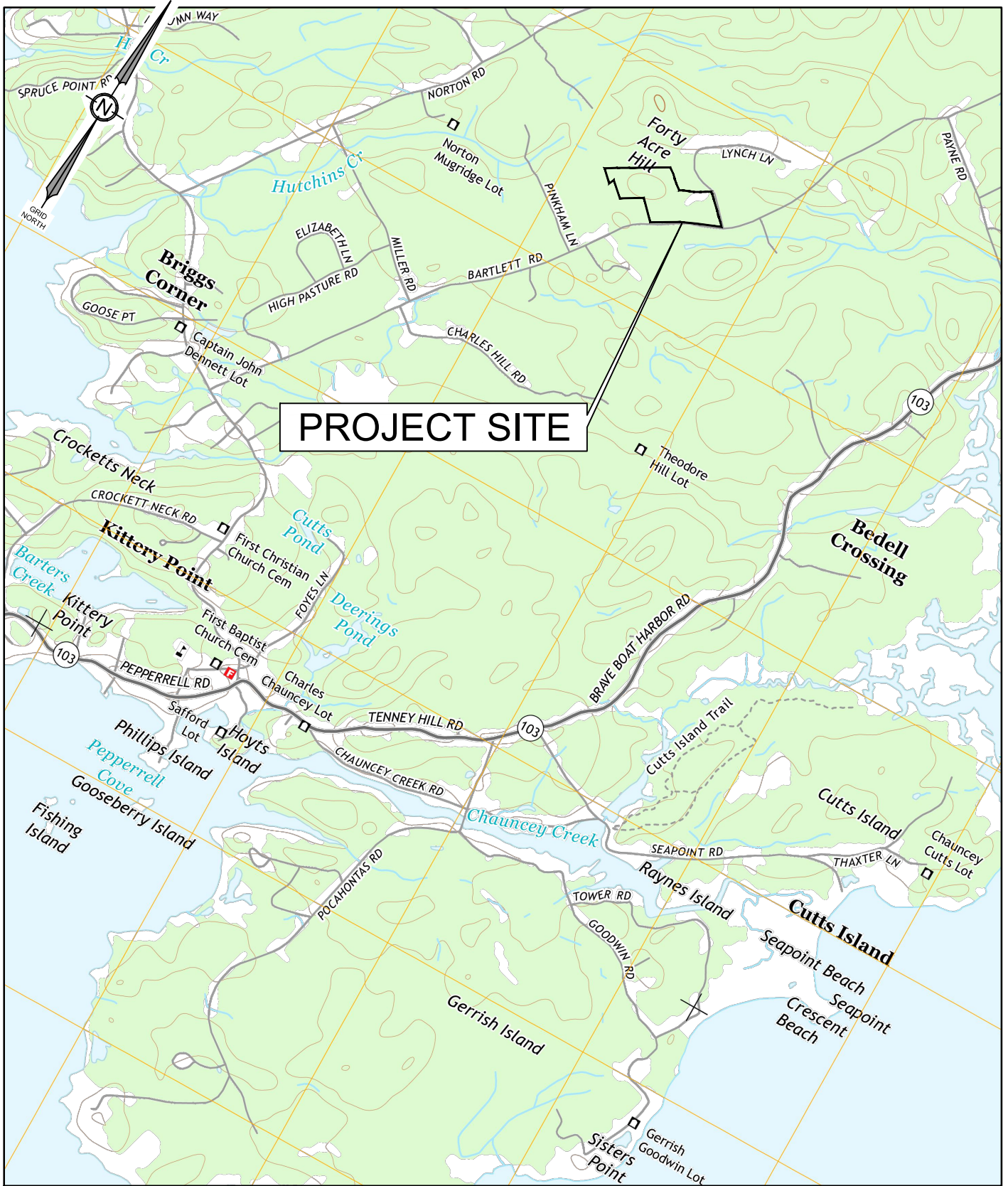
Based upon the results of this evaluation, the proposed project is not expected to cause flooding, erosion, or other significant adverse effects downstream of the site.

Appendices

- 1 – Existing Conditions Figures
- 2 – Watershed Maps
- 3 – Pre-Development HydroCAD Model
- 4 – Post-Development HydroCAD Model
- 5 – Cross Culvert Sizing Calculations
- 6 – Housekeeping
- 7 – Inspection and Maintenance Manual

APPENDIX 1

EXISTING CONDITIONS FIGURES



PROJECT SITE

USGS KITTERY QUADRANGLE

PROJECT:
 BARTLETT ROAD SUBDIVISION
 77 BARTLETT ROAD, KITTERY, MAINE

PREPARED FOR:
 BEACHWOOD DEVELOPMENT FUND LP
 PO BOX 260
 KENNEBUNK, MAINE 04043



ADDRESS:
 41 CAMPUS DRIVE, SUITE 301
 NEW GLOUCESTER, ME 04260

PHONE:
 (207) 926-5111

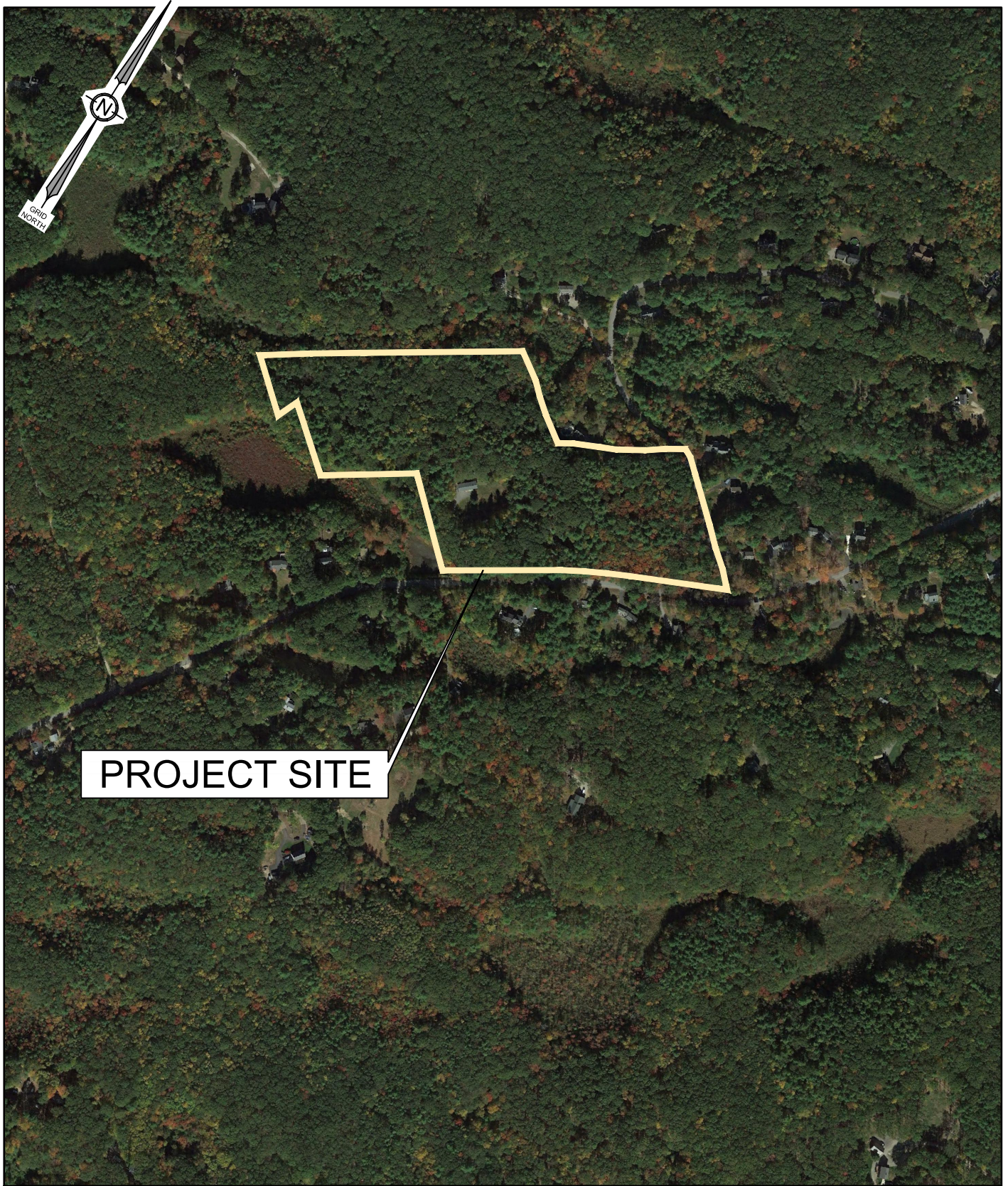
WEB SITE:
www.terradynconsultants.com

PROJECT NO.
 22-145

DATE
 3/20/2023

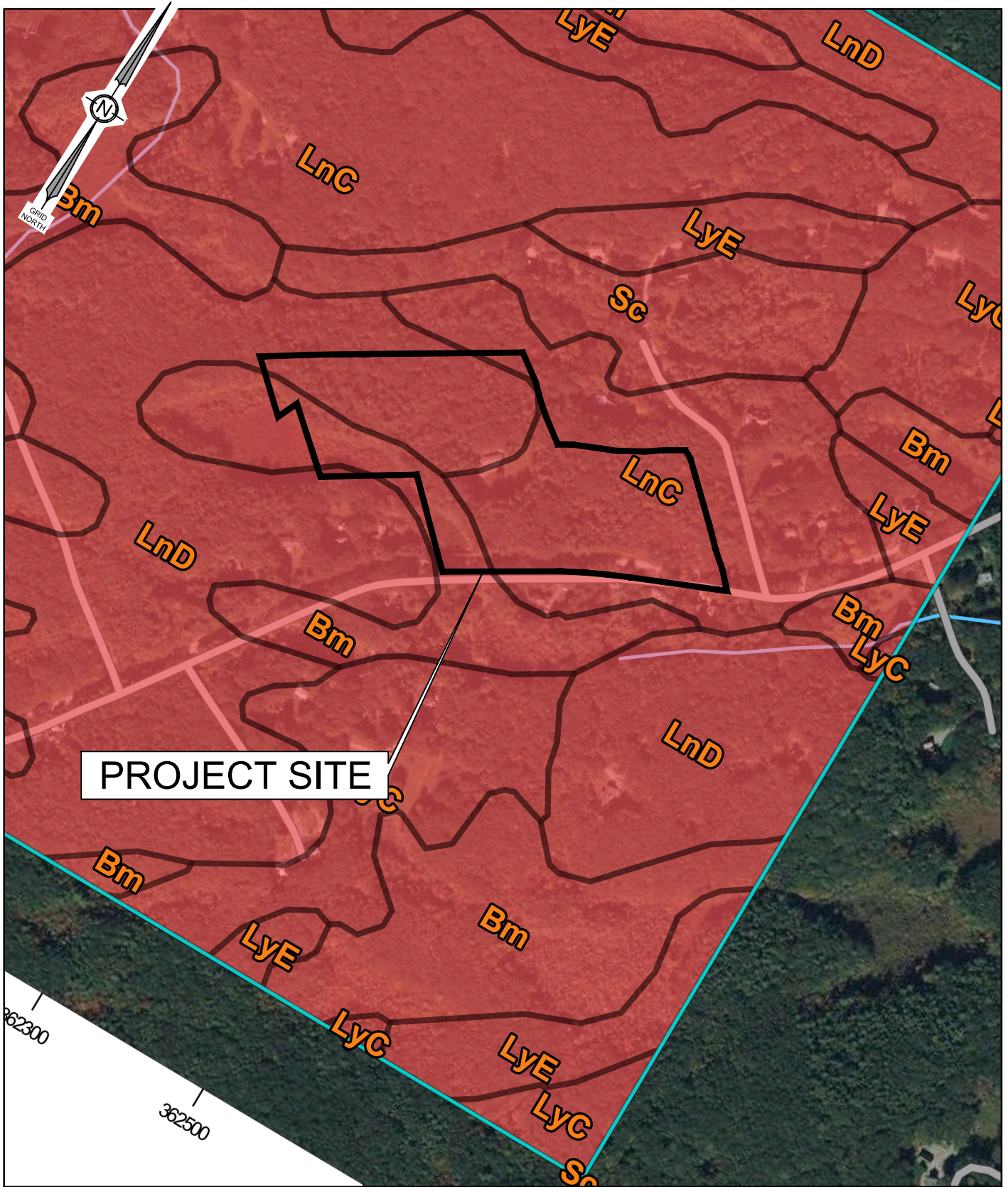
SCALE
 1" = 2,000'

SHEET
 1
 OF
 5

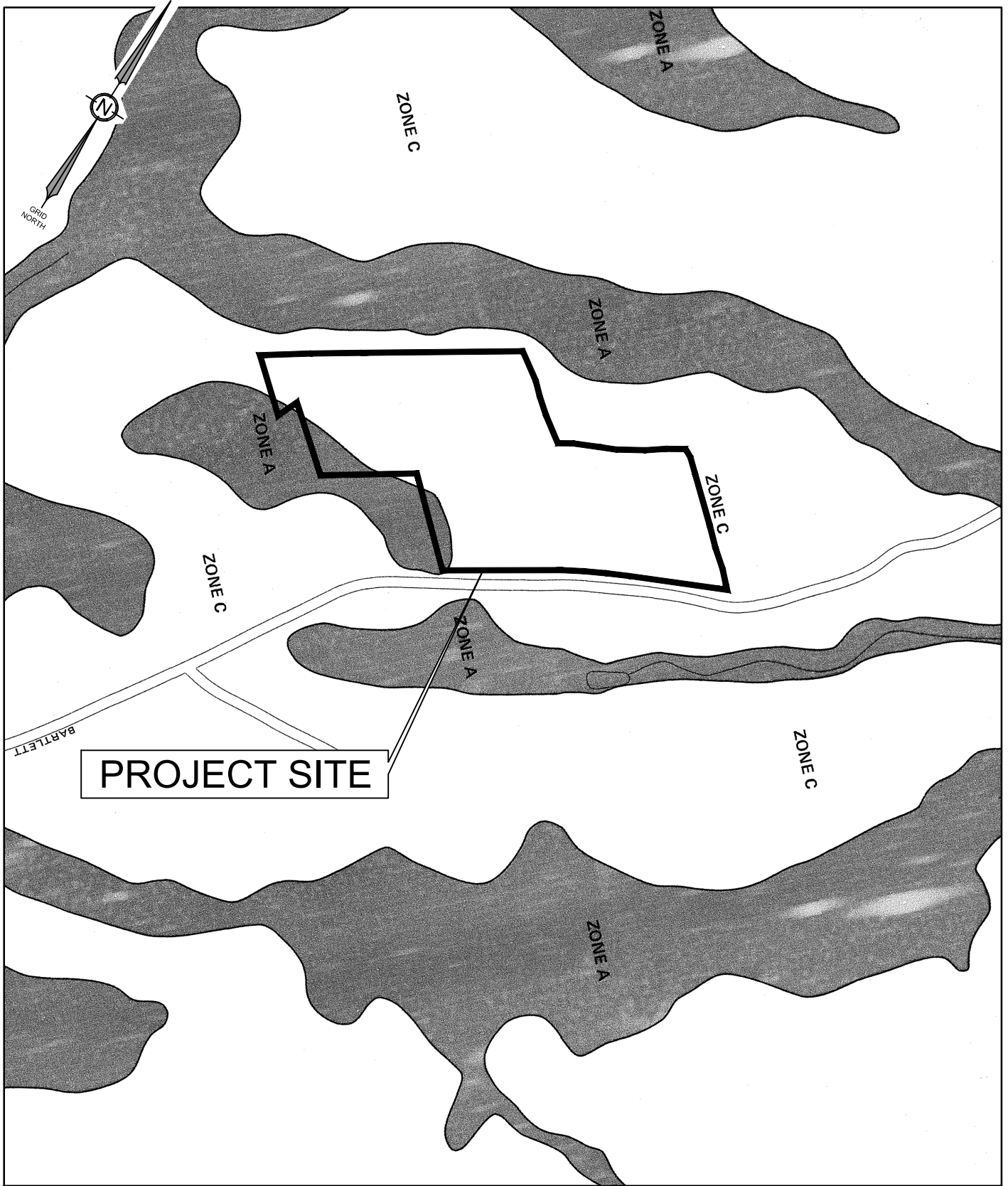


PROJECT SITE

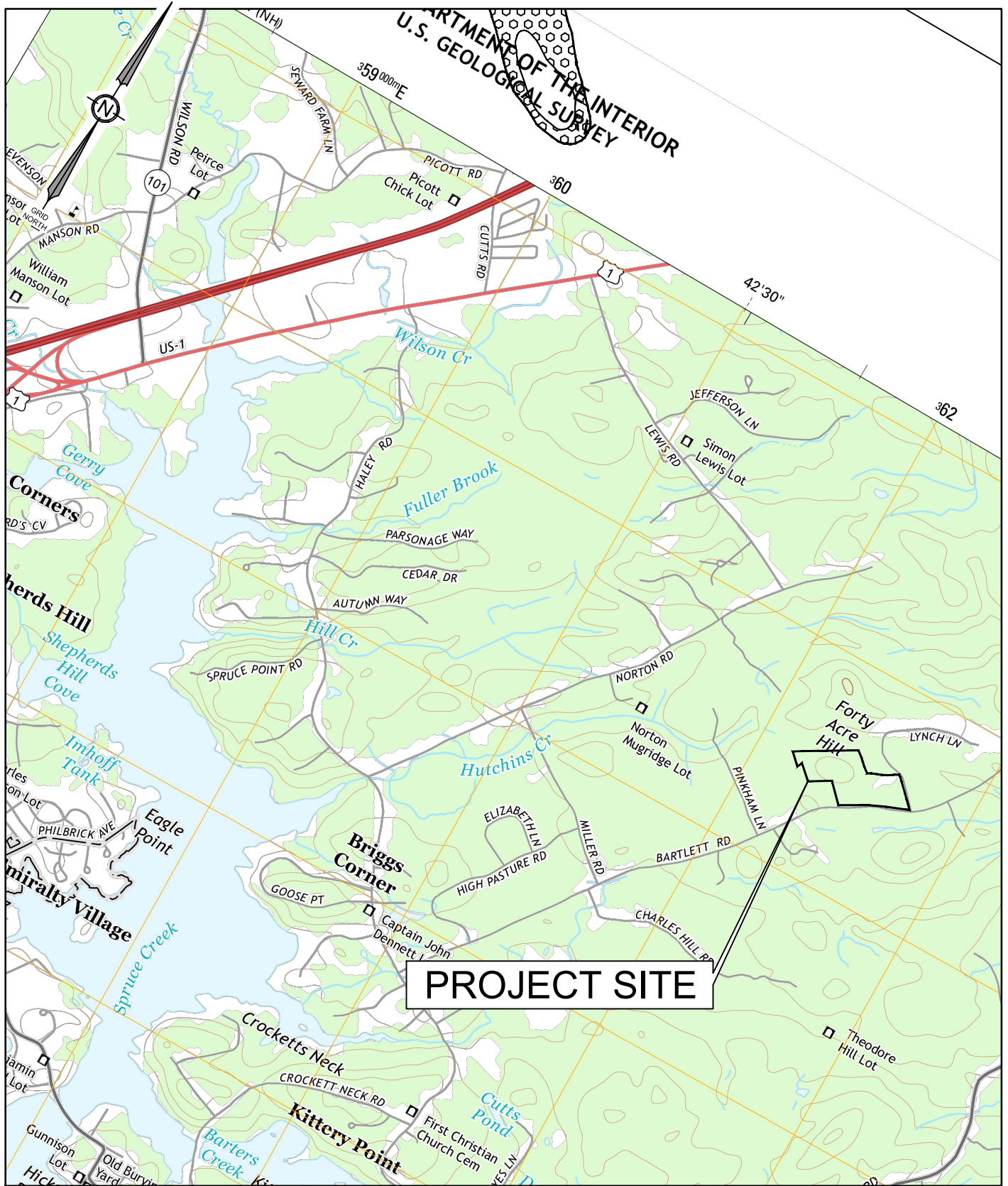
| | | | | |
|--|---|--|--------------------------------------|-----------------------------------|
| <p>AERIAL MAP</p> |  <p>TERRADYN CONSULTANTS, LLC</p> | <p>ADDRESS: 41 CAMPUS DRIVE, SUITE 301 NEW GLOUCESTER, ME 04260 PHONE: (207) 926-5111 WEB SITE: www.terradyndesign.com</p> | <p>PROJECT NO. 22-145</p> | <p>SHEET 2</p> |
| <p>PROJECT: BARTLETT ROAD SUBDIVISION 77 BARTLETT ROAD, KITTERY, MAINE</p> | | <p>DATE 3/20/2023</p> | <p>OF 5</p> | |
| <p>PREPARED FOR: BEACHWOOD DEVELOPMENT FUND LP PO BOX 260 KENNEBUNK, MAINE 04043</p> | | <p>Civil Engineering Land Surveying Geomatics Stormwater Design Land Planning Environmental Permitting</p> | | <p>SCALE 1" = 500'</p> |




| | | | | |
|--|---|--|-------------------------------|--------------------|
| <p>MEDIUM INTENSITY SOIL SURVEY</p> |  <p>TERRADYN CONSULTANTS, LLC</p> | <p>ADDRESS: 41 CAMPUS DRIVE, SUITE 301 NEW GLOUCESTER, ME 04260 PHONE: (207) 926-5111 WEB SITE: www.terradyconsultants.com</p> | <p>PROJECT NO. 22-145</p> | <p>SHEET 3</p> |
| <p>PROJECT: BARTLETT ROAD SUBDIVISION 77 BARTLETT ROAD, KITTERY, MAINE</p> | | <p>DATE 3/20/2023</p> | <p>OF 5</p> | |
| <p>PREPARED FOR: BEACHWOOD DEVELOPMENT FUND LP PO BOX 260 KENNEBUNK, MAINE 04043</p> | | <p>SCALE 1" = 500'</p> | | |
| <p>Civil Engineering Land Surveying Geomatics Stormwater Design Land Planning Environmental Permitting</p> | | | | |



| | | | | |
|--|--|--|---|--|
| <p>FLOOD INSURANCE RATE MAP</p> |  <p>TERRADYN CONSULTANTS, LLC</p> <p>Civil Engineering Land Surveying Geomatics Stormwater Design Land Planning Environmental Permitting</p> | <p>ADDRESS: 41 CAMPUS DRIVE, SUITE 301 NEW GLOUCESTER, ME 04260 PHONE: (207) 926-5111 WEB SITE: www.terradynconsultants.com</p> | <p>PROJECT NO. 22-145</p> <p>DATE 3/20/2023</p> <p>SCALE 1" = 500'</p> | <p>SHEET 4</p> <p>OF 5</p> |
| <p>PROJECT: BARTLETT ROAD SUBDIVISION 77 BARTLETT ROAD, KITTEERY, MAINE</p> | | | | |
| <p>PREPARED FOR: BEACHWOOD DEVELOPMENT FUND LP PO BOX 260 KENNEBUNK, MAINE 04043</p> | | | | |



PROJECT SITE

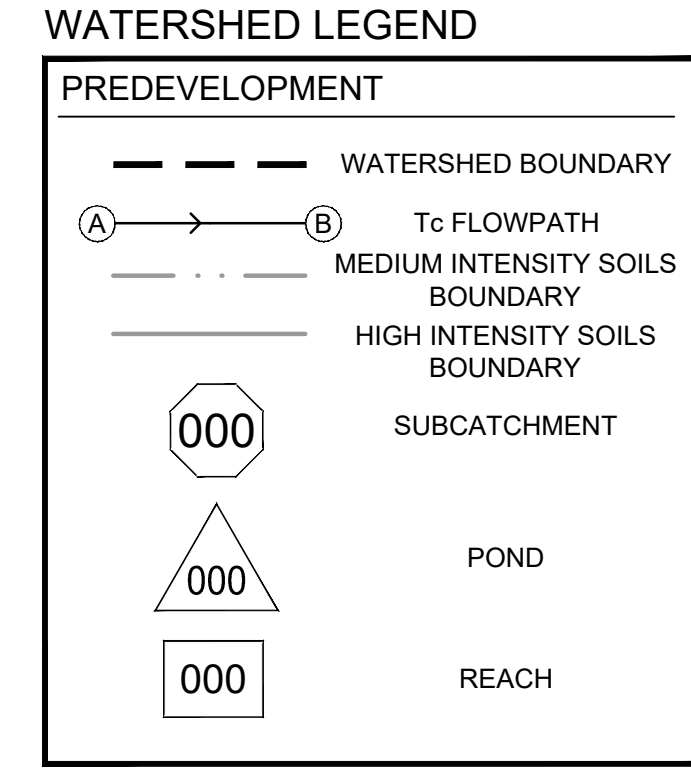
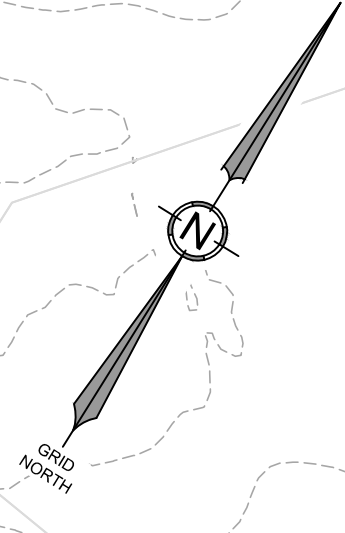
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|--|---|-----------------------|------------|
| SIGNIFICANT SAND & GRAVEL AQUIFER MAP |  Civil Engineering Land Surveying Geomatics Stormwater Design Land Planning Environmental Permitting | PROJECT NO. 22-145 | SHEET 5 |
| PROJECT: BARTLETT ROAD SUBDIVISION 77 BARTLETT ROAD, KITTERY, MAINE | | DATE 3/20/2023 | OF 5 |
| PREPARED FOR: BEACHWOOD DEVELOPMENT FUND LP PO BOX 260 KENNEBUNK, MAINE 04043 | | SCALE 1" = 500' | |

ADDRESS:
 41 CAMPUS DRIVE, SUITE 301
 NEW GLOUCESTER, ME 04260
 PHONE:
 (207) 926-5111
 WEB SITE:
 www.terradync consultants.com

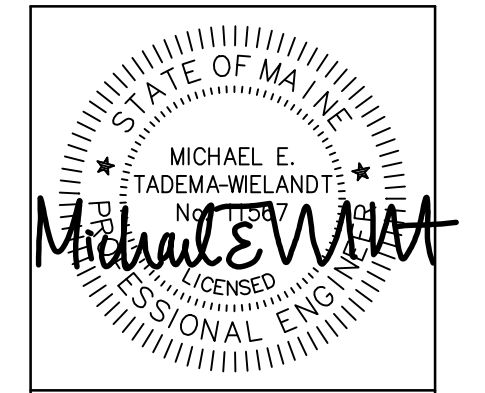
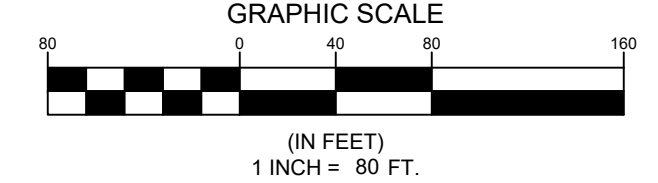
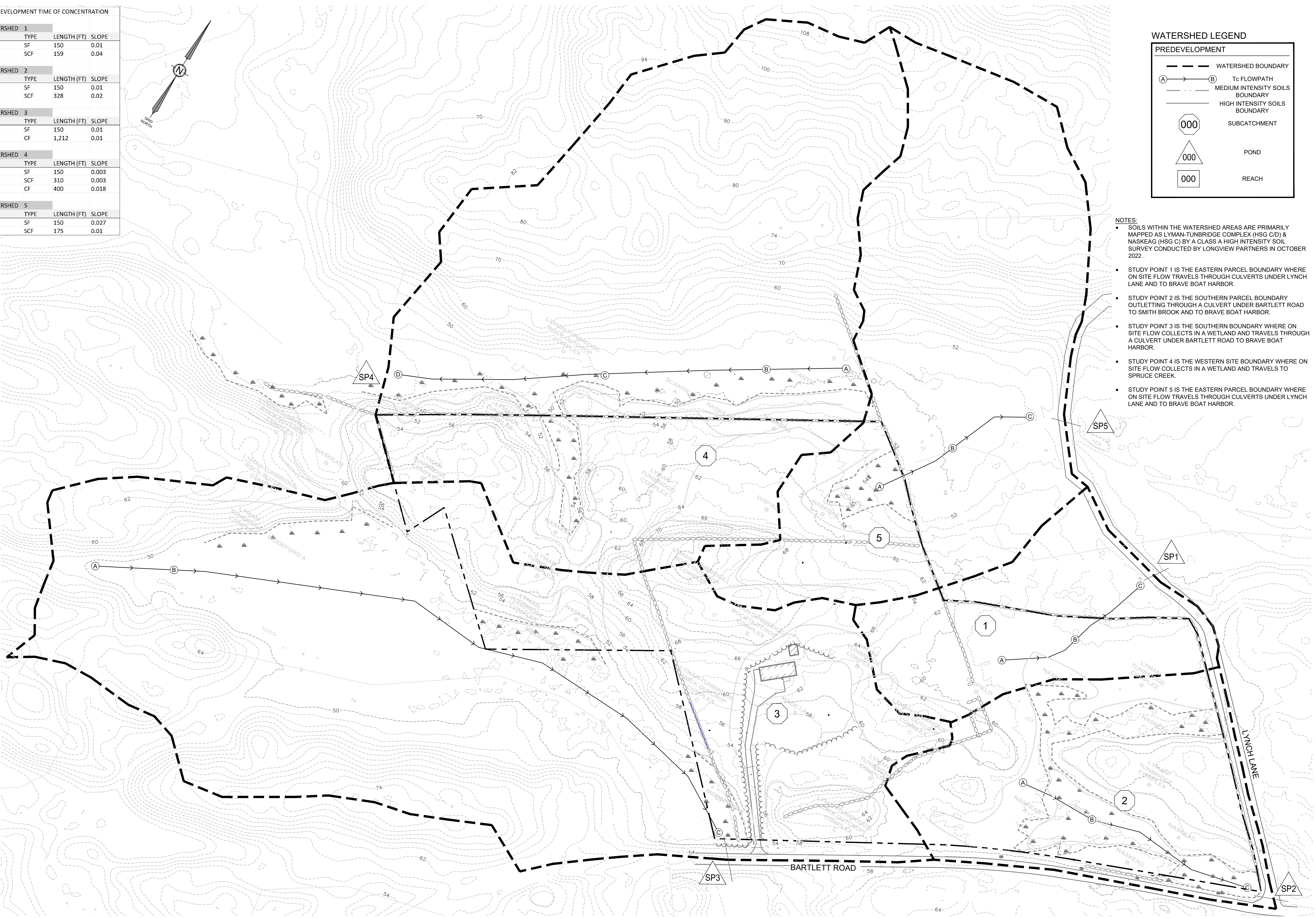
APPENDIX 2

WATERSHED MAPS

| PRE DEVELOPMENT TIME OF CONCENTRATION | | | |
|---------------------------------------|-------------|-------|-------|
| WATERSHED 1 | | | |
| TYPE | LENGTH (FT) | SLOPE | |
| A-B | SF | 150 | 0.01 |
| B-C | SCF | 159 | 0.04 |
| WATERSHED 2 | | | |
| TYPE | LENGTH (FT) | SLOPE | |
| A-B | SF | 150 | 0.01 |
| B-C | SCF | 328 | 0.02 |
| WATERSHED 3 | | | |
| TYPE | LENGTH (FT) | SLOPE | |
| A-B | SF | 150 | 0.01 |
| B-C | CF | 1,212 | 0.01 |
| WATERSHED 4 | | | |
| TYPE | LENGTH (FT) | SLOPE | |
| A-B | SF | 150 | 0.003 |
| B-C | SCF | 310 | 0.003 |
| C-D | CF | 400 | 0.018 |
| WATERSHED 5 | | | |
| TYPE | LENGTH (FT) | SLOPE | |
| A-B | SF | 150 | 0.027 |
| B-C | SCF | 175 | 0.01 |



- NOTES:**
- SOILS WITHIN THE WATERSHED AREAS ARE PRIMARILY MAPPED AS LYMAN-TUNBRIDGE COMPLEX (HSG C/D) & NASKEAG (HSG C) BY A CLASS A HIGH INTENSITY SOIL SURVEY CONDUCTED BY LONGVIEW PARTNERS IN OCTOBER 2022.
 - STUDY POINT 1 IS THE EASTERN PARCEL BOUNDARY WHERE ON SITE FLOW TRAVELS THROUGH CULVERTS UNDER LYNCH LANE AND TO BRAVE BOAT HARBOR.
 - STUDY POINT 2 IS THE SOUTHERN PARCEL BOUNDARY OUTLETING THROUGH A CULVERT UNDER BARTLETT ROAD TO SMITH BROOK AND TO BRAVE BOAT HARBOR.
 - STUDY POINT 3 IS THE SOUTHERN BOUNDARY WHERE ON SITE FLOW COLLECTS IN A WETLAND AND TRAVELS THROUGH A CULVERT UNDER BARTLETT ROAD TO BRAVE BOAT HARBOR.
 - STUDY POINT 4 IS THE WESTERN SITE BOUNDARY WHERE ON SITE FLOW COLLECTS IN A WETLAND AND TRAVELS TO SPRUCE CREEK.
 - STUDY POINT 5 IS THE EASTERN PARCEL BOUNDARY WHERE ON SITE FLOW TRAVELS THROUGH CULVERTS UNDER LYNCH LANE AND TO BRAVE BOAT HARBOR.



