Report for Hamilton Conservation Commission

Date: December 6, 2024

Subject: Tree Removal Recommendations at 20 Beech Street Extension, Hamilton

Prepared for: Angel Lopez

Overview

This report outlines observations and recommendations for tree removals on the property at 20 Beech Street Extension, focusing on risks posed by four specific trees due to their current condition and proximity to upcoming construction activities.

Tree Evaluations

1. Group of Three Trees Near the House

- Species and Size:
 - Two Norway spruces, approximately 14" DBH and 70' in height.
 - One white pine, approximately 14" DBH, located close to the corner of the deck.

Condition and Risks:

- These trees are isolated with full canopy exposure, making them vulnerable to high winds, especially given the site's exposure to wind coming off the water.
- Construction activities, including excavation and soil compaction, will impact the root systems. Effects of soil compaction can manifest as reduced vigor and increased failure risk over 5–7 years post-construction.
- The deck replacement project requires excavation near the base of the white pine, further compromising its stability and health.

2. Large Pine Near the Barn

- Species and Size:
 - A mature white pine with signs of interior decay at the base (southern side).

Condition and Risks:

- Decay was detected through acoustic "sounding" technique, indicating structural weakness.
- The tree semi-isolated and within striking distance of the barn. White pines are known for brittle wood and branch shedding during wind storms.
- Upcoming construction near this tree will further impact root health, increasing the risk of failure.

Recommendations

1. Tree Removals:

Remove all four trees (two Norway spruces and two white pines). This will
mitigate the risk of wind-related failure, damage to structures, and long-term
decline due to construction-related impacts.

2. Replanting Plan:

- Replace the removed trees with durable, native, wet-tolerant species to maintain ecological balance and aesthetic value. Recommended species include:
 - Tupelo (Nyssa sylvatica)
 - Red Maple (Acer rubrum)
 - Swamp White Oak (Quercus bicolor)
 - Serviceberry (Amelanchier spp.)

Conclusion

The removal of these four trees is necessary to ensure safety and reduce potential future liabilities. Replanting with native species will support the site's environmental integrity while providing long-term durability and beauty.

Prepared by:

Chris Wood ISA Certified Arborist (NE 7530-A) Heirloom Tree and Shrub Care LLC Email: heirloomtree@gmail.com

Phone: 978-473-2417

Notice of Intent (NOI) Application

Proposed Improvements to a Single-Family Home and Other Site Improvements

20 Beech Street Extension Hamilton, MA 01982

October 23, 2024

Prepared for:

20 Beech Street LLC 100 Conifer Hill Drive, Suite 512 Danvers, MA 01923

Design Team:

Hancock Associates 185 Centre Street, Danvers, MA 01923

DeRosa Environmental Consulting, Inc. 150 Newburyport Turnpike, Suite C-5, Rowley MA 01969





October 23, 2024

BY ELECTRONIC MAIL AND HAND DELIVERY

Town of Hamilton Conservation Commission Hamilton Town Hall PO Box 429 Hamilton, MA 01936

Ms. Patrick Reffett, Director of Planning 978.626.5248 preffett@hamiltonma.gov

150 Newburyport Turnpike Suite C-9 Rowley, MA 01969

978.948.7717 Office

derosaenvironmental.com

RE:

Notice of Intent (NOI) Application for the Proposed Improvements to a Single-Family Home and Other Site Improvements

20 Beech Street Ext. | Hamilton, Massachusetts

Dear Mr. Reffett and Members of the Commission,

Our firm has prepared the following Notice of Intent (NOI) Application to meet the requirements of the Massachusetts Wetlands Protection Act (MGL Ch. 131 Sec. 40) and its Regulations (310 CMR 10.00, et seq. - the "Act") and the Town of Hamilton Conservation Bylaw (the Bylaw). We were authorized to prepare this filing at the request of 20 Beech Street LLC, owner of the property located at 20 Beech Street Extension in the Town of Hamilton, Massachusetts, known as Assessor's Map 66, Lot 1 (the "Site" - Figure 1).

This Notice of Intent (NOI) requests the Commission to issue an Order of Conditions for the proposed improvements to a single-family home and other site improvements.



Aerial photo of 20 Beech Street Extension from MassMapper 2023 Aerial Imagery

Executive Summary

Site Description

The property is located at 20 Beech Street Extension in the Town of Hamilton and identified as Map 66 Lot 1. The site is an approximately 3-acre parcel located south of Beech Street. Beech Street is a dead-end residential street adjacent to Chebacco Lake located south of Forest Street and Lake Shore Ave. The Site is bordered by residential properties to the north and south. The Site is directly adjacent to Chebacco Lake on the east, and Beck Pond is to the west.

Existing on site is a single-family home and attached deck, barn, boat shack, and gravel driveway. The existing structures are located on an upland area that is surrounded by bordering vegetated wetland associated with an intermittent stream and the bank of Chebacco Lake. The entire Site is located within a Zone A Flood Plain (Figure 2a & 2b).

The existing structures have not been maintained for many years. Historically, the site was well maintained and included formal gardens (Appendix B). Accordingly, the project proposes to renovate and improve the existing structures to a safe condition so that the new owners can move into the property. The new owners wish to live in harmony with the existing landscape and clean up the trash and miscellaneous debris that have accumulated over the years.

Project Summary

In brief, the project proposes the following elements:

- Replacement of the Existing Septic System
- Remove Existing Deck and Rebuild New Deck within the same footprint
- Construction of a Second Story Addition to the Single-Family Home
- Renovations to the Existing Barn
- Gravel Driveway Resurfacing and Extension
- Installation of an Aluminum Dock
- Repairs to an Existing Stone Wall
- Restoration Plan

The following report provides a detailed description of wetland resource areas within the project area and key project elements.

Existing Wetland Resource Areas

Proposed work at the Site will occur within the 100-foot buffer to Bordering Vegetated Wetland, Bordering Vegetated Wetland, Bordering Land Subject to Flooding, Inland Bank, and Land Under Waterbodies. Therefore, the project which is the subject of this application is within the jurisdiction of the Hamilton Conservation Commission under the Act and the Bylaw.

Buffer Zone – 310 CMR 10.02(b) & Local Bylaw AURA

Although not a resource area by definition, the WPA identifies the buffer zone as a jurisdictional area that extends 100-feet from the edge of a wetland resource boundary. On the Site, there is buffer zone to the Bordering Vegetated Wetland and Inland Bank.

The local Bylaw identifies land within 100 feet of bordering vegetated wetland on the Site as Associated Upland Resource Area ("AURA").

<u>Under Section 7.C. of the Bylaw,</u> "the Commission shall presume the AURA is important in its own right and is important to the protection of other resource areas activities undertaken in close proximity have a high likelihood of adverse impact, either immediately, as a consequence of construction, or over time, as a consequence of daily operation or existence of the activities. These adverse impacts from construction and use can include, without limitation, erosion, siltation, loss of groundwater recharge, poor water quality, and loss of wildlife habitat."

<u>Under Section 7.D.</u> of the Bylaw, "within the AURA, the commission will require a no-disturbance zone extending from the edge of all wetland resource areas and a no-build zone extending from the no disturbance zone to a certain distance from the wetlands resource area as determined below. Building construction of any kind is prohibited in the no-building zone."

"No construction activity or removal of vegetative cover is allowed in the no-disturbance zone ... The no disturbance zone shall be bounded by the edge of the wetlands resource area and a line 25 feet away from the wetlands resource area; and the no build zone shall extend from the no disturbance zone to a line 50 feet from the edge of the wetlands resource area for Residential lots actually occupied on December 31, 2007."

• The residential lot at 20 Beech Street Extension has been in existence since 1973 and has been occupied prior to December 31, 2007.

- In its current condition, a single-family home and attached deck, barn, boat shack, and gravel driveway all exist within the AURA, the 25-foot No-Disturbance Zone, and 50-foot No-Build Zone.
- Due to the location of the existing single-family home, deck, barn and driveway and their proximity to the wetlands, the proposed project is inevitably located within the AURA, the 25-foot No-Disturbance Zone, and 50-foot No-Build Zone.
- Existing vegetation within the AURA, 25-foot No-Disturbance Zone, and 50-foot No-Build Zone consists primarily of a canopy of white pine, hemlock, red cedar, willow and white oak. A shrub layer of sweet pepperbush, speckled alder, azalea, highbush blueberry, silky dogwood, raspberry, privet, willow and glossy buckthorn. The herbaceous plant community consists of maintained lawn areas as well as overgrown lawn areas that include early successional grasses and perennials as well as woody vines including Asiatic bittersweet, poison ivy, and green brier. The herbaceous layer also includes maintained lawn, pachysandra, goldenrod, royal fern, sensitive fern, and sphagnum moss.
- Proposed activities within the AURA, 25-foot No-Disturbance Zone, and 50-foot No-Build Zone is located within the footprint of the existing single-family home, deck, barn, driveway, lawn areas, and boat shack. There will be minimal disturbance to naturally vegetated areas in order to remove accumulated debris and trash, and to thin overgrown areas. All naturally vegetated areas are proposed to remain and improved.
- Ten (10) canopy trees are proposed to be removed within the AURA as they have been deemed hazardous and are in the location of the proposed septic replacement. Ten (10) native canopy trees will be installed to replace the trees to be removed. A letter from Iron Tree on the trees are included in this application (Figure 2c)
- Some areas of overgrown woody vines and shrubs are proposed to be thinned out to allow
 for the repairs to the stone wall, and renovations to the single family home. The thinning
 and selective removal of these shrubs will not impair the capacity of the AURA to provide
 ecosystem services. The Site is approximately 3-acres and the proposed activities are
 proposed only within a small upland area of the Site. The remainder of the site is heavily
 vegetated and forested.
- All debris will be removed from the site and properly disposed of at appropriate facilities.
 Equipment will be stored on the existing gravel and lawn areas and appropriate erosion and sedimentation controls will be installed to protect the AURA and adjacent resource areas.

 The AURA has been previously disturbed, and the project proposes to improve the conditions of the structures and vegetation so that the AURA can better function to provide ecological services.

Details of the project element, the proposed Restoration Plan and erosion control measures are described in subsequent sections of this narrative. A waiver request for proposed activities within the 25-foot No-Disturbance Zone and 50-foot No-Build Zone is also included in subsequent sections of this narrative.

Bordering Vegetated Wetland- 310 CMR 10.55

Bordering vegetated wetland is defined under the Act as freshwater wetland which "...border on creeks, rivers, streams, ponds, and lakes." On January 3, 2024, our firm delineated the boundaries of the existing bordering vegetated wetland in accordance with the methodology described in the Massachusetts Wetlands Protection Act (MGL Ch. 131 Sec. 40) and its Regulations at 310 CMR 10.00, et seq., as well as guidance documents prepared by the MADEP including Massachusetts Handbook for Delineation of Bordering Vegetated Wetlands, second addition, dated September 2022.

The boundaries of bordering vegetated wetlands were delineated in one (1) consecutive alphanumeric series numbered:

WF-A1 to WF-A10

According to the Massachusetts Handbook for Delineation of Bordering Vegetated Wetlands, second addition, "vegetation may be an unreliable indicator in heavily managed landscapes, such as cropland, pastureland, golf courses, lawns, and other areas where the vegetation is heavily manipulated. In these areas, hydric soils, reinforced by Other Indicators of Hydrology, should be used to determine whether an area is a wetland." As portions of the bordering vegetated wetland on the Site is comprised of overgrown lawn areas, our firm delineated this site based on hydric soil indicators as well as vegetation.

Although no new construction is proposed within the delineated bordering vegetated wetland, a portion of the existing boat shack is located within the bordering vegetated wetland. Accordingly, the proposed project intends to remove the existing boat shack and replace it with a new boat shack that is outside of the bordering vegetated wetland. In this way, the bordering vegetated wetland can be restored.

As part of the Restoration Plan, the project proposes to restore a portion of the existing bordering vegetated wetland by removing approximately 760 square feet of accumulated

miscellaneous debris to improve the ecological function and value of the resource area and its 25-foot No-Disturbance Zone. The existing wetland grades will remain unaltered and the area will be reseeded with a custom wetland seed mix once the debris is removed.









Photos showing some of the accumulated miscellaneous debris and trash that has been piled in the wetland over the years. All this is proposed to be removed and the wetland restored.

Bordering Land Subject to Flooding- 310 CMR 10.57

Bordering Land Subject to Flooding is defined as "...an area with low, flat topography adjacent to and inundated by flood waters rising from creeks, rivers, streams, ponds or lakes. It extends from the banks of these waterways and water bodies; where a bordering vegetated wetland occurs, it extends from said wetland."

According to the Federal Emergency Management Agency's (FEMA) most recent Flood Insurance Rate Map (FIRM), Bordering Land Subject to Flooding is a Zone A, so there is no Base Flood Elevation (Figure 6). Work proposed within the flood plain include renovations to existing structures that will not exceed the existing footprints. No new impervious surfaces or grading will occur within the flood plain. The proposed septic replacement is located in a mounded area that is believed to be higher than the flood plain. Since this flood plain is an "A-Zone", there is no base flood elevation to reference. However, it is our opinion that since the location for the septic replacement is already mounded up higher than the existing topography, there will be no changes to flows or flood storage capacity. Accordingly, no flood storage volume will be lost as a result of the proposed project, and compensatory flood storage is not required.

The MA Wetlands Protection Act Regulations Performance Standards for (310 CMR 10.57(4)(a))

1. Compensatory storage shall be provided for all flood storage volume that will be lost as the result of a proposed project within Bordering Land Subject to Flooding, when in the judgment of the issuing authority said loss will cause an increase or will contribute incrementally to an increase in the horizontal extent and level of flood waters during peak flows. Compensatory storage shall mean a volume not previously used for flood storage and shall be incrementally equal to the theoretical volume of flood water at each elevation, up to and including the 100-year flood elevation, which would be displaced by the proposed project. Such compensatory volume shall have an unrestricted hydraulic connection to the same waterway or water body. Further, with respect to waterways, such compensatory volume shall be provided within the same reach of the river, stream or creek.

No flood storage volume will be lost as a result of the proposed project, and compensatory flood storage is not required. The project does not involve changes to existing contours.

2. Work within Bordering Land Subject to Flooding, including that work required to provide the above-specified compensatory storage, shall not restrict flows so as to cause an increase in flood storage or velocity.

Proposed work will not restrict flows so as to cause an increase in flood storage or velocity. Proposed work includes renovations to existing structures that will not exceed the existing footprints. All new construction including the gravel driveway extension and dock will be constructed with pervious materials and are either elevated or at grade that will facilitate water infiltration. No new changes in existing topography will occur within the flood plain. The proposed septic replacement is located in a mounded area that is believed to be higher than the flood plain. Since this flood plain is an "A-Zone", there is no base flood elevation to reference. However, it is our opinion that since the location for the septic replacement is already mounded up higher than the existing topography, there will be no changes to flows or flood storage capacity.