DATE: 12/28/2023
P.E.: MICHAEL TADEMA-WIELANDT

| NO. | DATE | REVISIONS |
|-----|------------|--|
| 1 | 8/3/2023 | MTW APPD |
| 2 | 10/10/2023 | MTW SUBMITTED TO KITTEERY FOR PRELIMINARY SUBDIVISION REVIEW |
| 3 | 10/24/2023 | MTW REVISED BASED ON PEER REVIEW COMMENTS |
| 4 | 12/28/2023 | MTW SUBMITTED TO KITTEERY FOR FINAL SUBDIVISION REVIEW |

565 CONGRESS STREET
SUITE 201
PORTLAND, ME 04102

41 CAMPUS DRIVE
SUITE 301
NEW GLOUCESTER, ME 04260

OFFICE: (207) 926-5111 FAX: (207) 221-1317
www.terradynconsultants.com

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PERMIT DRAWING
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PROJECT: WASHBURN FARM SUBDIVISION
BARTLETT ROAD, KITTEERY, MAINE

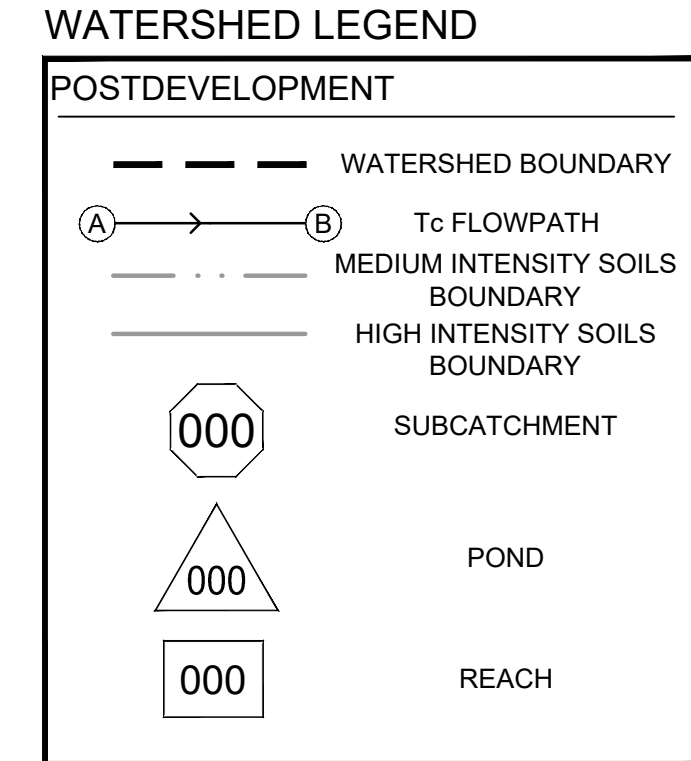
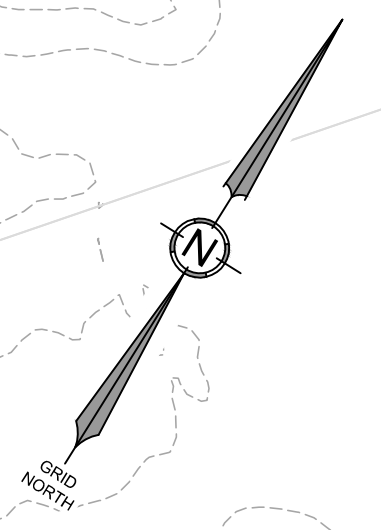
SHEET TITLE: PREDEVELOPMENT WATERSHED PLAN

CLIENT: BEACHWOOD DEVELOPMENT FUND
P.O. BOX 281
KENNEBUNK, MAINE 04043

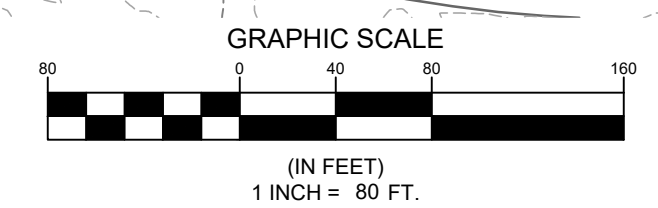
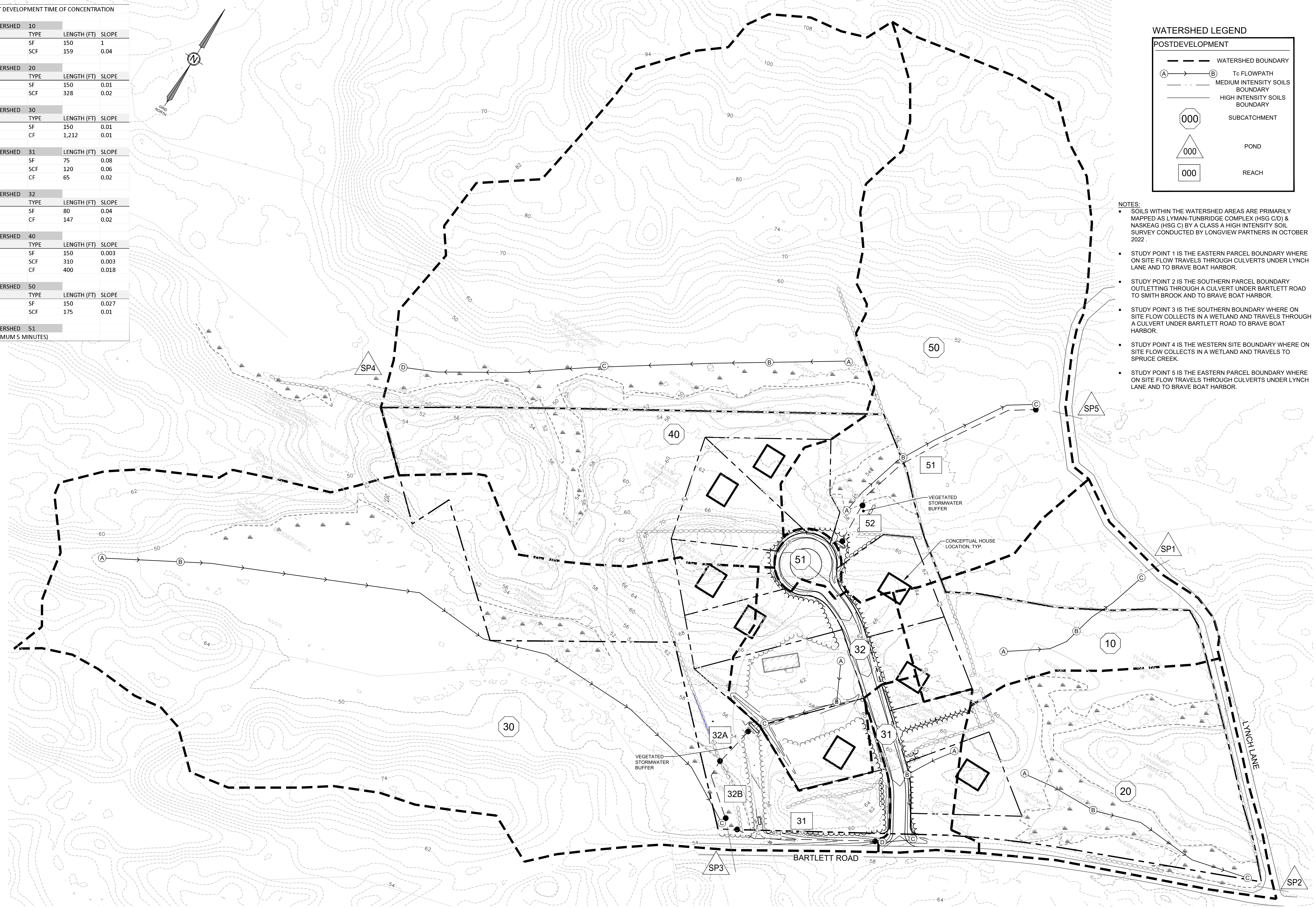
DATE: 5/18/2023
SCALE: 1" = 80'
DESIGNED: MTW
JOB NO.: 22-145
SHEET: WS-1.0

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| POST DEVELOPMENT TIME OF CONCENTRATION | | | |
|--|------|-------------|-------|
| WATERSHED | TYPE | LENGTH (FT) | SLOPE |
| WATERSHED 10 | | | |
| A-B | SF | 150 | 1 |
| B-C | SCF | 159 | 0.04 |
| WATERSHED 20 | | | |
| A-B | SF | 150 | 0.01 |
| B-C | SCF | 328 | 0.02 |
| WATERSHED 30 | | | |
| A-B | SF | 150 | 0.01 |
| B-C | CF | 1,212 | 0.01 |
| WATERSHED 31 | | | |
| A-B | SF | 75 | 0.08 |
| B-C | SCF | 120 | 0.06 |
| C-D | CF | 65 | 0.02 |
| WATERSHED 32 | | | |
| A-B | SF | 80 | 0.04 |
| B-C | CF | 147 | 0.02 |
| WATERSHED 40 | | | |
| A-B | SF | 150 | 0.003 |
| B-C | SCF | 310 | 0.003 |
| C-D | CF | 400 | 0.018 |
| WATERSHED 50 | | | |
| A-B | SF | 150 | 0.027 |
| B-C | SCF | 175 | 0.01 |
| WATERSHED 51 (MINIMUM 5 MINUTES) | | | |



- NOTES:**
- SOILS WITHIN THE WATERSHED AREAS ARE PRIMARILY MAPPED AS LYMAN-TUNBRIDGE COMPLEX (HSG C/D) & NASKEAG (HSG C) BY A CLASS A HIGH INTENSITY SOIL SURVEY CONDUCTED BY LONGVIEW PARTNERS IN OCTOBER 2022.
 - STUDY POINT 1 IS THE EASTERN PARCEL BOUNDARY WHERE ON SITE FLOW TRAVELS THROUGH CULVERTS UNDER LYNCH LANE AND TO BRAVE BOAT HARBOR.
 - STUDY POINT 2 IS THE SOUTHERN PARCEL BOUNDARY OUTLETTING THROUGH A CULVERT UNDER BARTLETT ROAD TO SMITH BROOK AND TO BRAVE BOAT HARBOR.
 - STUDY POINT 3 IS THE SOUTHERN BOUNDARY WHERE ON SITE FLOW COLLECTS IN A WETLAND AND TRAVELS THROUGH A CULVERT UNDER BARTLETT ROAD TO BRAVE BOAT HARBOR.
 - STUDY POINT 4 IS THE WESTERN SITE BOUNDARY WHERE ON SITE FLOW COLLECTS IN A WETLAND AND TRAVELS TO SPRUCE CREEK.
 - STUDY POINT 5 IS THE EASTERN PARCEL BOUNDARY WHERE ON SITE FLOW TRAVELS THROUGH CULVERTS UNDER LYNCH LANE AND TO BRAVE BOAT HARBOR.



DATE: 12/28/2023
P.E.: MICHAEL TADEMA-WIELANDT

| NO. | REVISIONS | DATE |
|-----|-----------|------------|
| 1 | APPD | 8/3/2023 |
| 2 | MTW | 10/10/2023 |
| 3 | MTW | 10/24/2023 |
| 4 | MTW | 12/28/2023 |

SUBMITTED TO KITTEERY FOR FINAL SUBDIVISION REVIEW
 REVISED BASED ON PEER REVIEW COMMENTS
 SUBMITTED TO KITTEERY FOR PRELIMINARY SUBDIVISION REVIEW
 REVISED BASED ON PEER REVIEW COMMENTS

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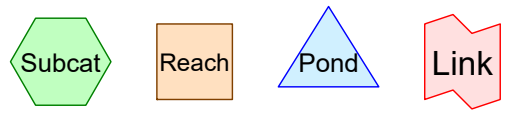
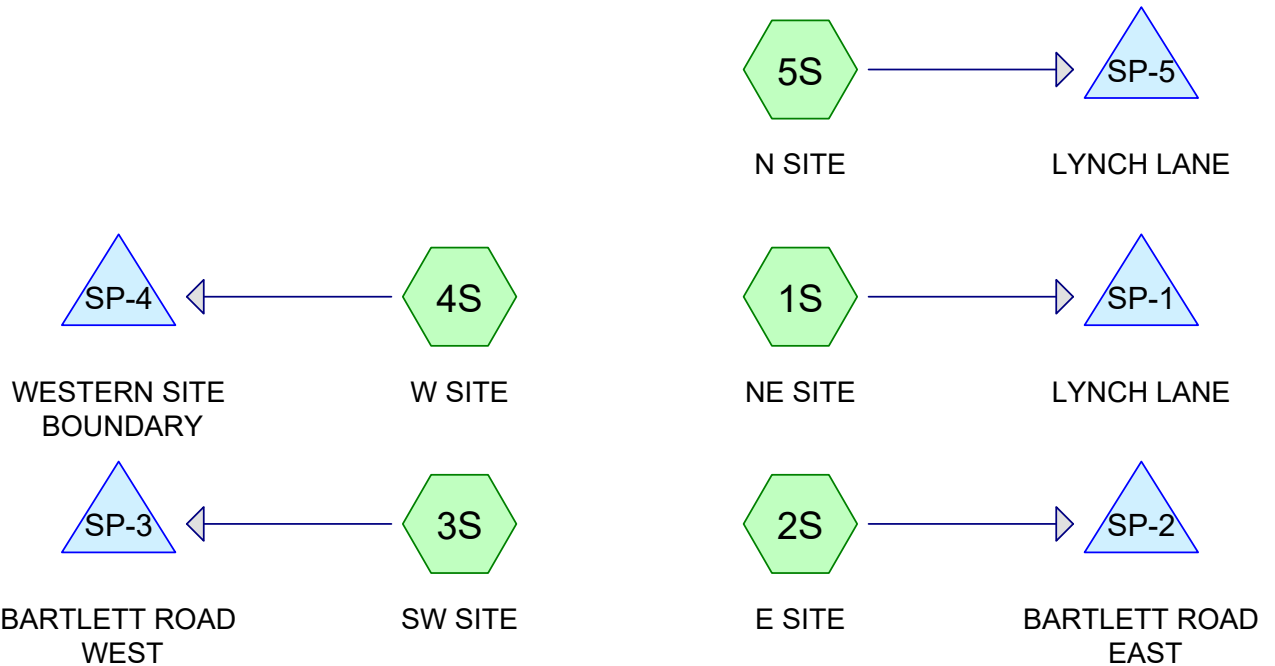
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 BARTLETT ROAD, KITTEERY, MAINE
 SHEET TITLE: POSTDEVELOPMENT WATERSHED MAP
 CLIENT: BEACHWOOD DEVELOPMENT FUND
 KENNEBUNK, MAINE 04043

DATE: 5/18/2023
 SCALE: 1" = 80'
 DESIGNED: MTW
 JOB NO.: 22-145
 SHEET: **WS-2.0**

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APPENDIX 3

PRE-DEVELOPMENT HYDROCAD MODEL



Area Listing (all nodes)

| Area (acres) | CN | Description (subcatchment-numbers) |
|-----------------|-----------|---|
| 0.230 | 80 | 1/2 acre lots, 25% imp, HSG C (1S) |
| 1.607 | 85 | 1/2 acre lots, 25% imp, HSG D (3S, 5S) |
| 0.365 | 98 | BARTLETT ROAD (2S, 3S) |
| 0.052 | 98 | EXISTING HOUSE (3S) |
| 0.344 | 74 | EXISTING LAWN (3S) |
| 0.126 | 98 | LOT DRIVEWAY (3S) |
| 0.171 | 98 | Lynch Ln (1S, 2S, 5S) |
| 10.711 | 70 | Woods, Good, HSG C (1S, 2S, 3S, 4S, 5S) |
| 41.669 | 77 | Woods, Good, HSG D (1S, 2S, 3S, 4S, 5S) |
| 55.275 | 76 | TOTAL AREA |

PRE

Prepared by Terradyn Consultants

HydroCAD® 10.10-6a s/n 12055 © 2020 HydroCAD Software Solutions LLC

Type III 24-hr 2-YR Rainfall=2.90"

Printed 12/12/2023

Page 3

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: NE SITE

Runoff Area=158,935 sf 3.69% Impervious Runoff Depth>0.90"
Flow Length=309' Tc=41.3 min CN=77 Runoff=1.98 cfs 0.274 af

Subcatchment 2S: E SITE

Runoff Area=229,278 sf 3.81% Impervious Runoff Depth>0.85"
Flow Length=478' Tc=46.3 min CN=76 Runoff=2.52 cfs 0.373 af

Subcatchment 3S: SW SITE

Runoff Area=869,700 sf 3.03% Impervious Runoff Depth>0.84"
Flow Length=1,362' Slope=0.0100 '/' Tc=56.8 min CN=76 Runoff=8.49 cfs 1.406 af

Subcatchment 4S: W SITE

Runoff Area=718,114 sf 0.00% Impervious Runoff Depth>0.83"
Flow Length=860' Tc=91.5 min CN=76 Runoff=5.15 cfs 1.140 af

Subcatchment 5S: N SITE

Runoff Area=431,736 sf 2.34% Impervious Runoff Depth>0.91"
Flow Length=325' Tc=31.9 min CN=77 Runoff=6.12 cfs 0.749 af

Pond SP-1: LYNCH LANE

Inflow=1.98 cfs 0.274 af
Primary=1.98 cfs 0.274 af

Pond SP-2: BARTLETT ROAD EAST

Inflow=2.52 cfs 0.373 af
Primary=2.52 cfs 0.373 af

Pond SP-3: BARTLETT ROAD WEST

Inflow=8.49 cfs 1.406 af
Primary=8.49 cfs 1.406 af

Pond SP-4: WESTERN SITE BOUNDARY

Inflow=5.15 cfs 1.140 af
Primary=5.15 cfs 1.140 af

Pond SP-5: LYNCH LANE

Inflow=6.12 cfs 0.749 af
Primary=6.12 cfs 0.749 af

Total Runoff Area = 55.275 ac Runoff Volume = 3.941 af Average Runoff Depth = 0.86"
97.88% Pervious = 54.102 ac 2.12% Impervious = 1.173 ac

Summary for Subcatchment 1S: NE SITE

Runoff = 1.98 cfs @ 12.61 hrs, Volume= 0.274 af, Depth> 0.90"
 Routed to Pond SP-1 : LYNCH LANE

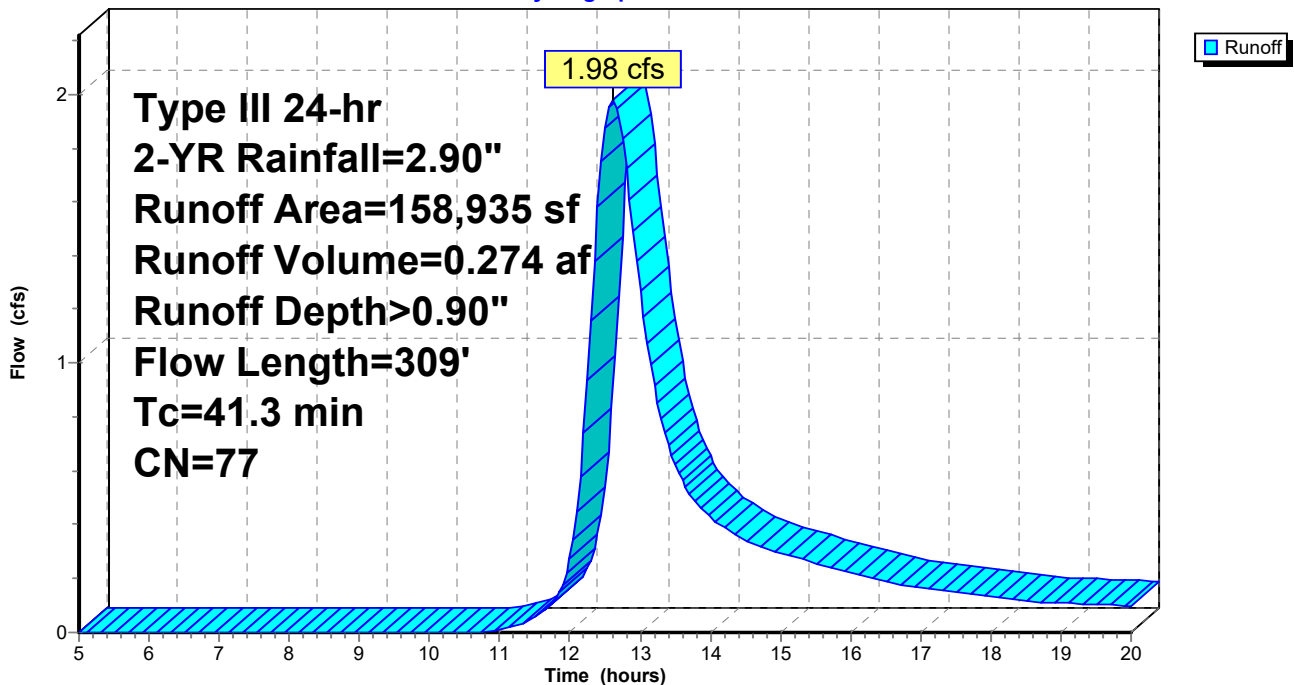
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-YR Rainfall=2.90"

| Area (sf) | CN | Description |
|-----------|----|-------------------------------|
| * 3,368 | 98 | Lynch Ln |
| 10,000 | 80 | 1/2 acre lots, 25% imp, HSG C |
| 20,000 | 70 | Woods, Good, HSG C |
| 125,567 | 77 | Woods, Good, HSG D |
| 158,935 | 77 | Weighted Average |
| 153,067 | | 96.31% Pervious Area |
| 5,868 | | 3.69% Impervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 38.6 | 150 | 0.0100 | 0.06 | | Sheet Flow, A-B Woods: Light underbrush n= 0.400 P2= 3.30" |
| 2.6 | 159 | 0.0400 | 1.00 | | Shallow Concentrated Flow, B-C Woodland Kv= 5.0 fps |
| 41.3 | 309 | Total | | | |

Subcatchment 1S: NE SITE

Hydrograph



Summary for Subcatchment 2S: E SITE

Runoff = 2.52 cfs @ 12.69 hrs, Volume= 0.373 af, Depth> 0.85"
 Routed to Pond SP-2 : BARTLETT ROAD EAST

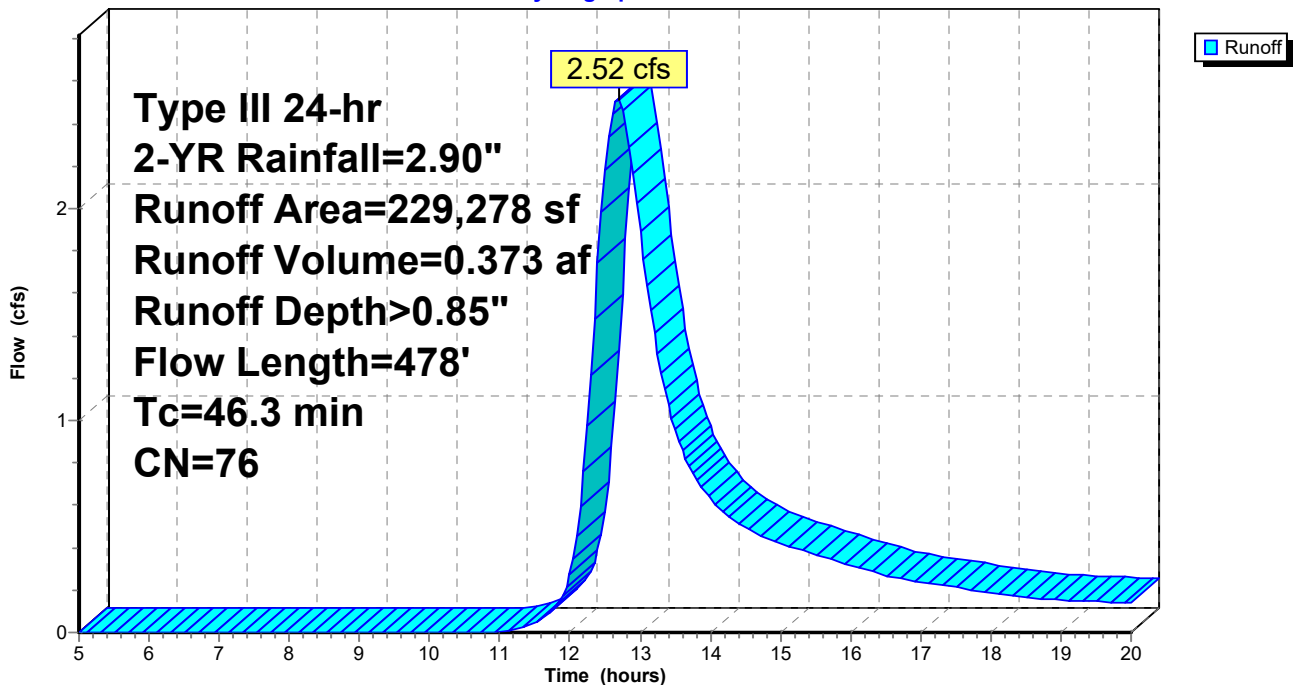
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-YR Rainfall=2.90"

| Area (sf) | CN | Description |
|-----------|----|-----------------------|
| * 1,470 | 98 | Lynch Ln |
| * 7,256 | 98 | BARTLETT ROAD |
| 52,000 | 70 | Woods, Good, HSG C |
| 168,552 | 77 | Woods, Good, HSG D |
| 229,278 | 76 | Weighted Average |
| 220,552 | | 96.19% Pervious Area |
| 8,726 | | 3.81% Impervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 38.6 | 150 | 0.0100 | 0.06 | | Sheet Flow, A-B Woods: Light underbrush n= 0.400 P2= 3.30" |
| 7.7 | 328 | 0.0200 | 0.71 | | Shallow Concentrated Flow, B-C Woodland Kv= 5.0 fps |
| 46.3 | 478 | Total | | | |

Subcatchment 2S: E SITE

Hydrograph



Summary for Subcatchment 3S: SW SITE

Runoff = 8.49 cfs @ 12.82 hrs, Volume= 1.406 af, Depth> 0.84"
Routed to Pond SP-3 : BARTLETT ROAD WEST

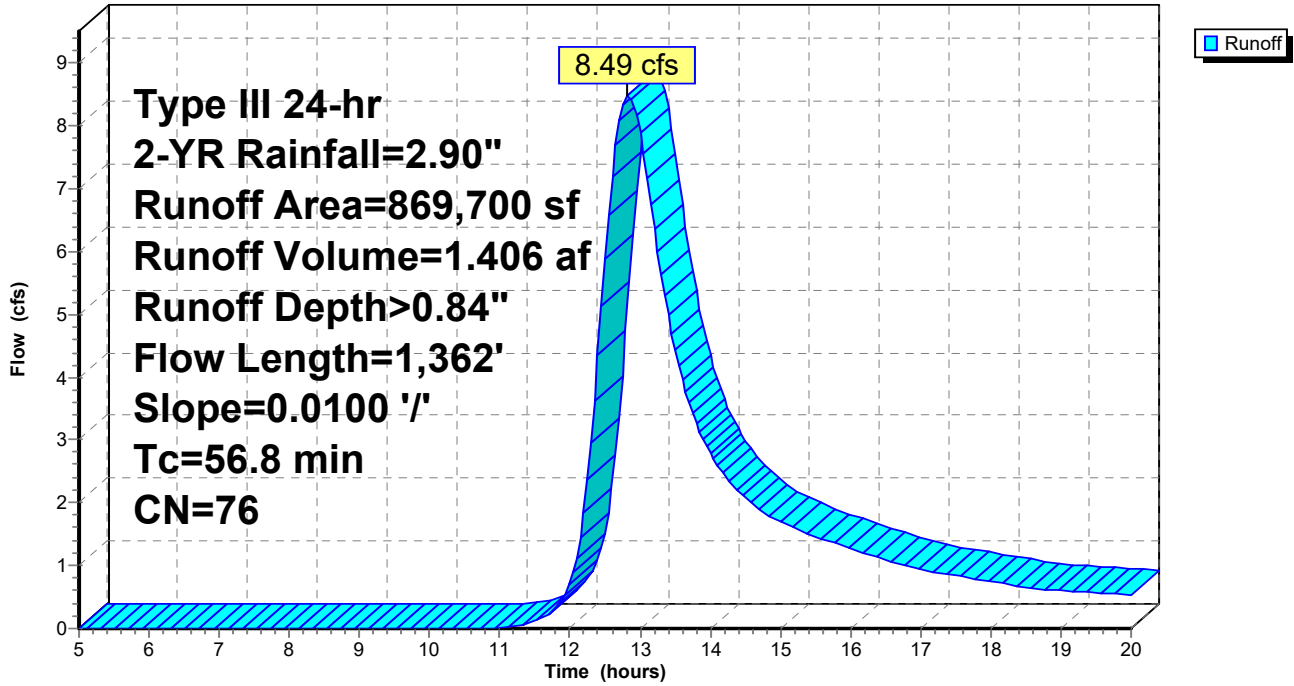
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.90"

Table with 3 columns: Area (sf), CN, Description. Rows include Woods, Good, HSG D; Woods, Good, HSG C; LOT DRIVEWAY; BARTLETT ROAD; EXISTING HOUSE; 1/2 acre lots, 25% imp, HSG D; EXISTING LAWN; Weighted Average; 96.97% Pervious Area; 3.03% Impervious Area.

Table with 6 columns: Tc (min), Length (feet), Slope (ft/ft), Velocity (ft/sec), Capacity (cfs), Description. Rows include Sheet Flow, A-B; Trap/Vee/Rect Channel Flow, B-C; Total.

Subcatchment 3S: SW SITE

Hydrograph



Summary for Subcatchment 4S: W SITE

Runoff = 5.15 cfs @ 13.31 hrs, Volume= 1.140 af, Depth> 0.83"
 Routed to Pond SP-4 : WESTERN SITE BOUNDARY

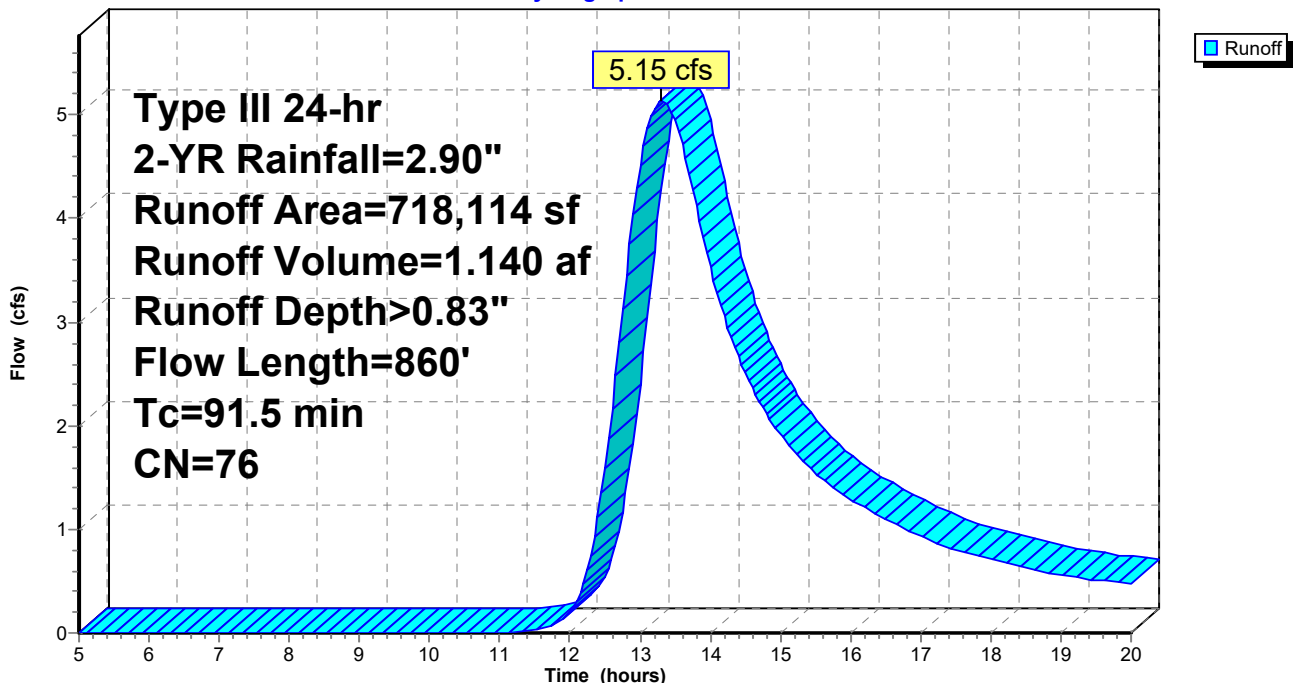
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-YR Rainfall=2.90"

| Area (sf) | CN | Description |
|-----------|----|-----------------------|
| 592,160 | 77 | Woods, Good, HSG D |
| 125,954 | 70 | Woods, Good, HSG C |
| 718,114 | 76 | Weighted Average |
| 718,114 | | 100.00% Pervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 62.5 | 150 | 0.0030 | 0.04 | | Sheet Flow, A-B Woods: Light underbrush n= 0.400 P2= 3.30" |
| 18.9 | 310 | 0.0030 | 0.27 | | Shallow Concentrated Flow, B-C Woodland Kv= 5.0 fps |
| 10.1 | 400 | 0.0175 | 0.66 | | Shallow Concentrated Flow, C-D Woodland Kv= 5.0 fps |
| 91.5 | 860 | Total | | | |

Subcatchment 4S: W SITE

Hydrograph



PRE

Prepared by Terradyn Consultants

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Type III 24-hr 2-YR Rainfall=2.90"

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Summary for Subcatchment 5S: N SITE

Runoff = 6.12 cfs @ 12.48 hrs, Volume= 0.749 af, Depth> 0.91"
Routed to Pond SP-5 : LYNCH LANE

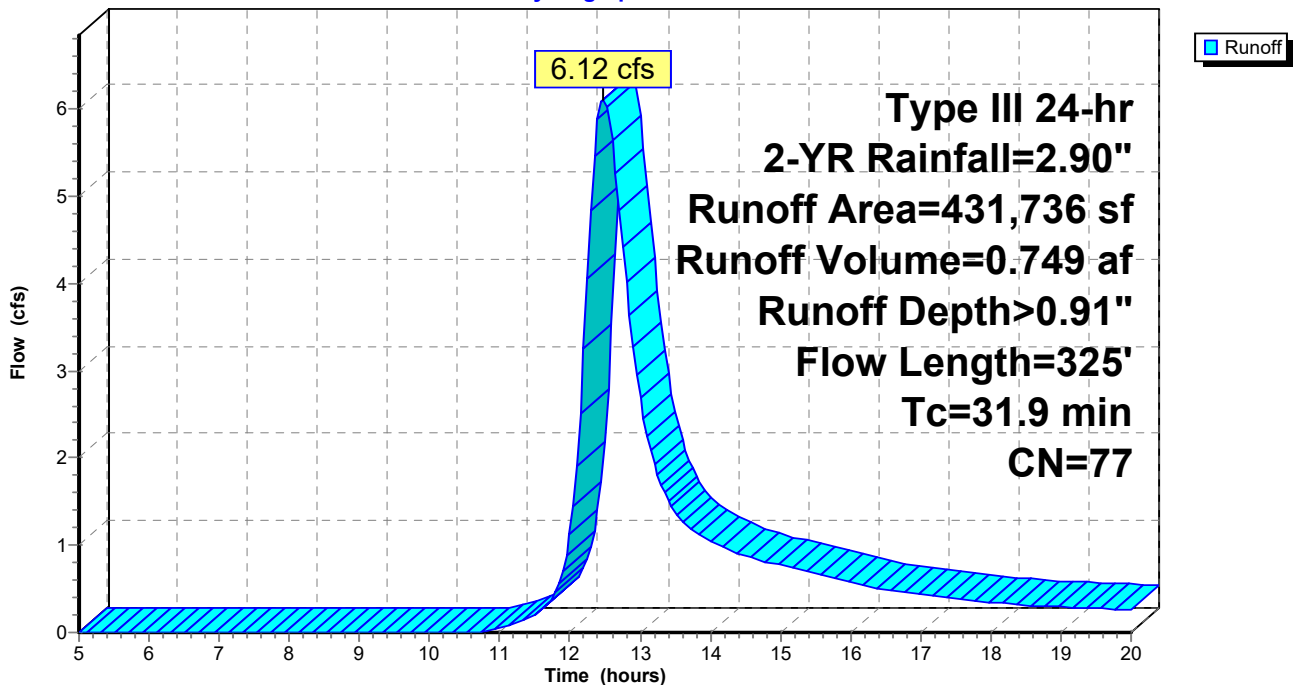
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.90"

| Area (sf) | CN | Description |
|-----------|----|-------------------------------|
| 30,000 | 85 | 1/2 acre lots, 25% imp, HSG D |
| 40,000 | 70 | Woods, Good, HSG C |
| * 2,600 | 98 | Lynch Ln |
| 359,136 | 77 | Woods, Good, HSG D |
| 431,736 | 77 | Weighted Average |
| 421,636 | | 97.66% Pervious Area |
| 10,100 | | 2.34% Impervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 26.1 | 150 | 0.0267 | 0.10 | | Sheet Flow, A-B Woods: Light underbrush n= 0.400 P2= 3.30" |
| 5.8 | 175 | 0.0100 | 0.50 | | Shallow Concentrated Flow, B-C Woodland Kv= 5.0 fps |
| 31.9 | 325 | Total | | | |

Subcatchment 5S: N SITE

Hydrograph



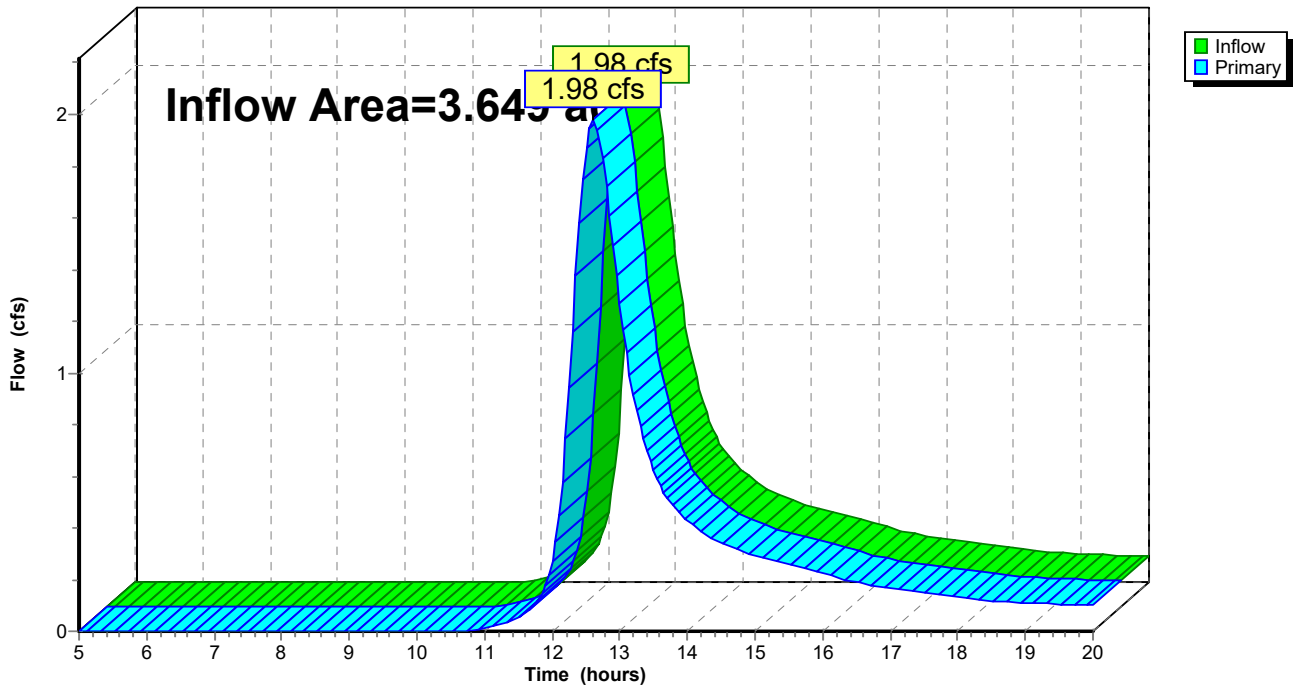
Summary for Pond SP-1: LYNCH LANE

Inflow Area = 3.649 ac, 3.69% Impervious, Inflow Depth > 0.90" for 2-YR event
Inflow = 1.98 cfs @ 12.61 hrs, Volume= 0.274 af
Primary = 1.98 cfs @ 12.61 hrs, Volume= 0.274 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 1P

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Pond SP-1: LYNCH LANE

Hydrograph

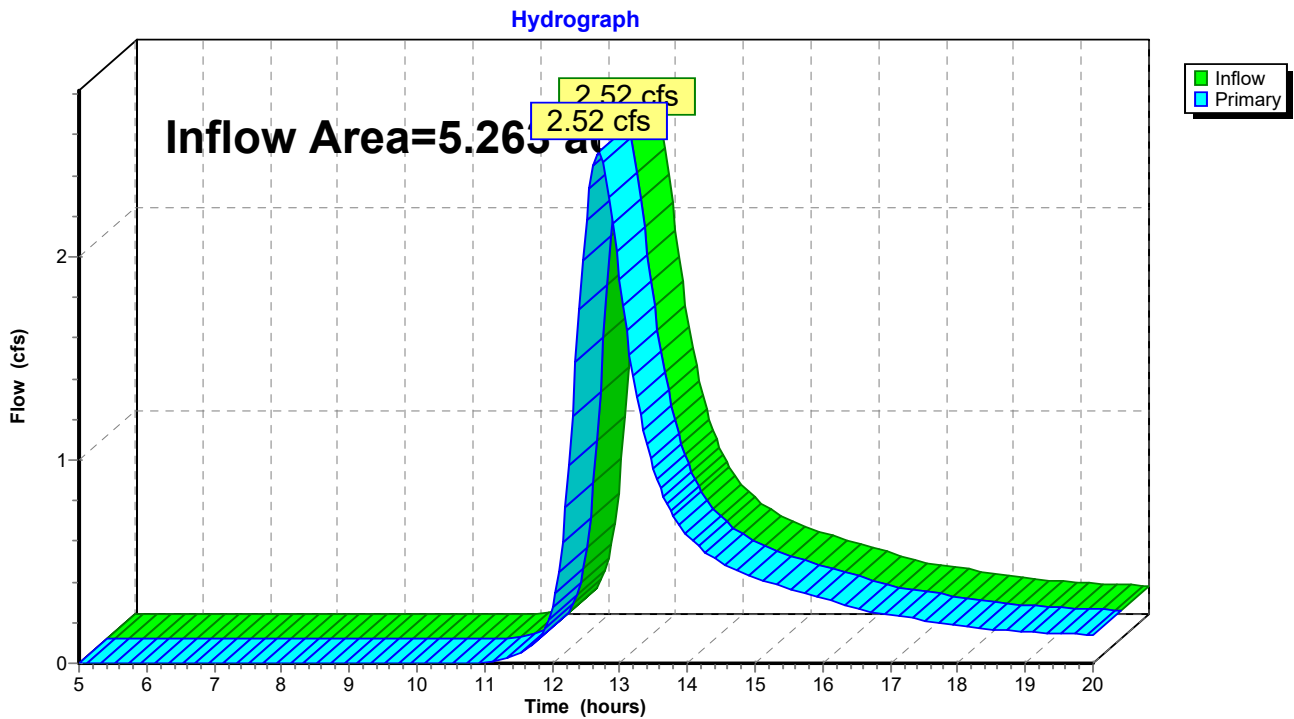


Summary for Pond SP-2: BARTLETT ROAD EAST

Inflow Area = 5.263 ac, 3.81% Impervious, Inflow Depth > 0.85" for 2-YR event
Inflow = 2.52 cfs @ 12.69 hrs, Volume= 0.373 af
Primary = 2.52 cfs @ 12.69 hrs, Volume= 0.373 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 1P

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Pond SP-2: BARTLETT ROAD EAST



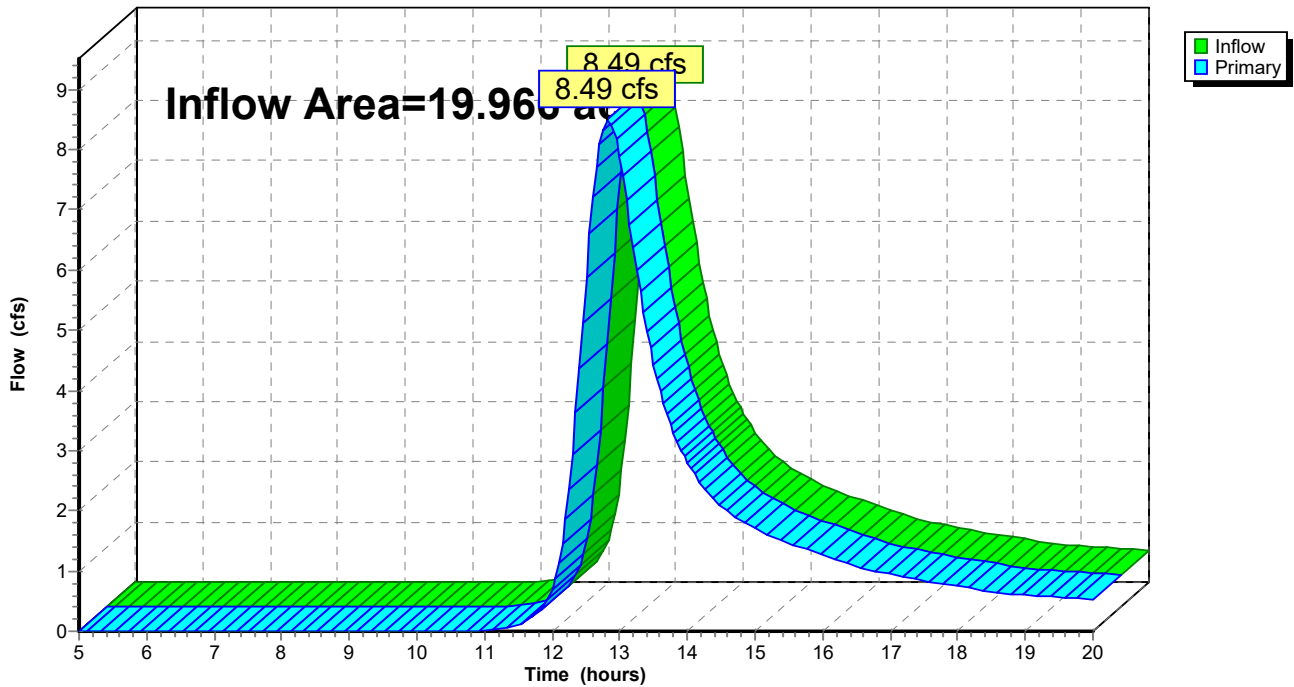
Summary for Pond SP-3: BARTLETT ROAD WEST

Inflow Area = 19.966 ac, 3.03% Impervious, Inflow Depth > 0.84" for 2-YR event
Inflow = 8.49 cfs @ 12.82 hrs, Volume= 1.406 af
Primary = 8.49 cfs @ 12.82 hrs, Volume= 1.406 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 1P

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Pond SP-3: BARTLETT ROAD WEST

Hydrograph



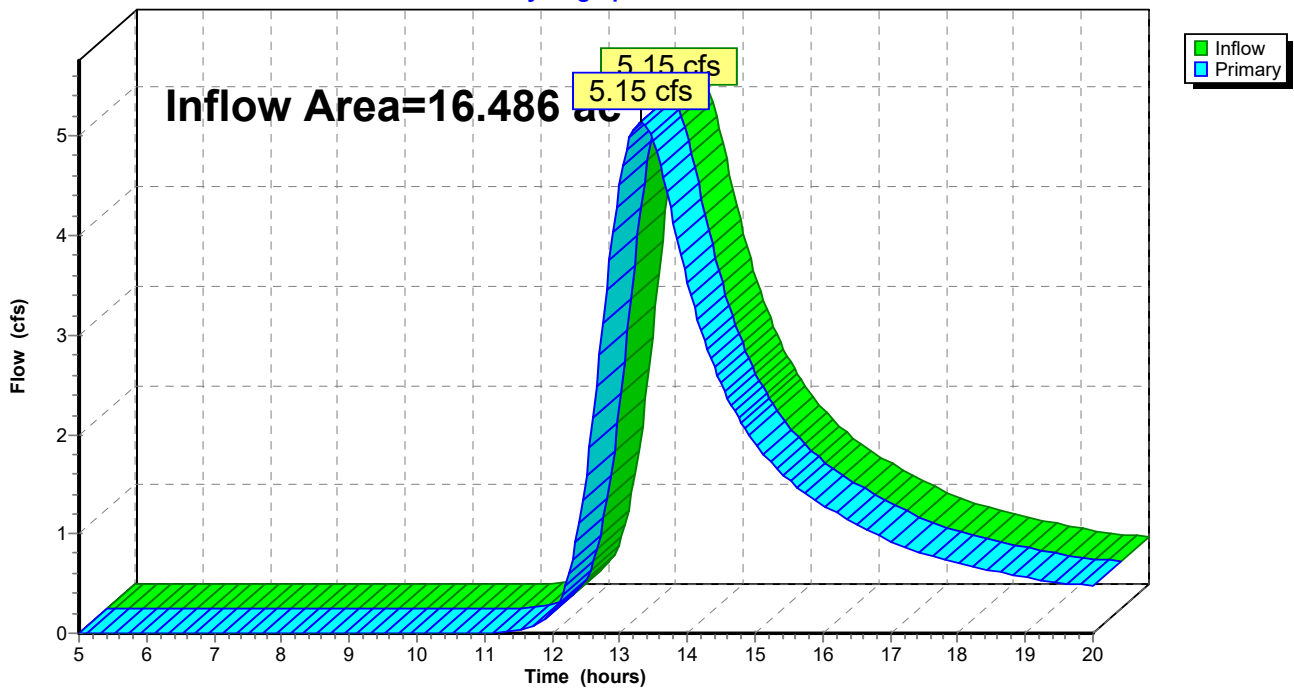
Summary for Pond SP-4: WESTERN SITE BOUNDARY

Inflow Area = 16.486 ac, 0.00% Impervious, Inflow Depth > 0.83" for 2-YR event
Inflow = 5.15 cfs @ 13.31 hrs, Volume= 1.140 af
Primary = 5.15 cfs @ 13.31 hrs, Volume= 1.140 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 1P

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Pond SP-4: WESTERN SITE BOUNDARY

Hydrograph



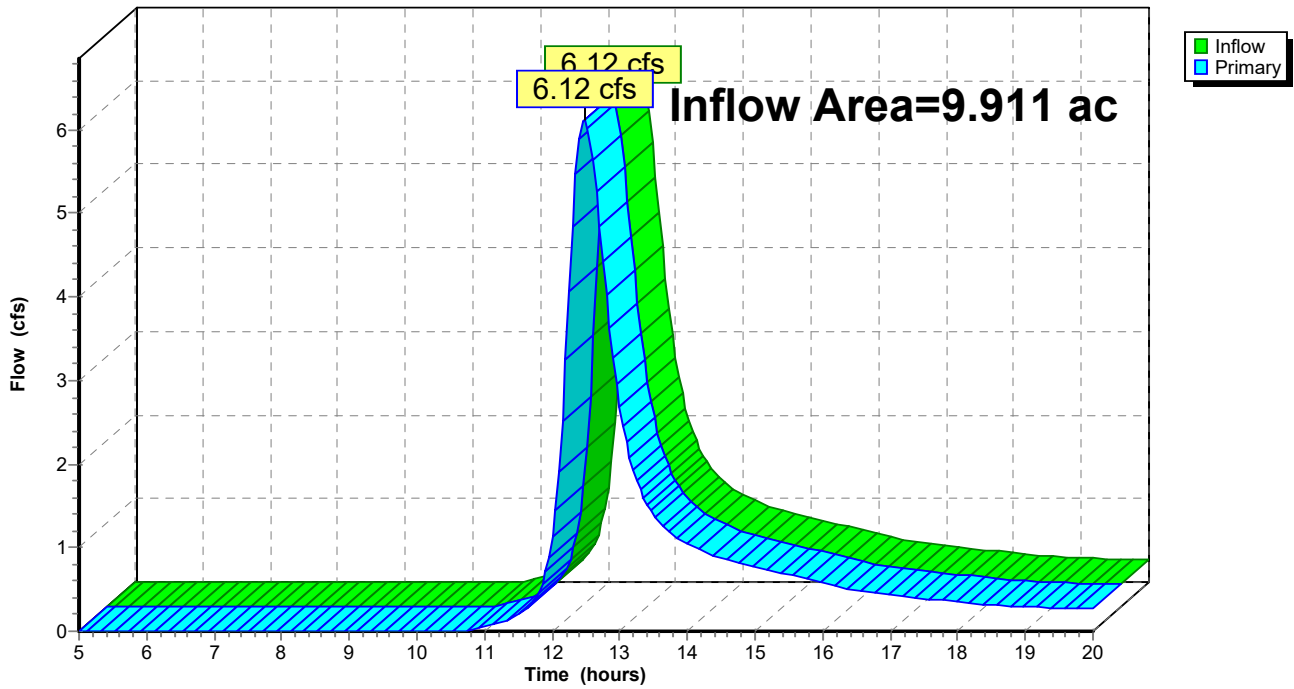
Summary for Pond SP-5: LYNCH LANE

Inflow Area = 9.911 ac, 2.34% Impervious, Inflow Depth > 0.91" for 2-YR event
Inflow = 6.12 cfs @ 12.48 hrs, Volume= 0.749 af
Primary = 6.12 cfs @ 12.48 hrs, Volume= 0.749 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 1P

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Pond SP-5: LYNCH LANE

Hydrograph



PRE

Prepared by Terradyn Consultants

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Type III 24-hr 10-YR Rainfall=4.30"

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Page 1

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: NE SITE

Runoff Area=158,935 sf 3.69% Impervious Runoff Depth>1.87"
Flow Length=309' Tc=41.3 min CN=77 Runoff=4.21 cfs 0.570 af

Subcatchment 2S: E SITE

Runoff Area=229,278 sf 3.81% Impervious Runoff Depth>1.80"
Flow Length=478' Tc=46.3 min CN=76 Runoff=5.48 cfs 0.788 af

Subcatchment 3S: SW SITE

Runoff Area=869,700 sf 3.03% Impervious Runoff Depth>1.79"
Flow Length=1,362' Slope=0.0100 '/' Tc=56.8 min CN=76 Runoff=18.54 cfs 2.975 af

Subcatchment 4S: W SITE

Runoff Area=718,114 sf 0.00% Impervious Runoff Depth>1.76"
Flow Length=860' Tc=91.5 min CN=76 Runoff=11.27 cfs 2.419 af

Subcatchment 5S: N SITE

Runoff Area=431,736 sf 2.34% Impervious Runoff Depth>1.88"
Flow Length=325' Tc=31.9 min CN=77 Runoff=13.00 cfs 1.554 af

Pond SP-1: LYNCH LANE

Inflow=4.21 cfs 0.570 af
Primary=4.21 cfs 0.570 af

Pond SP-2: BARTLETT ROAD EAST

Inflow=5.48 cfs 0.788 af
Primary=5.48 cfs 0.788 af

Pond SP-3: BARTLETT ROAD WEST

Inflow=18.54 cfs 2.975 af
Primary=18.54 cfs 2.975 af

Pond SP-4: WESTERN SITE BOUNDARY

Inflow=11.27 cfs 2.419 af
Primary=11.27 cfs 2.419 af

Pond SP-5: LYNCH LANE

Inflow=13.00 cfs 1.554 af
Primary=13.00 cfs 1.554 af

Total Runoff Area = 55.275 ac Runoff Volume = 8.305 af Average Runoff Depth = 1.80"
97.88% Pervious = 54.102 ac 2.12% Impervious = 1.173 ac

PRE

Prepared by Terradyn Consultants

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Type III 24-hr 25-YR Rainfall=5.10"

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Page 2

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: NE SITE

Runoff Area=158,935 sf 3.69% Impervious Runoff Depth>2.49"
Flow Length=309' Tc=41.3 min CN=77 Runoff=5.60 cfs 0.757 af

Subcatchment 2S: E SITE

Runoff Area=229,278 sf 3.81% Impervious Runoff Depth>2.40"
Flow Length=478' Tc=46.3 min CN=76 Runoff=7.34 cfs 1.052 af

Subcatchment 3S: SW SITE

Runoff Area=869,700 sf 3.03% Impervious Runoff Depth>2.39"
Flow Length=1,362' Slope=0.0100 '/' Tc=56.8 min CN=76 Runoff=24.82 cfs 3.974 af

Subcatchment 4S: W SITE

Runoff Area=718,114 sf 0.00% Impervious Runoff Depth>2.35"
Flow Length=860' Tc=91.5 min CN=76 Runoff=15.09 cfs 3.234 af

Subcatchment 5S: N SITE

Runoff Area=431,736 sf 2.34% Impervious Runoff Depth>2.50"
Flow Length=325' Tc=31.9 min CN=77 Runoff=17.26 cfs 2.062 af

Pond SP-1: LYNCH LANE

Inflow=5.60 cfs 0.757 af
Primary=5.60 cfs 0.757 af

Pond SP-2: BARTLETT ROAD EAST

Inflow=7.34 cfs 1.052 af
Primary=7.34 cfs 1.052 af

Pond SP-3: BARTLETT ROAD WEST

Inflow=24.82 cfs 3.974 af
Primary=24.82 cfs 3.974 af

Pond SP-4: WESTERN SITE BOUNDARY

Inflow=15.09 cfs 3.234 af
Primary=15.09 cfs 3.234 af

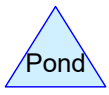
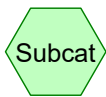
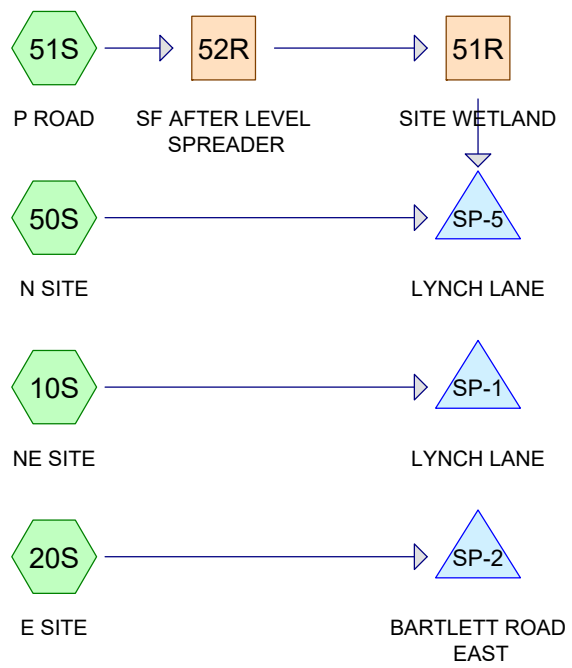
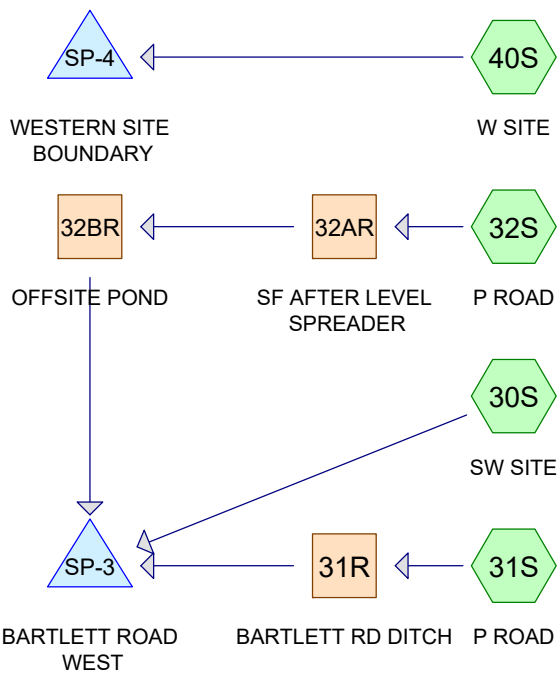
Pond SP-5: LYNCH LANE

Inflow=17.26 cfs 2.062 af
Primary=17.26 cfs 2.062 af

Total Runoff Area = 55.275 ac Runoff Volume = 11.079 af Average Runoff Depth = 2.41"
97.88% Pervious = 54.102 ac 2.12% Impervious = 1.173 ac

APPENDIX 4

POST-DEVELOPMENT HYDROCAD MODEL



Routing Diagram for POST 2023.10.23
 Prepared by Terradyn Consultants, Printed 12/12/2023
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Area Listing (all nodes)

| Area (acres) | CN | Description (subcatchment-numbers) |
|-----------------|-----------|--|
| 0.230 | 80 | 1/2 acre lots, 25% imp, HSG C (10S) |
| 1.607 | 85 | 1/2 acre lots, 25% imp, HSG D (30S, 50S) |
| 0.365 | 98 | BARTLETT ROAD (20S, 30S, 31S) |
| 1.039 | 98 | LOT IMP (10S, 20S, 30S, 31S, 32S, 40S, 50S) |
| 3.077 | 74 | LOT LS (10S, 20S, 30S, 31S, 32S, 40S, 50S) |
| 0.172 | 98 | Lynch Ln (10S, 20S, 50S) |
| 0.440 | 98 | PROPOSED ROAD IMP (31S, 32S, 51S) |
| 0.486 | 74 | PROPOSED ROAD LS (31S, 32S, 51S) |
| 9.532 | 70 | Woods, Good, HSG C (10S, 20S, 30S, 31S, 32S, 40S, 50S) |
| 38.327 | 77 | Woods, Good, HSG D (10S, 20S, 30S, 40S, 50S) |
| 55.275 | 77 | TOTAL AREA |

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

| | |
|--------------------------------------|--|
| Subcatchment 10S: NE SITE | Runoff Area=141,255 sf 6.86% Impervious Runoff Depth>0.90" Flow Length=309' Tc=41.3 min CN=77 Runoff=1.76 cfs 0.244 af |
| Subcatchment 20S: E SITE | Runoff Area=219,616 sf 5.68% Impervious Runoff Depth>0.85" Flow Length=478' Tc=46.3 min CN=76 Runoff=2.41 cfs 0.357 af |
| Subcatchment 30S: SW SITE | Runoff Area=771,905 sf 2.84% Impervious Runoff Depth>0.84" Flow Length=1,362' Slope=0.0100 '/' Tc=56.8 min CN=76 Runoff=7.54 cfs 1.248 af |
| Subcatchment 31S: P ROAD | Runoff Area=48,416 sf 22.99% Impervious Runoff Depth>0.97" Flow Length=253' Tc=6.1 min CN=78 Runoff=1.31 cfs 0.090 af |
| Subcatchment 32S: P ROAD | Runoff Area=94,227 sf 27.69% Impervious Runoff Depth>1.08" Flow Length=227' Tc=6.3 min CN=80 Runoff=2.85 cfs 0.195 af |
| Subcatchment 40S: W SITE | Runoff Area=714,111 sf 1.05% Impervious Runoff Depth>0.83" Flow Length=860' Tc=91.5 min CN=76 Runoff=5.12 cfs 1.133 af |
| Subcatchment 50S: N SITE | Runoff Area=405,878 sf 3.41% Impervious Runoff Depth>0.91" Flow Length=325' Tc=31.9 min CN=77 Runoff=5.75 cfs 0.704 af |
| Subcatchment 51S: P ROAD | Runoff Area=12,377 sf 41.45% Impervious Runoff Depth>1.33" Tc=5.0 min CN=84 Runoff=0.48 cfs 0.032 af |
| Reach 31R: BARTLETT RD DITCH | Avg. Flow Depth=0.20' Max Vel=2.40 fps Inflow=1.31 cfs 0.090 af n=0.035 L=268.0' S=0.0373 '/' Capacity=139.17 cfs Outflow=1.22 cfs 0.089 af |
| Reach 32AR: SF AFTER LEVEL | Avg. Flow Depth=0.21' Max Vel=0.27 fps Inflow=2.85 cfs 0.195 af n=0.400 L=80.0' S=0.0750 '/' Capacity=84.16 cfs Outflow=2.38 cfs 0.193 af |
| Reach 32BR: OFFSITE POND | Avg. Flow Depth=0.12' Max Vel=1.23 fps Inflow=2.38 cfs 0.193 af n=0.050 L=103.0' S=0.0291 '/' Capacity=25.49 cfs Outflow=2.32 cfs 0.193 af |
| Reach 51R: SITE WETLAND | Avg. Flow Depth=0.07' Max Vel=0.37 fps Inflow=0.36 cfs 0.031 af n=0.080 L=392.0' S=0.0153 '/' Capacity=28.27 cfs Outflow=0.25 cfs 0.030 af |
| Reach 52R: SF AFTER LEVEL | Avg. Flow Depth=0.09' Max Vel=0.16 fps Inflow=0.48 cfs 0.032 af n=0.400 L=83.0' S=0.0723 '/' Capacity=14.54 cfs Outflow=0.36 cfs 0.031 af |
| Pond SP-1: LYNCH LANE | Inflow=1.76 cfs 0.244 af Primary=1.76 cfs 0.244 af |
| Pond SP-2: BARTLETT ROAD EAST | Inflow=2.41 cfs 0.357 af Primary=2.41 cfs 0.357 af |
| Pond SP-3: BARTLETT ROAD WEST | Inflow=8.32 cfs 1.530 af Primary=8.32 cfs 1.530 af |

POST 2023.10.23

Prepared by Terradyn Consultants

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Type III 24-hr 2-YR Rainfall=2.90"

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Pond SP-4: WESTERN SITE BOUNDARY

Inflow=5.12 cfs 1.133 af
Primary=5.12 cfs 1.133 af

Pond SP-5: LYNCH LANE

Inflow=5.83 cfs 0.734 af
Primary=5.83 cfs 0.734 af

Total Runoff Area = 55.275 ac Runoff Volume = 4.002 af Average Runoff Depth = 0.87"
95.52% Pervious = 52.800 ac 4.48% Impervious = 2.475 ac