3. Work in those portions of bordering land subject to flooding found to be significant to the protection of wildlife habitat shall not impair its capacity to provide important wildlife habitat functions. Except for work which would adversely affect vernal pool habitat, a project or projects on a single lot, for which Notice(s) of Intent is filed on or after November 1, 1987, that (cumulatively) alter(s) up to 10% or 5,000 square feet (whichever is less) of land in this resource area found to be significant to the protection of wildlife habitat, shall not be deemed to impair its capacity to provide important wildlife habitat functions. Additional alterations beyond the above threshold, or altering vernal pool habitat, may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures contained in 310 CMR 10.60.

This project is not located within vernal pool or Rare and Endangered Species habitat. The Restoration Plan will improve wildlife habitat within the resource area.

Inland Bank - 310 CMR 10.54

Inland bank is defined as "the portion of the land surface which normally abuts and confines a water body. It occurs between a water body and a vegetated bordering wetland and adjacent flood plain, or, in the absence of these, it occurs between a water body and an upland." The existing stone wall forms Inland Bank in the project work area.

Under 310 CMR 10.54(4)(a), work proposed on an Inland Bank shall not impair:

- 1. the physical stability of the Bank;
- 2. the water carrying capacity of the existing channel within the Bank;
- 3. ground water and surface water quality,
- 4. the capacity of the Bank to provide breeding habitat, escape cover and for fisheries; or
- 5. the capacity of the Bank to provide important wildlife habitat functions.

No work is proposed that will alter the earth of Inland Bank. The stone wall will remain in place and intact but for the resetting of stones that have been dislodged. All work will take place above the lake and from the landward side of Inland Bank. Accordingly, the project avoids adverse impacts to Inland Bank and complies with 310 CMR 10.54(4)(a).

Land Under Waterbodies - 310 CMR 10.56

Land under water body is defined as "the land beneath any creek, river, stream, or lake. Said land may be composed of organic much or peat, fine sediments, rocks or bedrock...The boundary of Land under Water Bodies and Waterways is the mean annual low water level" (310 CMR 10.56 (2)).

The proposed aluminum dock is designed with footings so there is minimal impact to the land under the lake. The entire structure is designed to be temporary and can be taken out and put in by hand. The proposed dock will not impair the carrying capacity of the lake or alter water quality or habitat value. Accordingly, it is our professional opinion that the installation of a dock will not have an adverse effect on Land Under Waterbodies.

Rare & Endangered Species Habitat

The project is not located within the boundaries of Priority or Estimated Habitats of Rare Species as determined by the Massachusetts Natural Heritage and Endangered Species Program (NHESP - Figure 5). Therefore, a review of this application is not required by the NHESP.

Project Elements

Replacement of an Existing Septic Sysytem

A new septic system has been designed and approved by the Hamilton Board of Health to replace the existing septic system (Figure 2a & 2b). The existing septic system does not meet the Title V requirements and is proposed to be properly pumped empty, crushed and filled with clean sand, and abandoned. The new septic system has been designed to include a two (2) compartment septic tank with connecting pipe to a biofilter and connecting pipe to a new leaching field northwest of the existing dwelling. This area is the only area that passed the percolation test and is in the approximate location of the existing septic system. It is a mounded area that is higher than the surrounding grades. Accordingly, five (5) trees will need to be removed and replaced.

Portions of the proposed septic replacement are located within Bordering Land Subject to Flooding however, since this flood plain is an "A-Zone", there is no base flood elevation to reference. It is our opinion that since the location for the septic replacement is already mounded up higher than the existing topography, it is actually above the flood plain in this area. This is consistent with Board of Health requirements as well.

The proposed septic replacement is also within the 25-foot No-Disturbance and 50-foot No Build Zones to bordering vegetated wetland. Accordingly, waiver request is included in this application.

Remove and Replace the Existing Deck

The existing single-family home has an elevated deck with stairs attached to the first floor of the dwelling that extends easterly and is supported on concrete pilings. The existing deck is unsafe to walk on. The project proposes to remove the existing deck, stairs and pilings and rebuild a new deck in its place that will be supported with helical piles (Figure 2a & 2b). Any accumulated debris will be containerized and disposed off-site in either trucks or roll off dumpsters/containers, as determined by the contractor. All appropriate building department rules and regulations for home renovations will be followed.



Photo of the existing deck and stairs to be removed and replaced with a new deck and stairs supported on helical piles.

New stairs are also proposed to be constructed. These new stairs are shifted slightly to the west to allow a secondary access to the dwelling. The new deck and stairs will be made of pervious materials.

The proposed removal of an existing deck and rebuilding of a new deck is located within the footprint of the existing deck within the 25-foot No-Disturbance and 50-foot No Build Zones to inland bank and within Bordering Land Subject to Flooding. Some overgrown natural vegetation will be removed and thinned for this construction including willow and glossy buckthorn. An immature gray birch and an immature striped maple that has been previously heavily lopped and pruned are also located in this area. These species have been compromised and are not expected to survive through construction. Three (3) hazardous trees (white pine and hemlock) are proposed to be removed and replaced. A waiver request is included in this application.

Construction of a Second Story Addition

The project proposes to construct a second story to an existing single-story home. The second story has been designed to be constructed over the existing house footprint so that there is no increase in impervious surfaces for the second story addition (Figure 2a & 2b).

The proposed dwelling will include two (2) bedrooms and three (3) bathrooms (Appendix D).

Any accumulated debris will be containerized and disposed off-site in either trucks or roll off dumpsters/containers, as determined by the contractor. All appropriate building department and board of health rules and regulations for home renovations will be followed.



Photo of the existing single family home to be renovated within the same footprint and a second story added. The first floor is a walk out basement, and second floor is the first story in this photo.

The first floor of the existing dwelling is proposed to be renovated within the footprint of the existing foundation. All renovations to the first floor are cosmetic and to accommodate the second story addition. The existing foundation and first floor walls are to remain. The roof will be removed, and the interior will be renovated.

Portions of the proposed second story addition is located within Bordering Land Subject to Flooding and the 25-foot No-Disturbance and 50-foot No Build Zones regulated under the Hamilton Wetlands Bylaw. Accordingly, a waiver request is included in this application.

Renovations to an Existing Barn

The project proposes to renovate the existing barn (Figure 2a & 2b). Most of the renovations are interior renovations. The exterior renovations include new roof and siding (Appendix D)

Any accumulated debris will be containerized and disposed off-site in either trucks or roll off dumpsters/containers, as determined by the contractor. All appropriate building department and board of health rules and regulations for home renovations will be followed.

The existing barn is proposed to be renovated within the footprint of



Photo of the existing barn to be renovated within the same footprint.

The gravel drive is proposed to be extended to the barn doors for vehicle entry. The gravel driveway is to remain pervious.

the existing foundation. All renovations to the barn are cosmetic and to make the barn safe for use. The existing foundation and walls are to remain. The roof and siding will be removed, and the interior will be renovated.

Portions of the proposed barn renovations are located within Bordering Land Subject to Flooding and within the 25-foot No-Disturbance and 50-foot No Build Zones regulated under the Hamilton Wetlands Bylaw. Accordingly, a waiver request is included in this application.

Gravel Driveway Resurfacing and Extension

The project proposes to remove the existing gravel driveway materials and re-surface the driveway with new gravel or pea stone so that it remains pervious (Figure 2a & 2b). Any accumulated debris will be containerized and disposed off-site in either trucks or roll off dumpsters/containers, as determined by the contractor. The current driveway does not currently extend to the existing barn, although it did historically. The project proposes to extend the pea stone or gravel material over existing lawn so that vehicles may access the existing barn. There will be no changes to existing contours, water infiltration or flood storage capacity.

Portions of the proposed driveway resurfacing, and extension are located within Bordering Land Subject to Flooding and the 50-foot No Build Zones regulated under the Hamilton Wetlands Bylaw. Accordingly, a waiver request is included in this application.

Installation of an Aluminum Dock

The proposed aluminum dock will be approximately 4-feet wide and 20-feet long. The structure is prefabricated and is designed to be installed by hand and are temporary structures in nature. The structure will sit on footings to that the structure remains elevated during high and low water cycles (Appendix D).

It is important to note that there is evidence of a former dock on site (Appendix B).

A minimal amount of overgrown vegetation will be cleared to install the dock. Since the majority of the vegetation will remain intact, the removal of a few plants in this area should not have any adverse impacts to the buffer zone.

Portions of the proposed aluminum dock is located within Bordering Land Subject to Flooding, Land Under Waterbodies and within the 25-foot No-Disturbance zone regulated under the Hamilton Wetlands Bylaw. Accordingly, a waiver request is included in this application.

Repairs to an Existing Stone Wall

The project proposes to repair the existing stone wall that is currently eroding due to exposure and lack of maintenance over the years. The wall will be repaired by resetting the displaced stones within the existing wall footprint using a mini-excavator. The mini-excavator will complete all work from the landward side of the lake once the existing deck is removed. Heavy equipment will not be allowed to enter the inland bank. Contractors will use as many stones that are already on site as possible. If additional stones are needed, matching stones will be brought onto the site to be used in repairs. All repairs to the existing stone wall will be located within the existing footprint and will not create any additional alterations within the resource area (Figure 2a & 2b).

No changes in grade are being proposed. No removal of soil will occur. Minimal vegetation removal will occur in order to access the stone wall. The proposed stone wall renovations are location on inland bank, however no alterations to the earth of the inland bank will be made, just the wall itself.

Restoration Plan

The existing Bordering Vegetated Wetland has been altered by the accumulation of many years of trash and debris. To compensate for the proposed activities within the No-Build and No-Disturb zones and to facilitate the restoration of the bordering vegetated wetland habitat we are proposing to restore the bordering vegetated wetland by removing all the accumulated miscellaneous debris and trash from the wetland. Any accumulated debris will be containerized and disposed off-site in either trucks or roll off dumpsters/containers, as determined by the contractor. The wetland grades will be established and the area will be seeded with a custom wetland seed mix.

The restoration plan consists of the approximately 760 square feet of debris and trash removal to improve the naturally vegetated portions of the bordering vegetated wetland and its 25-foot No-Disturbance Zone (Figure 2c).

Additionally, a portion of the existing boat shack is located within the bordering vegetated wetland. The project proposes to remove this boat shack and construct a new boat shack within an area outside of the bordering vegetated wetland.

In this way, portions of this local ecosystem can be reclaimed and managed for native plant species as well as the invertebrate and vertebrate species that utilize these native habitats.

In order to produce a diverse landscape that will be ecologically productive, we intend to install only native plantings within the restored areas. In this way, a native plant community can be established to substantially improve wildlife habitat and resource area function and value.

The planting palette consists of the installation of sweet pepper bush shrub and a custom wetland seed mix to facilitate the restoration of the existing bordering vegetated wetland. By reestablishing the native plant community within this wetland area, we intend to promote biodiversity and the ecosystem services of the wetland (Figure 2c).

The restoration plan also includes the replacement of the ten (10) hazardous trees proposed to be removed with ten (10) native canopy trees at a 1:1 ratio (Figure 2c)..

Portions of the proposed restoration plan are located bordering vegetated wetland, and the 25-foot No-Disturbance Zone. A waiver request is included in this application.

Erosion & Sedimentation Control Plan

Configuration of Siltation Barriers

Prior to any earthwork at the Site, an erosion control barrier consisting of Groundscapes Filtermit (12-inch tube) or equal will be installed down gradient of the proposed area of activity to prevent any erosion/sedimentation to the downgradient resource areas (Figure 2b).

These siltation barriers will remain in place during the entire construction process and until all exposed soils are completely re-vegetated and/or the Hamilton Conservation Commission or their Agent approve removal of the barriers.



Example of Groundscapes Filtermitt used as sedimentation control at typical residential project site.

Limits of Work

The siltation barrier line will serve as the limit of construction disturbance for this project. Heavy equipment will be stored in the existing driveway and when not in use, stored as far from resource areas as possible.

Jurisdiction and Procedural Matters

In addition to the Massachusetts Wetlands Protection Act, the project is subject to the rules and regulations outlined in the Bylaw. The Bylaw enforces a "No-Disturbance Zone" and a "No-Build Zone". The local wetland bylaw defines the No-Disturbance Zone as the area 25-feet horizontally (on a true lateral) landward of a wetland resource area in which there shall be no alteration. The No-Build Zone is defined as the 50-foot area horizontally (on a true lateral) landward of the wetland resource area in which there shall be no structures. Since portions of the proposed improvements to a single-family lot are located within these zones, we have included a Waiver Request and Consideration of Alternatives to this application.

Waiver Request & Consideration of Alternatives

We request that the Hamilton Conservation Commission grant a waiver of the bylaw regulations to allow a portion of the proposed project within the 25-foot No-Disturbance Zone and 50-foot No-Build Zone. It is our professional opinion that the proposed project will have no adverse impact to the bordering vegetated wetland and inland bank and that there are no other feasible and/or practicable alternatives that would have less of an impact and that the project will improve the overall site conditions.

Total area of restoration: Approximately 760 square feet

Total reduction of impervious surface area within the No-Disturbance Zone: Approximately 92 square feet

Total increase of impervious surface area within the No-Build Zone (boat shack replacement): Approximately 18 square feet

Total reduction of impervious surface area on site: Approximately 74 square feet

IMPERVIOUS AREA					
		EXIS	TING	PROF	POSED
	TOTAL AREA	AREA	PERCENTAGE	AREA	PERCENTAGE
LAND UNDER WATER BODIES	- 19 SF		-	0 SF	-
0-25" NO DISTURB ZONE	9,422 SF 692 SF		7%	600 SF	6%
25'-50' NO BUILD ZONE	6,589 SF	1,427 SF	22%	1,445 SF	22%
50'-100' WETLAND BUFFER	1,729 SF	49 SF	3%	49 SF	3%
TOTAL WITHIN 100' BUFFER	17,740 SF	2,168 SF	12%	2,094 SF	12%

Consideration of Alternatives:

Alternative 1 - Alternative Materials

During the design phase for the project other materials were considered including knocking down and rebuilding the existing structures in their entirety. By utilizing and renovating the existing structures, the amount of earth work required has been minimized to the maximum extent possible. If new structures were to be proposed, removing the existing foundations and work to construct the new structures would have more of an impact on the existing resource areas than the proposed project.

Additionally, the expansion of the gravel driveway and deck stairs have been designed to be constructed with pervious materials. Ideally, the homeowner would have liked to pave the driveway, however, in order to minimize impacts and promote water infiltration, pervious materials were chosen. Accordingly, the materials chosen have the least impact on the existing resource areas.

Alternative 2 – Alternative Location

In its current condition, a single-family home, deck, barn, boat shack and driveway all exist within the 25-foot No-Disturbance Zone, and 50-foot No-Build Zone. Due to the location of the existing structures and their proximity to the wetlands, the proposed project is inevitably located within the 25-foot No-Disturbance Zone, and 50-foot No-Build Zone. Since the project proposes to renovate the existing structures without expanding the footprint or increasing impervious surfaces, the proposed project can not be located in another location outside of these zones.

Additionally, aside from the wetland resource areas, most of the site is located within the 25-foot No-Disturbance Zone, and 50-foot No-Build Zone. The area of upland located outside of these zones is not large enough to accommodate the proposed project elements. Soil percolation tests were conducted to determine groundwater tables for the septic system. The only location for suitable soils was within the location of the proposed septic system. The leach field determines the appropriate setbacks to a dwelling. The dwelling can not be located any closer to the leach field than proposed.

Alternative 3 – Do Nothing Alternative

Doing nothing was also considered. By doing nothing, the homeowners would not be able to safely live at their new home. The septic system does not meet Title V standards, the barn, deck and home are deteriorating, and there are copious amounts of trash and debris littered throughout the wetland. The proposed project will be constructed within the footprint of existing structures, expansions will be constructed with pervious materials so there is no

increase in impervious surfaces, accumulated trash and debris will be removed from the wetland that will substantially improve the function and value of the bordering vegetated wetland, and the owners will be able to live in a home that is up to all building and sanitary codes. Accordingly, doing nothing would not be better than implementing the project as proposed.

Alternative 5 - Preferred Alternative

The project as proposed is the preferred option for the site and has been designed to avoid, minimize, and mitigate impacts to the resource area. After analyzing alternatives, we have concluded that there is no other practicable alternative that would have less impact than the proposed and preferred option.

Forms and Fees

A fee calculation sheet, fee transmittal form, and photocopies of payment are attached. A single (1) copy of this application has been forwarded to the MADEP/NERO to await the issuance of a file number. In addition, a copy of the Fee Transmittal Form and the state filing fee has been sent to the MADEP Lock Box in Boston, Massachusetts via Certificate of Mailing.

Abutter Notification

Abutters within 300 feet of the property line of this parcel (Assessor's Map 66, Lot 1) have been notified in writing by Certificate of Mailing according to the MassDEP policy regarding such notice, which is in effect for NOIs filed after April 13, 1994. Proof of this notice and a copy of the letters sent (typical), accompany this filing, as required (Appendix A).

Stormwater Management

As the project is part of a single-family home improvement, the Stormwater Management Standards (Volume 1, p. 1-3, MADEP Stormwater Management Policy Handbook) do not apply to this project.

Request for Issuance of an Order of Conditions

The proposed project has been designed to minimize and mitigate impacts to existing wetland resource areas as defined under the Massachusetts Wetlands Protection Act (MGL CH. 131 Sec. 40, et seq.) and the Town of Hamilton Wetlands Protection Bylaw (the Bylaw). Since the interests of the Act and the Bylaw have been addressed as part of this plan, we request that an Order of Conditions be issued so that 20 Beech Street LLC may commence with the proposed project.

Should you have any questions, or would like to arrange a site walk to review the project, please don't hesitate to call us at (978) 948-7717.

Respectfully submitted,

DeRosa Environmental Consulting, Inc.

Evin Guvendiren Project Manager Michael J. DeRosa, Principal Wetland Ecologist, LSP, LEED AP, PWS

cc: MADEP/NERO, Wetlands Division, 150 Presidential Way, Woburn, MA 01801

20 Beech Street LLC (by email) Hancock Associates (by email)

Forms

Notice of Intent (NOI) Form 3

Wetland Fee Transmittal Form

Hamilton Bylaw Fee Worksheet

Copies of Filing Fee Checks



WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:				
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Document Transaction Number				

City/Town

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

a. Street Address		b. City/Town	c. Zip Code
Latitude and Longi	itude:	d. Latitude	e. Longitude
f. Assessors Map/Plat I	Number	g. Parcel /Lot Numbe	er
Applicant:			
a. First Name		b. Last Name	
c. Organization			
d. Street Address			
e. City/Town		f. State	g. Zip Code
h. Phone Number	i. Fax Number	j. Email Address	
Property owner (re	equired if different from	applicant):	more than one owner
a. First Name		b. Last Name	
a. First Name c. Organization		b. Last Name	
_		b. Last Name	
c. Organization		b. Last Name	g. Zip Code
c. Organization d. Street Address	i. Fax Number		g. Zip Code
c. Organization d. Street Address e. City/Town		f. State	g. Zip Code
c. Organization d. Street Address e. City/Town h. Phone Number		f. State	g. Zip Code
c. Organization d. Street Address e. City/Town h. Phone Number Representative (if		f. State j. Email address	g. Zip Code
c. Organization d. Street Address e. City/Town h. Phone Number Representative (if a. First Name		f. State j. Email address	g. Zip Code
c. Organization d. Street Address e. City/Town h. Phone Number Representative (if a. First Name c. Company		f. State j. Email address	g. Zip Code
c. Organization d. Street Address e. City/Town h. Phone Number Representative (if a. First Name c. Company d. Street Address		f. State j. Email address b. Last Name	
c. Organization d. Street Address e. City/Town h. Phone Number Representative (if a. First Name c. Company d. Street Address e. City/Town h. Phone Number	any):	f. State j. Email address b. Last Name f. State j. Email address	



WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:				
MassDEP File Number				
Document Transaction Number				
City/Town				

A. General Information (continued)

6. General Project Description: 7a. Project Type Checklist: (Limited Project Types see Section A. 7b.) 1. Single Family Home 2. Residential Subdivision 3. Commercial/Industrial Dock/Pier 5. Utilities Coastal engineering Structure 7. Agriculture (e.g., cranberries, forestry) 8. Transportation 9. Other 7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)? If yes, describe which limited project applies to this project. (See 310 CMR 1. | Yes | No 10.24 and 10.53 for a complete list and description of limited project types) 2. Limited Project Type If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification. 8. Property recorded at the Registry of Deeds for: a. County b. Certificate # (if registered land) d. Page Number B. Buffer Zone & Resource Area Impacts (temporary & permanent) 1. Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area. 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas). Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including

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standards requiring consideration of alternative project design or location.



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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

	Res	ource Area	Size of Proposed Alteration	Proposed Replacement (if any)	
			41		
	a] Bank	1. linear feet	2. linear feet	
	b. [Bordering Vegetated	374 *restoration activities only	374	
	Wetland		1. square feet	2. square feet	
		l and Under			
	с	Land Under Waterbodies and	1. square feet	2. square feet	
		Waterways	3. cubic yards dredged		
	Res	ource Area	Size of Proposed Alteration	Proposed Replacement (if any)	
	d. [Bordering Land	8,726 * limit of work but no filling or chan	ges to topography	
	u	Subject to Flooding	1. square feet	2. square feet	
		Cubject to 1 localing	•	•	
			3. cubic feet of flood storage lost	4. cubic feet replaced	
	е. 🗌] Isolated Land			
		Subject to Flooding	1. square feet		
			2. cubic feet of flood storage lost	3. cubic feet replaced	
	f.	Riverfront Area	4 No	Managed as below d	
	i. Nivemont Alea		Name of Waterway (if available) - spec	city coastal or inland	
		2. Width of Riverfront Area	(check one):		
		☐ 25 ft Designated D	ensely Developed Areas only		
		☐ 100 ft New agricult	ural projects only		
		200 ft All other proj	ects		
		_ , ,			
	3. Total area of Riverfront Area on the site of the proposed project:				
	4. Proposed alteration of the Riverfront Area:				
	.=				
		a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.	
		5. Has an alternatives analysi	s been done and is it attached to th	is NOI? Yes No	
		6. Was the lot where the activ	rity is proposed created prior to Aug	ust 1, 1996? ☐ Yes ☐ No	
3.	☐ Coastal Resource Areas: (See 310 CMR 10.25-10.35)				
		`	•		

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Note: for coastal riverfront areas, please complete Section B.2.f. above.



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users: Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4.

5.

Resource Area		Size of Proposed	d Alteration	Proposed Replacement (if any)
a. 🗌	Designated Port Areas	Indicate size under Land Under the Ocean, below		
b. 🗌	Land Under the Ocean	1. square feet		
		2. cubic yards dredg	ed	
c. 🗌	Barrier Beach	Indicate size und	ler Coastal Beacl	hes and/or Coastal Dunes below
d. 🗌	Coastal Beaches	1. square feet		2. cubic yards beach nourishment
e. 🗌	Coastal Dunes	1. square feet		2. cubic yards dune nourishment
		Size of Proposed	d Alteration	Proposed Replacement (if any)
f	Coastal Banks	1. linear feet		
g. 🗀	Rocky Intertidal Shores	1. square feet		
h. 🗌	Salt Marshes	1. square feet		2. sq ft restoration, rehab., creation
i. 🗌	Land Under Salt Ponds	1. square feet		
		2. cubic yards dredge	ed	
j. 📙	Land Containing Shellfish	1. square feet		
k. 🗌	Fish Runs			s, inland Bank, Land Under the Waterbodies and Waterways,
		1. cubic yards dredg	ed	
I. 🗌	Land Subject to Coastal Storm Flowage	1. square feet		
Restoration/Enhancement If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.				
a. square	e feet of BVW		b. square feet of Sa	It Marsh
☐ Pro	☐ Project Involves Stream Crossings			
a. numbe	a. number of new stream crossings		b. number of replace	ement stream crossings



2.

Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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C.	Other Applicable Standards and Requirements
	This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).
Stı	reamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review
1.	Is any portion of the proposed project located in Estimated Habitat of Rare Wildlife as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the <i>Massachusetts</i>

Natural Heritage Atlas or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

a. Yes No

If yes, include proof of mailing or hand delivery of NOI to:

Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); OR complete Section C.2.f, if applicable. If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).

to 90 days to review (unless noted exceptions in Section 2 apply, see below).				
c. Submit Supplemental Information for Endangered Species Review*				
1.	Percentage/acreage of property to be altered:			
(a)	within wetland Resource Area	percentage/acreage		
(b)	outside Resource Area	percentage/acreage		
2.	Assessor's Map or right-of-way plan of	site		
Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **				
(a)	Project description (including description buffer zone)	on of impacts outside of wetland resource area &		
(b)	Photographs representative of the site			

not required as part of the Notice of Intent process.

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^{*} Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see https://www.mass.gov/maendangered-species-act-mesa-regulatory-review).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are



3.

Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:			
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C. Other Applicable Standards and Requirements (cont'd)

Make o	(c) MESA filing fee (fee information available at https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review). Make check payable to "Commonwealth of Massachusetts - NHESP" and <i>mail to NHESP</i> at above address			
Projects	Projects altering 10 or more acres of land, also submit:			
(d)	(d) Vegetation cover type map of site			
(e)	(e) Project plans showing Priority & Estimated Habitat boundaries			
(f) OF	(f) OR Check One of the Following			
1. 🗌	1. Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14 https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat ; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)			
2. 🗌	Separate MESA review ongoing.	a. NHESP Tracking # b. Date submitted to NHESP		
3. 🗌 Pe	Separate MESA review completed. Include copy of NHESP "no Take" deter rmit with approved plan.	mination or valid Conservation & Management		
For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?				
a. Not a	applicable – project is in inland resource a	rea only b. 🗌 Yes 🔲 No		
If yes, inclu	ude proof of mailing, hand delivery, or elec	ctronic delivery of NOI to either:		
South Shore - Bourne to Rhode Island border, and the Cape & Islands: North Shore - Plymouth to New Hampshire border:				
Division of Marine Fisheries - Southeast Marine Fisheries Station Attn: Environmental Reviewer 836 South Rodney French Blvd. New Bedford, MA 02744 Email: dmf.envreview-south@mass.gov Division of Marine Fisheries - North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930 Email: dmf.envreview-north@mass.gov				
Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.				
c. Is t	c. Is this an aquaculture project?			
If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).				

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Online Users: Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:			
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C. Other Applicable Standards and Requirements (cont'd)

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

	a. Yes	No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). Note: electronic filers click on Website.		
	b. ACEC			
5.	Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?			
	a. 🗌 Yes	□ No		
6.		ion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?		
	a. 🗌 Yes	□ No		
7.	Is this proj	ect subject to provisions of the MassDEP Stormwater Management Standards?		
		es. Attach a copy of the Stormwater Report as required by the Stormwater Management ards per 310 CMR 10.05(6)(k)-(q) and check if:		
	1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)			
	2. A portion of the site constitutes redevelopment			
	3. Proprietary BMPs are included in the Stormwater Management System.			
	b. No. Check why the project is exempt:			
	1. Single-family house			
	2. Emergency road repair			
	3. 🗌 or	Small Residential Subdivision (less than or equal to 4 single-family houses or less than equal to 4 units in multi-family housing project) with no discharge to Critical Areas.		
D.	Additio	onal Information		
	☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).			
	Applicants must include the following with this Notice of Intent (NOI). See instructions for details.			
	Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.			
	su	GGS or other map of the area (along with a narrative description, if necessary) containing fficient information for the Conservation Commission and the Department to locate the site. lectronic filers may omit this item.)		
	Вс	ans identifying the location of proposed activities (including activities proposed to serve as a ordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to boundaries of each affected resource area.		



WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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		City/Town	
D. Add	litional Information (cont'o		
3. Identify the method for BVW and other resource area boundary delineations (MassDEF Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation and attach documentation of the methodology.			
4. List the titles and dates for all plans and other materials submitted with this NOI. a. Plan Title			
			b. Prepared By
d. I	Final Revision Date	e. Scale	
f. A	Additional Plan or Document Title	g. Date	
5. 🗌	5. If there is more than one property owner, please attach a list of these property owners not listed on this form.		
6.	 Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed. 		
7.			
8. 🗌	8. Attach NOI Wetland Fee Transmittal Form		
9.	9. Attach Stormwater Report, if needed.		

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

Municipal Check Number	3. Check date
State Check Number	5. Check date
6. Payor name on check: First Name	7. Payor name on check: Last Name



WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:			
	MassDEP File Number		
	Document Transaction Number		
	Hamilton		
	City/Town		

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

1. Signature of Applicant	2. Date
Audrey López	October 08, 2024
3. Signatule of Property Owner (if different)	4. Date
Gulfunder	10/21/24
5. Signature of Representative (if any)	6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



NOI Wetland Fee Transmittal Form

A. Applicant Information

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When



important. Which
filling out forms
on the computer,
use only the tab
key to move your
cursor - do not
use the return
key.
_

1. Location of Project: a. Street Address b. City/Town c. Check number d. Fee amount 2. Applicant Mailing Address: a. First Name b. Last Name c. Organization d. Mailing Address e. City/Town f. State g. Zip Code h. Phone Number i. Fax Number j. Email Address 3. Property Owner (if different): a. First Name b. Last Name c. Organization d. Mailing Address e. City/Town f. State g. Zip Code h. Phone Number i. Fax Number j. Email Address

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

B. Fees

Fee should be calculated using the following process & worksheet. Please see Instructions before filling out worksheet.

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

NOI Wetland Fee Transmittal Form

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

В.	Fees (continued)				
	Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee	
				_	
		Step 5/To	otal Project Fee		
		Step 6/	Step 6/Fee Payments:		
		Total	Total Project Fee:		
		State share	of filing Fee:	b. 1/2 Total Fee less \$ 12.50	
		City/Town share	of filling Fee:	c. 1/2 Total Fee plus \$12.50	

C. Submittal Requirements

a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection Box 4062 Boston, MA 02211

b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

appendix

SCHEDULE OF FEES

Applicants are responsible for paying all fees required under the Wetlands Protection Act in addition to the fees listed below. Fees assist in defraying costs incurred by the Conservation Department in the administration and enforcement of the by law.