Summary for Subcatchment 10S: NE SITE

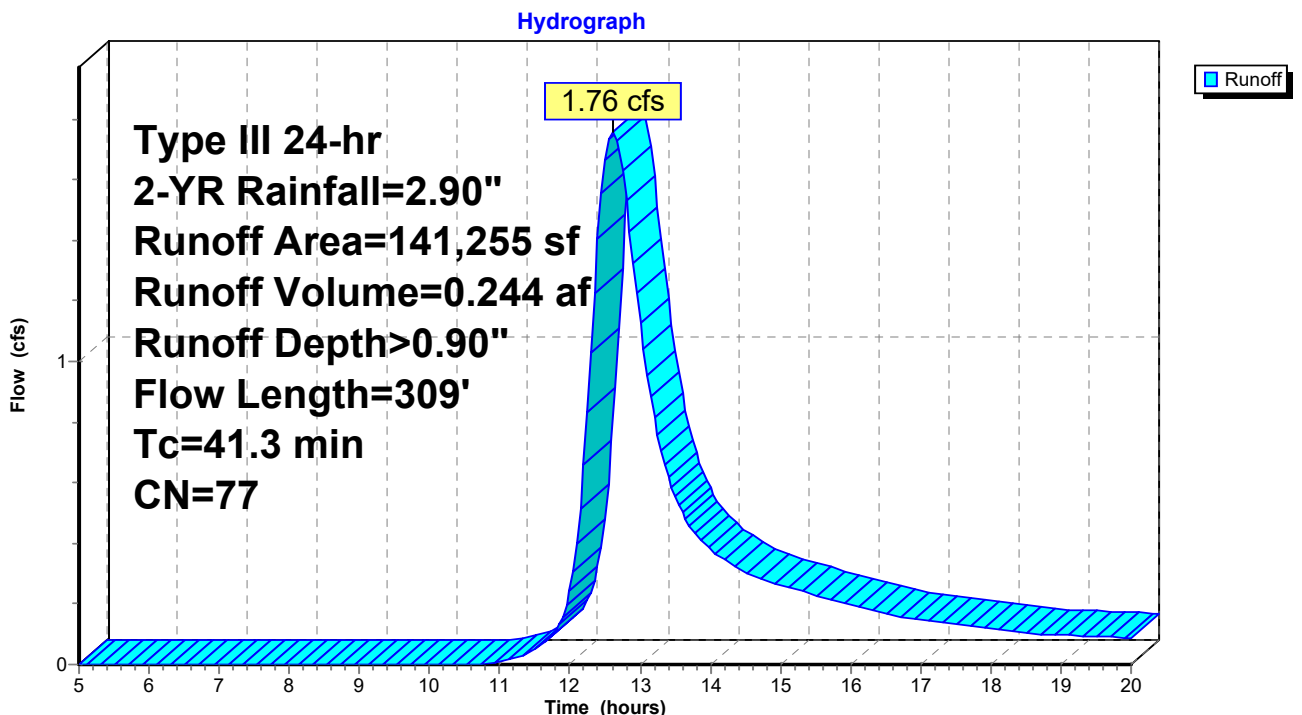
Runoff = 1.76 cfs @ 12.61 hrs, Volume= 0.244 af, Depth> 0.90"
 Routed to Pond SP-1 : LYNCH LANE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-YR Rainfall=2.90"

| Area (sf) | CN | Description |
|-----------|----|-------------------------------|
| 10,000 | 80 | 1/2 acre lots, 25% imp, HSG C |
| 25,000 | 70 | Woods, Good, HSG C |
| 87,814 | 77 | Woods, Good, HSG D |
| * 3,441 | 98 | Lynch Ln |
| * 3,750 | 98 | LOT IMP |
| * 11,250 | 74 | LOT LS |
| 141,255 | 77 | Weighted Average |
| 131,564 | | 93.14% Pervious Area |
| 9,691 | | 6.86% Impervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 38.6 | 150 | 0.0100 | 0.06 | | Sheet Flow, A-B Woods: Light underbrush n= 0.400 P2= 3.30" |
| 2.6 | 159 | 0.0400 | 1.00 | | Shallow Concentrated Flow, B-C Woodland Kv= 5.0 fps |
| 41.3 | 309 | Total | | | |

Subcatchment 10S: NE SITE



Summary for Subcatchment 20S: E SITE

Runoff = 2.41 cfs @ 12.69 hrs, Volume= 0.357 af, Depth> 0.85"
 Routed to Pond SP-2 : BARTLETT ROAD EAST

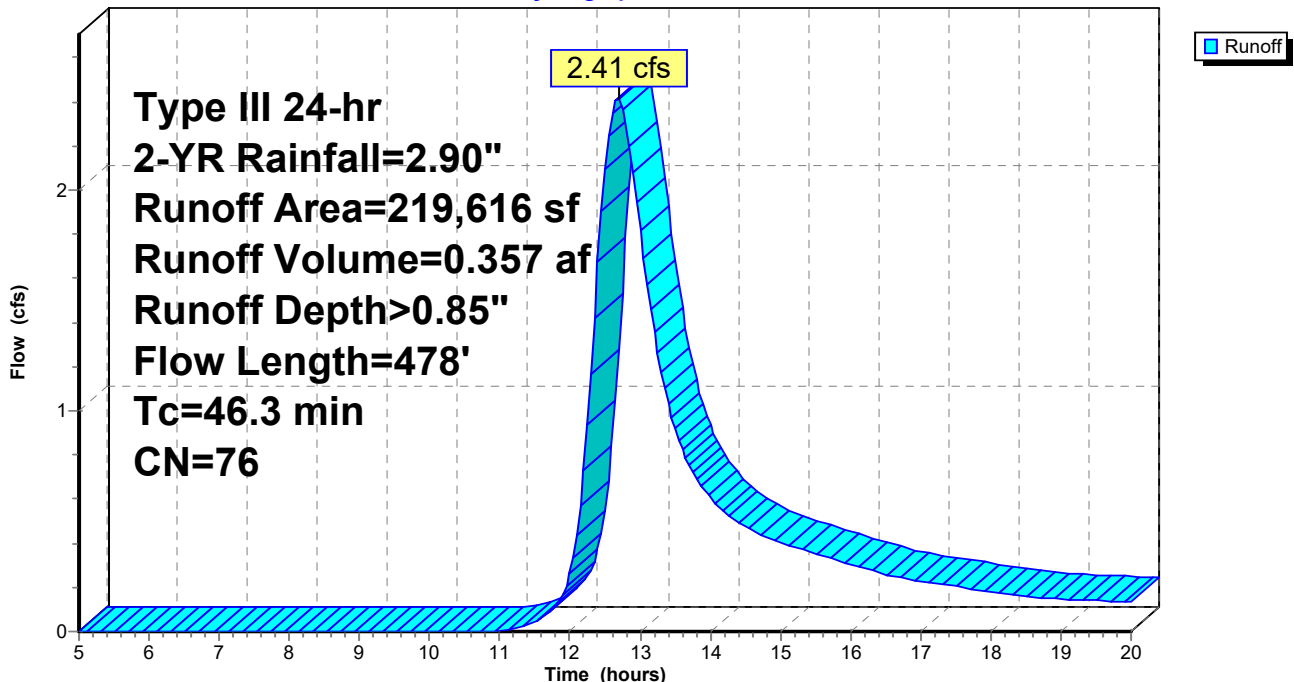
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-YR Rainfall=2.90"

| Area (sf) | CN | Description |
|-----------|----|-----------------------|
| * 1,470 | 98 | Lynch Ln |
| * 7,256 | 98 | BARTLETT ROAD |
| 57,243 | 70 | Woods, Good, HSG C |
| 139,625 | 77 | Woods, Good, HSG D |
| * 3,750 | 98 | LOT IMP |
| * 10,272 | 74 | LOT LS |
| 219,616 | 76 | Weighted Average |
| 207,140 | | 94.32% Pervious Area |
| 12,476 | | 5.68% Impervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 38.6 | 150 | 0.0100 | 0.06 | | Sheet Flow, A-B Woods: Light underbrush n= 0.400 P2= 3.30" |
| 7.7 | 328 | 0.0200 | 0.71 | | Shallow Concentrated Flow, B-C Woodland Kv= 5.0 fps |
| 46.3 | 478 | Total | | | |

Subcatchment 20S: E SITE

Hydrograph



Summary for Subcatchment 30S: SW SITE

Runoff = 7.54 cfs @ 12.82 hrs, Volume= 1.248 af, Depth> 0.84"
 Routed to Pond SP-3 : BARTLETT ROAD WEST

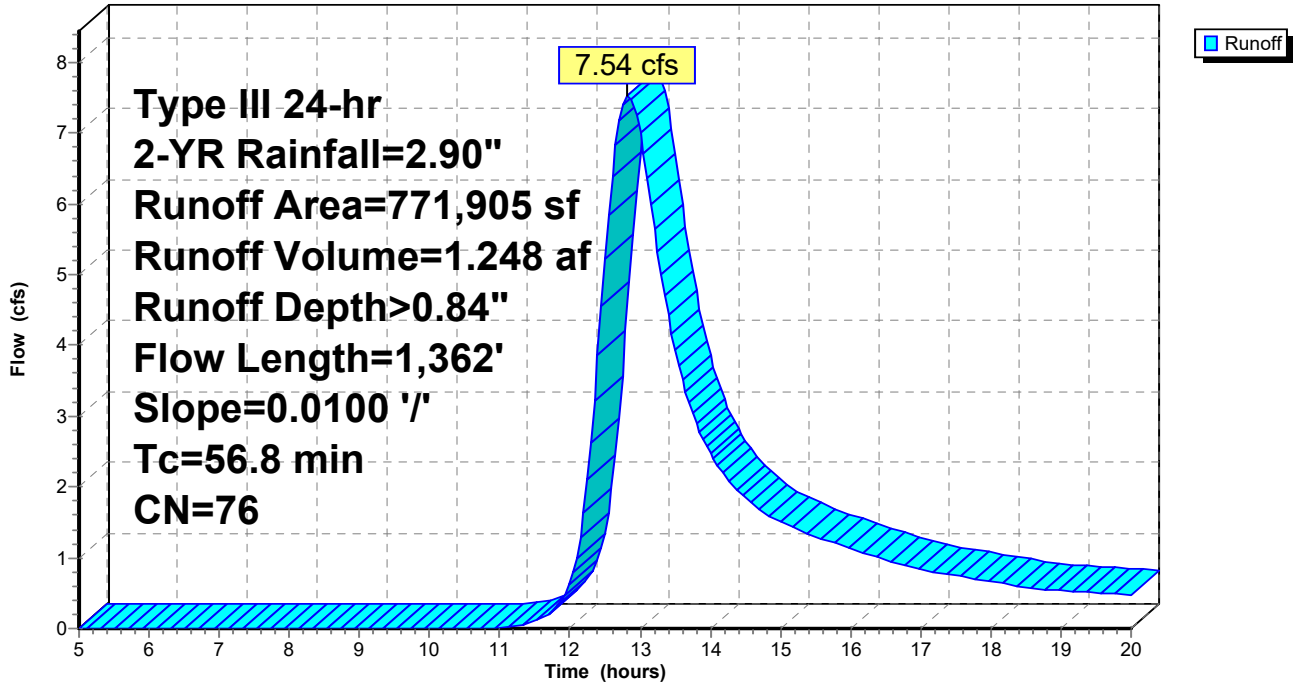
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-YR Rainfall=2.90"

| Area (sf) | CN | Description |
|-----------|----|-------------------------------|
| 553,893 | 77 | Woods, Good, HSG D |
| 144,871 | 70 | Woods, Good, HSG C |
| * 7,956 | 98 | BARTLETT ROAD |
| 40,000 | 85 | 1/2 acre lots, 25% imp, HSG D |
| * 4,000 | 98 | LOT IMP |
| * 13,750 | 74 | LOT LS |
| 7,435 | 70 | Woods, Good, HSG C |
| 771,905 | 76 | Weighted Average |
| 749,949 | | 97.16% Pervious Area |
| 21,956 | | 2.84% Impervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 38.6 | 150 | 0.0100 | 0.06 | | Sheet Flow, A-B Woods: Light underbrush n= 0.400 P2= 3.30" |
| 18.2 | 1,212 | 0.0100 | 1.11 | 18.06 | Trap/Vee/Rect Channel Flow, B-C Bot.W=30.00' D=0.50' Z= 5.0 '/' Top.W=35.00' n= 0.080 Earth, long dense weeds |
| 56.8 | 1,362 | Total | | | |

Subcatchment 30S: SW SITE

Hydrograph



Summary for Subcatchment 31S: P ROAD

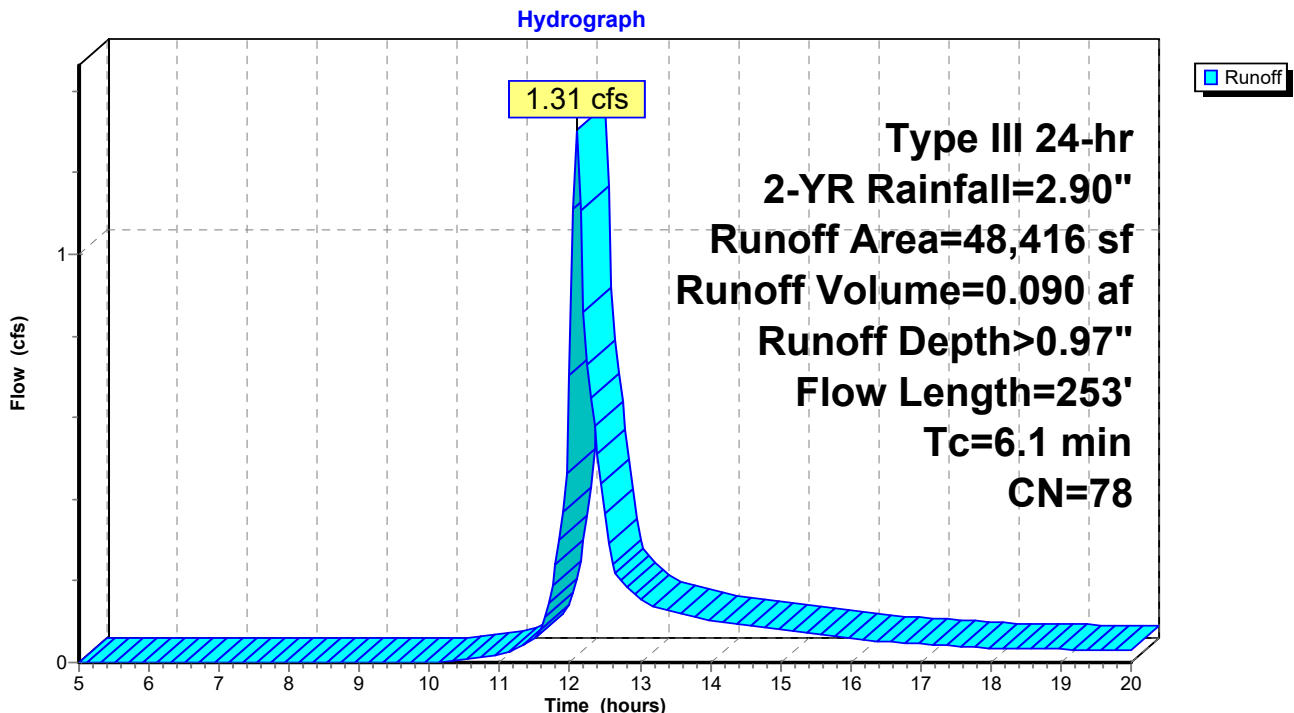
Runoff = 1.31 cfs @ 12.10 hrs, Volume= 0.090 af, Depth> 0.97"
 Routed to Reach 31R : BARTLETT RD DITCH

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-YR Rainfall=2.90"

| Area (sf) | CN | Description |
|-----------|----|------------------------|
| * 683 | 98 | BARTLETT ROAD |
| * 7,948 | 98 | PROPOSED ROAD IMP |
| * 10,365 | 74 | PROPOSED ROAD LS |
| * 2,500 | 98 | LOT IMP |
| * 7,500 | 74 | LOT LS |
| 19,420 | 70 | Woods, Good, HSG C |
| 48,416 | 78 | Weighted Average |
| 37,285 | | 77.01% Pervious Area |
| 11,131 | | 22.99% Impervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 4.4 | 75 | 0.0800 | 0.28 | | Sheet Flow, A-B Grass: Short n= 0.150 P2= 3.30" |
| 1.7 | 178 | 0.0600 | 1.71 | | Shallow Concentrated Flow, B-C Short Grass Pasture Kv= 7.0 fps |
| 6.1 | 253 | Total | | | |

Subcatchment 31S: P ROAD



Summary for Subcatchment 32S: P ROAD

Runoff = 2.85 cfs @ 12.10 hrs, Volume= 0.195 af, Depth> 1.08"

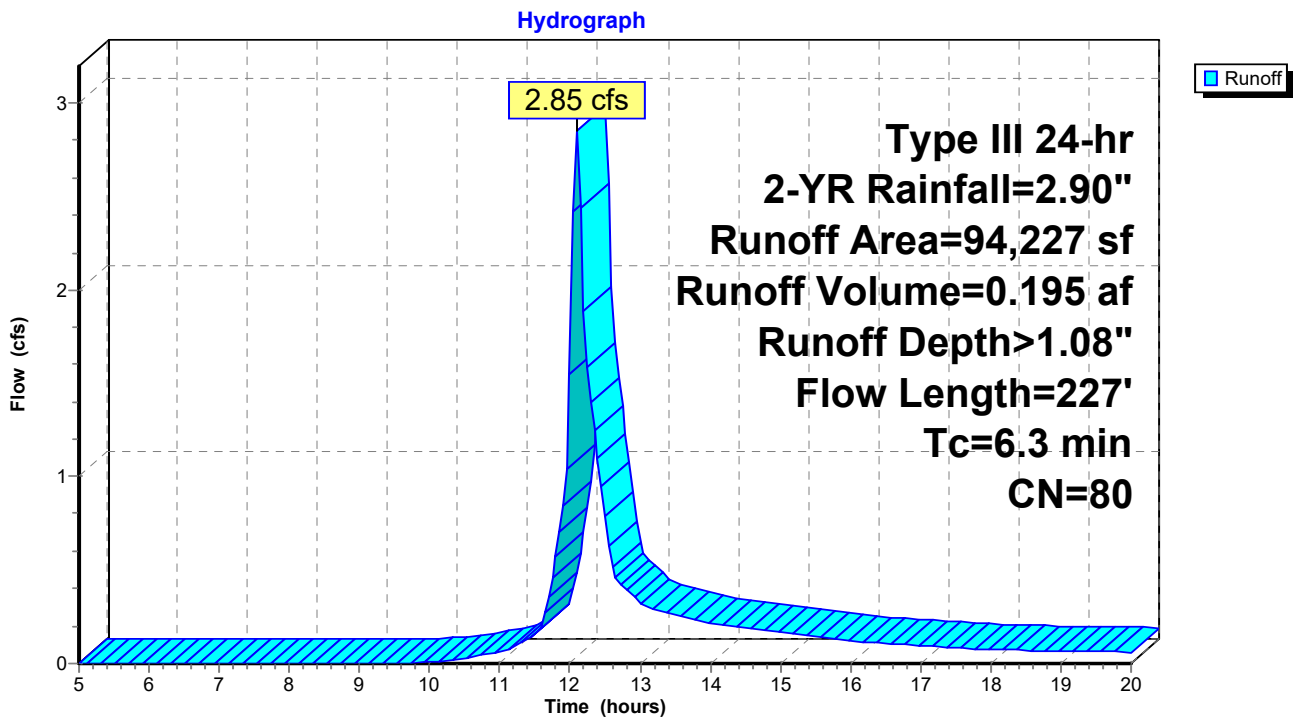
Routed to Reach 32AR : SF AFTER LEVEL SPREADER

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.90"

| Area (sf) | CN | Description |
|-----------|----|------------------------|
| * 6,095 | 98 | PROPOSED ROAD IMP |
| * 3,563 | 74 | PROPOSED ROAD LS |
| * 12,500 | 98 | LOT IMP |
| * 37,500 | 74 | LOT LS |
| 7,069 | 70 | Woods, Good, HSG C |
| * 7,500 | 98 | LOT IMP |
| * 20,000 | 74 | LOT LS |
| 94,227 | 80 | Weighted Average |
| 68,132 | | 72.31% Pervious Area |
| 26,095 | | 27.69% Impervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|---|
| 6.1 | 80 | 0.0400 | 0.22 | | Sheet Flow, A-B Grass: Short n= 0.150 P2= 3.30" |
| 0.2 | 147 | 0.0200 | 10.13 | 162.10 | Trap/Vee/Rect Channel Flow, B-C Bot.W=2.00' D=2.00' Z= 3.0 '/' Top.W=14.00' n= 0.022 Earth, clean & straight |
| 6.3 | 227 | Total | | | |

Subcatchment 32S: P ROAD



Summary for Subcatchment 40S: W SITE

Runoff = 5.12 cfs @ 13.31 hrs, Volume= 1.133 af, Depth> 0.83"

Routed to Pond SP-4 : WESTERN SITE BOUNDARY

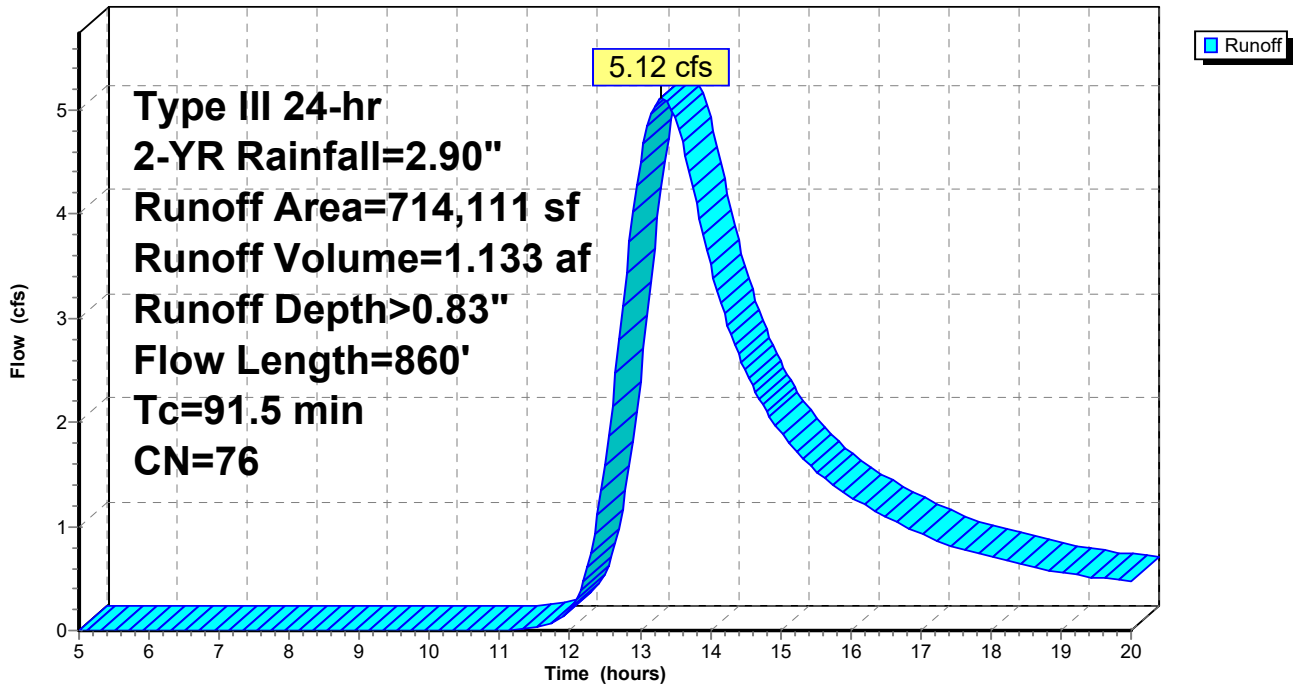
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-YR Rainfall=2.90"

| Area (sf) | CN | Description |
|-----------|----|-----------------------|
| 560,943 | 77 | Woods, Good, HSG D |
| 115,954 | 70 | Woods, Good, HSG C |
| * 7,500 | 98 | LOT IMP |
| * 22,500 | 74 | LOT LS |
| 7,214 | 70 | Woods, Good, HSG C |
| 714,111 | 76 | Weighted Average |
| 706,611 | | 98.95% Pervious Area |
| 7,500 | | 1.05% Impervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 62.5 | 150 | 0.0030 | 0.04 | | Sheet Flow, A-B Woods: Light underbrush n= 0.400 P2= 3.30" |
| 18.9 | 310 | 0.0030 | 0.27 | | Shallow Concentrated Flow, B-C Woodland Kv= 5.0 fps |
| 10.1 | 400 | 0.0175 | 0.66 | | Shallow Concentrated Flow, B-C Woodland Kv= 5.0 fps |
| 91.5 | 860 | Total | | | |

Subcatchment 40S: W SITE

Hydrograph



Summary for Subcatchment 50S: N SITE

Runoff = 5.75 cfs @ 12.48 hrs, Volume= 0.704 af, Depth> 0.91"
 Routed to Pond SP-5 : LYNCH LANE

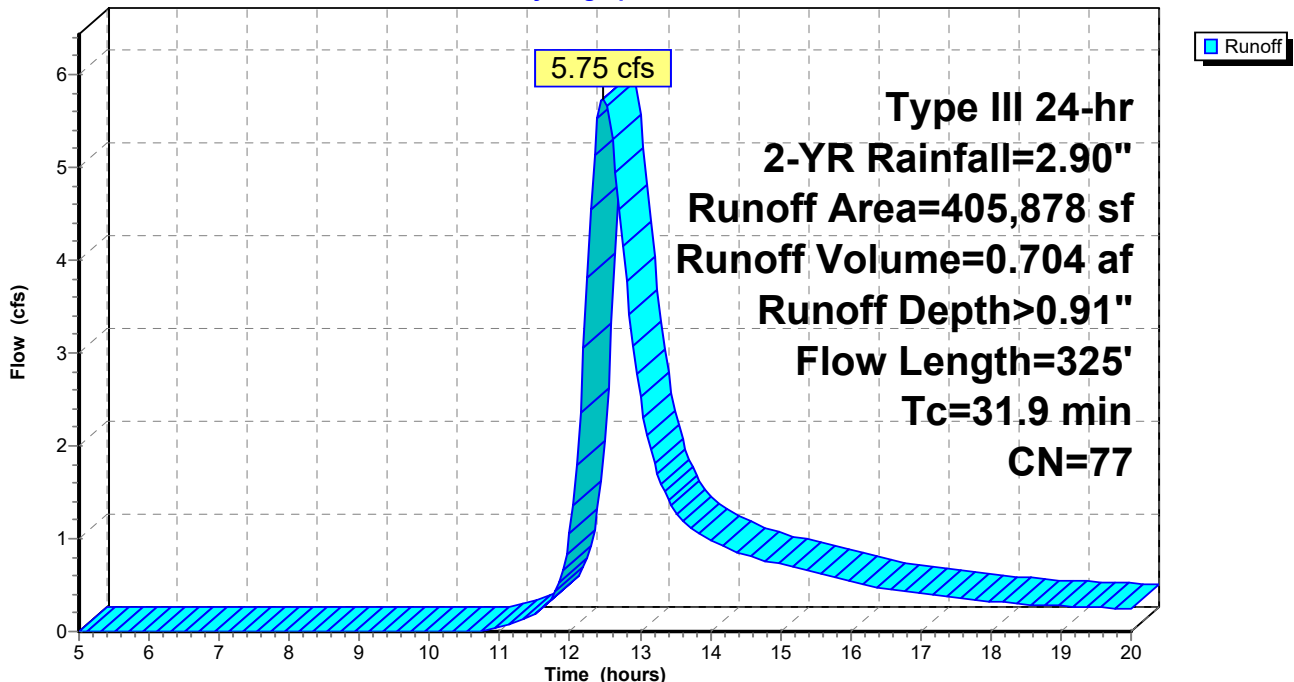
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-YR Rainfall=2.90"

| | Area (sf) | CN | Description |
|---|-----------|----|-------------------------------|
| * | 2,600 | 98 | Lynch Ln |
| | 30,000 | 85 | 1/2 acre lots, 25% imp, HSG D |
| | 31,012 | 70 | Woods, Good, HSG C |
| | 327,266 | 77 | Woods, Good, HSG D |
| * | 3,750 | 98 | LOT IMP |
| * | 11,250 | 74 | LOT LS |
| | 405,878 | 77 | Weighted Average |
| | 392,028 | | 96.59% Pervious Area |
| | 13,850 | | 3.41% Impervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 26.1 | 150 | 0.0267 | 0.10 | | Sheet Flow, A-B Woods: Light underbrush n= 0.400 P2= 3.30" |
| 5.8 | 175 | 0.0100 | 0.50 | | Shallow Concentrated Flow, B-C Woodland Kv= 5.0 fps |
| 31.9 | 325 | Total | | | |

Subcatchment 50S: N SITE

Hydrograph



Summary for Subcatchment 51S: P ROAD

Runoff = 0.48 cfs @ 12.08 hrs, Volume= 0.032 af, Depth> 1.33"

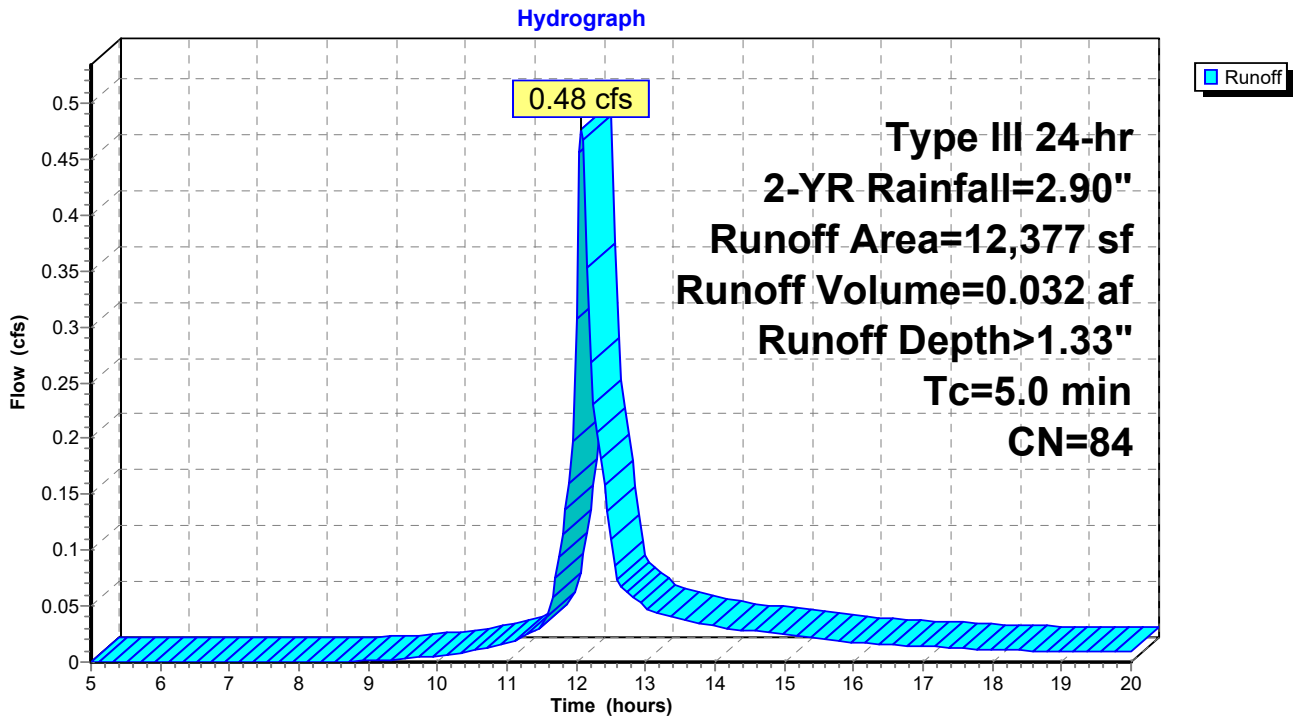
Routed to Reach 52R : SF AFTER LEVEL SPREADER

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-YR Rainfall=2.90"

| | Area (sf) | CN | Description |
|---|-----------|----|------------------------|
| * | 5,130 | 98 | PROPOSED ROAD IMP |
| * | 7,247 | 74 | PROPOSED ROAD LS |
| | 12,377 | 84 | Weighted Average |
| | 7,247 | | 58.55% Pervious Area |
| | 5,130 | | 41.45% Impervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|-------------------|
| 5.0 | | | | | Direct Entry, MIN |

Subcatchment 51S: P ROAD



Summary for Reach 31R: BARTLETT RD DITCH

Inflow Area = 1.111 ac, 22.99% Impervious, Inflow Depth > 0.97" for 2-YR event
 Inflow = 1.31 cfs @ 12.10 hrs, Volume= 0.090 af
 Outflow = 1.22 cfs @ 12.16 hrs, Volume= 0.089 af, Atten= 6%, Lag= 3.5 min
 Routed to Pond SP-3 : BARTLETT ROAD WEST

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Max. Velocity= 2.40 fps, Min. Travel Time= 1.9 min
 Avg. Velocity = 0.93 fps, Avg. Travel Time= 4.8 min