Request for Determination of Applicability \$125.00

Notice of Intent (a) \$175.00 for projects described under Category 1,

310 CMR 10.03(7) (c) 1 OR

(b) \$500.00 for all other projects except as noted

below

Request to Amend Order of Conditions \$50.00

Request for an Extension of an Order of

Conditions \$50.00

Request for a Certificate of Compliance

If the original Order of Conditions has not expired no charge

If the original Order of Conditions has expired OR

An extension has been issued by the Commission \$50.00

Request for emergency certification \$50.00

Fees are payable to "Town of Hamilton"

Enforcement and Fines:

Any violation of the by law may be subject to fines, pursuant to the language in the by law, as determined by the Commission on a case by case basis.

After the publication of legal notice, and after the opening and closing a public hearing, the fee schedule above was adopted by Hamilton Conservation Commission on August 17, 2011.

7/15/2021 16

Figures

Figure 1: USGS Locus Map

Figure 2a: Permit Site Plan, by Hancock Associates dated 10/21/2024

Figure 2b: Project Elements Plan, by DeRosa Environmental Consulting, Inc.

Figure 2c: Native Species Planting Plan by DeRosa Environmental Consulting, Inc.

Figure 3: MassGIS Aerial Map

Figure 4: MassGIS Wetlands Map

Figure 5: MassGIS NHESP Map

Figure 6: FEMA Firmette Flood Map

20 Beech Street Extension | Hamilton, MA

Figure 1. Topographic Map

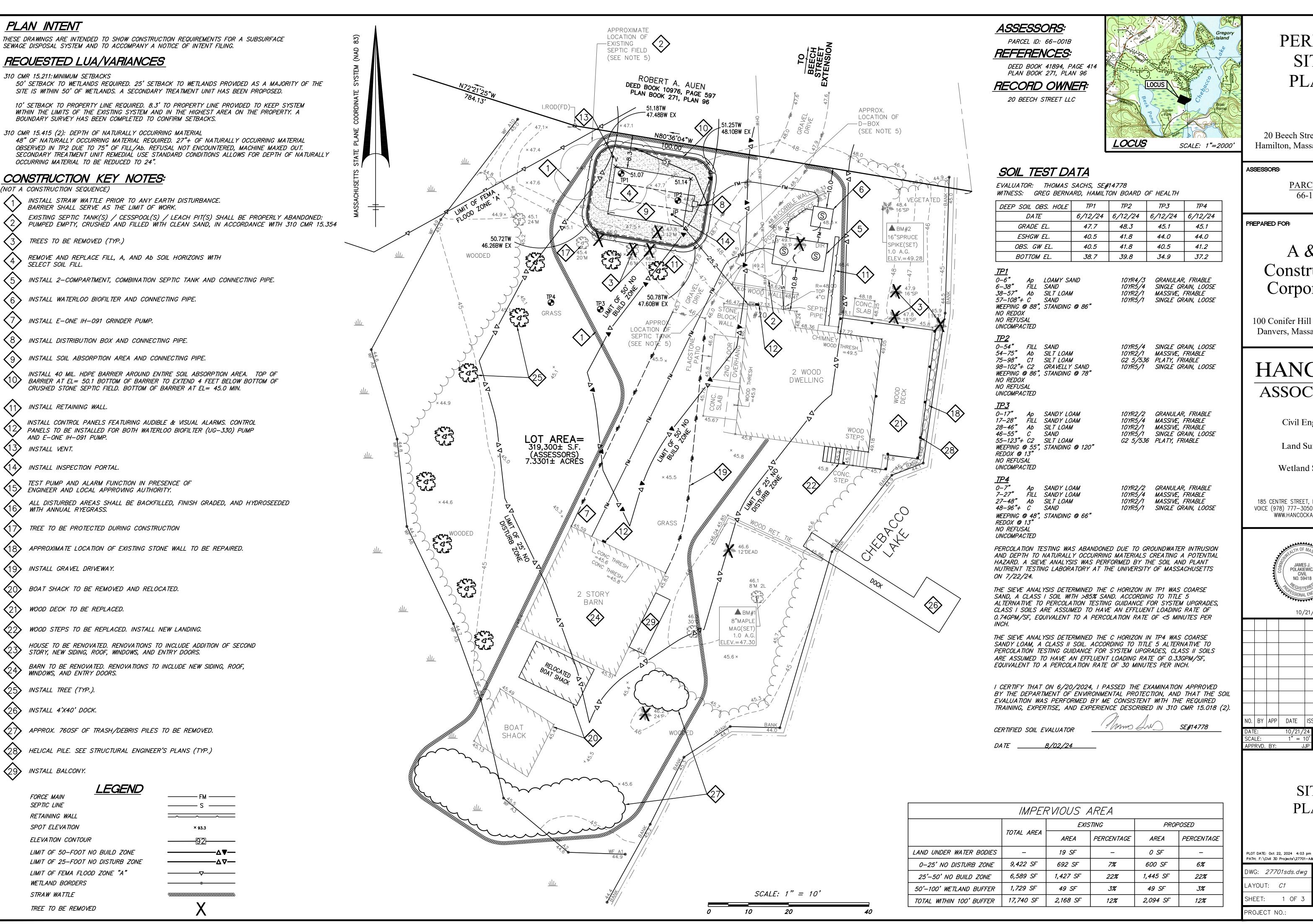


MassMapper USGS Topographic Quadrangle Maps



150 Newburyport Turnpike Suite C-9 Rowley, MA

978.948.7717 Office



PERMIT SITE **PLAN**

20 Beech Street Extension Hamilton, Massachusetts 01982

PARCEL ID 66-1B-B

PREPARED FOR:

A & L Construction Corporation

100 Conifer Hill Drive, Suite 512 Danvers, Massachusetts 01923

HANCOCK **ASSOCIATES**

Civil Engineers

Land Surveyors

Wetland Scientists

185 CENTRE STREET, DANVERS, MA 01923 VOICE (978) 777-3050, FAX (978) 774-7816 WWW.HANCOCKASSOCIATES.COM



10/21/24

).	BY	APP	DATE	ISS	SUE/REVISION	DESCRIPTION
٩T	E:		10/21/2	24	DESIGN BY:	JJP
CALE: $1" = 1$			0'	DRAWN BY:	JTE	
PPRVD. BY: J			J.	JP	CHECK BY:	RMD

SITE **PLAN**

PATH: F:\Civil 3D Projects\27701-A&L Construction Corp-Hamilton\Eng\[

WG: <i>27701sds.dwg</i>	
AYOUT: C1	
HEET: 1 OF 3	

27701

GENERAL NOTES

- 1. THE HORIZONTAL DATUM FOR THIS SURVEY IS THE MASSACHUSETTS COORDINATE SYSTEM, NAD 1983, MAINLAND ZONE. THE VERTICAL DATUM FOR THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). SAID DATUMS WERE ESTABLISHED VIA GPS OBSERVATIONS UTILIZING NAD83 (NA2011) EPOCH 2010.00 (MYCS2) AND GEOID 18.
- 2. UTILITIES SHOWN HEREON FROM FIELD LOCATIONS OF SURFACE STRUCTURES. NO UNDERGROUND UTILITIES WERE INCLUDED AS PART OF THIS SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION, SIZE & ELEVATION OF ALL UTILITIES WITHIN THE AREA OF PROPOSED WORK AND TO CONTACT "DIG-SAFE" AT 811 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION. DEMOLITION OR CONSTRUCTION
- LIMITS OF BORDERING VEGETATED WETLANDS SHOWN HEREON WERE DELINEATED BY DEROSA ENVIRONMENTAL CONSULTING, INC. ON 1/3/2024 AND LOCATED BY FIELD SURVEY.
- 4. LIMIT OF FEMA FLOOD ZONE 'A' COMPILED FROM FEMA MAP 25009C0427F EFFECTIVE 7/3/2012. NO BASE FLOOD ELEVATION NOTED ON SAID PLAN.
- APPROXIMATE LOCATION OF UNDERGROUND SEPTIC FEATURES SHOWN HEREON FROM "TITLE 5 OFFICIAL INSPECTION FORM" BY JESSICA A WISTRAN PROVIDED BY THE TOWN OF HAMILTON. EXACT LOCATION IS UNKNOWN.
- 6. LOCATIONS OF EXISTING UNDERGROUND UTILITIES/OBSTRUCTIONS/SYSTEMS SHOWN HEREON ARE APPROXIMATE ONLY. ALL UTILITIES/OBSTRUCTIONS/SYSTEMS MAY NOT BE SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES/OBSTRUCTIONS/ SYSTEMS, WHETHER OR NOT SHOWN HEREON.
- UNLESS OTHERWISE SHOWN, ALL NEW UTILITIES SHALL BE UNDERGROUND. CONTRACTOR SHALL FURNISH CONSTRUCTION LAYOUT OF BUILDING, SEPTIC SYSTEM, AND SITE IMPROVEMENTS. THIS WORK SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY LINES SHOWN HEREON ARE APPROXIMATE.
- 9. SAFETY MEASURES, CONSTRUCTION METHODS AND CONTROL OF WORK SHALL BE RESPONSIBILITY OF THE CONTRACTOR.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION THAT ARE NOT DESIGNATED FOR DEMOLITION AND/OR REMOVAL HEREON. DAMAGED IMPROVEMENTS SHALL BE REPAIRED TO THE SATISFACTION OF THEIR RESPECTIVE OWNERS.
- ANY INTENDED REVISION OF THE HORIZONTAL AND/OR VERTICAL LOCATION OF IMPROVEMENTS TO BE CONSTRUCTED AS SHOWN HEREON SHALL BE REVIEWED AND APPROVED BY ENGINEER PRIOR TO IMPLEMENTATION.
- 12. RIM ELEVATIONS SHOWN FOR NEW STRUCTURES ARE APPROXIMATE AND ARE PROVIDED TO ASSIST CONTRACTOR WITH MATERIAL TAKEOFFS. FINISH RIM ELEVATIONS SHOULD MATCH PAVEMENT, GRADING, OR LANDSCAPING, UNLESS SPECIFICALLY INDICATED OTHERWISE.
- 13. WHERE EXISTING UTILITY LINES/STRUCTURES ARE TO BE CUT/BROKEN DOWN/ABANDONED, LINES/ STRUCTURES SHALL BE PLUGGED/CAPPED/FILLED IN ACCORDANCE WITH OWNER REQUIREMENTS.
- 14. ALL WORK ON SEWAGE DISPOSAL SYSTEM SHALL BE COMPLETED BY A LICENSED "DISPOSAL WORKS INSTALLER."
- 15. THE ISSUANCE OF A PERMIT TO CONSTRUCT, OR A CERTIFICATE OF COMPLIANCE, SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE DISPOSAL SYSTEM WILL FUNCTION SATISFACTORILY.
- 16. THE CONTRACTOR SHALL VERIFY THE LOCATION AND RELATIVE ELEVATION OF BENCH MARKS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER.
- 17. STRUCTURE DETAILS FROM INDEPENDENT VENDORS ARE CONSTANTLY CHANGING. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT DETAILS SHOWN MATCH CURRENT DETAILS AND SPECIFICATIONS FROM VENDORS.
- 18. BACKWASH FROM A WATER SOFTENER SHALL NOT BE DISCHARGED INTO THE SUBSURFACE SEWAGE DISPOSAL SYSTEM, BUT INTO A SEPARATE DRY WELL OR ONTO GROUND PER 310 CMR 15.004(9)
- 19. MAGNETIC TAPE IS TO BE PLACED OVER ALL SYSTEM COMPONENTS BEFORE BACKFILLING, 15.221(12).
- 20. PERIMETER OF SOIL ABSORPTION SYSTEM TO BE STAKED AND FLAGGED FROM BEFORE CONSTRUCTION UNTIL ISSUANCE OF CERTIFICATE OF COMPLIANCE, 15.246(2).

SITE NOTES

- ALL SEWAGE DISPOSAL SYSTEM COMPONENTS ARE GREATER THAN 400 FEET AWAY FROM SURFACE WATER RESERVOIRS AND GREATER THAN 400 FEET FROM TRIBUTARIES TO SURFACE WATER RESERVOIRS.
- THERE ARE NO WELLS WITHIN 150 FEET OF THE SOIL ABSORPTION AREA.
- THERE ARE NO COASTAL WETLANDS WITHIN 200 FEET OF SOIL ABSORPTION AREA. 4. SITE LIES WITHIN A ZONE II, A NITROGEN SENSITIVE AREA.
- 5. SITE LIES WITHIN A FEMA FLOOD ZONE A.
- 6. EROSION CONTROL SHOWN HEREON SHALL BE INSTALLED BEFORE EARTH DISTURBANCE OCCURS AND SHALL SERVE AS THE LIMIT OF WORK.

REGULATORY NOTES

- CONTRACTOR SHALL CONTACT DIG-SAFE FOR UNDERGROUND UTILITY MARKING AT 811 AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF ANY WORK.
- 2. CONTRACTOR SHALL MAKE HIMSELF AWARE OF ALL CONSTRUCTION REQUIREMENTS, CONDITIONS, AND LIMITATIONS IMPOSED BY PERMITS AND APPROVALS ISSUED BY REGULATORY AUTHORITIES PRIOR TO COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL COORDINATE AND OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY REGULATORY AUTHORITIES.
- ALL WORK OUTSIDE OF BUILDING THAT IS LESS THAN 10 FEET FROM THE INSIDE FACE OF BUILDING FOUNDATIONS SHALL CONFORM WITH THE UNIFORM STATE PLUMBING CODE OF MASSACHUSETTS, 248 CMR 2.00.
- ALL WORK SHALL COMPLY WITH TITLE V AND LOCAL BOARD OF HEALTH REGULATIONS EXCEPT AS PROVIDED BY APPROVED WAIVERS.

SELECT SOIL FILL SPECIFICATION

- (310 CMR 15.255)
- SELECT SOIL FILL MATERIAL FOR SYSTEM CONSTRUCTION IN FILL MAY CONSIST OF SELECT ON-SITE SOIL, OR IMPORTED SOIL.
- 2. SELECT SOIL FILL MATERIAL SHALL BE COMPRISED OF CLEAN, GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MAXIMUM PARTICLE SIZE SHALL
- 3. A SIEVE ANALYSIS SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE OF THE FILL. UP TO 45% BY WEIGHT OF THE FILL SAMPLE MAY BE RETAINED ON A #4 SIEVE. A SIEVE ANALYSIS SHALL ALSO BE PERFORMED ON THE FRACTION OF THE FILL SAMPLE PASSING THE #4 SIEVE. SUCH ANALYSIS SHALL DEMONSTRATE THAT THE MATERIAL PASSING THE #4 SIEVE MEETS THE FOLLOWING GRADATION:

<u>SIEVE</u>	EFFECTIVE <u>PARTICLE SIZE</u>	PERCENT <u>PASSING SIEVE</u>
#4 #50	4.75 mm 0.30 mm	100 10 To 100
 #100	0.15 mm	0 To 20
#200	0.075 mm	0 To 5

SEPTIC TANK COMPUTATIONS (310 CMR 15.223)

- 1. FIRST COMPARTMENT 200% DAILY FLOW = 660 GAL.
- 2. SECOND COMPARTMENT 100% DAILY FLOW = 330 GAL.
- 1,340/660 GAL., 2 COMPARTMENT TANK (2,000 GAL) 3. REQUIRED:

FLOW AND AREA COMPUTATIONS (310 CMR 15.242)

330 GALLONS

12' X 19' = 228 SF

<u>FLOW</u> SINGLE FAMILY DWELLING 1. BUILDING USE : 2. NO. OF BEDROOMS 3. DESIGN FLOW . 110 GPD/BEDROOM 4. TOTAL DAILY FLOW 220 GALLONS

SOIL ABSORPTION SYSTEM REQUIREMENTS 1. DESIGN PERCOLATION RATE . <5 MINUTES PER INCH [1]

5. MIN. ALLOWABLE DAILY FLOW:

7. TOTAL AREA PROVIDED:

- 2. SOIL CLASS CLASS / 3. LONG TERM ACCEPT. RATE: 0.74 GAL./SF [1] 4. GARBAGE GRINDER: 446 SF 5. TOTAL AREA REQ'D — CONVENTIONAL. 6. TOTAL AREA REQ'D - SECONDARY TREATMENT (50% REDUCTION) [2]: 223 SF
- [1] A SIEVE ANALYSIS WAS USED IN LIEU OF TRADITIONAL SOIL TESTING. SIEVE ANALYSIS DETERMINED SOILS TO BE SILT LOAM. PER TITLE 5 ALTERNATIVE TO PERCOLATION TESTING GUIDANCE FOR SYSTEM UPGRADES, CLASS I SOILS WITH >85% SAND CONTENT HAVE A LONG TERM ACCEPTANCE RATE OF 0.74 GPD/SF, EQUIVALENT TO A <5 MINUTES PER INCH PERCOLATION RATE.
- [2] PER MASS DEP REMEDIAL USE STANDARD CONDITIONS FOR SECONDARY TREATMENT UNITS, THE SIZE OF THE SAS MAY BE REDUCED BY UP TO 50%.

WATERLOO PUMP SPECIFICATIONS (310 CMR 15.231)

<u> PU</u>	<u>IMPS</u>	
1.	NO. OF PUMPS REQUIRED:	
2.	STATIC HEAD:	7.2 FEET
<i>3</i> .	TOTAL DYNAMIC HEAD AT FLOW:	15.0' @ 69 GPN
4.	IMPELLER DIAMETER:	5.44 IN
<i>5</i> .	SOLIDS HANDLING:	2
6.	MANUF./MODEL (OR EQUAL):	PEABODY-BARNES SE41
<i>7</i> .	HORSEPOWER/SPEED:	0.4/1750 RPN
8.	VOLTAGE/PHASE:	115/

CONTROL PANEL

MANUF: BARNES	TYPE: STANDARD SIMPL
MODEL: 065400	PROVIDE MANUAL ON/O. SWITCH FOR PUMP.
1 O 1 TO	

<u>FLOATS</u> NO. REQUIRED: 3 TYPE: MERCURY SWITCH

MANUF./MODEL: BARNES 73612 OR 73613 <u>ALARM</u> MANUF. BARNES TYPE: VISUAL AND AUDIBLE

MODEL: 061487 VISUAL LEG TO REMAIN ON UNTIL REPAIRS INITIATED. ALARM AND PUMP TO BE ON SEPARATE CIRCUITS.

WATERLOO DOSING CHAMBER CAPACITY (310 CMR 15.254)

<u>DOS</u>	SING CHAMBER VOLUME		
1.	FORCE MAIN LENGTH:	<i>35</i>	FT.
<i>2</i> .	FORCE MAIN DIAMETER:	2	//V.
<i>3</i> .	FORCE MAIN VOLUME:	<i>5.7</i>	GAL
<i>4</i> .	DOSES PER DAY:		4
<i>5</i> .	AVERAGE DAILY FLOW:	<i>330</i>	GPD
<i>6</i> .	MIN. VOLUME PER DOSE:	<i>82.5</i>	GPD
<i>7</i> .	DESIGN VOLUME PER DOSE		
	3. PLUS 6.):	88.2	GAL
<i>8</i> .	EMERGENCY STORAGE REQUIRED (5.):	330	GAL
9.	MIN. TOTAL VOLUME REQUIRED		
	BELOW INLET (7. PLUS 8.):	419	GAL
10.	USE CAPACITY:	631	GAL

PIPE SPECIFICATIONS

<u>SEGMENT</u>	<u>DIA. (IN.)</u>		<u>MATERIAL</u> [4] [5]	MIN. SLOPE (IN/FT.)
BUILDING TO SEPTIC TANK	4	PVC	SCH 40, ASTM D1785	1/4
SEPTIC TANK TO PUMP CHAMBER	1	PVC	SDR 35, ASTM D3034	1/8
PUMP CHAMBER TO D-BOX	2	PVC	SDR 21, ASTM D2241	N.A.
D-BOX TO SOIL ABSORPTION ARE	Ā 4	PVC	SDR 35, ASTM D3034	1/8 [2]
SOIL ABSORPTION AREA	4	PVC	PERFORATED [3], SDR 35, ASTM D3034 (FOR GRAVITY SY	1/16 STEMS ONLY)

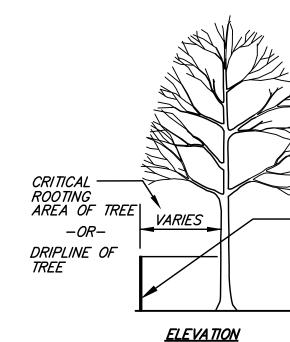
- [1] ALL PIPE SHALL BE PROPERLY BEDDED, HAUNCHED, BACKFILLED. ALL JOINTS SHALL BE WATERTIGHT.
- [2] PIPE SHALL BE LAID LEVEL, FIRST 2 FEET DOWNSTREAM FROM DISTRIBUTION BOX.
- [3] PERFORATIONS DOWN AT 5 AND 7 O'CLOCK (FOR GRAVITY SYSTEMS ONLY).
- [4] UNLESS OTHERWISE SPECIFIED ON FLOW PROFILE.
- [5] WHERE SDR 35 PIPE IS SPECIFIED, SCH 40 MAY BE SUBSTITUTED.

SEPTIC TANK BUOYANCY COMPUTATION

PARAMETER	UNIT	VALUE
FINISH GRADE	EL	49.2
INLET INVERT	EL	47.0
OUTSIDE TOP STRUCTURE	EL	48.5
OUTSIDE BOT. STRUCTURE	EL	42.5
ESHGW	EL	44.0
STRUCTURE LENGTH	FT	13.0
STRUCTURE WIDTH	FT	7.0
STRUCTURE FOOTPRINT	SF	91.0
WEIGHT OF STRUCTURE	LB	21,150
WEIGHT OF BALLAST	LB	0
UNIT WEIGHT OF SOIL	PCF	115
WEIGHT OF SOIL COVER	LB	7,668
WEIGHT OF STRUCTURE + WEIGHT OF SOIL COVER	LB	28,818
WEIGHT OF WATER DISPLACED (STRUCTURE)	LB	8,802
NET FORCE	LB	20,017
FACTOR OF SAFETY		3.27

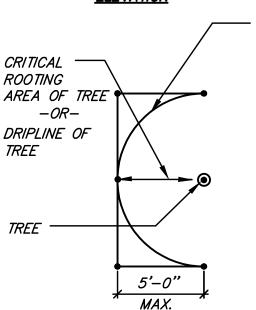
FLOW (gpm)

WATERLOO PERFORMANCE CURVE NOT TO SCALE



(310 CMR 15.251)

6' HIGH CONSTRUCTION FENCE STAKED 5' OC MAXIMUM WITH PRESSED METAL DRIVE STAKES. HAND EXCAVATE WITHIN THIS ZONE. REMOVAL ONLY UPON APPROVAL OF LANDSCAPE ARCHITECT



CONSTRUCTION FENCE OUTSIDE OF CRITICAL ROOTING AREA OF TREE OR DRIPLINE OF TREE. TO BE INSTALLED ON SIDE OF TREE WHERE CONSTRUCTION IS TO BE PERFORMED.

DO NOT STORE ANY MACHINERY OR MATERIALS WITHIN AREA OF THE FENCE. DO NOT DISCARD SLURRY OR CONSTRUCTION MATERIALS WITHIN WATERSHED OF TREES.

CALCULATE "CRITICAL ROOTING AREA" AS: 2.5 x TREE DIAMETER IN INCHES = DIAMETER OF ROOTING AREA IN FEET, OR THE DRIPLINE OF THE TREE (WHICHEVER IS GREATER). WHERE FEASIBLE. GROUPS OF TREES SHOULD BE ENCLOSED TOGETHER.

TREE PROTECTION

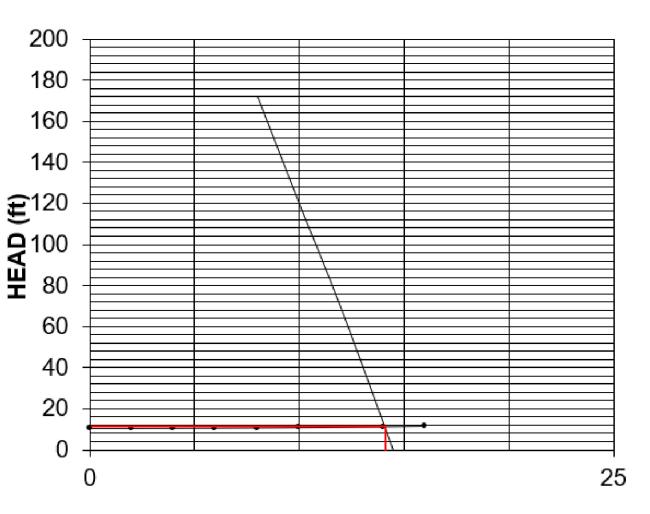
SPACING

<u>PLAN</u>

NOT TO SCALE

WATERLOO BIOFILTER BUOYANCY COMPUTATION

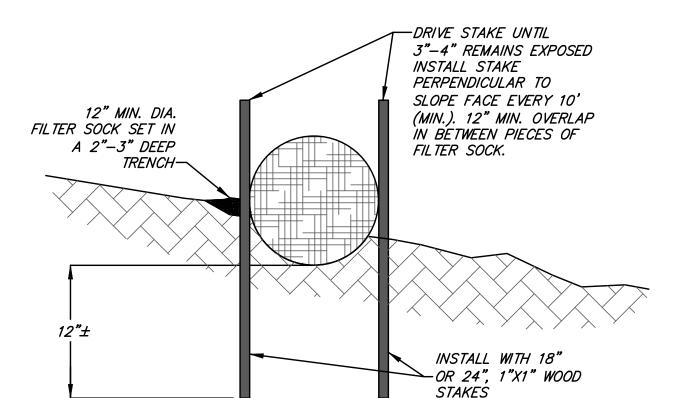
PARAMETER	UNIT	VALUE
FINISH GRADE	EL	48.3
INLET INVERT	EL	46.8
OUTSIDE TOP STRUCTURE	EL	47.8
OUTSIDE BOT. STRUCTURE	EL	41.3
ESHGW	EL	44.0
STRUCTURE LENGTH	FT	5.0
STRUCTURE WIDTH	FT	5.0
STRUCTURE FOOTPRINT	SF	25.0
WEIGHT OF STRUCTURE	LB	6,600
WEIGHT OF BALLAST	LB	0
UNIT WEIGHT OF SOIL	PCF	115
WEIGHT OF SOIL COVER	LB	1,362
WEIGHT OF STRUCTURE + WEIGHT OF SOIL COVER	LB	7,962
WEIGHT OF WATER DISPLACED (STRUCTURE)	LB	2,605
NET FORCE	LB	5,357
FACTOR OF SAFETY		3.06



FLOW (gpm)

—Pump Curve → System Curve

E-ONE PERFORMANCE CURVE NOT TO SCALE



NOTES:

1. SOCK SIZE DEPICTED IS FOR GENERAL USE. GREATER SLOPES MAY REQUIRE LARGER SOCK. COMPOST MATERIAL MAY BE DISPERSED ON SITE AT THE DISCRETION OF THE

APPROVING AUTHORITY PRIOR TO SETTING THE SOCK REMOVE LOOSE LITTER, BRANCHES AND OTHER MATERIAL THAT MAY PREVENT THE SOCK FROM DIRECT CONTACT WITH SOIL.