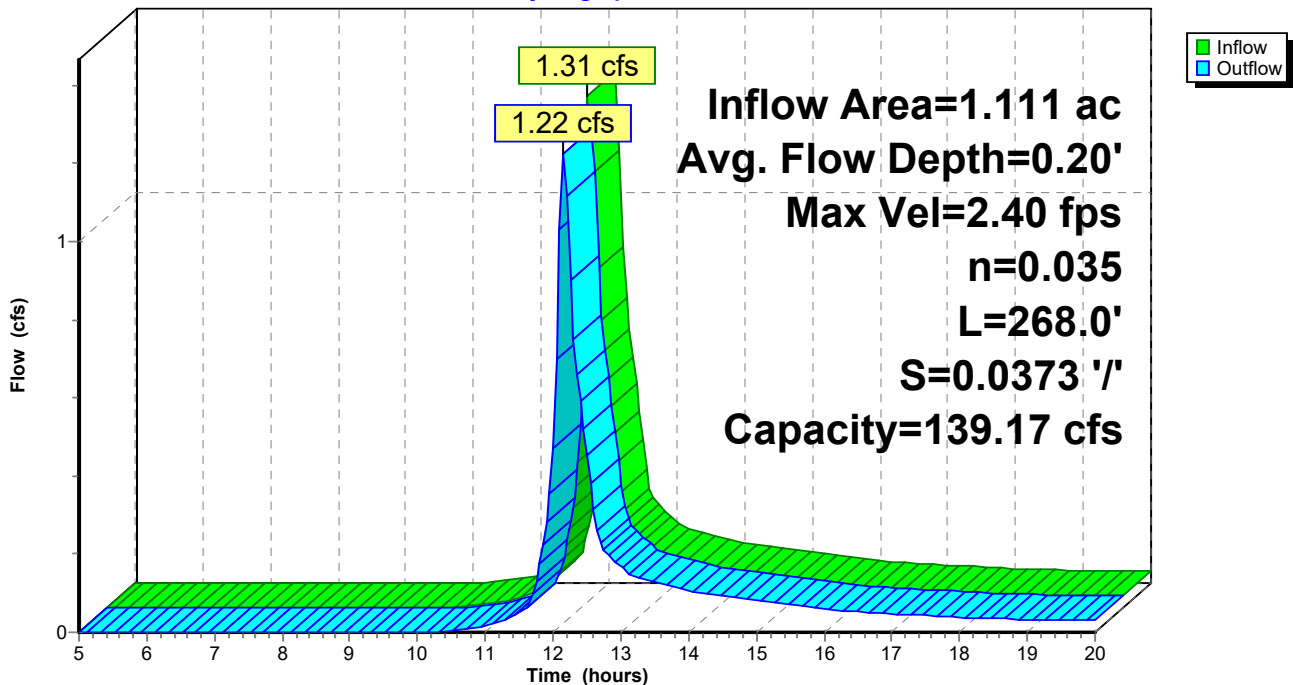
Peak Storage= 140 cf @ 12.12 hrs
 Average Depth at Peak Storage= 0.20' , Surface Width= 3.21'
 Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 139.17 cfs

2.00' x 2.00' deep channel, n= 0.035 Earth, dense weeds
 Side Slope Z-value= 3.0 '/' Top Width= 14.00'
 Length= 268.0' Slope= 0.0373 '/'
 Inlet Invert= 58.00', Outlet Invert= 48.00'



Reach 31R: BARTLETT RD DITCH

Hydrograph



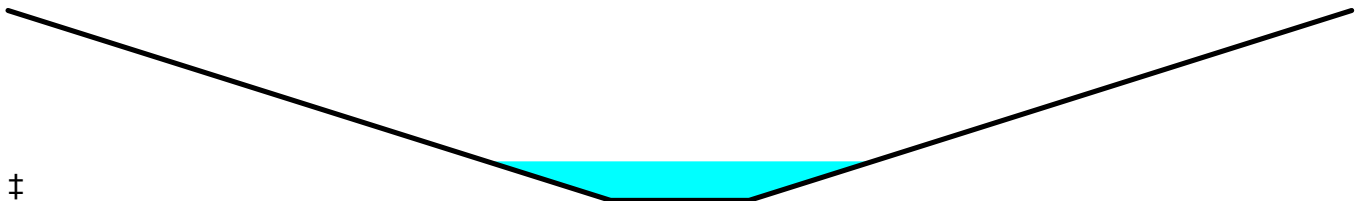
Summary for Reach 32AR: SF AFTER LEVEL SPREADER

Inflow Area = 2.163 ac, 27.69% Impervious, Inflow Depth > 1.08" for 2-YR event
 Inflow = 2.85 cfs @ 12.10 hrs, Volume= 0.195 af
 Outflow = 2.38 cfs @ 12.24 hrs, Volume= 0.193 af, Atten= 16%, Lag= 8.5 min
 Routed to Reach 32BR : OFFSITE POND

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Max. Velocity= 0.27 fps, Min. Travel Time= 4.9 min
 Avg. Velocity = 0.12 fps, Avg. Travel Time= 11.6 min

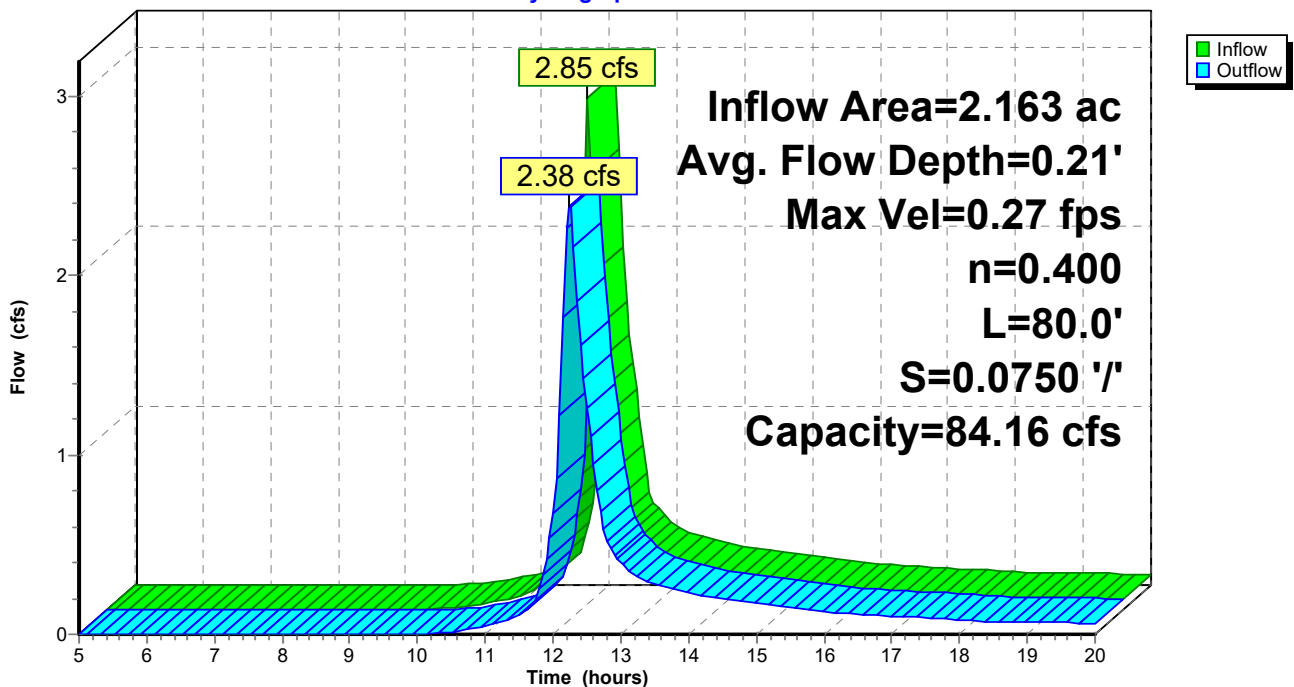
Peak Storage= 715 cf @ 12.16 hrs
 Average Depth at Peak Storage= 0.21' , Surface Width= 64.06'
 Bank-Full Depth= 1.00' Flow Area= 123.0 sf, Capacity= 84.16 cfs

23.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
 Side Slope Z-value= 100.0 '/' Top Width= 223.00'
 Length= 80.0' Slope= 0.0750 '/'
 Inlet Invert= 56.00', Outlet Invert= 50.00'



Reach 32AR: SF AFTER LEVEL SPREADER

Hydrograph



Summary for Reach 32BR: OFFSITE POND

Inflow Area = 2.163 ac, 27.69% Impervious, Inflow Depth > 1.07" for 2-YR event
 Inflow = 2.38 cfs @ 12.24 hrs, Volume= 0.193 af
 Outflow = 2.32 cfs @ 12.28 hrs, Volume= 0.193 af, Atten= 3%, Lag= 2.5 min
 Routed to Pond SP-3 : BARTLETT ROAD WEST

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Max. Velocity= 1.23 fps, Min. Travel Time= 1.4 min
 Avg. Velocity = 0.42 fps, Avg. Travel Time= 4.1 min

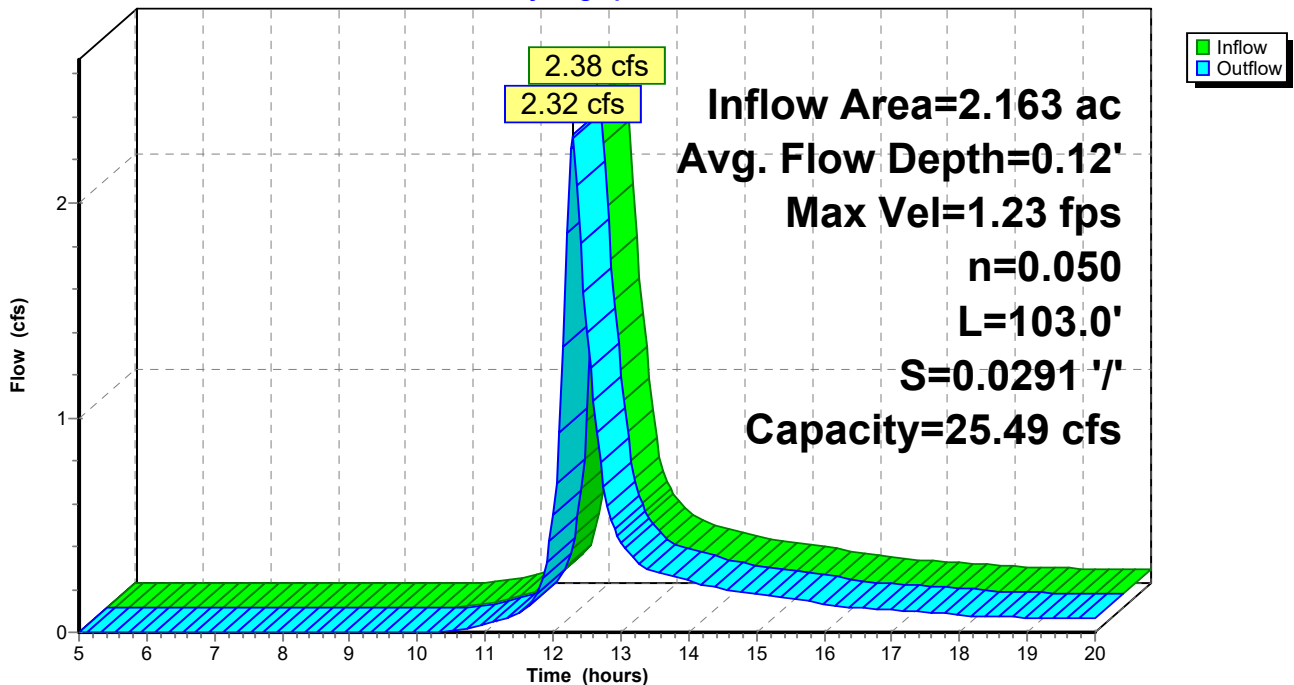
Peak Storage= 200 cf @ 12.26 hrs
 Average Depth at Peak Storage= 0.12' , Surface Width= 16.24'
 Bank-Full Depth= 0.50' Flow Area= 8.8 sf, Capacity= 25.49 cfs

15.00' x 0.50' deep channel, n= 0.050 Scattered brush, heavy weeds
 Side Slope Z-value= 5.0 '/' Top Width= 20.00'
 Length= 103.0' Slope= 0.0291 '/'
 Inlet Invert= 50.00', Outlet Invert= 47.00'



Reach 32BR: OFFSITE POND

Hydrograph



Summary for Reach 51R: SITE WETLAND

Inflow Area = 0.284 ac, 41.45% Impervious, Inflow Depth > 1.31" for 2-YR event
 Inflow = 0.36 cfs @ 12.30 hrs, Volume= 0.031 af
 Outflow = 0.25 cfs @ 12.79 hrs, Volume= 0.030 af, Atten= 31%, Lag= 29.2 min
 Routed to Pond SP-5 : LYNCH LANE

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Max. Velocity= 0.37 fps, Min. Travel Time= 17.9 min
 Avg. Velocity = 0.15 fps, Avg. Travel Time= 42.9 min

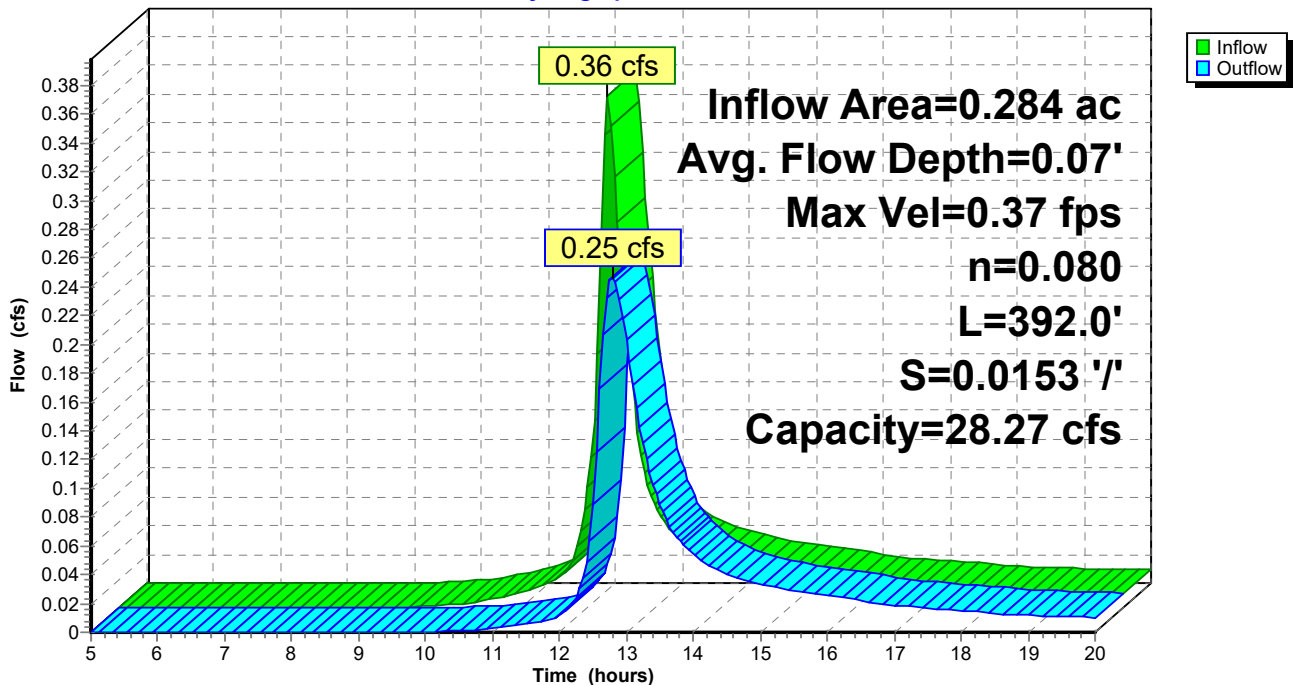
Peak Storage= 264 cf @ 12.49 hrs
 Average Depth at Peak Storage= 0.07' , Surface Width= 10.65'
 Bank-Full Depth= 1.00' Flow Area= 15.0 sf, Capacity= 28.27 cfs

10.00' x 1.00' deep channel, n= 0.080 Earth, long dense weeds
 Side Slope Z-value= 5.0 '/' Top Width= 20.00'
 Length= 392.0' Slope= 0.0153 '/'
 Inlet Invert= 56.00', Outlet Invert= 50.00'



Reach 51R: SITE WETLAND

Hydrograph



Summary for Reach 52R: SF AFTER LEVEL SPREADER

Inflow Area = 0.284 ac, 41.45% Impervious, Inflow Depth > 1.33" for 2-YR event
 Inflow = 0.48 cfs @ 12.08 hrs, Volume= 0.032 af
 Outflow = 0.36 cfs @ 12.30 hrs, Volume= 0.031 af, Atten= 26%, Lag= 13.4 min
 Routed to Reach 51R : SITE WETLAND

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Max. Velocity= 0.16 fps, Min. Travel Time= 8.6 min
 Avg. Velocity = 0.06 fps, Avg. Travel Time= 22.0 min

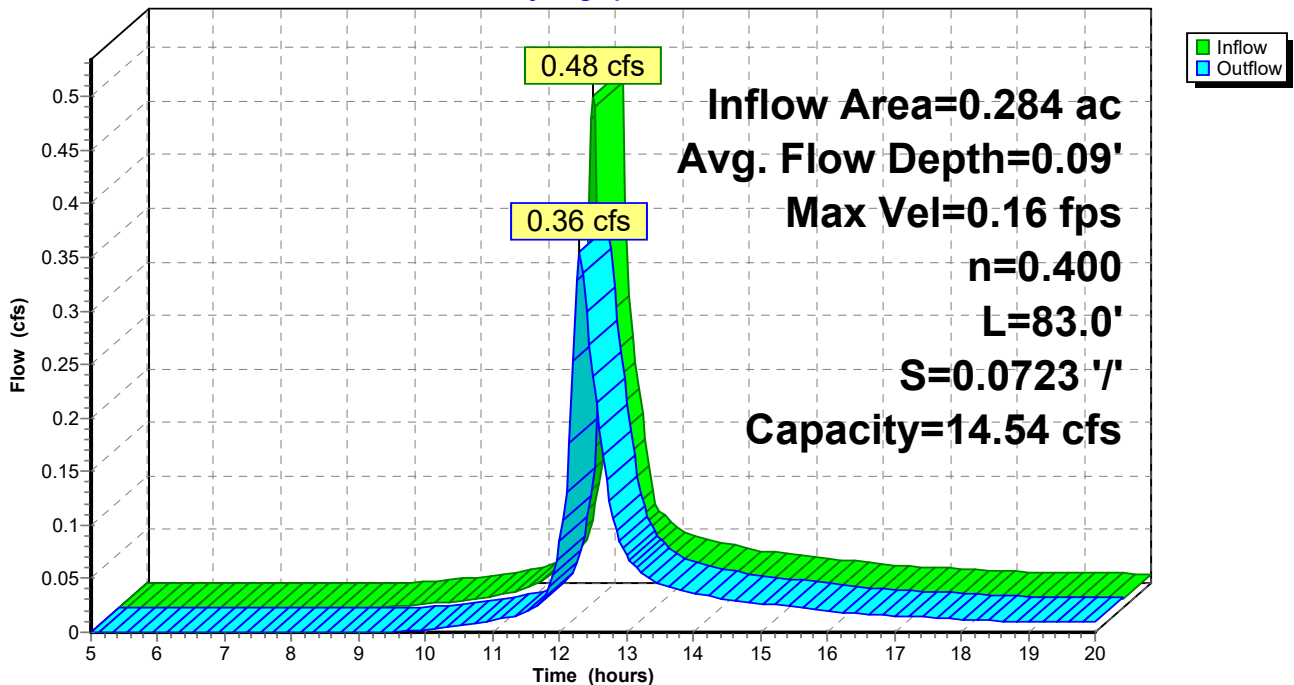
Peak Storage= 185 cf @ 12.16 hrs
 Average Depth at Peak Storage= 0.09' , Surface Width= 34.33'
 Bank-Full Depth= 0.50' Flow Area= 33.5 sf, Capacity= 14.54 cfs

17.00' x 0.50' deep channel, n= 0.400 Sheet flow: Woods+light brush
 Side Slope Z-value= 100.0 ' / ' Top Width= 117.00'
 Length= 83.0' Slope= 0.0723 ' / '
 Inlet Invert= 62.00', Outlet Invert= 56.00'



Reach 52R: SF AFTER LEVEL SPREADER

Hydrograph



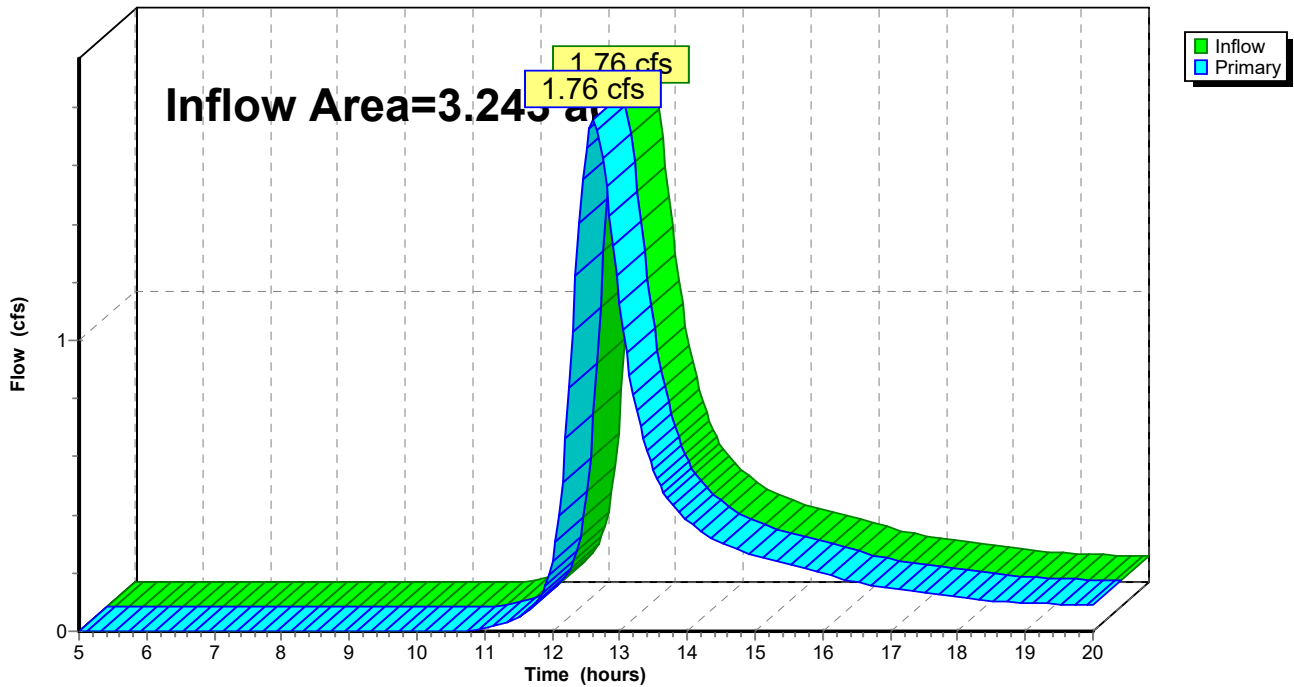
Summary for Pond SP-1: LYNCH LANE

Inflow Area = 3.243 ac, 6.86% Impervious, Inflow Depth > 0.90" for 2-YR event
Inflow = 1.76 cfs @ 12.61 hrs, Volume= 0.244 af
Primary = 1.76 cfs @ 12.61 hrs, Volume= 0.244 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 1P

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Pond SP-1: LYNCH LANE

Hydrograph

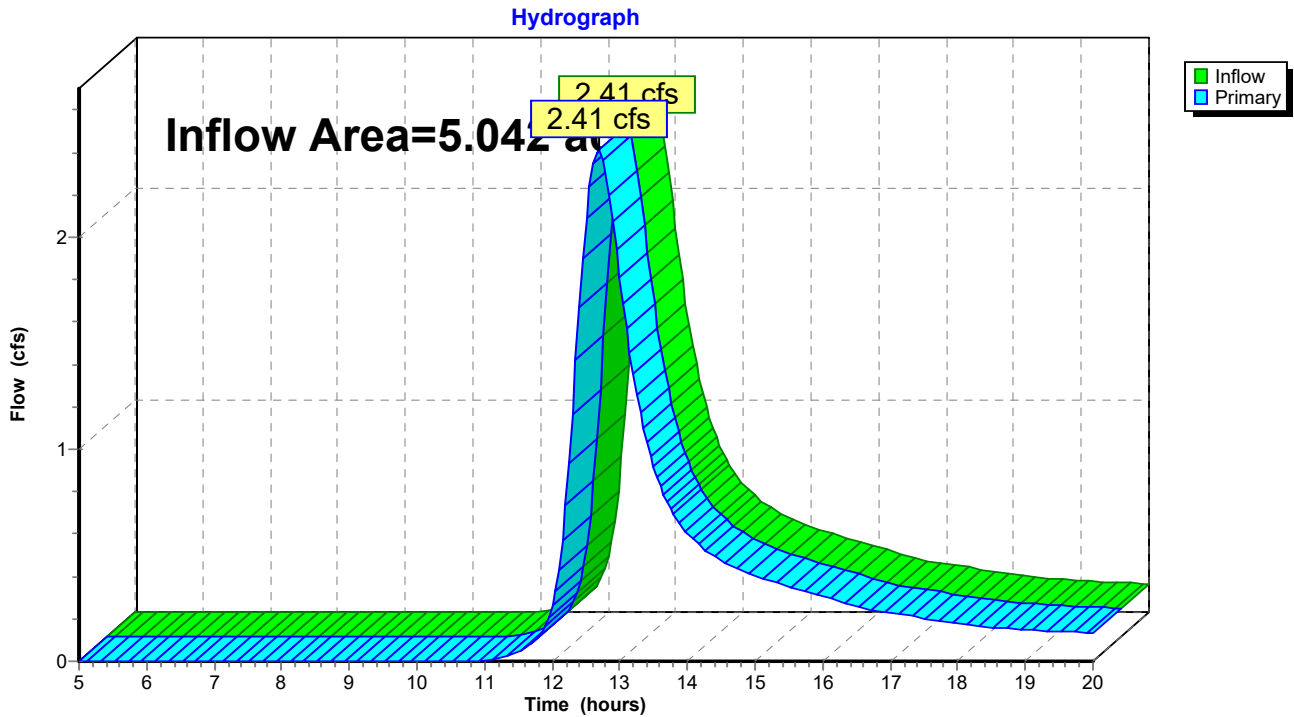


Summary for Pond SP-2: BARTLETT ROAD EAST

Inflow Area = 5.042 ac, 5.68% Impervious, Inflow Depth > 0.85" for 2-YR event
Inflow = 2.41 cfs @ 12.69 hrs, Volume= 0.357 af
Primary = 2.41 cfs @ 12.69 hrs, Volume= 0.357 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 1P

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Pond SP-2: BARTLETT ROAD EAST



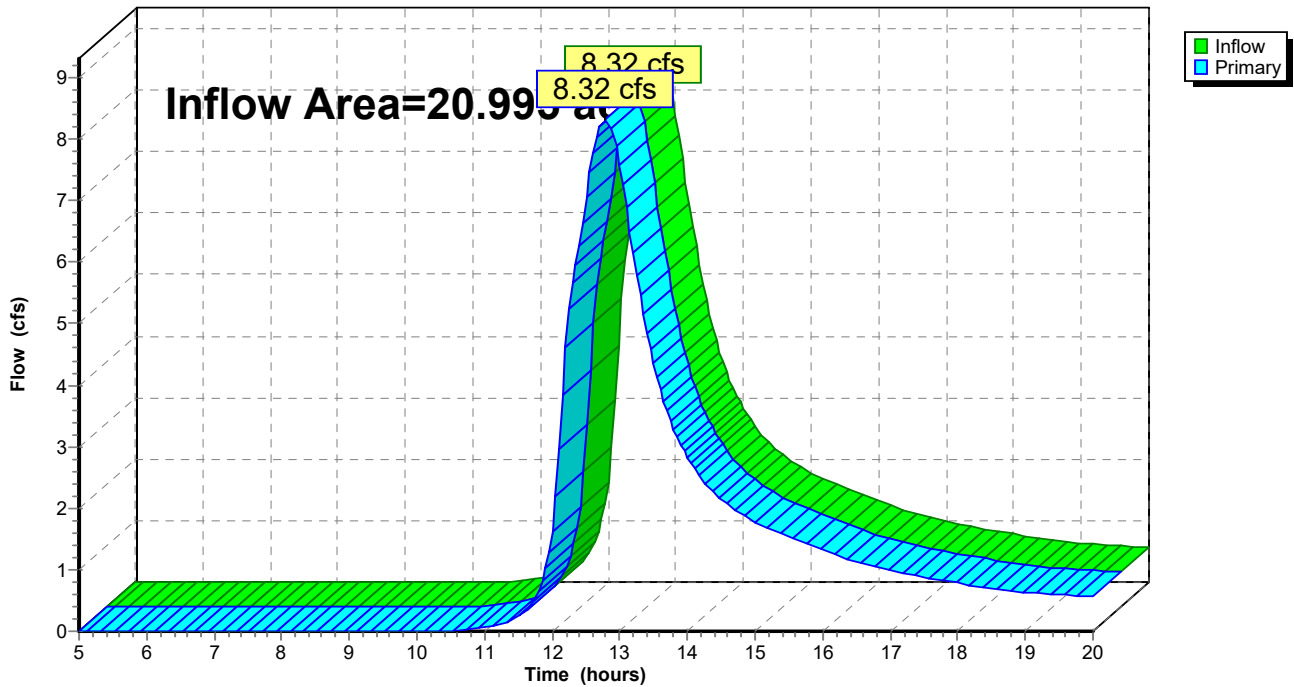
Summary for Pond SP-3: BARTLETT ROAD WEST

Inflow Area = 20.995 ac, 6.47% Impervious, Inflow Depth > 0.87" for 2-YR event
Inflow = 8.32 cfs @ 12.79 hrs, Volume= 1.530 af
Primary = 8.32 cfs @ 12.79 hrs, Volume= 1.530 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 1P

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Pond SP-3: BARTLETT ROAD WEST

Hydrograph



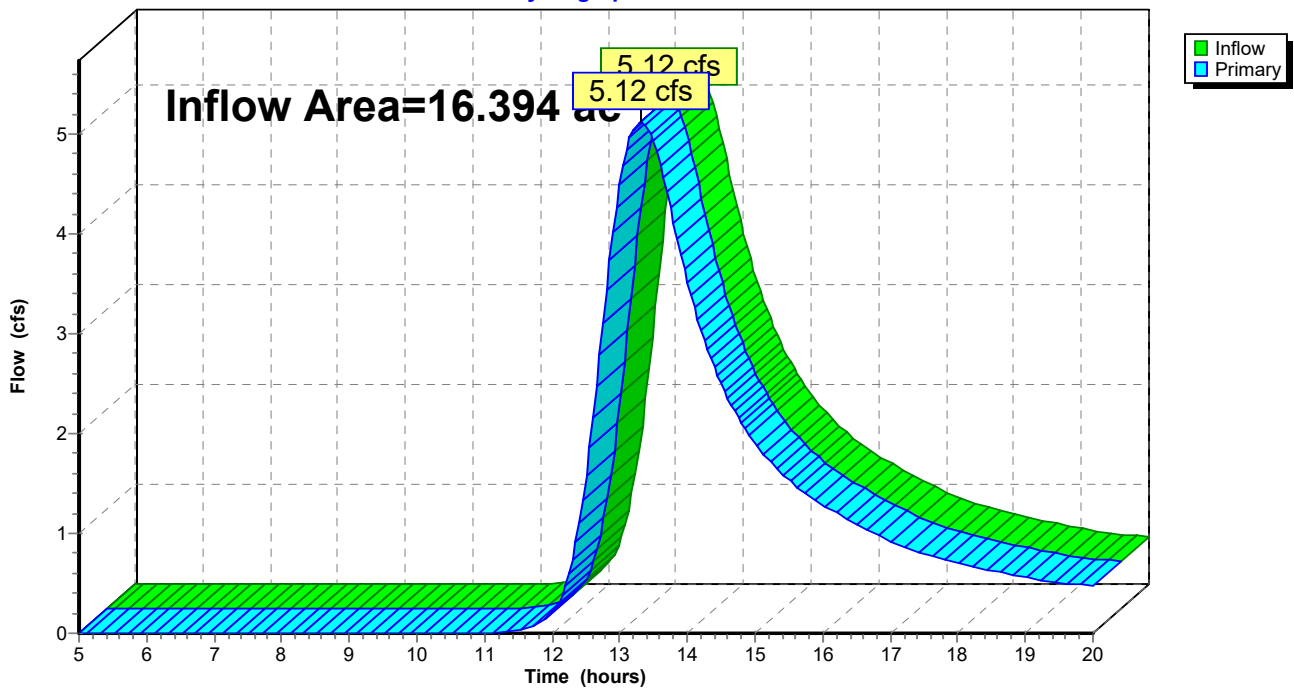
Summary for Pond SP-4: WESTERN SITE BOUNDARY

Inflow Area = 16.394 ac, 1.05% Impervious, Inflow Depth > 0.83" for 2-YR event
Inflow = 5.12 cfs @ 13.31 hrs, Volume= 1.133 af
Primary = 5.12 cfs @ 13.31 hrs, Volume= 1.133 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 1P

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Pond SP-4: WESTERN SITE BOUNDARY