PERMIT SITE **PLAN**

20 Beech Street Extension Hamilton, Massachusetts 01982

ASSESSORS:

PARCEL ID 66-1B-B

PREPARED FOR:

A & L Construction Corporation

100 Conifer Hill Drive, Suite 512 Danvers, Massachusetts 01923

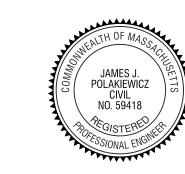
HANCOCK ASSOCIATES

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10/21/24

NO.	BY	APP	DATE	ISS	SUE/REVIS	SION	DESCRIP	TION
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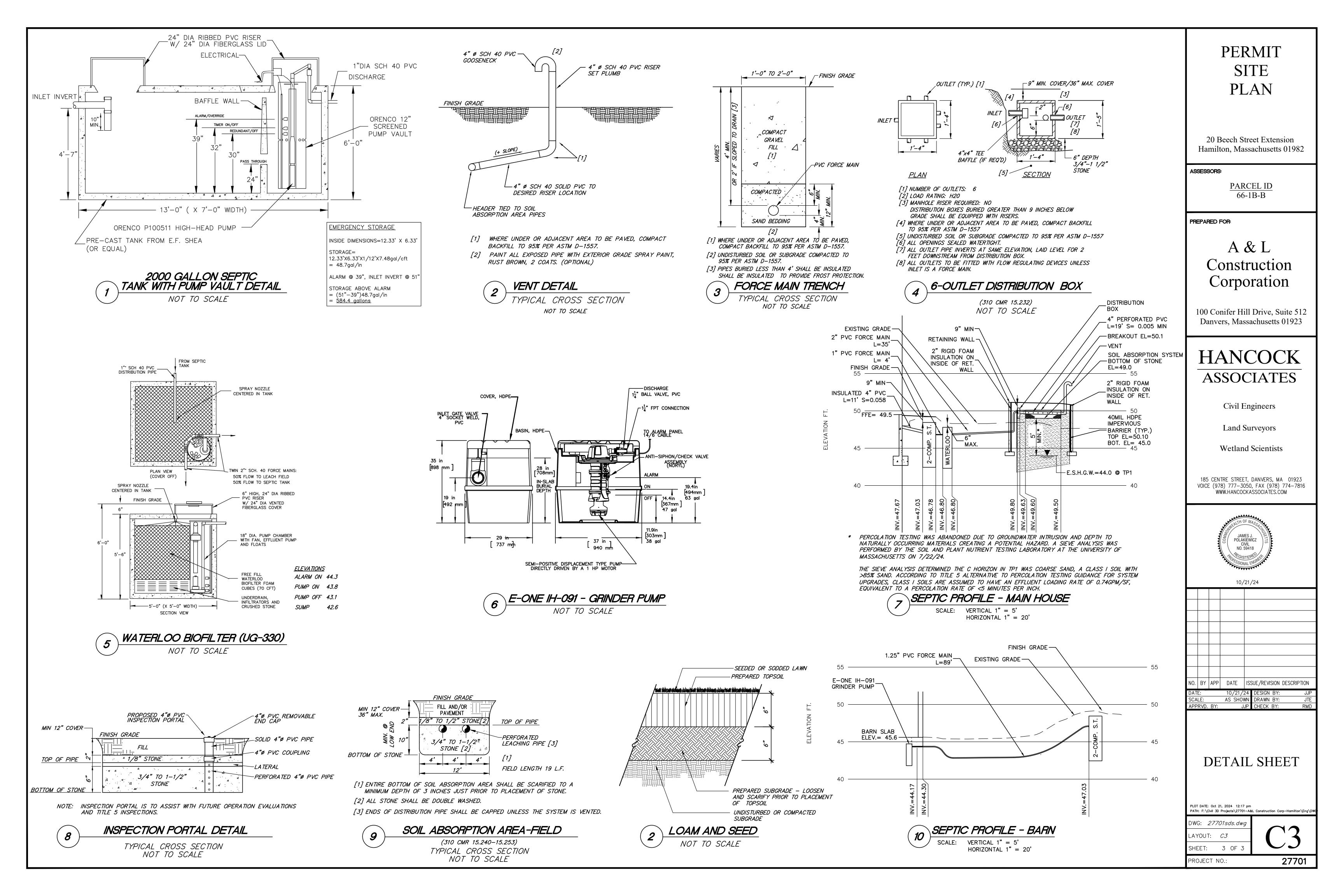
DETAIL SHEET

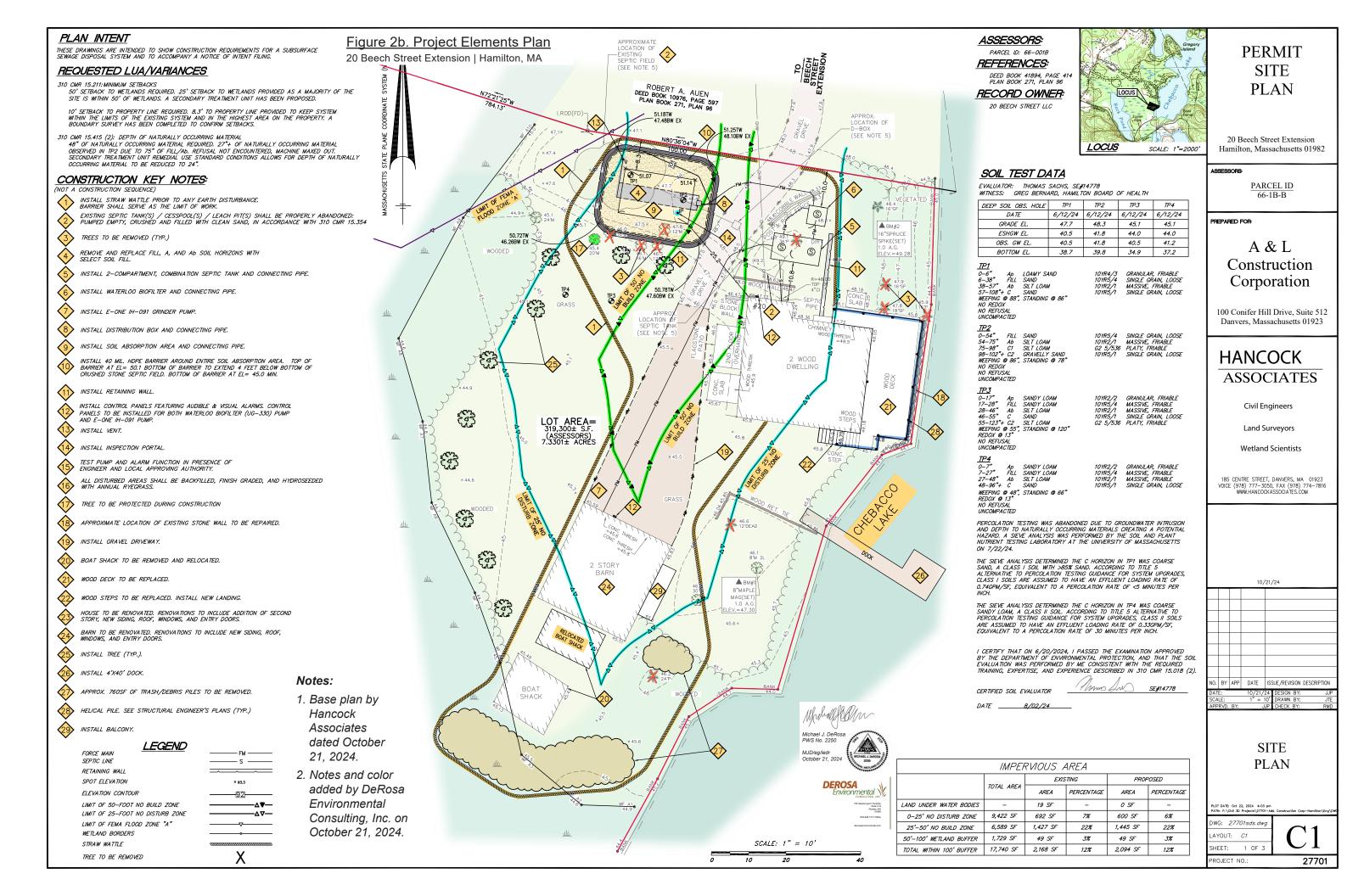
PLOT DATE: Oct 21, 2024 12:16 pm PATH: F:\Civil 3D Projects\27701-A&L Construction Corp-Hamilton\Eng\DV

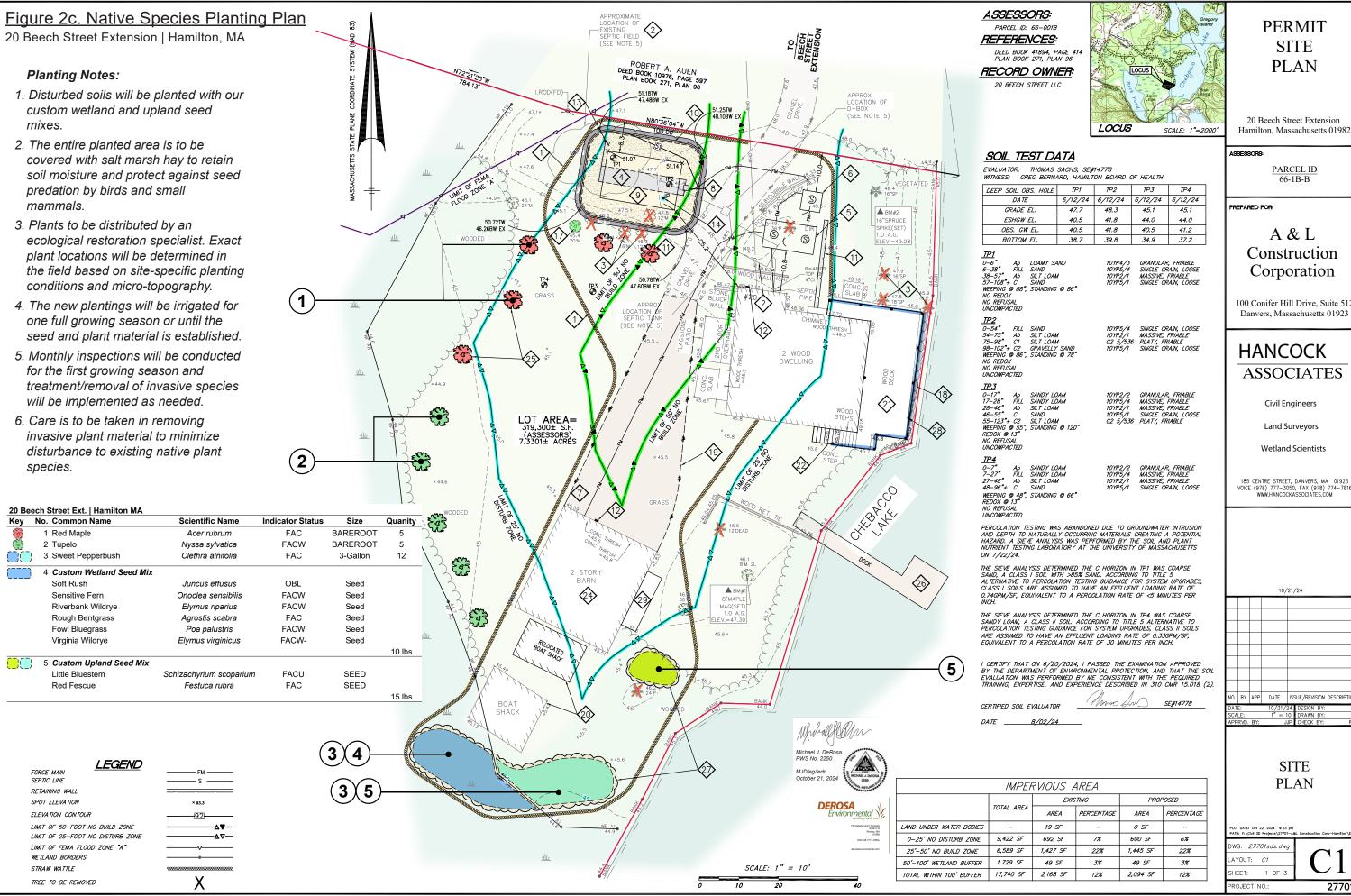
DWG: *27701sds.dwg* _AYOUT: *C2* SHEET: 2 OF 3

PROJECT NO.:

27701







PERMIT SITE **PLAN**

20 Beech Street Extension Hamilton, Massachusetts 01982

PARCEL ID

A & L Construction Corporation

100 Conifer Hill Drive, Suite 512 Danvers, Massachusetts 01923

ASSOCIATES

VOICE (978) 777-3050, FAX (978) 774-7816 WWW.HANCOCKASSOCIATES.COM

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27701

20 Beech Street Extension | Hamilton, MA



Figure 3. Aerial Photograph

MassMapper 2023 Aerial Imagery



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20 Beech Street Extension | Hamilton, MA



Figure 4. Wetlands Map

DEP Wetlands Detailed

- Barrier Beach System
- & Barrier Beach-Deep Marsh
- Barrier Beach-Wooded Swamp Mixed Trees
- Barrier Beach-Coastal Beach
- Barrier Beach-Coastal Dune
- Barrier Beach-Marsh
- . Barrier Beach-Salt Marsh
- Barrier Beach-Shrub Swamp
- Barrier Beach-Wooded Swamp Coniferous
- Barrier Beach-Wooded Swamp Deciduous
- 1 Bog
- Coastal Bank Bluff or Sea Cliff
- E Coastal Beach
- Coastal Dune
- Cranberry Bog
- Deep Marsh
- Barrier Beach-Open Water
- Open Water
- Rocky Intertidal Shore
- ... Salt Marsh
- Shallow Marsh Meadow or Fen
- M Shrub Swamp
- Tidal Flat
- Wooded Swamp Deciduous
- Nooded Swamp Mixed Trees



Newburyport Turnpike Suite C-9 Rowley, MA 01969

978.948.7717 0

20 Beech Street Extension | Hamilton, MA

Figure 5. NHESP Map



- ☑ 章 Areas of Critical Environmental Concern ACECs
- ▼ 市 註 Potential Vernal Pools
- ☑ ☐ 玤 NHESP Priority Habitats of Rare Species
- ☑ 🛅 😤 NHESP Estimated Habitats of Rare Wildlife
- ☑ 盲 註 NHESP Certified Vernal Pools



50 Newburyport Turnpiki Suite C-! Rowley, M 0196:

978.948.7717 Office

20 Beech Street Extension | Hamilton, MA National Flood Hazard Layer FIRMette

Figure 6. FIRMette Map





This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was experted on 9/30/2024 at 3:53 FM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map oreation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



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Appendix A	
Abutter List	
Hamilton Abutter Notification Letter	



Subject Property:

Parcel Number: 66-001B

CAMA Number: 66-01B-000B

Property Address: 20 BEECH ST EXT

Mailing Address: 20 BEECH STREET LLC

100 CONIFER HILL DRIVE #512

JODOIN MICHAEL E TANJA L

SOUTH HAMILTON, MA 01982

DANVERS, MA 01923

Abutters:

Parcel Number:

CAMA Number:

10/1/2024

Parcel Number: 66-0001

CAMA Number: 66-000-0001

Property Address: 24 BEECH ST EXT

66-0002

Mailing Address: VACCARI PATRICIA A BISAILLON

24 BEECH ST EXT

66-000-0002 DENISE A

Property Address: 37 BEECH ST EXT 37 BEECH ST EXT

Mailing Address:

SOUTH HAMILTON, MA 01982

Parcel Number: 66-0003 Mailing Address: DOHERTY BRIAN DOHERTY JESSICA

CAMA Number: 66-000-0003 2 BEECH ST

Property Address: 2 BEECH ST SOUTH HAMILTON, MA 01982

Parcel Number: 66-0004 Mailing Address: POLISSON GEORGE KELLY

CAMA Number: 66-000-0004 16 BEECH ST

Property Address: 16 BEECH ST SOUTH HAMILTON, MA 01982

Parcel Number: 66-0005 Mailing Address: LESTIENNE CAROLE A

CAMA Number: 66-000-0005 38 BEECH ST

Property Address: 38 BEECH ST SOUTH HAMILTON, MA 01982

Parcel Number: 66-0006 Mailing Address: GRANZ JONATHAN KELLY

CAMA Number: 66-000-0006 46 BEECH ST

Property Address: 46 BEECH ST SOUTH HAMILTON, MA 01982

Parcel Number: 66-0007 Mailing Address: POLITIS EDWARD J POLITIS MARISA L

CAMA Number: 66-000-0007 54 BEECH ST

Property Address: 54 BEECH ST SOUTH HAMILTON, MA 01982

Parcel Number: 66-001A Mailing Address: AUEN ROBERT A

CAMA Number: 66-01A-000A 22 BEECH ST EXT

Property Address: 22 BEECH ST EXT SOUTH HAMILTON, MA 01982

Parcel Number: 66-003A Mailing Address: MIMMO ERIC MIMMO ELIS

CAMA Number: 66-03A-000A 3 BEECH ST

Property Address: 3 BEECH ST SOUTH HAMILTON, MA 01982

Parcel Number: 71-0010 Mailing Address: FORD THOMAS C/O T FORD COMPANY

CAMA Number: 71-000-0010 124 TENNEY ST

Property Address: 0 CHEBACCO RD GEORGETOWN, MA 01833





Parcel Number: 71-0015 Mailing Address: ROBERTS JEFFREY

CAMA Number: 71-000-0015 11 VILLA ROAD

Property Address: 10 VILLA RD SOUTH HAMILTON, MA 01982

Parcel Number: 71-0025 Mailing Address: ROBERTS JEFFREY W

CAMA Number: 71-000-0025 11 VILLA RD

Property Address: 11 VILLA RD HAMILTON, MA 01982

Notification to Abutters

By Hand Delivery, Certified Mail (return receipt requested), or Certificates of Mailing

This is a notification required by law. You are receiving this notification because you have been identified as the owner of land abutting another parcel of land for which certain activities are proposed. Those activities require a permit under the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40).

In accordance with the second paragraph of the Massachusetts Wetlands Protection Act, and 310 CMR 10.05(4)(a) of the Wetlands Regulations, you are hereby notified that:

A. A Notice of Intent was filed with the Hamilton Conservation Commission on August 21, 2024 seeking permission to remove, fill, dredge, or alter an area subject to protection under M.G.L. c. 131 §40. The following is a description of the proposed activity/activities:

Proposed improvements to a single-family home and other site improvements.					

- B. The name of the applicant is: 20 Beech Street LLC
- C. The address of the land where the activity is proposed is: 20 Beech Street Ext., Hamilton, MA 01982 (Map 66 Lot 1).
- D. Copies of the Notice of Intent may be examined or obtained at the office of the Hamilton Conservation Commission, located at 577 Bay Road, Hamilton, MA 01936. The regular business hours of the Commission are Monday-Thursday 8am to 12:30pm, and the Commission may be reached at 978-626-5247.
- E. Copies of the Notice of Intent may be obtained from the applicant or their representative by calling Evin Guvendiren, representative) at 978-948-7717. An administrative fee may be applied for providing copies of the NOI and plans.
- F. Information regarding the date, time, and location of the public hearing regarding the Notice of Intent may be obtained from the Hamilton Conservation Commission. Notice of the public hearing will be published at least five business days in advance, in the local newspaper.

Appendix B			
Historic Photos			



























Appendix C
Arborist Letter



October 20, 2024

To Whom It May Concern,

I am writing on behalf of the residents at 20 Beech Street Ext, Hamilton, MA in regards to the 10 trees they need to have removed from the rear of their property. As an arborist, after evaluating these trees, I have several concerns:

- All 10 of these trees are in the construction zone for remodeling and septic install.
- With the small lot size and limited options to install septic, all 10 of these trees will need to be removed.
- If these trees remain, the root systems will get compromised and damaged during construction and will then become a hazard
- As an arborist, we looked at tree protection as well as pruning and unfortunately, neither are a viable option

All of these issues stated above in regards to the 10 trees will pose a threat to the residents of 20 Beech Street Ext if the trees remain, whether it is property damage or personal injury. With that being said, it would be in everyone's best interest to have these trees removed. All stumps will be getting cut flush with the ground so no soil erosion takes place. Please do not hesitate to contact me with any questions or concerns.

Respectfully,

Dennis Silvio

Iron Tree Service

PO Box 12

Wenham, MA 01984

1.978.407.4660

Dennis@IronTreeService.com

Appendix D

Architectural Plans

Structural Plans

Aluminum Dock Specs and Examples

20 BEECH STREET LLC

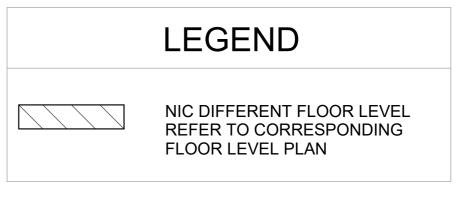
WILLOW HOUSE

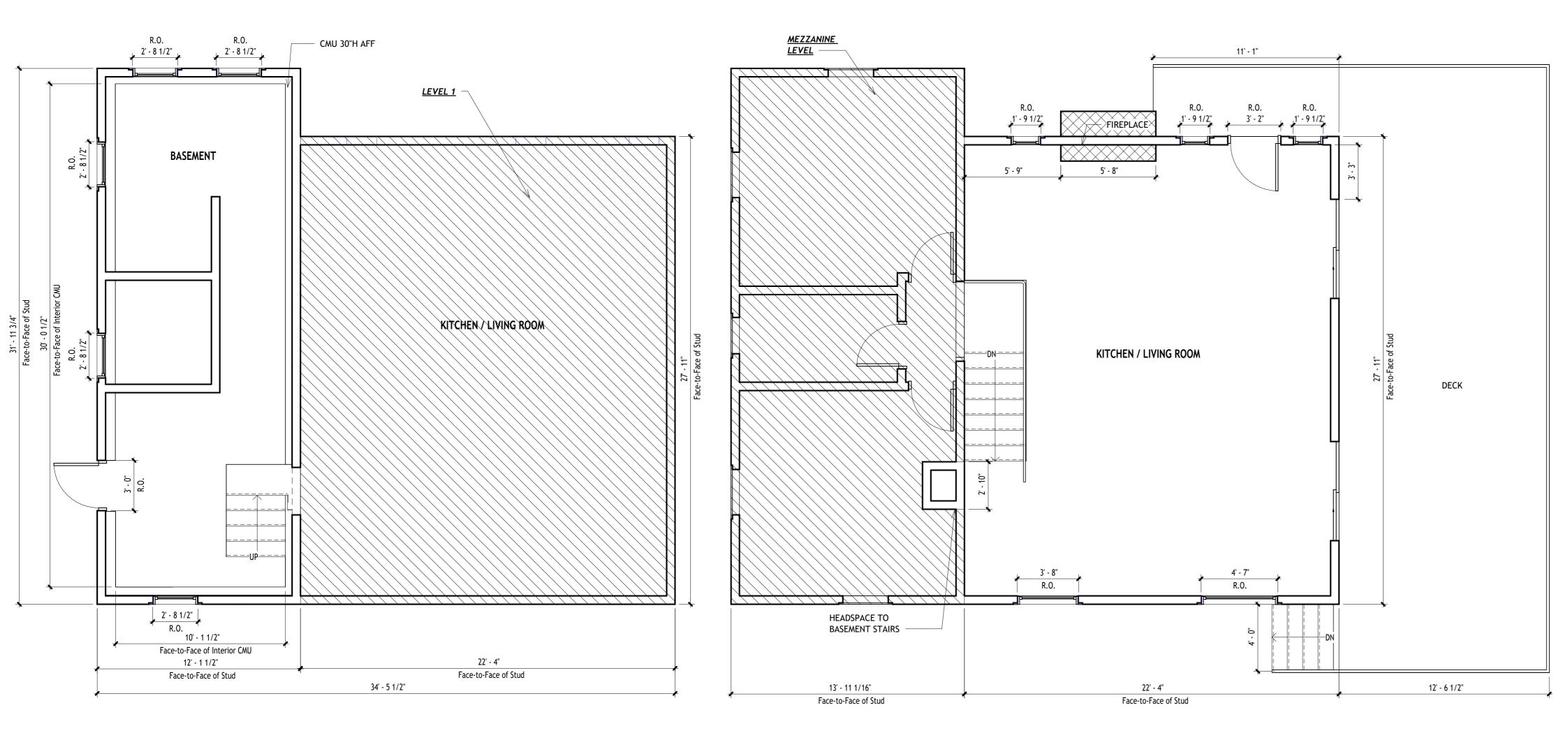
A&L CONSTRUCTION CORP.

Sheet Index					
Sheet Number	Sheet Name				
General					
G100	Cover				
Architectural					
A101	Existing Conditions Floor Plans				
A102	Demolition Floor Plans				
A103	Construction Floor Plans				



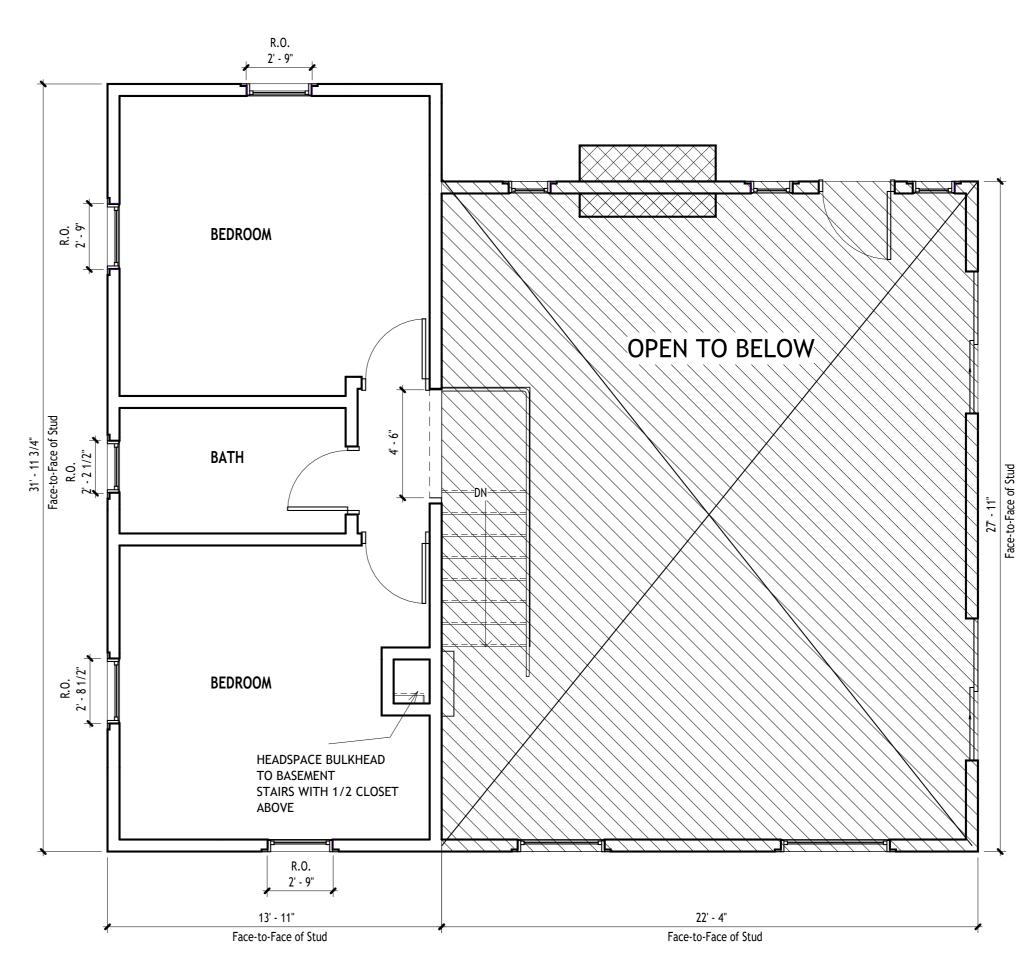






2 Level 1 - Existing 1/4" = 1'-0"

1 Level B - Existing 1/4" = 1'-0"



3 Level 1A - Mezzanine 1/4" = 1'-0"





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PROJECT ADDRESS: 20 BEECH STREET EXTENSION SOUTH HAMILTON, MA 01982

No.	o. Description			

20 BEECH STREET WILLOW HOUSE

Existing Conditions
Floor Plans

020BST Project Number 10/08/24 A101

1/4" = 1'-0" | 8

SOW NOTES

1. ALIGN FINISHED FACES OF NEW AND EXISTING 2. REMOVE EXISTING SIDING AND REPLACE WITH 3. REMOVE EXISTING ROOF AND REPLACE WITH

DEMOLITION LEGEND

DEMOLISHED

- SEE SOW NOTE #2

DEMO HEADSPACE BULKHEAD TO BASEMENT

STAIRS WITH 1/2 CLOSET ABOVE

NIC DIFFERENT FLOOR LEVEL REFER TO CORRESPONDING FLOOR LEVEL PLAN

100 CONIFER HILL DRIVE SUITE 512 DANVERS, MA 01923 978-774-4729 PROJECT DESIGNER/PM: AUDREY LÓPEZ

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A&L

CONSTRUCTION CORP.

BUILD WITH PRIDE

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PROJECT ADDRESS: 20 BEECH STREET EXTENSION SOUTH HAMILTON, MA 01982



20 BEECH STREET WILLOW HOUSE

Demolition Floor Plans

A102				
Checked By	AAL			
Drawn By	AEL			
Date	10/08/24			
Project Number	020BST			

MEZZANINE LEVEL SEE SOW NOTE #2 R.O. R.O. R.O. R.O. FIREPLACE KITCHEN / LIVING ROOM 3' - 8" HEADSPACE TO BASEMENT STAIRS —

BEDROOM OPEN TO BELOW L______ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ BEDROOM R.O. 2' - 9"

1 Level B - Demolition 1/4" = 1'-0"

22' - 4"

Face-to-Face of Stud

SEE SOW NOTE #2

| _ _ _ _ _ _ _ _ _

2' - 8 1/2" R.O.