Hydrograph



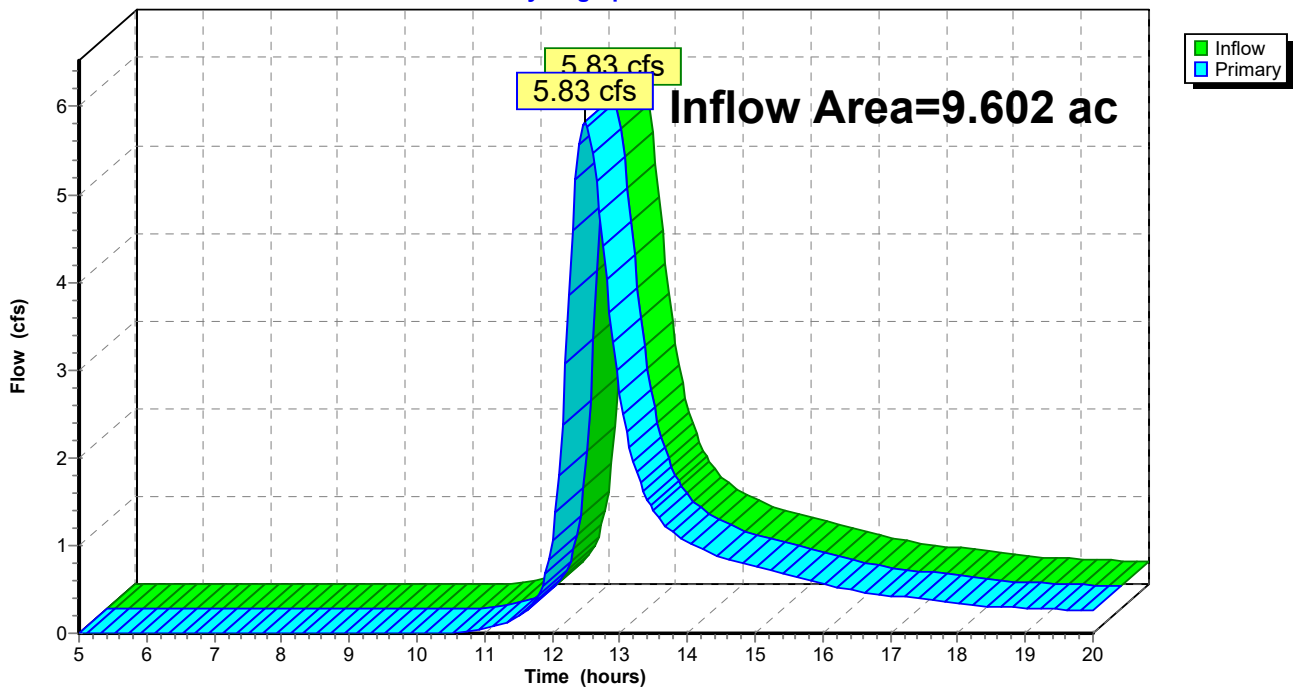
Summary for Pond SP-5: LYNCH LANE

Inflow Area = 9.602 ac, 4.54% Impervious, Inflow Depth > 0.92" for 2-YR event
Inflow = 5.83 cfs @ 12.49 hrs, Volume= 0.734 af
Primary = 5.83 cfs @ 12.49 hrs, Volume= 0.734 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 1P

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Pond SP-5: LYNCH LANE

Hydrograph



Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

| | |
|--------------------------------------|--|
| Subcatchment 10S: NE SITE | Runoff Area=141,255 sf 6.86% Impervious Runoff Depth>1.87" Flow Length=309' Tc=41.3 min CN=77 Runoff=3.74 cfs 0.506 af |
| Subcatchment 20S: E SITE | Runoff Area=219,616 sf 5.68% Impervious Runoff Depth>1.80" Flow Length=478' Tc=46.3 min CN=76 Runoff=5.25 cfs 0.755 af |
| Subcatchment 30S: SW SITE | Runoff Area=771,905 sf 2.84% Impervious Runoff Depth>1.79" Flow Length=1,362' Slope=0.0100 '/' Tc=56.8 min CN=76 Runoff=16.46 cfs 2.640 af |
| Subcatchment 31S: P ROAD | Runoff Area=48,416 sf 22.99% Impervious Runoff Depth>1.98" Flow Length=253' Tc=6.1 min CN=78 Runoff=2.71 cfs 0.183 af |
| Subcatchment 32S: P ROAD | Runoff Area=94,227 sf 27.69% Impervious Runoff Depth>2.13" Flow Length=227' Tc=6.3 min CN=80 Runoff=5.66 cfs 0.385 af |
| Subcatchment 40S: W SITE | Runoff Area=714,111 sf 1.05% Impervious Runoff Depth>1.76" Flow Length=860' Tc=91.5 min CN=76 Runoff=11.21 cfs 2.406 af |
| Subcatchment 50S: N SITE | Runoff Area=405,878 sf 3.41% Impervious Runoff Depth>1.88" Flow Length=325' Tc=31.9 min CN=77 Runoff=12.22 cfs 1.461 af |
| Subcatchment 51S: P ROAD | Runoff Area=12,377 sf 41.45% Impervious Runoff Depth>2.47" Tc=5.0 min CN=84 Runoff=0.88 cfs 0.058 af |
| Reach 31R: BARTLETT RD DITCH | Avg. Flow Depth=0.30' Max Vel=3.02 fps Inflow=2.71 cfs 0.183 af n=0.035 L=268.0' S=0.0373 '/' Capacity=139.17 cfs Outflow=2.54 cfs 0.183 af |
| Reach 32AR: SF AFTER LEVEL | Avg. Flow Depth=0.29' Max Vel=0.33 fps Inflow=5.66 cfs 0.385 af n=0.400 L=80.0' S=0.0750 '/' Capacity=84.16 cfs Outflow=4.91 cfs 0.382 af |
| Reach 32BR: OFFSITE POND | Avg. Flow Depth=0.19' Max Vel=1.60 fps Inflow=4.91 cfs 0.382 af n=0.050 L=103.0' S=0.0291 '/' Capacity=25.49 cfs Outflow=4.77 cfs 0.381 af |
| Reach 51R: SITE WETLAND | Avg. Flow Depth=0.10' Max Vel=0.48 fps Inflow=0.68 cfs 0.058 af n=0.080 L=392.0' S=0.0153 '/' Capacity=28.27 cfs Outflow=0.51 cfs 0.056 af |
| Reach 52R: SF AFTER LEVEL | Avg. Flow Depth=0.12' Max Vel=0.19 fps Inflow=0.88 cfs 0.058 af n=0.400 L=83.0' S=0.0723 '/' Capacity=14.54 cfs Outflow=0.68 cfs 0.058 af |
| Pond SP-1: LYNCH LANE | Inflow=3.74 cfs 0.506 af Primary=3.74 cfs 0.506 af |
| Pond SP-2: BARTLETT ROAD EAST | Inflow=5.25 cfs 0.755 af Primary=5.25 cfs 0.755 af |
| Pond SP-3: BARTLETT ROAD WEST | Inflow=17.83 cfs 3.204 af Primary=17.83 cfs 3.204 af |

POST 2023.10.23

Prepared by Terradyn Consultants

HydroCAD® 10.10-6a s/n 12055 © 2020 HydroCAD Software Solutions LLC

Type III 24-hr 10-YR Rainfall=4.30"

Printed 12/12/2023

Page 2

Pond SP-4: WESTERN SITE BOUNDARY

Inflow=11.21 cfs 2.406 af
Primary=11.21 cfs 2.406 af

Pond SP-5: LYNCH LANE

Inflow=12.57 cfs 1.517 af
Primary=12.57 cfs 1.517 af

Total Runoff Area = 55.275 ac Runoff Volume = 8.394 af Average Runoff Depth = 1.82"
95.52% Pervious = 52.800 ac 4.48% Impervious = 2.475 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

| | |
|--------------------------------------|--|
| Subcatchment 10S: NE SITE | Runoff Area=141,255 sf 6.86% Impervious Runoff Depth>2.49" Flow Length=309' Tc=41.3 min CN=77 Runoff=4.97 cfs 0.672 af |
| Subcatchment 20S: E SITE | Runoff Area=219,616 sf 5.68% Impervious Runoff Depth>2.40" Flow Length=478' Tc=46.3 min CN=76 Runoff=7.03 cfs 1.008 af |
| Subcatchment 30S: SW SITE | Runoff Area=771,905 sf 2.84% Impervious Runoff Depth>2.39" Flow Length=1,362' Slope=0.0100 '/' Tc=56.8 min CN=76 Runoff=22.03 cfs 3.527 af |
| Subcatchment 31S: P ROAD | Runoff Area=48,416 sf 22.99% Impervious Runoff Depth>2.61" Flow Length=253' Tc=6.1 min CN=78 Runoff=3.57 cfs 0.241 af |
| Subcatchment 32S: P ROAD | Runoff Area=94,227 sf 27.69% Impervious Runoff Depth>2.78" Flow Length=227' Tc=6.3 min CN=80 Runoff=7.35 cfs 0.502 af |
| Subcatchment 40S: W SITE | Runoff Area=714,111 sf 1.05% Impervious Runoff Depth>2.35" Flow Length=860' Tc=91.5 min CN=76 Runoff=15.01 cfs 3.216 af |
| Subcatchment 50S: N SITE | Runoff Area=405,878 sf 3.41% Impervious Runoff Depth>2.50" Flow Length=325' Tc=31.9 min CN=77 Runoff=16.23 cfs 1.939 af |
| Subcatchment 51S: P ROAD | Runoff Area=12,377 sf 41.45% Impervious Runoff Depth>3.16" Tc=5.0 min CN=84 Runoff=1.12 cfs 0.075 af |
| Reach 31R: BARTLETT RD DITCH | Avg. Flow Depth=0.35' Max Vel=3.28 fps Inflow=3.57 cfs 0.241 af n=0.035 L=268.0' S=0.0373 '/' Capacity=139.17 cfs Outflow=3.35 cfs 0.241 af |
| Reach 32AR: SF AFTER LEVEL | Avg. Flow Depth=0.33' Max Vel=0.36 fps Inflow=7.35 cfs 0.502 af n=0.400 L=80.0' S=0.0750 '/' Capacity=84.16 cfs Outflow=6.46 cfs 0.499 af |
| Reach 32BR: OFFSITE POND | Avg. Flow Depth=0.22' Max Vel=1.78 fps Inflow=6.46 cfs 0.499 af n=0.050 L=103.0' S=0.0291 '/' Capacity=25.49 cfs Outflow=6.26 cfs 0.498 af |
| Reach 51R: SITE WETLAND | Avg. Flow Depth=0.12' Max Vel=0.54 fps Inflow=0.88 cfs 0.074 af n=0.080 L=392.0' S=0.0153 '/' Capacity=28.27 cfs Outflow=0.68 cfs 0.072 af |
| Reach 52R: SF AFTER LEVEL | Avg. Flow Depth=0.14' Max Vel=0.21 fps Inflow=1.12 cfs 0.075 af n=0.400 L=83.0' S=0.0723 '/' Capacity=14.54 cfs Outflow=0.88 cfs 0.074 af |
| Pond SP-1: LYNCH LANE | Inflow=4.97 cfs 0.672 af Primary=4.97 cfs 0.672 af |
| Pond SP-2: BARTLETT ROAD EAST | Inflow=7.03 cfs 1.008 af Primary=7.03 cfs 1.008 af |
| Pond SP-3: BARTLETT ROAD WEST | Inflow=23.74 cfs 4.266 af Primary=23.74 cfs 4.266 af |

POST 2023.10.23

Prepared by Terradyn Consultants

HydroCAD® 10.10-6a s/n 12055 © 2020 HydroCAD Software Solutions LLC

Type III 24-hr 25-YR Rainfall=5.10"

Printed 12/12/2023

Page 4

Pond SP-4: WESTERN SITE BOUNDARY

Inflow=15.01 cfs 3.216 af
Primary=15.01 cfs 3.216 af

Pond SP-5: LYNCH LANE

Inflow=16.78 cfs 2.011 af
Primary=16.78 cfs 2.011 af

Total Runoff Area = 55.275 ac Runoff Volume = 11.180 af Average Runoff Depth = 2.43"
95.52% Pervious = 52.800 ac 4.48% Impervious = 2.475 ac

APPENDIX 5

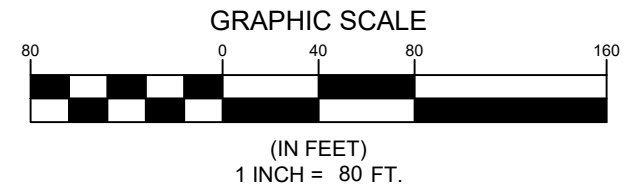
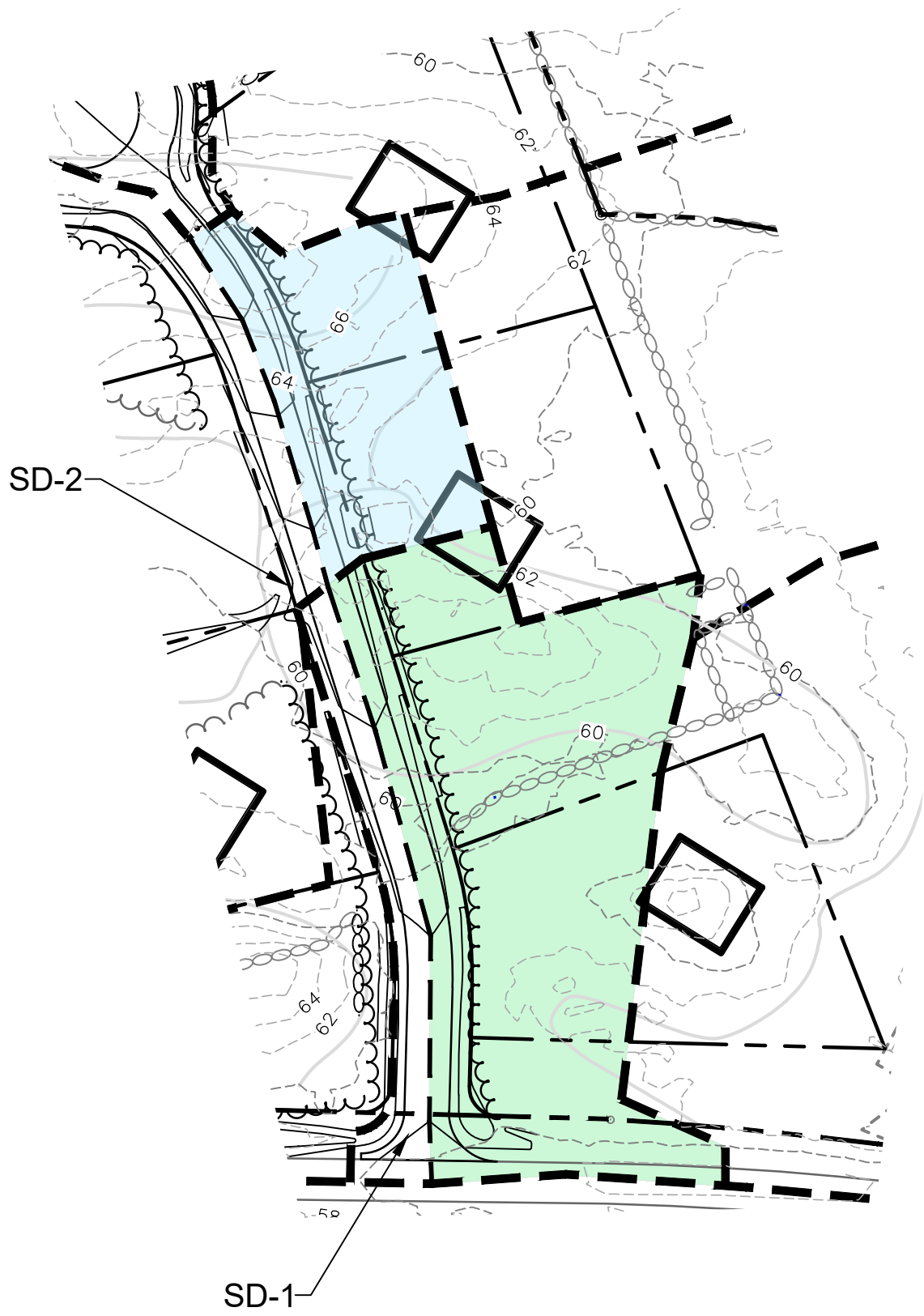
CULVERT SIZING

| SD-1 | | |
|-------------------|-----------|------|
| | AREA (SF) | C |
| BARTLETT ROAD | 342 | 0.95 |
| PROPOSED ROAD IMP | 3974 | 0.95 |
| PROPOSED ROAD LS | 8160 | 0.2 |
| LOT IMP | 2500 | 0.95 |
| LOT LS | 7500 | 0.2 |
| WOODS | 19420 | 0.18 |

| RATIONAL METHOD CALCULATION OF PEAK FLOW | | |
|---|-------------|-------------------------------------|
| SUM (SF) | 41896 | |
| SUM (ACRES) | 0.96 | |
| WEIGHTED C | 0.31 | |
| INTENSITY (IN/HR) 25-YR STORM | 5.1 | |
| Q (CFS) = C i A | 1.53 | |
| MANNINGS CALCULATION TO DETERMINE PIPE CAPACITY | | |
| SLOPE | 0.0078 | |
| PIPE DIAMETER (FT) | 1.25 | |
| PIPE AREA (SF) | 1.23 | |
| WETTED PERIMETER (FT) | 3.93 | |
| HYDRAULIC RADIUS (FT) | 0.313 | |
| N | 0.012 | |
| FULL FLOW CAPACITY (CFS) | 6.20 | GREATER THAN 25-YR PEAK RATE |

| SD-2 | | |
|-------------------|-----------|------|
| | AREA (SF) | C |
| PROPOSED ROAD IMP | 2163 | 0.95 |
| PROPOSED ROAD LS | 1723 | 0.2 |
| LOT IMP | 2500 | 0.95 |
| LOT LS | 5000 | 0.2 |
| WOODS | 4721 | 0.18 |

| RATIONAL METHOD CALCULATION OF PEAK FLOW | | |
|---|-------------|-------------------------------------|
| SUM (SF) | 16107 | |
| SUM (ACRES) | 0.37 | |
| WEIGHTED C | 0.41 | |
| INTENSITY (IN/HR) 25-YR STORM | 5.1 | |
| Q (CFS) = C i A | 0.78 | |
| MANNINGS CALCULATION TO DETERMINE PIPE CAPACITY | | |
| SLOPE | 0.01 | |
| PIPE DIAMETER (FT) | 1.25 | |
| PIPE AREA (SF) | 1.23 | |
| WETTED PERIMETER (FT) | 3.93 | |
| HYDRAULIC RADIUS (FT) | 0.313 | |
| N | 0.012 | |
| FULL FLOW CAPACITY (CFS) | 7.02 | GREATER THAN 25-YR PEAK RATE |



ADDRESS:
41 CAMPUS DRIVE, SUITE 301
NEW GLOUCESTER, ME 04260
PHONE:
(207) 926-5111
WEB SITE:
www.terradync consultants.com



Civil Engineering | Land Surveying | Geomatics
Stormwater Design | Land Planning | Environmental Permitting

SHEET DESCRIPTION:
CULVERT SIZING CALCULATIONS
PREPARED FOR:
WASHBURN FARM SUBDIVISION

JOB NO:
22-145

DATE:
12/12/2023

SCALE:
1" = 80'

SHEET:
1

OF:
1

APPENDIX 6

HOUSEKEEPING

HOUSEKEEPING PERFORMANCE STANDARDS

FOR:

Washburn Farm Subdivision

Kittery, MAINE

Project Developer: Beachwood Development Fund
P.O. Box 261
Kennebunk, ME 04043

Responsible Party: Beachwood Development Fund
P.O. Box 261
Kennebunk, ME 04043

Introduction:

The contractor shall be responsible for maintaining proper housekeeping standards throughout the construction phase of the project. After the construction phase has been completed, the owner or operator of the project will be responsible.

Standards:

In accordance with the housekeeping performance standards required by MDEP chapter 500 stormwater regulations, the following standards shall be met:

- 1. Spill prevention.** Controls must be used to prevent pollutants from being discharged from materials on site, including storage practices to minimize exposure of the materials to stormwater, and appropriate spill prevention, containment, and response planning and implementation.
- 2. Groundwater protection.** During construction, liquid petroleum products and other hazardous materials with the potential to contaminate groundwater may not be stored or handled in areas of the site draining to an infiltration area. An "infiltration area" is any area of the site that by design or as a result of soils, topography and other relevant factors accumulates runoff that infiltrates into the soil. Dikes, berms, sumps, and other forms of secondary containment that prevent discharge to groundwater may be used to isolate portions of the site for the purposes of storage and handling of these materials.
- 3. Fugitive sediment and dust.** Actions must be taken to ensure that activities do not result in noticeable erosion of soils or fugitive dust emissions during or after construction. Oil may not be used for dust control.

Operations during wet months that experience tracking of mud off the site onto public roads should provide for sweeping of road areas at least once a week and prior to significant storm events. Where chronic mud tracking occurs, a stabilized construction entrance should be provided. Operations during dry months, that experience fugitive dust problems, should wet down the access roads once a week or more frequently as needed.

- 4. Debris and other materials.** Litter, construction debris, and chemicals exposed to stormwater must be prevented from becoming a pollutant source.

To prevent these materials from becoming a source of pollutants, construction and post-construction activities related to a project may be required to comply with applicable

provision of rules related to solid, universal, and hazardous waste, including, but not limited to, the Maine solid waste and hazardous waste management rules; Maine hazardous waste management rules; Maine oil conveyance and storage rules; and Maine pesticide requirements.

- 5. Trench or foundation de-watering.** Trench de-watering is the removal of water from trenches, foundations, coffer dams, ponds, and other areas within the construction area that retain water after excavation. In most cases the collected water is heavily silted and hinders correct and safe construction practices. The collected water must be removed from the ponded area, either through gravity or pumping, and must be spread through natural wooded buffers or removed to areas that are specifically designed to collect the maximum amount of sediment possible, like a cofferdam sedimentation basin. Avoid allowing the water to flow over disturbed areas of the site. Equivalent measures may be taken if approved by the department.
- 6. Non-stormwater discharges.** Identify and prevent contamination by non-stormwater discharges.

APPENDIX 7

STORMWATER INSPECTION & MAINTENENACE



WASHBURN FARM SUBDIVISION KITTERY, MAINE

STORMWATER MANAGEMENT SYSTEM INSPECTION & MAINTENANCE PLAN

Project Owner/Developer: Beachwood Development Fund
P.O. Box 261
Kennebunk, Maine 04043
(207) 985-3646

Responsible Party: Owner or Homeowners Association

Prepared By: Terradyn Consultants, LLC
565 Congress Street, Suite 201
Portland, ME 04101
(207) 926-5111

INTRODUCTION:

Regular inspection and maintenance of the entire stormwater management system is crucial to the long-term effectiveness of the system. The responsible party must provide regular inspection and maintenance of all permanent erosion control measures and stormwater management structures, establish any contract services required to implement the program, and keep records and a maintenance log book of inspection and maintenance activities. At a minimum, the inspection and maintenance activities outlined herein should be performed at the recommended intervals. A rainfall event of 1" in a 24 hour period would trigger a wet weather post-construction inspection.

All measures must be maintained in effective operating condition. A person with knowledge of erosion and sedimentation practices, stormwater management, and the standards and conditions of all local, state and federal permits for the project shall conduct the inspections. The following areas, facilities, and measures must be inspected and identified deficiencies must be corrected.

INSPECTION TASKS

1. Inspect **vegetated areas**, particularly slopes and embankments, early in the growing season or after heavy rains to identify active or potential erosion problems. Replant bare areas or areas with sparse growth. Where rill erosion is evident, armor the area with an appropriate lining or divert the erosive flows to on-site areas able to withstand the concentrated flows.
2. Inspect **ditches, swales and other open stormwater channels** in the spring, late fall and after heavy rains to remove any obstructions to flow. Remove accumulated sediments and debris, control vegetated growth that could obstruct flow and repair any erosion of the ditch lining. Vegetated ditches must be mowed at least annually or otherwise maintained to control the growth of woody vegetation and maintain flow capacity. Any woody vegetation growing through riprap linings must also be removed. Repair any slumping side slopes as soon as practicable. If the ditch has a riprap lining, replace riprap on areas where any underlying filter fabric or underdrain gravel is showing through the stone or where stones have dislodged. The channel must receive routine maintenance to maintain capacity and prevent or correct any erosion of the channel's bottom or sideslopes.
3. Inspect **culverts** in the spring, in late fall, and after heavy rains to remove any obstructions to flow. Remove accumulated sediments and debris at the inlet, the outlet and within the culvert. Repair any erosion damage at the culvert's inlet and outlet.
4. Clear accumulations of winter sand **along roadways** at least once a year, preferably in the spring. Accumulations on pavement may be removed by pavement sweeping. Accumulations of sand along road shoulders may be removed by grading excess sand to the pavement edge and removing it manually or by a front-end loader. Grading of gravel roads, or grading of the gravel shoulders of gravel or paved roads, must be routinely performed to ensure that stormwater drains immediately off the road surface to adjacent buffer areas or stable ditches, and is not impeded by accumulations of graded material on the road shoulder or by excavation of false ditches in the shoulder.
5. Inspect **resource and treatment buffers** once a year for evidence of erosion, concentrating flow, and encroachment by development. If flows are concentrating within a buffer, site grading, level spreaders, or ditch turn-outs must be used to ensure a more even distribution of flow into a buffer. Check down slope of all spreaders and turn-outs for erosion. If erosion is present, adjust or modify the spreader or turnout lip to ensure a better distribution of flow into a buffer. Clean-out any accumulation of sediment within the spreader bays or turn-out pools.

DOCUMENTATION

Keep a log (report) summarizing inspections, maintenance, and any corrective actions taken. The log must include the date on which each inspection or maintenance task was performed, a description of the inspection findings or maintenance completed, and the name of the inspector or maintenance personnel performing the task. If a maintenance task requires the clean-out of any sediments or debris, indicate where the sediment and debris was disposed after removal. The permittee shall retain a copy of the log for a period of at least five years from the completion of permanent stabilization.

The log attached at the end of this plan is from the *Maine Erosion and Sediment Control Best Management Practices (BMPs) Manual for Designers and Engineers (May 2016)*. The log may be used or adapted for this project.

ATTACHMENTS:

Stormwater Management Facilities Inspection & Maintenance Log

Attachment 8

Vehicle Trip Generation Estimate



207.926.5111
info@terradynconsultants.com
www.terradynconsultants.com

Project #22-145

ESTIMATE OF TRAFFIC GENERATION

**BARTLETT ROAD SUBDIVISION
77 BARTLETT ROAD, KITTERY, MAINE**

The following traffic generation estimate is based on the Institute of Traffic Engineers (ITE) **Trip Generation Manual**, 11th Edition.

Land Use: Single Family Lot

| Time Period | Trip Rate | # Dwelling Units | Trips |
|--------------|--------------------|------------------|-------|
| AM Peak Hour | 0.75 Trips per lot | 9 | 7 |
| PM Peak Hour | 0.99 Trips per lot | 9 | 9 |

Attachment 9

Financial Capacity



August 2, 2023

Beachwood Development Fund LP
PO Box 261
Kennebunk

To whom it may concern:

This letter is to confirm you that Beachwood Development Fund LP and all of its subsidiaries, as of today's date August 2, 2023 have in their Camden National Bank Account have a balance over \$500,00, and is good standing at Camden National Bank.

If you have any questions, please don't hesitate to give me a call.

Michelle A. Dow

A handwritten signature in blue ink, appearing to read "Michelle A. Dow", with a long, sweeping flourish extending to the right.

Michelle A. Dow | Assistant Vice President
Kennebunk Banking Center Asst Manager
36 Portland Rd, PO Box 1130
Kennebunk, ME 04043
(207) 985-9222 ext 24260 (o)
(207) 230-4853 (m)
(207) 985-3233 (f)
NMLS# 456723
www.CamdenNational.com

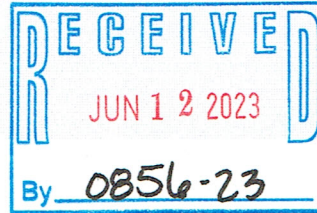


Attachment 10

Correspondence with State Agencies



207.926.5111
info@terradyconsultants.com
www.terradyconsultants.com



Project # 22-145

June 6, 2023

Kirk F. Mohney, Director
Maine Historic Preservation Commission
55 Capitol Street
65 State House Station
Augusta, ME 04333-0065

SUBJECT: BARTLETT ROAD REQUEST FOR PROJECT REVIEW

Dear Kirk:

Terradyn Consultants, LLC has been retained by Beachwood Development Fund LP to prepare subdivision plans and application materials for Bartlett Road Subdivision in Kittery, Maine. The proposed project includes 9 single family lots located on a 19.30 acre parcel. The project will include construction of 808 liner feet of road and installation of underground utilities and stormwater management infrastructure.

Attached is an excerpt of the USGS topographic map with the project site identified, as well as MHPC Building/Structure Forms for each of the two structures adjacent to the project that are believed to be more than fifty years old.

We are requesting that you review available information to determine if the project will have an impact on historic structures or archaeological resources. The information will be provided to the Town of Kittery as part of the application process.

Please contact me if you have any questions or if you need additional information to complete your review.

CLOSURE

If you have any questions or require additional information, please contact me at 207-632-9010 or mtw@terradyconsultants.com.

Sincerely,
TERRADYN CONSULTANTS, LLC

Michael Tadema-Wielandt, P.E.
Vice President

Based on the information submitted, I have concluded that there will be no historic properties affected by the proposed undertaking, as defined by Section 106 of the National Historic Preservation Act. Consequently, pursuant to 36 CFR 800.4(d)(1), no further Section 106 consultation is required unless additional resources are discovered during project implementation pursuant to 36 CFR 800.13.

Kirk F. Mohney,
State Historic Preservation Officer
Maine Historic Preservation Commission

6/21/23
Date



STATE OF MAINE
DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY

177 STATE HOUSE STATION
AUGUSTA, MAINE 04333

JANET T. MILLS
GOVERNOR

AMANDA E. BEAL
COMMISSIONER

June 15, 2023

Michael Tadema-Wielandt
Terradyn Consultants
565 Congress Street, Suite 201
Portland, ME 04101

Via email: mtw@terradyconsultants.com

Re: Rare and exemplary botanical features in proximity to: #22-145, Bartlett Road Subdivision, Kittery, Maine

Dear Michael Tadema-Wielandt:

I have searched the Maine Natural Areas Program's Biological and Conservation Data System files in response to your request received June 12, 2023 for information on the presence of rare or unique botanical features documented from the vicinity of the project in Kittery, Maine. Rare and unique botanical features include the habitat of rare, threatened, or endangered plant species and unique or exemplary natural communities. Our review involves examining maps, manual and computerized records, other sources of information such as scientific articles or published references, and the personal knowledge of staff or cooperating experts.

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

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

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

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

MOLLY DOCHERTY, DIRECTOR
MAINE NATURAL AREAS PROGRAM
BLOSSOM LANE, DEERING BUILDING



PHONE: (207) 287-8044
WWW.MAINE.GOV/DACF/MNAP

Letter to Terradyn
Comments RE: Bartlett Rd Subdivision, Kittery
June 15, 2023
Page 2 of 2

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

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

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

Sincerely,

Lisa St. Hilaire

Lisa St. Hilaire | Information Manager | Maine Natural Areas Program
207-287-8044 | lisa.st.hilaire@maine.gov

**Rare and Exemplary Botanical Features within 4 miles of
Project: #22-145, Bartlett Road Subdivision, Kittery, ME**

| Common Name | State Status | State Rank | Global Rank | Date Last Observed | Occurrence Number | Habitat |
|-------------------------------------|--------------|------------|-------------|--------------------|-------------------|---|
| Allegheny Vine | | | | | | |
| | E | S1 | G4 | 2013-10-08 | 15 | Rocky summits and outcrops (non-forested, upland),Dry |
| American Sea-blite | | | | | | |
| | T | S2 | G5 | 1905-08-18 | 6 | Tidal wetland (non-forested, wetland) |
| | T | S2 | G5 | 2014-07-30 | 11 | Tidal wetland (non-forested, wetland) |
| Beach Plum | | | | | | |
| | E | S1 | G4 | 1941-09-05 | 16 | Rocky coastal (non-forested, upland) |
| Bitternut Hickory | | | | | | |
| | E | S1 | G5 | 1995-02-02 | 1 | Hardwood to mixed forest (forest, upland) |
| Blunt Mountain-mint | | | | | | |
| | PE | SH | G5 | 1916-08-09 | 3 | Hardwood to mixed forest (forest, upland) |
| Bottlebrush Grass | | | | | | |
| | SC | S3 | G5 | 2018-07-13 | 28 | Hardwood to mixed forest (forest, upland) |
| Bulbous Bitter-cress | | | | | | |
| | SC | S1 | G5 | 2013-05-31 | 1 | Forested Wetland |
| Central Hardwoods Oak Forest | | | | | | |
| | | S3 | GNR | 2021-06-07 | 1 | |
| Coastal Dune-marsh Ecosystem | | | | | | |
| | | S3 | GNR | 2014-07-30 | 2 | |
| Dune Grassland | | | | | | |
| | | S2 | G4? | 1992-08-10 | 4 | |
| Dwarf Glasswort | | | | | | |
| | T | S1 | G5 | 1905-08-18 | 1 | Tidal wetland (non-forested, wetland) |
| | T | S1 | G5 | 2000-08-08 | 6 | Tidal wetland (non-forested, wetland) |

| | | | | | | |
|--------------------------|----|----|--------|------------|----|--|
| Dwarf Glasswort | | | | | | |
| | T | S1 | G5 | 2001-09-12 | 7 | Tidal wetland (non-forested, wetland) |
| Estuary Bur-marigold | | | | | | |
| | SC | S3 | G4 | 1936-07 | 10 | Tidal wetland (non-forested, wetland) |
| Featherfoil | | | | | | |
| | T | S1 | G4 | 2017-05 | 12 | Open water (non-forested, wetland),Forested wetland |
| Low Sedge Fen | | | | | | |
| | | S3 | GNR | 2013-06-28 | 18 | |
| Mountain-laurel | | | | | | |
| | SC | S2 | G5 | 1993 | 29 | Conifer forest (forest, upland),Hardwood to mixed forest |
| Northern Blazing Star | | | | | | |
| | T | S1 | G5?T3 | 1922 | 7 | Dry barrens (partly forested, upland) |
| Northern Wild Comfrey | | | | | | |
| | E | S1 | G5T4T5 | 2011-05-10 | 12 | Forested wetland,Hardwood to mixed forest (forest, |
| Oak - Hickory Forest | | | | | | |
| | | S1 | G4G5 | 2013-06-28 | 2 | |
| Pale Green Orchis | | | | | | |
| | SC | S2 | G4?T4Q | 1916-08-19 | 25 | Non-tidal rivershore (non-forested, seasonally wet),Open |
| Pocket Swamp | | | | | | |
| | | S2 | G5 | 2013-05-31 | 22 | |
| Rue-anemone | | | | | | |
| | E | S1 | G5 | 2003-05-23 | 2 | Hardwood to mixed forest (forest, upland) |
| Salt-hay Saltmarsh | | | | | | |
| | | S3 | G5 | 2014-07-30 | 7 | |
| | | S3 | G5 | 2010-07-07 | 19 | |
| Saltmarsh False-foxglove | | | | | | |
| | SC | S3 | G5 | 1960 | 4 | Tidal wetland (non-forested, wetland) |
| | SC | S3 | G5 | 1982 | 11 | Tidal wetland (non-forested, wetland) |
| | SC | S3 | G5 | 2010-10-22 | 19 | Tidal wetland (non-forested, wetland) |

| | | | | | | |
|---------------------------------|----|----|------|------------|----|--|
| Saltmarsh False-foxglove | | | | | | |
| | SC | S3 | G5 | 2000-08-08 | 25 | Tidal wetland (non-forested, wetland) |
| | SC | S3 | G5 | 2011-10-21 | 37 | Tidal wetland (non-forested, wetland) |
| | SC | S3 | G5 | 2011-10-21 | 38 | Tidal wetland (non-forested, wetland) |
| Sassafras | | | | | | |
| | SC | S2 | G5 | 1991-08-01 | 5 | Hardwood to mixed forest (forest, upland),Old field/ |
| | SC | S2 | G5 | 1905-08-18 | 11 | Hardwood to mixed forest (forest, upland),Old field/ |
| | SC | S2 | G5 | 2009-09-10 | 27 | Hardwood to mixed forest (forest, upland),Old field/ |
| Scarlet Oak | | | | | | |
| | E | S1 | G5 | 2006-08-02 | 7 | Hardwood to mixed forest (forest, upland) |
| Sharp-lobed Hepatica | | | | | | |
| | PE | SX | G5T5 | 1896-08-18 | 2 | Hardwood to mixed forest (forest, upland) |
| Slender Knotweed | | | | | | |
| | PE | SH | G5 | 1896-08-26 | 2 | Dry barrens (partly forested, upland) |
| Spicebush | | | | | | |
| | SC | S3 | G5 | 2006-08-03 | 2 | Forested wetland |
| | SC | S3 | G5 | 2001-07-20 | 19 | Forested wetland |
| | SC | S3 | G5 | 2009-07-14 | 20 | Forested wetland |
| Spotted Wintergreen | | | | | | |
| | T | S2 | G5 | 2000 | 21 | Conifer forest (forest, upland),Hardwood to mixed forest |
| | T | S2 | G5 | 2015-10-17 | 23 | Conifer forest (forest, upland),Hardwood to mixed forest |
| | T | S2 | G5 | 2005-04-10 | 25 | Conifer forest (forest, upland),Hardwood to mixed forest |
| | T | S2 | G5 | 2013-05-22 | 35 | Conifer forest (forest, upland),Hardwood to mixed forest |
| Stout Smartweed | | | | | | |
| | PE | SH | G4G5 | 1978-08-29 | 1 | |
| Swamp White Oak | | | | | | |
| | T | S1 | G5 | 1989-04 | 7 | Forested wetland |
| Tall Beak-rush | | | | | | |
| | E | S1 | G4 | 1938-09-08 | 1 | Open wetland, not coastal nor rivershore (non-forested, |

| Tidal Marsh Estuary Ecosystem | | | | | | |
|-------------------------------|-----|-----|------------|----|---|--|
| | S3 | GNR | 2009 | 5 | | |
| Water-plantain Spearwort | | | | | | |
| PE | SH | G4 | 1907-07-08 | 4 | Open water (non-forested, wetland) | |
| PE | SH | G4 | 1887-09-08 | 6 | Open water (non-forested, wetland) | |
| White Oak - Red Oak Forest | | | | | | |
| | S3 | GNR | 1995-07-27 | 3 | | |
| | S3 | GNR | 2012-06-06 | 11 | | |
| White Vervain | | | | | | |
| SC | S1? | G5 | 1905-08 | 1 | Hardwood to mixed forest (forest, upland),Open wetland, | |
| SC | S1? | G5 | 1887-08-25 | 4 | Hardwood to mixed forest (forest, upland),Open wetland, | |
| White-topped Aster | | | | | | |
| E | S1 | G5 | 1891 | 3 | Dry barrens (partly forested, upland) | |
| Wild Coffee | | | | | | |
| E | S1 | G5 | 2018-07-13 | 1 | Non-tidal rivershore (non-forested, seasonally | |
| E | S1 | G5 | 1961-07-25 | 6 | Non-tidal rivershore (non-forested, seasonally | |
| Wild Garlic | | | | | | |
| SC | S2 | G5 | 1983 | 9 | Forested wetland,Hardwood to mixed forest (forest, | |
| SC | S2 | G5 | 1990-07-31 | 19 | Forested wetland,Hardwood to mixed forest (forest, | |

Date Exported: 2023-06-15 15:36

Conservation Status Ranks

State and Global Ranks: This ranking system facilitates a quick assessment of a species' or habitat type's rarity and is the primary tool used to develop conservation, protection, and restoration priorities for individual species and natural habitat types. Each species or habitat is assigned both a state (S) and global (G) rank on a scale of critically imperiled (1) to secure (5). Factors such as range extent, the number of occurrences, intensity of threats, etc., contribute to the assignment of state and global ranks. The definitions for state and global ranks are comparable but applied at different geographic scales; something that is state imperiled may be globally secure.

The information supporting these ranks is developed and maintained by the Maine Natural Areas Program (state ranks) and NatureServe (global ranks).

| Rank | Definition |
|----------------------------|--|
| S1 G1 | Critically Imperiled – At very high risk of extinction or elimination due to very restricted range, very few populations or occurrences, very steep declines, very severe threats, or other factors. |
| S2 G2 | Imperiled – At high risk of extinction or elimination due to restricted range, few populations or occurrences, steep declines, severe threats, or other factors. |
| S3 G3 | Vulnerable – At moderate risk of extinction or elimination due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors. |
| S4 G4 | Apparently Secure – At fairly low risk of extinction or elimination due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats, or other factors. |
| S5 G5 | Secure – At very low risk of extinction or elimination due to a very extensive range, abundant populations or occurrences, and little to no concern from declines or threats. |
| SX GX | Presumed Extinct – Not located despite intensive searches and virtually no likelihood of rediscovery. |
| SH GH | Possibly Extinct – Known from only historical occurrences but still some hope of rediscovery. |
| S#S# G#G# | Range Rank – A numeric range rank (e.g., S2S3 or S1S3) is used to indicate any range of uncertainty about the status of the species or ecosystem. |
| SU GU | Unrankable – Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. |
| GNR SNR | Unranked – Global or subnational conservation status not yet assessed. |
| SNA GNA | Not Applicable – A conservation status rank is not applicable because the species or ecosystem is not a suitable target for conservation activities (e.g., non-native species or ecosystems). |
| Qualifier | Definition |
| S#? G#? | Inexact Numeric Rank – Denotes inexact numeric rank. |
| Q | Questionable taxonomy that may reduce conservation priority – Distinctiveness of this entity as a taxon or ecosystem type at the current level is questionable. The “Q” modifier is only used at a global level. |
| T# | Infraspecific Taxon (trinomial) – The status of infraspecific taxa (subspecies or varieties) are indicated by a "T-rank" following the species' global rank. |

State Status: Endangered and Threatened are legal status designations authorized by statute. Please refer to MRSA Title 12, §544 and §544-B.

| Status | Definition |
|-----------|---|
| E | Endangered – Any native plant species in danger of extinction throughout all or a significant portion of its range within the State or Federally listed as Endangered. |
| T | Threatened – Any native plant species likely to become endangered within the foreseeable future throughout all or a significant portion of its range in the State or Federally listed as Threatened. |
| SC | Special Concern – A native plant species that is rare in the State, but not rare enough to be considered Threatened or Endangered. |
| PE | Potentially Extirpated – A native plant species that has not been documented in the State in over 20 years, or loss of the last known occurrence. |

Element Occurrence (EO) Ranks: Quality assessments that designate viability of a population or integrity of habitat. These ranks are based on size, condition, and landscape context. Range ranks (e.g., AB, BC) and uncertainty ranks (e.g., B?) are allowed. The Maine Natural Areas Program tracks all occurrences of rare plants and natural communities/ecosystems (S1-S3) as well as exemplary common natural community types (S4-S5 with EO ranks A/B).

| Rank | Definition |
|-----------|---|
| A | Excellent – Excellent estimated viability/ecological integrity. |
| B | Good – Good estimated viability/ecological integrity. |
| C | Fair – Fair estimated viability/ecological integrity. |
| D | Poor – Poor estimated viability/ecological integrity. |
| E | Extant – Verified extant, but viability/ecological integrity not assessed. |
| H | Historical – Lack of field information within past 20 years verifying continued existence of the occurrence, but not enough to document extirpation. |
| X | Extirpated – Documented loss of population/destruction of habitat. |
| U | Unrankable – Occurrence unable to be ranked due to lack of sufficient information (e.g., possible mistaken identification). |
| NR | Not Ranked – An occurrence rank has not been assigned. |

Visit the Maine Natural Areas Program website for more information
<http://www.maine.gov/dacf/mnap>



Attachment 11

Abutter Notices



150 foot Abutters List Report

Kittery, ME
August 03, 2023

Subject Property:

Parcel Number: 62-26
CAMA Number: 62-26
Property Address: 77 BARTLETT ROAD

Mailing Address: BEACHWOOD DEVELOPMENT FUND LP
BEACHWOOD DEVELOPMENT FUND LP
PO BOX 261
KENNEBUNK, ME 04043

Abutters:

Parcel Number: 62-18
CAMA Number: 62-18
Property Address: PINKHAMS LANE

Mailing Address: REED, TED RAY REED, TED RAY
27 OLD GORDON ROAD
BRENTWOOD, NH 03833-6213

Parcel Number: 62-19
CAMA Number: 62-19
Property Address: 57 BARTLETT ROAD

Mailing Address: ICHOR REV. TRUST ICHOR REV. TRUST
P.O. BOX 102
KITTERY, ME 03904

Parcel Number: 62-23
CAMA Number: 62-23
Property Address: 65 BARTLETT ROAD

Mailing Address: PIERCE, PAUL R. PIERCE, PAUL R.
5361 MILL DAM ROAD
WAKE FOREST, NC 27587

Parcel Number: 62-23-1
CAMA Number: 62-23-1
Property Address: 67 BARTLETT ROAD

Mailing Address: KIMBALL, ROBERT W KIMBALL,
ROBERT W
67 BARTLETT ROAD
KITTERY POINT, ME 03905-5640

Parcel Number: 62-24A
CAMA Number: 62-24A
Property Address: 78 BARTLETT ROAD

Mailing Address: POWERS, COREY POWERS, COREY
78 BARTLETT ROAD
KITTERY POINT, ME 03905

Parcel Number: 62-26A
CAMA Number: 62-26A
Property Address: 69 BARTLETT ROAD

Mailing Address: RECU TR, KENNETH S RECU TR,
KENNETH S
KENNETH S RECU TRUST 69 BARTLETT
ROAD
KITTERY POINT, ME 03905-5640

Parcel Number: 62-29
CAMA Number: 62-29
Property Address: 82 BARTLETT ROAD

Mailing Address: PAARLBERG, WILLIAM T PAARLBERG,
WILLIAM T
82 BARTLETT ROAD
KITTERY POINT, ME 03905-5636

Parcel Number: 62-29-1
CAMA Number: 62-29-1
Property Address: 80 BARTLETT ROAD

Mailing Address: NILES, KEVIN A NILES, KEVIN A
80 BARTLETT ROAD
KITTERY POINT, ME 03905-5636

Parcel Number: 62-29-2
CAMA Number: 62-29-2
Property Address: 84 BARTLETT ROAD

Mailing Address: BARAN, ADAM W BARAN, ADAM W
84 BARTLETT ROAD
KITTERY POINT, ME 03905



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150 foot Abutters List Report

Kittery, ME
August 03, 2023

Parcel Number: 62-29-3
CAMA Number: 62-29-3
Property Address: 86 BARTLETT ROAD

Mailing Address: MICHAEL LANDGARTEN 2012 REV.
TRUST MICHAEL LANDGARTEN 2012
REV. TRUST
86 BARTLETT ROAD
KITTERY POINT, ME 03905

Parcel Number: 62-30
CAMA Number: 62-30
Property Address: 88 BARTLETT ROAD

Mailing Address: MARTIN, HENRY I MARTIN, HENRY I
88 BARTLETT ROAD
KITTERY POINT, ME 03905-5636

Parcel Number: 68-4A-1
CAMA Number: 68-4A-1
Property Address: 4 LYNCH LANE

Mailing Address: BLAKE, SHARON JEAN BLAKE, SHARON
JEAN
4 LYNCH LANE
KITTERY POINT, ME 03905

Parcel Number: 68-4A-2
CAMA Number: 68-4A-2
Property Address: 6 LYNCH LANE

Mailing Address: PELKEY, ROY N PELKEY, ROY N
6 LYNCH LANE
KITTERY POINT, ME 03905

Parcel Number: 68-4A-23
CAMA Number: 68-4A-23
Property Address: 10 LYNCH LANE

Mailing Address: KITTERY LAND TRUST INC KITTERY
LAND TRUST INC
PO BOX 467
KITTERY, ME 03904

Parcel Number: 68-4A-3
CAMA Number: 68-4A-3
Property Address: 7 LYNCH LANE

Mailing Address: FULLER, TR, MICHAEL FULLER, TR,
MICHAEL
7 LYNCH LANE
KITTERY POINT, ME 03905

Parcel Number: 68-4A-4
CAMA Number: 68-4A-4
Property Address: 81 BARTLETT ROAD

Mailing Address: HERSCOTT, MICHAEL JOSEPH
HERSCOTT, MICHAEL JOSEPH
81 BARTLETT ROAD
KITTERY POINT, ME 03905

Parcel Number: 68-4A-8
CAMA Number: 68-4A-8
Property Address: 9 LYNCH LANE

Mailing Address: FULLER, TR, MICHAEL FULLER, TR,
MICHAEL
7 LYNCH LANE
KITTERY POINT, ME 03905

Parcel Number: 68-4A-9
CAMA Number: 68-4A-9
Property Address: 11 LYNCH LANE

Mailing Address: MAY, GRETCHEN MAY, GRETCHEN
11 LYNCH LANE
KITTERY POINT, ME 03905

Parcel Number: 68-7
CAMA Number: 68-7
Property Address: 90 BARTLETT ROAD

Mailing Address: MCINTIRE, KYLIE R. MCINTIRE, KYLIE R.
90 BARTLETT ROAD
KITTERY POINT, ME 03905



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8/3/2023

Page 2 of 2



August 3, 2023

Project #22-145

Abutting Property Owner:

This is to inform you that Terradyn Consultants, LLC plans to submit a Preliminary Subdivision Application to the Kittery Planning Board for a 9-lot residential subdivision on the parcel located at 77 Bartlett Road in Kittery on behalf of the property owner, Beachwood Development Fund, LP.

The application will be available for review at the Planning and Development Department located in Town Hall at 200 Rogers Road. You can contact the Planning and Development department for more information on the application review process.

Sincerely,
TERRADYN CONSULTANTS, LLC

Michael Tadema-Wielandt, P.E.
Vice President



TOWN OF KITTERY MAINE

TOWN PLANNING AND DEVELOPMENT DEPARTMENT

200 Rogers Road, Kittery, Maine 03904

PHONE: (207) 475-1323

Fax: (207) 439-6806

www.kittery.org

APPLICATION: SUBDIVISION PLAN REVIEW

| | | | | | | | | | | |
|--------------------------------------|--|--|---|---|---|-----------------|---|-----------------|-------------|--|
| FEE FOR REVIEW: | <input checked="" type="checkbox"/> \$500.00 PLUS | <input checked="" type="checkbox"/> \$50.00/LOT OR DWELLING UNIT | <input type="checkbox"/> Minor Subdivision: not more than 4 lots | Fee Paid: \$ _____ Date: _____ | | | | | | |
| | | | <input checked="" type="checkbox"/> Major Subdivision: 5 or more lots | Escrow Fee Paid: \$ _____ Date: _____ | | | | | | |
| PROPERTY DESCRIPTION | Parcel ID | Map | 62 | Lot | 26 | Zone(s): Base: | R-RL _____ | Total Land Area | 19.11 acres | |
| | | | | | | Overlay | OZ-RP _____ Yes ___ No <input checked="" type="checkbox"/> | | | |
| | Physical Address: 77 Bartlett Road | | | | | | | | | |
| PROPERTY OWNER'S INFORMATION | Name | Beachwood Development Fund LP | | | | Mailing Address | P.O. Box 261 Kennebunk ME 04043 | | | |
| | Phone | 207-985-3646 | | | | | | | | |
| | Fax | | | | | | | | | |
| | Email | geoff@bowleybuilders.com | | | | | | | | |
| APPLICANT'S AGENT INFORMATION | Name | Michael Tadema-Wielandt, P.E. | | | | Mailing Address | Terradyn Consultants, LLC 565 Congress Street Suite 201 Portland ME 04101 | | | |
| | Phone | 207-632-9010 | | | | | | | | |
| | Fax | | | | | | | | | |
| | Email | mtw@terradyconsultants.com | | | | | | | | |
| PROJECT DESCRIPTION | Existing Use(s): The existing parcel is wooded with pockets of freshwater wetlands, and contains a single family residential home with a paved driveway accessing Bartlett Road. An old cemetery is located centrally to the southern half of the site. | | | | | | | | | |
| | Number of Proposed Lots | | 9 | | Subdivision Name | | Bartlett Road Subdivision | | | |
| | Proposed Subdivision: | | | | | | | | | |
| | Design: (check) | ___ Conventional | | Responsibilities: (check) | ___ Total Development | | ___ Landscaping | | | |
| | | <input checked="" type="checkbox"/> Cluster Development | | | ___ Other | | <input checked="" type="checkbox"/> Road | | | |
| | Ownership: (check) | <input checked="" type="checkbox"/> Fee- Simple | | | <input checked="" type="checkbox"/> Post-Construction Storm Water Runoff System Maintenance | | | | | |
| | | ___ Condominium | | | | | | | | |
| Homeowner's Association | <input checked="" type="checkbox"/> YES ___ NO | | | | | | | | | |
| | | | | | | | | | | |

WAIVER REQUEST (Submittal Information or Development Standard)

| | Ordinance Section | Describe why this request is being made. |
|---------|--|---|
| Waivers | ***EXAMPLE*** 16.32.560 (B)- OFFSTREET PARKING. | ***EXAMPLE*** Requesting a waiver of this ordinance since the proposed professional offices have a written agreement with the abutting Church owned property to share parking. |
| | | |
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Related Kittery Land Use and Development Code Provisions:

16.10.8.2.5 Conditions or Waivers.

Conditions required by the Planning Board at the final plan review phase must have been met before the final plan may be given final approval unless so specified in the condition or specifically waived, upon written request by the applicant, by formal Planning Board action wherein the character and extent of such waivers which may have been requested are such that they may be waived without jeopardy to the public health, safety and general welfare.

16.7.4.1 Objectives Met. In granting modifications or waivers, the Planning Board must require such conditions as will, in its judgment, substantially meet the objectives of the requirements so waived or modified.

ABUTTER NOTIFICATION

16.10.5.1.1. Preliminary Plan Application Filing and Completeness Review. ... The application must be accompanied by a Plan and the required fee together with a certification the applicant has notified abutters by mail of the filing of the Plan application for approval.

Submitted Application must include a list showing the names and addresses of the abutters notified and date mailed.

The Abutter Notice must include a copy of page one and where applicable page 2 of a signed Application.

| | | | |
|--|-------------------------|---------------------------------|-------------------------|
| 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. | | | |
| Applicant's Agent Signature: | <u>Michael E. White</u> | Owner's Agent Signature: | <u>Michael E. White</u> |
| Date: | <u>8/3/2023</u> | Date: | <u>8/3/2023</u> |

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67 BARTLETT ROAD
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84 BARTLETT ROAD
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88 BARTLETT ROAD
KITTERY POINT, ME 03905-5636

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Attachment 12

Draft HOA Documents

Declaration of Covenants, Conditions, Restrictions,
And Easements

For

Washburn Farm

KITTERY, MAINE

77 Bartlett Road, LLC
Declarant

December 28, 2023

**DECLARATION OF COVENANTS, CONDITIONS, RESTRICTIONS,
AND EASEMENTS
FOR
WASHBURN FARM, KITTERY, MAINE**

This Declaration of Covenants, Conditions, Restrictions, and Easements for Washburn Farm, Kittery, Maine (the “Declaration”) is made this 12th day of November 2023, by 77 Bartlett Road, LLC, a Maine limited liability company with an address of P.O. Box 261, Kennebunk, Maine 04043 (the “Declarant”).

WITNESSETH:

WHEREAS, the Declarant is the owner of certain parcels of land located in Kittery, Maine, being the same premises as conveyed to Declarant by Shirley Washburn by warranty deed dated August 29, 2022, and recorded in the York County Registry of Deeds in Book 19102, Page 372; and as on plan entitled “Washburn Farm Subdivision” drawn by Terradyn Consultants, LLC, dated xxx, 2023, revised through xxxxx x, 2023, and recorded in the York County Registry of Deeds in Plan Book xxx, ___ Page xx (the “Plan”), said parcels of land as shown on the Plan collectively referred to herein as the “Property”; and

WHEREAS, the Declarant is developing the parcels of land owned by it and shown on the Plan and has deemed it desirable to create a non-profit corporation to which should be delegated and assigned the authority to: (a) carry out certain responsibilities relating to the common facilities and amenities described herein and (b) administer and enforce the covenants, conditions, restrictions, easements, charges and liens set forth herein; and

NOW, THEREFORE, the Declarant declares that the Property is and shall be held, transferred, sold, conveyed and occupied subject to these covenants, conditions, restrictions, easements, charges and liens hereinafter set forth.

**ARTICLE 1
DEFINITIONS**

The following words, when used in this Declaration or any amendment thereto (unless the context shall prohibit) shall have the following meanings:

1.01. “Articles” shall mean and refer to the Articles of Incorporation which are or shall be filed in the Office of the Maine Secretary of State and which establish the Association.

1.02. “Assessment” shall mean a share of the funds required and which are to be assessed against an Owner and Lot for the payment of Common Expenses by the Association.

1.03. “Association” shall mean and refer to **Washburn Farm Owners Association**, a non-profit corporation organized and existing under the laws of the State of Maine. During the Declarant Control Period, the term “Association” shall be interchangeable in this document with “Declarant.”

1.04. "Board" shall mean and refer to the Board of Directors of the Association.

1.05. "By-Laws" shall mean and refer to the By-Laws of the Association and any amendments thereto.

1.06. "Common Expenses" shall mean the expenses for which each such owner is liable, which shall include, but not be limited to:

(a) expenses of maintaining, on a year-round basis, the subdivision road known as Washburn Farm Lane (as long as it is a private road),

(b) expenses of removing refuse from the Property,

(c) expenses of maintaining and landscaping the Common Property

(d) expenses of maintaining and repairing the Stormwater Management Facilities, including any detention pond(s), storm drainage system or other drainage system either now or in the future, in accordance with all State and local approvals and in accordance with the Maintenance Plan of Stormwater Management Facilities, entitled "Inspection, Maintenance, and Housekeeping Plan," attached hereto as Exhibit A and incorporated herein by reference.

(e) any taxes assessed on property owned by the Association,

(f) insurance as taken out by the Association and

(g) incidental costs of administration and enforcement of the covenants, conditions, restrictions, easements, charges and liens described herein.

1.07. "Common Property" shall mean the certain real and personal property designated for ownership by the Association and dedicated to the common use of owners, including, but not limited to Washburn Farm Lane (as long as it is a private road), common drainage facilities (if any), improvements installed by the Declarant pursuant to its reserved rights under Article 7, and common areas and open space owned by the Association.

1.08. "Declarant" shall mean and refer to 77 Bartlett Road, LLC, or its successors or assignees.

1.09. "Declarant Control Period" shall mean that period of time during which the Declarant owns any of the Property.

1.10. "Lot" shall mean and refer to the improved or unimproved residential numbered lots as shown on the Plan.

1.11. "Member" shall mean and refer to all Owners who shall be members of the Association in

accordance with the provisions of Article 6 hereof.

1.12. “Owner” shall mean and refer to the record owner, whether one or more persons or entities, of the fee simple title to any Lot, but, notwithstanding any applicable theory of title, the term Owner shall not include any mortgagee of a Lot until the mortgagee has acquired fee simple title pursuant to foreclosure or any proceedings in lieu of foreclosure.

1.13. “Plan” shall mean “Washburn Farm Subdivision” drawn by Terradyn Consultants LLC dated xxxxx , 2023 and recorded in the York County Registry of Deeds in Plan Book ___ Page .

1.14. “Property” shall mean those certain parcels of land owned by the Declarant and shown on the Plan.

ARTICLE 2

TERM OF DECLARATION

2.01. Term. This Declaration shall run with, apply to, and bind the Property in perpetuity and shall inure to the benefit of and be enforceable by the Declarant and Owners, as appropriate, and their respective legal representative, heirs, successors and assignees, except that the covenants and restrictions in Article 3 shall have an initial term of 20 years from the date this Declaration is recorded in the York County Registry of Deeds, at the end of which such covenants and restrictions shall be automatically extended for successive periods of 5 years, unless at least two-thirds of the Owners vote to terminate any or all of said covenants and restrictions at a duly noticed and held meeting in compliance with the provisions of the By-Laws of the Association.

2.02. Persons Bound. Unless otherwise indicated, all covenants, conditions restrictions, easements, charges and liens herein are imposed on, charged on, and run with the land and bind not only the original purchaser of the Lots in the Property, but also their assignees, guarantees, legal representative, heirs and mortgagees. Failure to specifically refer to and include or incorporate this Declaration in deeds to Lots in the Property shall not in any manner affect the validity and effectiveness of this Declaration upon any Lot made subject thereto.

ARTICLE 3

GENERAL COVENANTS AND RESTRICTIONS ON PROPERTY LOTS

3.01. No Lot shall be further subdivided, except that lot line revisions shall be permitted so long as they do not result in additional lots or dwelling units. Any such revision is required to be approved by the Declarant during the Declarant Control Period.

3.02. Each Lot shall contain only 1 single-family residential structure, which may include 1 dwelling and 1 garage building except that suitable garden structures (including greenhouses), utility sheds, swimming pools and such additional structures as shall from time to time be used in connection with single family houses situated in similar neighborhoods shall also be permitted. Attached or detached guest quarters may be permitted if in compliance with all state and local regulations, but subject to review pursuant to section 3.04. Tennis courts shall only be

allowed if located and constructed to minimize noise and must be approved by the Declarant or Association as the case may be pursuant to section 3.04. No building or structure of any kind except for the aforementioned residential structures shall be erected, used, maintained, or allowed to stand on a Lot. Each residence shall contain a minimum of **1,500** square feet of interior climate-controlled space excluding porches, garages and finished basement or attic. Any home builder approved for construction must carry a minimum of \$1,000,000 in liability insurance.

3.03 a) Declarant reserves the right to require lot owners to use its preferred builder or builders to construct their dwellings on all lots in the subdivision. Prior to execution of any contract for construction of a dwelling, each lot owner shall provide Declarant with the construction plans and specifications for the lot owner's dwelling and shall entertain a bid from the preferred builder(s) for review and discussion and shall give the bid reasonable consideration before executing a contract for construction of a dwelling on their lot. In the event that a lot owner elects not to use the preferred builder(s), such lot owner shall pay the sum of \$20,000.00 to Declarant in consideration for a waiver of Declarant's right hereunder. Declarant may waive the \$20,000.00 payment in the event the preferred builder(s) determines that it cannot commence construction on the lot owner's dwelling within ninety (90) days.

b) In the event that the preferred builder(s) does not construct the dwelling on a particular lot, the owner of such lot shall deposit the sum of \$10,000.00 in escrow with Declarant's listing broker or make some other arrangement agreeable to Declarant, to ensure completion of landscaping in accordance with said lot owner's approved landscaping plan. In the event the escrow is required, said monies may be released, in Declarant's discretion, to pay for landscaping, or may be held by Declarant until landscape is complete and then paid to said lot owner. The \$10,000.00 shall be paid at or before the time said lot owner or its contractor obtains a building permit to begin construction of the dwelling. Said monies shall be deposited in a non-interest bearing account.

c) Any builder approved to construct a dwelling, including the preferred builder(s), shall carry liability insurance with minimum limits of \$1,000,000.00 and will, prior to commencement of construction, provide to declarant a certificate of insurance evidencing such coverage.

3.04. No residence, garage or other structure shall be erected nor shall any portion of a Lot be cleared until plans have been submitted to and approved by the Declarant or (after turnover of control pursuant to section 6.08) the Association. Owners shall submit to the Declarant or Association (as the case may be) site development plans that show the location of new structures, driveways, and other paved areas, and, after initial construction, any exterior modification, addition or deletion of any such structure, and any new proposed structures. Within 10 business days of the submission of any plan(s), the Declarant/Association shall certify in recordable form that: (1) the plan(s) are approved; or (2) the plan(s) are not approved as submitted, in which case the Declarant/Association shall give the Owner written notice of suggestions for modification whereby such plan may be made acceptable.

Plan submittal will include a site plan, list of materials to be used, exterior colors, landscaping of land and exterior design of any structure with proposed changes to the exterior.

a) Removal of flora shall be in accordance with section 3.12 and shall be minimized to

- protect the privacy of other Owners.
- b) The exterior of any structure shall be finished in brick or stone masonry, wood clapboards or wood shingles only.
 - c) The use of artificial brick or stone composition, pressure treated wood, pre-cast steps, vinyl siding (excluding vinyl/pvc trim for windows, doors, soffits, fences and other miscellaneous uses), “texture 111” or their equivalents shall not be permitted.
 - d) All buildings, including accessory buildings, shall be set back 20 feet from the front lot line, 10 feet from the side lot lines, and 15 feet from the rear lot lines.
 - e) Fireplace boxes and exterior chimneys shall be composed of brick or real stone only, however, for roof top chimneys cultured stone will be allowed.
 - f) Above ground pools, portable or stationary basketball goals, satellite dishes greater than 24 inches in diameter and/or visible from the street and antennas are prohibited.
 - g) Lots shall be landscaped in reasonable conformity with other Lots in the Property.

Once construction is commenced, work must be prosecuted diligently and must be completed within a reasonable time, and in any event, within 2 years from commencement of said work. Any blasting or use of other explosives must be in accordance with Town of Kittery processes and notifications. In addition, all Owners must be notified prior to the use of any explosives. “Completion” shall include finished grading and loaming, if applicable to the work undertaken, including the original construction of any residence. Landscaping of a new or renovated residence must be completed within 120 days from the date of certificate of occupancy, weather permitting. These criteria shall be construed by the Declarant/Association to effectuate the intent of perpetuating a friendly and accommodating neighborhood.

3.05. Lot grades shall not be changed in such a way as to divert the natural flow of water onto adjoining Lots, roads and common drainage systems, with a resulting adverse effect thereon.

3.06. No building or structure shall be erected or used, and no lot shall be used, except in conformity with all land use requirements of the State of Maine and the Town of Kittery (including any conditions of approval imposed by the Kittery Planning Board).

3.07. Tents for parties or similar events shall be allowed for no longer than three days; no other tents or similar shelter shall be erected or maintained on any Lot at any time. No temporary structures of any kind are permitted. No trash or garbage, bottled gas, or other fuel containers placed on any Lot shall be visible from the road. All items such as boats, snowmobiles and other personal property should be stored inside a permitted structure. The Association may waive any of the provisions of this paragraph for good cause shown.

3.08. All motor vehicles must be registered, and must be stored in a garage on a Lot; provided, however, that temporary parking of motor vehicles shall be permitted in driveways. Even if registered, no vehicle or any parts of vehicles which may be defined as scrap, junk, discarded, worn out, or not in operating condition shall be maintained or permitted upon the Property.

3.09. Any outside clothes line must be positioned at the rear of the house in such a way to minimize its visibility from the street or other Lots.

3.10. The keeping of animals, poultry, swine, horses or livestock is prohibited. Dogs must be leashed or under voice command at all times while on the Property, except while on their owner's property. It is the owner's responsibility to ensure the dog remains within the perimeter of the owner's Lot when not leashed. No dog shall be left on a tether at any time. Dog owners or caretakers are required to remove pet feces when their animals' foul common areas and private property of other Owners.

3.11. No trees larger than 5 inches in diameter measured at a height of 4 feet from the ground shall be cut, trimmed or altered if located within 15 feet of Washburn Farm Lane or any Lot line, without prior written authorization of the Declarant or Association as the case may be. Consent shall be granted for removal of flora necessary for the construction or maintenance of any structure otherwise permitted hereunder.

3.12 Wetlands on any parcel will not be filled except as approved by the Kittery Planning Board.

3.13. A Lot shall be used for private residential purposes only pursuant to the Town of Kittery zoning ordinance, and no commercial, manufacturing or industrial use shall be permitted at any time.

3.14. Nothing shall be done or permitted to be done on the Property which may be or become a nuisance to the other Owners.

3.15. Electric, telephone and cable television services shall be provided underground only.

3.16. In addition to any other remedies provided to the Association herein, upon the breach of any covenant contained in this Article 3 by any Owner, Guest, Tenant, or Invitee (for all of whose actions an Owner shall be liable as if committed directly by the Owner), the Board, on behalf of the Association, shall notify said Owner by certified mail of such breach, and include a reasonable description of the actions necessary to correct or cure such breach. If said Owner does not take such corrective action within 7 days from receipt of said notice, or within said time period object to the proposed action to be taken, the Board shall, without further notice, be entitled to take such action as set forth in the Notice and to surcharge as a special assessment said Owner for all necessary and incidental expenses, including attorney's fees, incurred in taking such corrective action. In addition, upon notice to an Owner and opportunity to be heard, the Board may impose reasonable per diem fines for any such breach, which shall be immediately due and payable as a special assessment upon the Lot affected.

3.17. In additional to its authority to fine Lot Owners as set forth in section 3.16, the Association may proceed at law or in equity against any persons violating or attempting to violate any covenants, either to restrain violation or to recover damages. If the Association successfully enforces any of these covenants through such an action, it shall be entitled to recover against the party violating such covenant(s) reasonable attorney's fees and costs incurred in such enforcement proceeding.

3.18. The Association recognizes that lawn and ornamental shrub care is a prominent and

important part of the home landscaping, and that the location of this subdivision requires special attention to the environment and surrounding wetlands. Accordingly, the following practices and guidelines shall be incorporated into any contract that the Declarant and/or Association may enter into regarding lawn, ornamental shrub and tree care:

(a) When establishing new lawns, select a top soil such that its depth, soil texture and percent organic matter are effective in absorbing fertilizers and pesticides. A soils test is suggested to determine lime and fertilizer requirements. All lawn establishments shall be in accordance with the State of Maine Department of Environmental Protection "Best Management Practices for the Application of Turf Pesticides and Fertilizers," as the same may be amended from time to time.

(b) Calibrate fertilizer and pesticide equipment in order to assure the desired application rate is being applied.

(c) Maintain soil conditions such as adequate drainage and aeration which favor microorganism activity since they are important for decomposing pesticides in the soil.

(d) Reduce the need of pesticides by following recommended horticultural practices such as proper mowing and watering which maintain a dense vigorous lawn.

(e) Use minimum dosage of pesticides to achieve adequate pest control. Read and follow the instruction on the label.

(f) Select pesticides and fertilizers that are resistant to leaching. When possible, use fertilizers that have a "slow release" or less soluble sources of nitrogen.

(g) To avoid runoff and leaching, do not apply pesticides just prior to heavy rainfall. Do not spray on windy days.

(h) When applicable, apply fertilizers and pesticides during periods of active turf growth for improved uptake by the plant.

(i) All fertilizers, pesticides, and herbicides used within the subdivision shall be certified organic.

3.19. A Lot Owner may not lease his/her house for a period of less than one (1) week, nor shall a Lot Owner lease less than his/her entire house. The rights of any occupant of a Lot shall be subject to, and each such occupant shall be bound by, the covenants, conditions and restrictions set forth in this Declaration, and in the By Laws and the Rules and Regulations, if any, of the Association. The Lot Owner shall provide any occupant with a copy of the Rules and Regulations of the Association. All leases or rentals of a Lot must be in writing, signed by Lot Owner and the tenant. A copy of the signed lease or rental agreement, including a signed copy of the Rules and Regulations, if any, shall be provided to the Secretary of the Association prior to occupancy by the tenant.

3.20. No clearing of vegetation or land disturbance shall take place within 100' of wetlands located on and adjacent to the Property, except for removal of dead, dying, or diseased trees, or as shown on the drawings approved by the Kittery Planning Board.

ARTICLE 4

COMMON PROPERTY AND EASEMENTS

4.01. Members' Easement of Enjoyment. Subject to the provisions of this Declaration, and the By-Laws and Rules and Regulations of the Association, every Owner shall have the rights set forth in this Article, which shall be appurtenant to and shall pass with the title to every Lot.

4.02. Title to Common Property. Declarant **shall grant** to the Association the fee in and to Washburn Farm Lane as the same is presently constructed, subject to the terms and conditions set forth in this Declaration. Declarant reserves additional rights to convey additional land, property, rights, and easements to the Association as Common Property as set forth in Article 7. Open Space of the subdivision will also be conveyed to the Association.

4.03. Easements. The Common Property shall be subject to the following easements and rights:

(a) Every Owner shall have such rights in the Common Property as granted to the Association for their use, subject to the right of the Board to promulgate rules and regulations for the protection, use and enjoyment of the Common Property or to suspend the voting rights of any Owner for any period during which any Assessment remains unpaid.

(b) The Association shall have the right to dedicate or transfer any part of any common open space or natural buffer areas to the Town of Kittery or a conservation organization, or to dedicate or transfer ownership of Washburn Farm Lane after the fee interest therein is transferred to it from Declarant.

(c) During the Declarant Control Period, the Declarant reserves a non-exclusive, transferable easement, without limitation or restriction, to facilitate development of the Property. Such easement shall include the right to construct, connect to and use access ways and roadways, utilities, walkways, drainage swales and culverts and other portions of the Property in connection with the construction of improvements and for necessary or desirable access and utility service to and from adjacent and nearby properties, including the Common Property conveyed to the Association.

(d) During the Declarant Control Period, the Declarant reserves a blanket non-exclusive easement, in, upon, over, under, across, and through the Property for the purpose of installation, maintenance, repair and replacement of all utility lines and any other equipment and machinery necessary or incidental for the proper function of any utility systems serving the Property, which easements may be specifically conveyed by Declarant to a public utility or municipality supplying the service. The easements created by this section shall include, without limitation, rights of the Declarant or the appropriate

utility or service company or governmental agency or authority to install, lay, maintain, repair, relocate and replace gas lines, pipes and conduits, water mains and pipes, sewer and drain lines, drainage ditches and pump stations, telephone wires and equipment, television equipment and facilities (cable or otherwise), electrical wires, conduits, equipment, ducts and vents over, under, through, along and on the Lots and Common Property. Notwithstanding the foregoing, no such easement shall unreasonably interfere with the use or occupancy of any residence on a Lot.

(e) During the Declarant Control Period, the Declarant reserves a blanket and non-exclusive easement in, upon, over, under, through and across the Property as long as the Declarant, its successors and assignees shall be engaged in the construction, development and sale of Lots within the Property, for the purpose of construction, installation, maintenance and repair of existing and future building and related activities, including extension of and connection with Property roads and utility systems for such development.

4.04. Use and Maintenance of Washburn Farm Lane; Common Expenses. Each Lot shall be benefited with a nonexclusive right and easement to use the private roadway known as “Washburn Farm Lane” which provides access from Bartlett Road. The Common Expenses shall include each Owners’ proportionate share of the costs of maintenance, repair and replacement of Washburn Farm Lane, the costs of maintenance, repair and replacement of other improvements and common areas as they may be added from time to time, and other costs set forth in section 1.06. Such proportionate share shall be allocated in accordance with the number of Lots in the Property, the liability for which shall commence for each Lot at the time the Declarant transfers ownership of a numbered lot shown on the Plan to a third party. Until the first numbered Lot shown on the Plan is transferred to a third party, the Declarant shall pay all of such costs.

4.05 Use of Open Spaces and Improvements. Each Lot shall be benefited with nonexclusive rights and licenses to (1) use the open space and natural buffer areas identified on the Plan and (2) use additional improvements, all as the Association may grant from time to time pursuant to transfers of ownership to it from the Declarant and in accordance with any Rules and Regulations adopted by the Association, but subject to the right of the Association to withdraw or modify the same due to requirements of the Town of Kittery Planning Board or the vote of the membership.

4.06 Wetland Buffer Areas. No clearing of vegetation or land disturbance shall take place within 100’ of wetlands located on and adjacent to the Property, except for removal of dead, dying, or diseased trees, or as shown on the drawings approved by the Kittery Planning Board for construction and maintenance of Washburn Farm Lane and common stormwater management infrastructure.

ARTICLE 5
ASSESSMENTS

5.01. General. The making and collecting of Assessments against Owners for Common Expenses shall be pursuant to the By-Laws of the Association.

5.02. Share of the Common Expenses. Each Lot shall be liable for an equal share of the Common Expenses, including special assessments, to commence as set forth in section 4.04. Each Owner shall be singly responsible for the payment of any fines or penalties levied with respect to such Lot, due as a special assessment immediately upon imposition thereof.

5.03. Annual Assessment. The annual Common Expenses incurred for operation, maintenance, improvement and repair of the Common Property shall be estimated in accordance with the By-Laws of the Association. An annual Assessment will be payable in a once-yearly estimated installment based on the projected annual Common Expenses, adjusted for credits or additional payments as the Board determines from time to time, to reflect actual expenses. This annual Assessment shall be due in a single payment within 30 days of adoption of the estimated budget; additional assessments for adjusted expenses shall be due within 30 days of adoption thereof. The Board of Directors, or the members of the Association by majority vote, may change the yearly assessment to monthly or quarterly payments.

5.04. Non-Waiver. The liability for Assessments may not be avoided by waiver of the use or enjoyment of any Common Property or by the abandoning of a Lot for which an Assessment is made.

5.05. Interest; Application of Payment. Assessments and installments of such Assessments paid on or before 30 days after the date when due shall not bear interest, but all sums not paid on or before 30 days after the date when due shall bear interest at the rate of 18% per annum (or the maximum annual rate permissible under law) from the date when due until paid. All payments on accounts shall be first applied to costs of collection pursuant to 5.06 below, interest, and then to the Assessment first due.

5.06. Lien for Assessments. The Association shall have a lien on a Lot and all improvements thereon, for any unpaid Assessments levied by the Association, together with interest thereon and for attorneys' fees incurred by the Association, to the extent allowable by law, incident to the collection of such Assessments or the enforcement of such lien. The Board, on behalf of the Association, may bring an action at law against the Owner personally obligated to pay the same, or foreclose the lien against the property in the same manner and with the same priority as a condominium lien for assessments pursuant to 33 M.R.S. §1603-116. This lien shall be prior to any other lien against the property other than a first mortgage lien of record, and statutory liens for real estate taxes and sewer assessments, all as set forth in the aforementioned statute. No Owner may waive or otherwise escape liability for the Assessments provided for herein by non-use of the Common Property or abandonment of such Owner's Lot.

5.07. Certificate to be Issued. The Board shall upon demand furnish a certificate in recordable form setting forth whether the Assessments on a specified Lot have been paid. The Owner on behalf of whom the request was made shall be responsible for a reasonable fee for providing the certificate, as determine by the Board from time to time.

5.08. Collection and Foreclosures. The Board may take such action as they deem necessary to collect Assessments of the Association by personal action, or by enforcing the foreclosing interests of the Association.

ARTICLE 6
BARTLETT ROAD OWNERS ASSOCIATION

6.01. Association. In order to provide for the proficient and effective administration of the Property by the Owners, a non-profit corporation known and designated as **Washburn Farm Home Owners Association** has been organized under the laws of the State of Maine, and said corporation shall administer the operation and management of the Property and undertake and perform all actions and duties incident thereto and in accordance with the terms, provision and conditions of this Declaration and in accordance with the terms of the Articles of Incorporation of the Association, its By-Laws and Rules and Regulations promulgated by the Association from time to time.

6.02. Articles of Incorporation. The Articles of Incorporation of the Association shall be filed with the Maine Secretary of State.

6.03 Limitation Upon Liability of Association. Notwithstanding the duty of the Association to maintain or repair portions of the Property, the Association shall not be liable to any Owner for liability or damage, other than the costs of maintenance and repair, caused by any latent condition of the property to be maintained and repaired by the Association, or caused by the elements or other Owners or persons.

6.04. Restraint Upon Assignment of Shares and Assets. The share of a Member in the funds and assets of the Association cannot be assigned, hypothecated or transferred in any manner, except as an appurtenance to a Member's Lot.

6.05. Approval or Disapproval of Matters. Voting shall be done in accordance with the adopted By-Laws.

6.06. Membership. The Owners shall be Members of the Association and no other persons or entities, except for the Declarant, shall be entitled to membership. Membership in the Association shall be established by acquisition of ownership of a fee title interest in a Lot (or other interest in a Lot if approved by the Board), whether by conveyance, devise, judicial decree, foreclosure or otherwise, subject to the provision of this Declaration and by the recordation in the York County Registry of Deeds of the deed or other instrument establishing the acquisition and designating the Lot affected thereby and by the delivery to the Association of a true copy of such recorded deed or other instrument. The new Owner designated in such deed or other instrument shall thereupon become a Member of the Association and the membership of the prior Owner as to the Lot designated shall be irrevocably and automatically terminated. Notwithstanding the foregoing, the Declarant shall be a Member during the Declarant Control Period or until Declarant voluntarily relinquishes membership in the Association, whichever occurs first.

6.07. Voting. Except as otherwise set forth in this Declaration or By-Laws regarding Declarant's voting rights, on all matters to which the members shall be entitled to vote, there shall be only one vote for each Lot. When more than one Owner holds an interest in any Lot, the vote for such Lot shall be exercised as they among themselves determine by majority, but in no event shall more than one vote be cast with respect to any Lot. If the Owners disagree equally, one half vote shall be voted for the pending issue, and one half vote shall be voted against it.

6.08. Control by Declarant. Notwithstanding the foregoing or anything contained in this Declaration to the contrary, Declarant shall have the sole and exclusive right to appoint officers and directors to the Board during the Declarant Control Period or until Declarant voluntarily transfers control of the Association to the Members, whichever occurs first. During the period of control as set forth herein, Members of the Association, otherwise qualified hereunder, shall have non-voting membership, unless the provisions of this sentence expressly are waived relative to a particular issue by a writing signed by the Declarant. Upon Declarant turning control of the Association over to the Members as provided herein, it shall file appropriate documents in the York County Registry of Deeds. Until any particular improvement is transferred by the Declarant to the Association, the Declarant shall be solely liable for costs associated with the same, and for injury or damage to persons and property arising from the construction and installation of the same.

6.09. Authority of the Board. The Board shall act for the Association in all matters except for:

1. the disposal of any real property,
2. the election of Board members,
3. the amending of this Declaration and
4. the adoption of By-Laws.

ARTICLE 7

RIGHTS RESERVED TO THE DECLARANT

7.01. Right to submit Property to Kittery Planning Board. During the Declarant Control Period, the Declarant reserves the right to submit all or any portion of the Property to review by the Kittery Planning Board and related governmental entities as a residential subdivision. The Declarant may make such submittals at any time, in any order, in stages or singly.

7.02. Right to make improvements and transfer to Association. During the Declarant Control Period, the Declarant reserves the right, whether or not required by the Town of Kittery pursuant to Planning Board review, to (1) make improvements to Washburn Farm Lane, (2) install drainage swales, culverts, ponds and other drainage facilities, and (3) construct and install improvements to the Property, including but not limited to an entrance way, and upon completion of the same, transfer ownership and title to the Association, which shall accept the same for inclusion in its budget for maintenance and repair.

7.03. Right to add or subtract land as common area for various purposes. During the

Declarant Control Period, the Declarant reserves the right to add, modify, relocate or subtract land (other than the right of way known as Washburn Farm Lane) as Common Property as Declarant deems desirable, whether or not required by the Town of Kittery Planning Board review, and to transfer ownership of any additional Common Property to the Association upon such terms, conditions and restrictions as Declarant may designate; following such transfer, the Association shall accept the same for inclusion in its budget for maintenance and repair. The Declarant also reserves the right during such time to transfer fee simple interest in Washburn Farm Lane to the Association.

7.04. Right to cut additional flora. During the Declarant Control Period, the Declarant reserves the right to cut and/or trim such additional flora on the Property located within the Subdivision Open Space as may be permitted by the Town of Kittery Land Use Ordinance and the Kittery Planning Board approval. Declarant shall determine which flora shall be cut or trimmed during the Declarant Control Period; thereafter, the Association shall have the sole authority to determine which flora shall be cut and/or trimmed in said zone, in full compliance with applicable state and local law, and by these presents, Declarant hereby transfers such authority to the Association with respect to any portion of any Lot falling within said zone. Individual Owners shall not cut or trim such flora at any time. However, the cost of cutting within the Open Space shall be assessed solely to the Owners whose views are benefited thereby.

7.05. Right to dedicate or transfer Property to Town of Kittery or private conservation organization. During the Declarant Control Period, the Declarant reserves the right to dedicate or transfer any portion of the Property other than a conveyed Lot (including Washburn Farm Lane) to any governmental authority or private conservation organization, whether or not required by the Town of Kittery Planning Board. The Declarant reserves the right during such time to petition the Town of Kittery to accept Washburn Farm Lane as a public street.

7.06. Right to enter individual Lots. During the Declarant Control Period, the Declarant reserves the right to enter existing and conveyed Lots for the purpose of undertaking any work, and installing and constructing such improvements, pursuant to the exercise of Declarant's reserved rights under section 7.02, whether or not required by the Town of Kittery. Those existing Lots may be required by the Declarant to accede to revised terms and conditions of this Declaration that do not unreasonably interfere with the use and occupancy of such Lots, including but not limited to, the introduction of drainage swales or culverts or other improvements upon a Lot, and the right to require Owners to grant additional easements to the Association for drainage or other matters.

7.07. Right to expand size of certain Lots after sale. During the Declarant Control Period, the Declarant reserves the right to convey to any Lot such additional land or easement rights as may be necessary to create or maintain street frontage for said Lots in the event that the location or length of Washburn Farm Lane is modified by requirements of the Town of Kittery or other applicable governmental entity in such a manner that previously conveyed Lots do not conform to standards under the Kittery Land Use Ordinance.

7.08. Costs of Development. The cost of exercising any and all of the rights reserved by the Declarant shall be paid solely by the Declarant in its capacity as such, and not through its control

of the Association. The Declarant shall not transfer any improvement to the Association until and unless it is substantially completed; the Association shall in no event be responsible for costs of completion of any improvement initiated by the Declarant.

7.09. Temporary Inconvenience to Lot Owners allowed. Installation of improvements to the Property or the exercise of other Declarant rights (including the paving of Washburn Farm Lane, if applicable) may cause temporary disruption to existing Owners regarding access and egress, utility services, or other services. The Declarant shall organize such work to minimize such disruption, but in no event shall Declarant be liable to any Owner for any such disruption arising out of exercise of any Declarant right set forth in this Declaration.

ARTICLE 8 **NOTICES TO ASSOCIATION**

8.01. Notice of Suit. An Owner shall give notice to the Association of every suit or other proceeding which may affect the title to such Owner's Lot. Such notice shall be given within 5 days after the Owner receives knowledge thereof.

8.02. Failure to Comply. Failure to comply with this Article 8 will not affect the validity of any judicial sale or foreclosure proceedings or deed in lieu of foreclosure.

ARTICLE 9 **AMENDMENTS**

9.01. Amendment by Declarant. During the Declarant Control Period, the Declarant may amend this Declaration at any time, whether or not required by any condition of the Kittery Planning Board pursuant to its review authority, and without the consent of any Owner.

9.02. Other amendments. The Declaration may otherwise be amended from time to time, but only by a vote of not less than 67% of the Members entitled to vote in accordance with section 6.07. Upon passage, the passed amendment shall be accompanied by a certificate of the Secretary of the Association that such a vote was cast at a duly called and held meeting of the Members. However, during the Declarant Control Period, no amendment(s) to this Declaration shall be effective, unless joined by the Declarant. In order to be effective, any amendment to the Declaration must be recorded in the York County Registry of Deeds.

ARTICLE 10 **GENERAL**

10.01. Severability The invalidation in whole or in part of any section subsection, sentence, clause, phrase, word or other provision of this Declaration shall not affect the validity of the remaining portions which shall remain in full force and effect.

10.02. Rule Against Perpetuities. In the event any court shall hereafter determine that any provisions as originally drafted herein shall violate the rule against perpetuities, the period speci-

fied in this Declaration shall not thereby become invalid, but instead shall be reduced to the maximum period allowed under such rules of the law.

10.03. Arbitration. Any dispute or claim arising out of or relating to this Declaration shall be submitted to arbitration in accordance with the Maine Uniform Arbitration Act, 14 M.R.S §5927 *et seq.* Provided, however, that: (1) in addition to any award or relief thereby granted, the substantially prevailing party shall be entitled to payment of, and shall be paid, reasonable attorney's fees and costs and (2) the decision of the Arbitrator shall be final and binding upon all parties.

ARTICLE 11
RIGHTS AFFORDED UNIT OWNERS AND INSTITUTIONAL LENDERS

11.01. Availability of Documents. The Association shall be required to make available to Owners and to holders, insurers of guarantors of any first mortgage, current copies of the Declaration, Articles, By-Laws, or other rules concerning the Property and the books, records and financial statements of the Association. "Available" means available for inspection, upon request, during normal hours or under other reasonable circumstances.

11.02. Notice of Action. Upon written request to the Association identifying the name and address of the holder, insurer or guarantor and the unit number or address, any such eligible mortgage holder or eligible insurer or guarantor will be entitled to timely written notice of:

- (a) Any condemnation loss or any casualty loss which affects a material portion of the project or any unit on which there is a first mortgage held, insured or guaranteed by such eligible mortgage holder or eligible insurer or guarantor, as applicable;
- (b) Any delinquency in the payment of Assessments or charges owed by an Owner of a Lot subject to a first mortgage held, insured or guaranteed by such eligible holder or eligible insurer or guarantor, which remains uncured for a period of 60 days; or
- (c) Any lapse, cancellation or material modification of any insurance policy or fidelity bond maintained by the Association.

IN WITNESS WHEREOF, the Declarant executes this instrument as of the day, month and year first above written.

WITNESS:

77 Bartlett Road, LLC

By: _____
Geoffrey D. Bowley, Manager

STATE OF MAINE
COUNTY OF YORK, ss.

_____, 2023

Personally appeared Geoffrey D. Bowley, Manager of 77 Bartlett Road, LLC, and acknowledged the foregoing instrument to be his free act and deed in his said capacity, and the free act and deed of 77 Bartlett Road, LLC.

Before me,

xxxxxx / Attorney at Law
Bar #xxxx

EXHIBIT A

INSPECTION, MAINTENANCE, AND HOUSEKEEPING PLAN

**Washburn Farm Subdivision
Bartlett Rd.
Kittery, Maine**

Introduction

Upon completion of the proposed development, 77 Bartlett Road, LLC will be the responsible party for maintaining the stormwater management system until such a time a Homeowners Association is established. 77 Bartlett Road, LLC, the Homeowners Association, or other another responsible party shall schedule maintenance of all stormwater management structures, the establishment of any contract services required to implement the program, and the keeping of records and maintenance logbook.

Records of all inspections and maintenance work accomplished must be kept on file and retained for a minimum 5-year time span. At a minimum, the appropriate and relevant activities for each of the stormwater management systems will be performed on the prescribed schedule.

The following plan outlines the anticipated inspection, maintenance, and housekeeping procedures for the erosion and sedimentation controls as well as stormwater management devices for the project site. Also, this plan outlines several housekeeping requirements that shall be followed during and after construction. These procedures should be followed in order to ensure the intended function of the designed measures and to prevent unreasonable adverse impacts to the surrounding environment.

The procedures outlined in the Inspection, Maintenance, and Housekeeping Plan are provided as an overview of the anticipated practices to be used on this site. In some instances, additional measures may be required due to unexpected conditions. For additional details on any of the erosion and sedimentation control measures or stormwater management devices to be utilized on this project, refer to the most recently revised edition of the "Maine Erosion and Sedimentation Control BMP" manual and/or the "Stormwater Management for Maine: Best Management Practices" manual as published by the MDEP.

During Construction

1. **Inspection:** During the construction process, it is the Contractor's responsibility to comply with the inspection and maintenance procedures outlined in this section. These responsibilities include inspecting disturbed and impervious areas, erosion control measures, materials storage areas that are exposed to precipitation, and locations where vehicles enter or exit the site. These areas shall be inspected at least once a week as well as before and after a storm event, and prior to completing permanent stabilization measures. A person with knowledge of erosion and stormwater control, including the standards and conditions in any applicable permits, shall conduct the inspections.

2. **Maintenance:** All measures shall be maintained in an effective operating condition until areas are permanently stabilized. If Best Management Practices (BMPs) need to be maintained or modified, additional BMPs are necessary, or other corrective action is needed, implementation must be completed within seven (7) calendar days and prior to any storm event (rainfall).
3. **Documentation:** A log summarizing the inspections and any corrective action taken must be maintained on-site. The log must include the name(s) and qualifications of the person making the inspections, the date(s) of the inspections, and major observations about the operation and maintenance of erosion and sedimentation controls, material storage areas, and vehicle access points to the site. Major observations must include BMPs that need maintenance, BMPs that failed to operate as designed or proved inadequate for a particular location, and locations where additional BMPs are needed. For each BMP requiring maintenance, BMP needing replacement, and location needing additional BMPs, note in the log the corrective action taken and when it was taken.

The log must be made accessible to the appropriate regulatory agency upon request. The permittee shall retain a copy of the log for a period of at least three (3) years from the completion of permanent stabilization.

4. **Specific Inspection and Maintenance Tasks:** The following is a list of erosion control and stormwater management measures and the specific inspection and maintenance tasks to be performed during construction.

A. Sediment Barriers:

- Hay bale barriers, silt fences, and filter berms shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.
- If the fabric on silt fence or filter barrier should decompose or become ineffective prior to the end of the expected usable life and the barrier is still necessary, it shall be replaced.
- Sediment deposits should be removed after each storm event. They must be removed before deposits reach approximately one-half the height of the barrier.
- Filter berms shall be reshaped as needed.
- Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required should be dressed to conform to the existing grade, prepared, and seeded.

B. Riprap Materials:

- Once a riprap installation has been completed, it should require very little maintenance. It shall, however, be inspected periodically to determine if high flows have caused scour beneath the riprap or dislodged any of the stone.

C. Erosion Control Blankets:

- Inspect these reinforced areas semi-annually and after significant rainfall events for slumping, sliding, seepage, and scour. Pay close attention to unreinforced areas adjacent to the erosion control blankets, which may experience accelerated erosion.
- Review all applicable inspection and maintenance procedures recommended by

the specific blanket manufacturer. These tasks shall be included in addition to this plan.

D. Stabilized Construction Entrances/Exits:

- The exit shall be maintained in a condition that will prevent tracking of sediment onto public rights-of-way.
- When the control pad becomes ineffective, the stone shall be removed along with the collected soil material. The entrance should then be reconstructed.
- Areas that have received mud-tracking or sediment deposits shall be swept or washed. Washing shall be done on an area stabilized with aggregate, which drains into an approved sediment-trapping device (not into storm drains, ditches, or waterways).

E. Temporary Seed and Mulch:

- Mulched areas should be inspected after rain events to check for rill erosion.
- If less than 90% of the soil surface is covered by mulch, additional mulch shall be applied in bare areas.
- In applications where seeding and mulch have been applied in conjunction with erosion control blankets, the blankets must be inspected after rain events for dislocation or undercutting.
- Mulch shall continue to be reapplied until 95% of the soil surface has established temporary vegetative cover.

F. Stabilized Drainage Swales:

- Sediment accumulation in the swale shall be removed once the cross section of the swale is reduced by 25%.
- The swales shall be inspected after rainfall events. Any evidence of sloughing of the side slopes or channel erosion shall be repaired and corrective action should be taken to prevent reoccurrence of the problem.
- In addition to the stabilized lining of the channel (i.e. erosion control blankets), stone check dams may be needed to further reduce channel velocity.

5. **Housekeeping:** The following general performance standards apply to the proposed project.

- A. Spill Prevention: Controls must be used to prevent pollutants from being discharged from materials on-site, including storage practices to minimize exposure of the materials to stormwater, and appropriate spill prevention, containment, and response planning and implementation.
- B. Groundwater Protection: During construction, liquid petroleum products and other hazardous materials with the potential to contaminate groundwater may not be stored or handled in areas of the site draining to an infiltration area. An "infiltration area" is any area of the site that by design or as a result of soils, topography and other relevant factors, accumulates runoff that infiltrates into the soil. Dikes, berms, sumps, and other forms of secondary containment that prevent discharge to groundwater may be used to isolate portions of the site for the purposes of storage and handling of these materials.

- C. Fugitive Sediment and Dust: Actions must be taken to insure that activities do not result in noticeable erosion of soils or fugitive dust emissions during or after construction. Oil may not be used for dust control.
- D. Debris and Other Materials: Litter, construction debris, and chemicals exposed to stormwater must be prevented from becoming a pollutant source.
- E. Trench or Foundation Dewatering: Trench dewatering is the removal of water from trenches, foundations, cofferdams, ponds, and other areas within the construction area that retain water after excavation. In most cases, the collected water is heavily silted and hinders correct and safe construction practices. The collected water must be removed from the ponded area, either through gravity or pumping, and must be spread through natural wooded buffers or removed to areas that are specifically designed to collect the maximum amount of sediment possible, like a cofferdam sedimentation basin. Avoid allowing the water to flow over disturbed areas of the site. Equivalent measures may be taken if approved.

After Construction

1. **Inspection:** After construction, the owner or operator shall hire a qualified post-construction stormwater inspector to at least annually, inspect the BMPs, in accordance with all municipal and state inspection, cleaning and maintenance requirements of the approved post-construction stormwater management plan.
2. **Maintenance, and repair:** If a BMP requires maintenance, repair or replacement to function as intended by the approved post-construction stormwater management plan, the owner or operator shall take corrective actions to address the deficiency or deficiencies as soon as possible after the deficiency is discovered. The following is a list of permanent erosion control and stormwater management measures and the inspection, maintenance, and housekeeping tasks to be performed after construction.
 - A. Vegetated Areas:
 - Inspect vegetated areas, particularly slopes and embankments, early in the growing season or after heavy rains to identify active or potential erosion problems.
 - Replant bare areas or areas with sparse growth. Where rill erosion is evident, armor the area with an appropriate lining or divert the erosive flows to on-site areas able to withstand the concentrated flows.
 - B. Ditches, Swales and Other Open Channels:
 - Inspect ditches, swales, and other open stormwater channels in the spring, in the late fall, and after heavy rains to remove any obstructions to the flow. Remove accumulated sediments and debris, remove woody vegetative growth that could obstruct flow and repair any erosion of the ditch lining.
 - Vegetated ditches must be mowed at least annually or otherwise maintained to control the growth of woody vegetation and maintain flow capacity.
 - Any woody vegetation growing through riprap linings must also be removed. Repair any slumping side slopes as soon as practicable.
 - Replace riprap in areas where any underlying filter fabric or underlying gravel is showing through the stone or where stones have dislodged.

C. Winter Sanding:

- Clear accumulations of winter sand in parking lots and along roadways at least once a year, preferably in the spring.
- Accumulations on pavement may be removed by pavement sweeping.
- Accumulations of sand along road shoulders may be removed by grading excess sand to the pavement edge and removing it manually or by a front-end loader or other acceptable method.

D. Culverts and Stormdrains:

- Inspect culverts and stormdrains in the spring, in the late fall, and after heavy rains to remove any obstructions to flow.
- Remove accumulated sediments and debris at the inlet, at the outlet, and within the conduit.
- Inspect and repair any erosion damage at the culvert's inlet and outlet.
- Inspect embankment for erosion, settling, and structural failure.

3. **Annual Report:** The owner or operator or a qualified post-construction stormwater inspector hired by that person, shall, on or by June 30 of each year, prepare a stormwater and maintenance inspection form. Attachment 1 is provided as a sample to go by. The form shall identify the person that conducted the BMP inspection, and that the inspected BMPs are adequately maintained and functioning as intended by the approved post-construction stormwater management plan. If BMPs require maintenance or repair of deficiencies in order to function as intended, the inspector shall provide a record of the required maintenance or deficiency and corrective action(s) taken.
4. **Duration of Maintenance:** Perform maintenance as described and required for any associated permits unless and until the system is formally accepted by a municipality or quasi-municipal district, or is placed under the jurisdiction of a legally created association that will be responsible for the maintenance of the system.

Attachments

Attachment 1 – Sample Stormwater Inspection and Maintenance Form

Sample Stormwater Inspection and Maintenance Form

**Washburn Farm, Kittery, Maine
Attachment 1**

This log is intended to accompany the stormwater Inspection, Maintenance and Housekeeping Plan for Washburn Farm subdivision. The following items shall be checked, cleaned and maintained on a regular basis as specified in the Maintenance Plan and as described in the table below. This log shall be kept on file for a minimum of five (5) years and shall be available for review. Qualified personnel familiar with drainage systems and soils shall perform all inspections. Attached is a copy of the construction and post-construction maintenance logs.

| | INSPECTOR NAME | DATE PERFORMED | SUGGESTED INTERVAL |
|--|----------------|----------------|--------------------|
| Vegetated Areas | | | |
| Inspect all slopes and embankments | | | Annually |
| Replant bare areas or areas with sparse growth | | | Annually |
| Paved Surfaces | | | |
| Clear accumulated winter sand | | | Annually |
| Remove sediment along edges and in pockets | | | Annually |
| Ditches & Swales | | | |
| Remove any obstructions and accumulated sediments and debris | | | Monthly |
| Repair any erosion of ditch lining | | | Annually |
| Mow vegetated ditches | | | Annually |
| Remove woody vegetation growing through riprap | | | Annually |
| Repair any slumping side slopes | | | Annually |
| Replace riprap where stones have dislodged | | | Annually |
| Culverts | | | |
| Remove accumulated sediments and debris at the inlet, outlet, within conduit | | | Annually |
| Repair any erosion at inlet and outlet | | | Annually |
| Sump Depth | | | Annually |