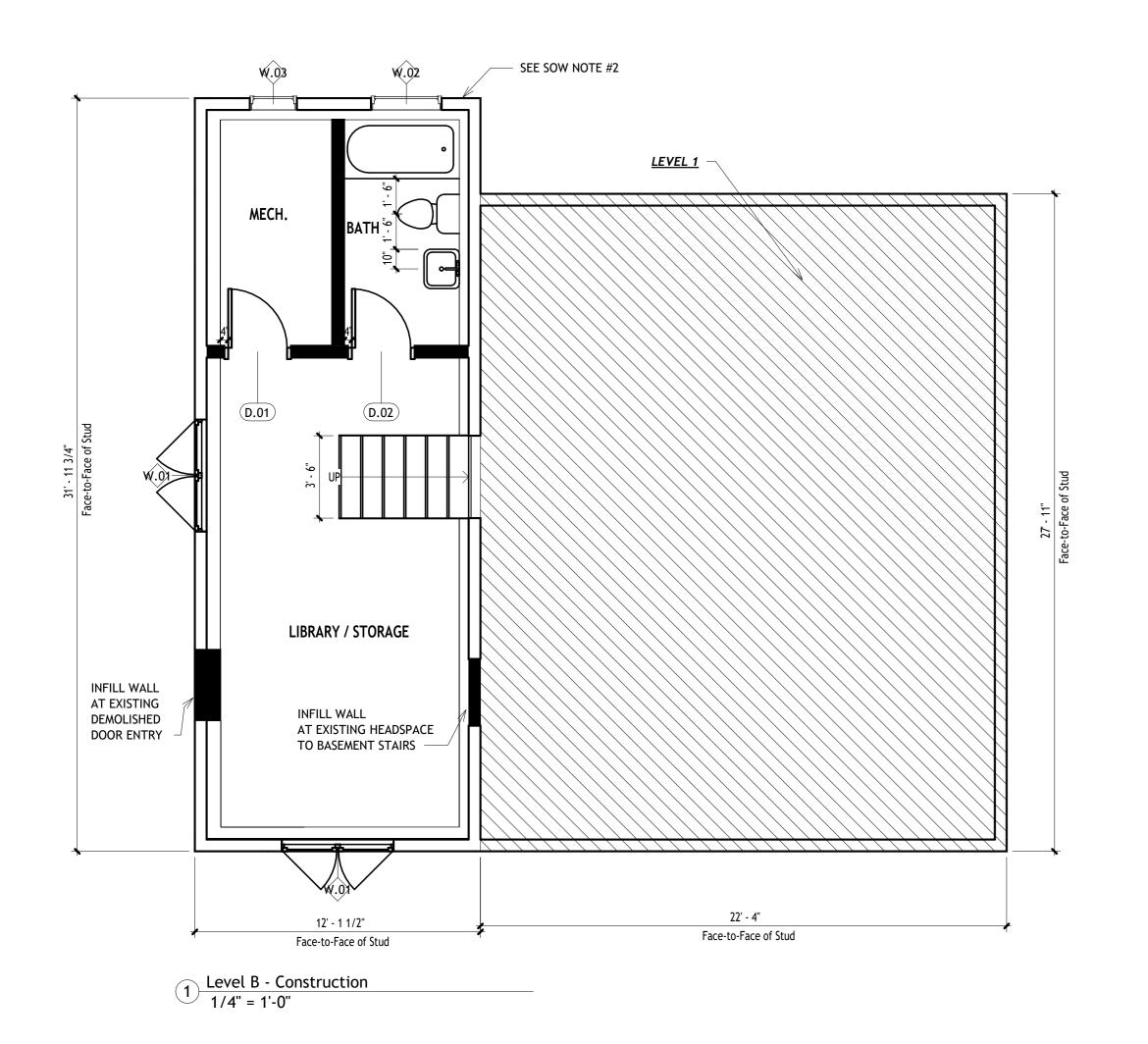
Face-to-Face of Stud

====

DEMO WALL FOR NEW HEADSPACE TO BASEMENT STAIRS -

3 Level 1A Mezzanine - Demolition 1/4" = 1'-0"



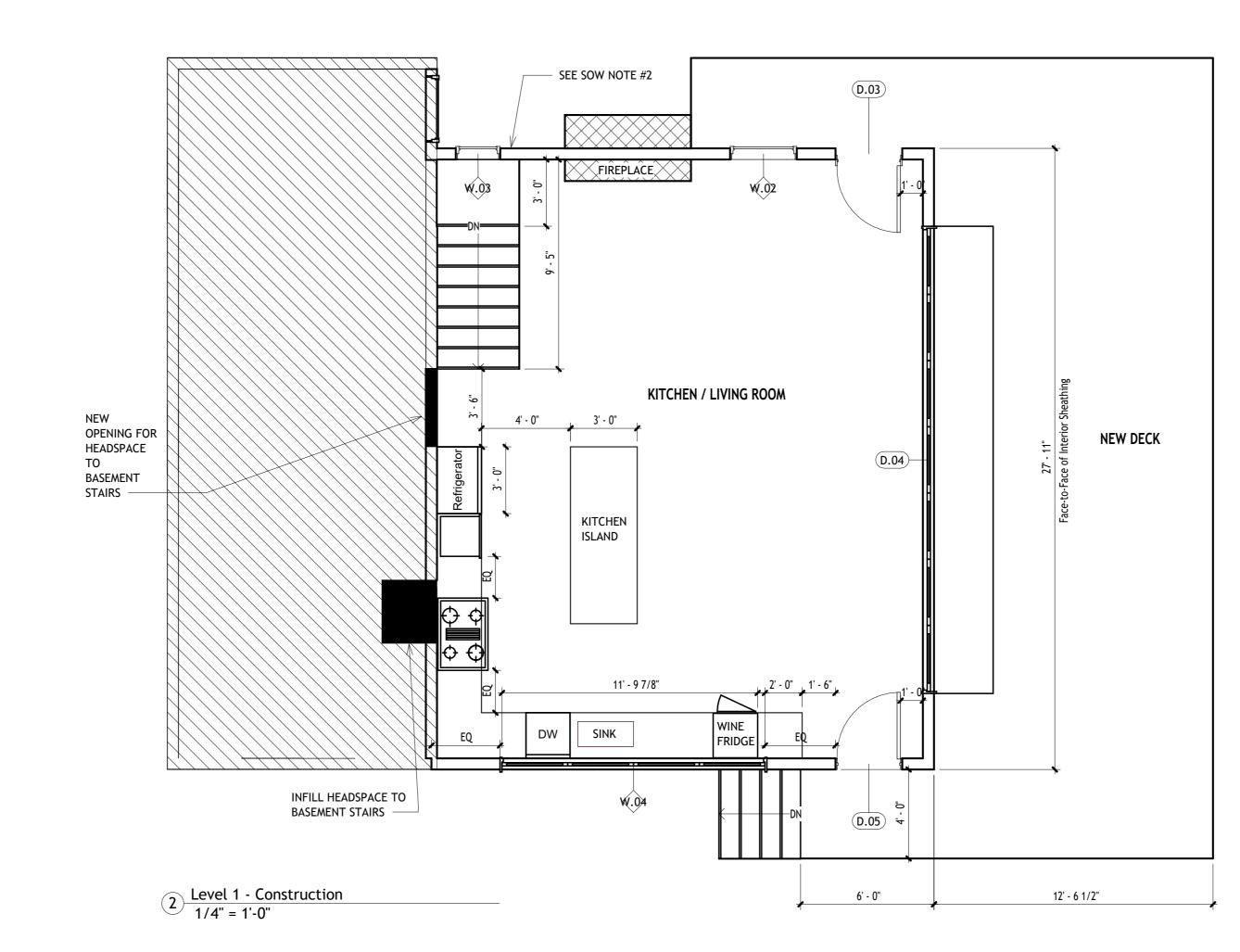


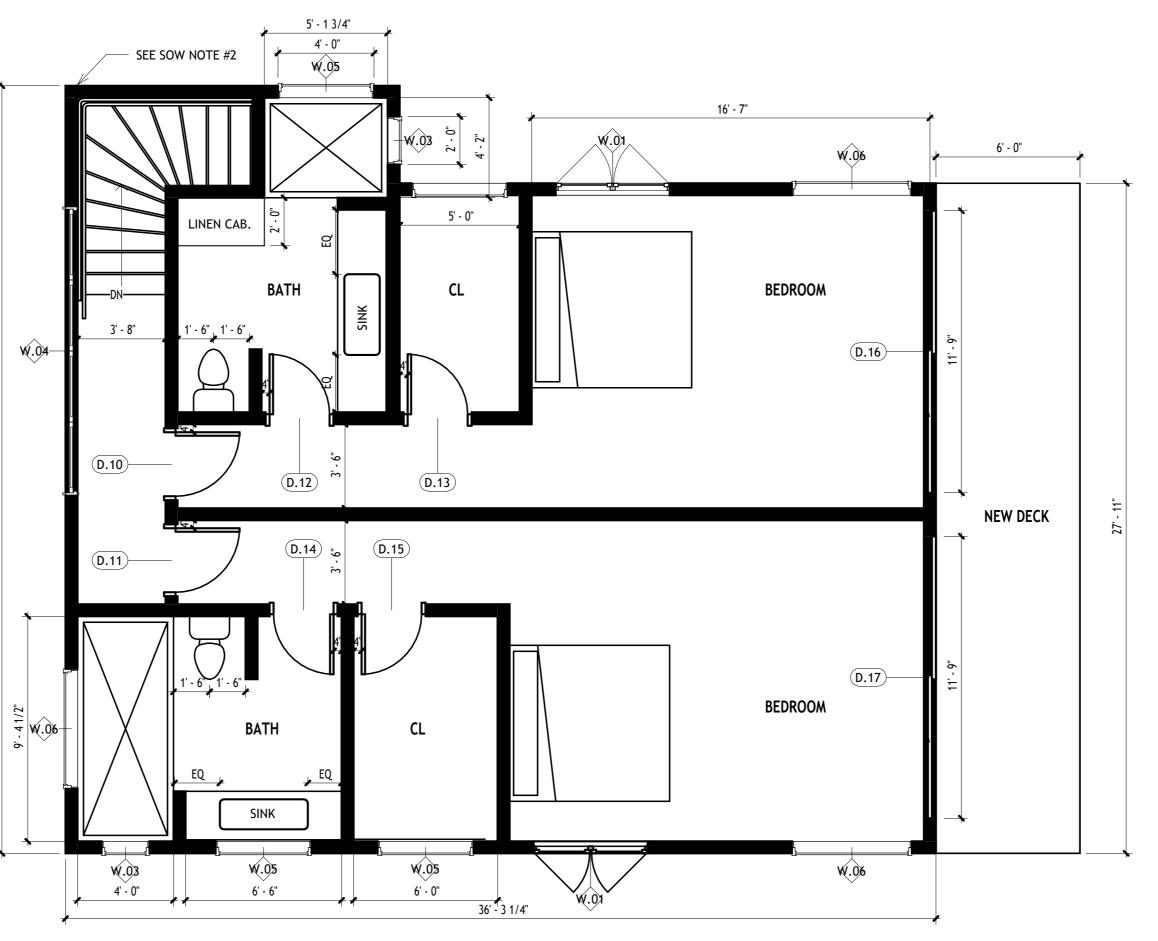
SEE SOW NOTE #2

OPEN TO BELOW

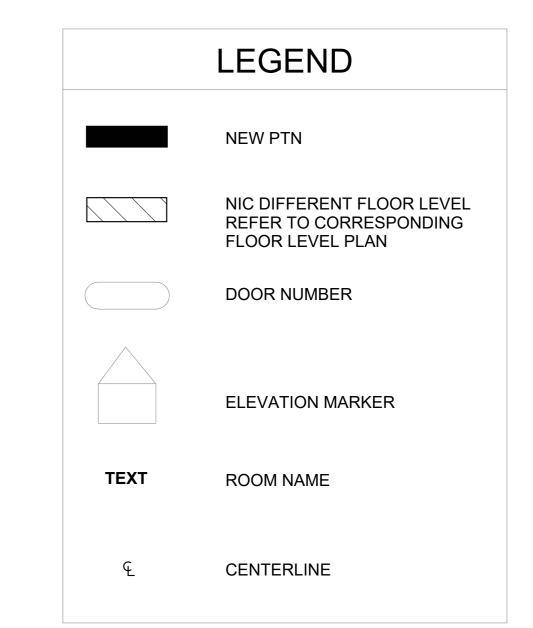
Face-to-Face of Stud

36' - 3 1/4"





1



SOW NOTES

ALIGN FINISHED FACES OF NEW AND EXISTING PARTITIONS
 REMOVE EXISTING SIDING AND REPLACE WITH NEW
 REMOVE EXISTING ROOF AND REPLACE WITH NEW

Door Schedule				
Door				
	S	Size		
Mark	Width	Height	Comments	
D.01	2' - 6"	6' - 8"	solid core interior door	
D.02	2' - 6"	6' - 8"	solid core interior door	
D.03	3' - 0"	8' - 0"	full lite. Alt. Add transom above to match D.04 height	
D.04	21' - 0"	10' - 0"	folding door 7 panels	
D.05	3' - 0"	8' - 0"	full lite. Alt. Add transom above to match D.04 height	
D.06	4' - 0"	6' - 8"	bi-fold solid core interior door	
D.07	2' - 6"	6' - 8"	solid core interior door	
D.08	2' - 6"	6' - 8"	bi-fold solid core interior door	
D.09	2' - 6"	6' - 8"	solid core interior door	
D.10	2' - 8"	6' - 8"	solid core interior door	
D.11	2' - 8"	6' - 8"	solid core interior door	
D.12	2' - 6"	6' - 8"	solid core interior door	
D.13	2' - 6"	6' - 8"	solid core interior door	
D.14	2' - 6"	6' - 8"	solid core interior door	
D.15	2' - 6"	6' - 8"	solid core interior door	
D.16	11' - 9"	6' - 8"	siding patio door	
D.17	11' - 9"	6' - 8"	siding patio door	
N/A	0' - 0"	0' - 0"	solid core interior door	

Window Schedule			
	Size		
Type Mark	Width	Comments	
W.01	4' - 9"	Casement	
W.01	4' - 9"	Casement	
W.01	4' - 9"	Casement	
W.02	3' - 0"	Casement	
W.02	3' - 0"	Casement	
W.03	2' - 0"	Casement	
W.03	2' - 0"	Casement	
W.03	2' - 0"	Casement	
W.03	2' - 0"	Casement	
W.04	12' - 0"	Casement	
W.05	4' - 0"	Clerestory type if tagged in bathroom and/or closet	
W.05	4' - 0"	Clerestory type if tagged in bathroom and/or closet	
W.05	4' - 0"	Clerestory type if tagged in bathroom and/or closet	
W.05	4' - 0"	Clerestory type if tagged in bathroom and/or closet	
W.06	5' - 0"	Clerestory type if tagged in bathroom and/or closet	
W.06	5' - 0"	Clerestory type if tagged in bathroom and/or closet	
W.06	5' - 0"	Clerestory type if tagged in bathroom and/or closet	



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GC:
A&L CONSTRUCTION CORP.
100 CONIFER HILL DRIVE
SUITE 512
DANVERS, MA 01923
978-774-4729
PROJECT DESIGNER/PM:
AUDREY LÓPEZ

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PROJECT ADDRESS: 20 BEECH STREET EXTENSION SOUTH HAMILTON, MA 01982

No.	Description	Date

20 BEECH STREET
LLC
WILLOW HOUSE

Construction Floor Plans

 Project Number
 020BST

 Date
 10/08/24

 Drawn By
 AEL

 Checked By
 AEL

Scale

020BST 10/08/24 AEL AEL 1/4" = 1'-0"

Level 1A Mezzanine - Construction
1/4" = 1'-0"

Face-to-Face of Stud

NEW LINEN CLOSET ABOVE 3'H HEADSPACE

INFILL HEADSPACE BULKHEAD TO BASEMENT

3 10 Level 2 - Construction 1/4" = 1'-0"

SOW NOTES

 ALIGN FINISHED FACES OF NEW AND EXISTING PARTITIONS
 REMOVE EXISTING SIDING AND REPLACE WITH NEW 3. REMOVE EXISTING ROOF AND REPLACE WITH

DEMOLITION LEGEND DEMOLISHED NEW PTN

NEW PTN

ARL CONSTRUCTION CORP. BUILD WITH PRIDE

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A&L CONSTRUCTION CORP. 100 CONIFER HILL DRIVE SUITE 512 DANVERS, MA 01923 978-774-4729 PROJECT DESIGNER/PM: AUDREY LÓPEZ

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PROJECT ADDRESS: 20 BEECH STREET EXTENSION SOUTH HAMILTON, MA 01982



20 BEECH STREET WILLOW HOUSE

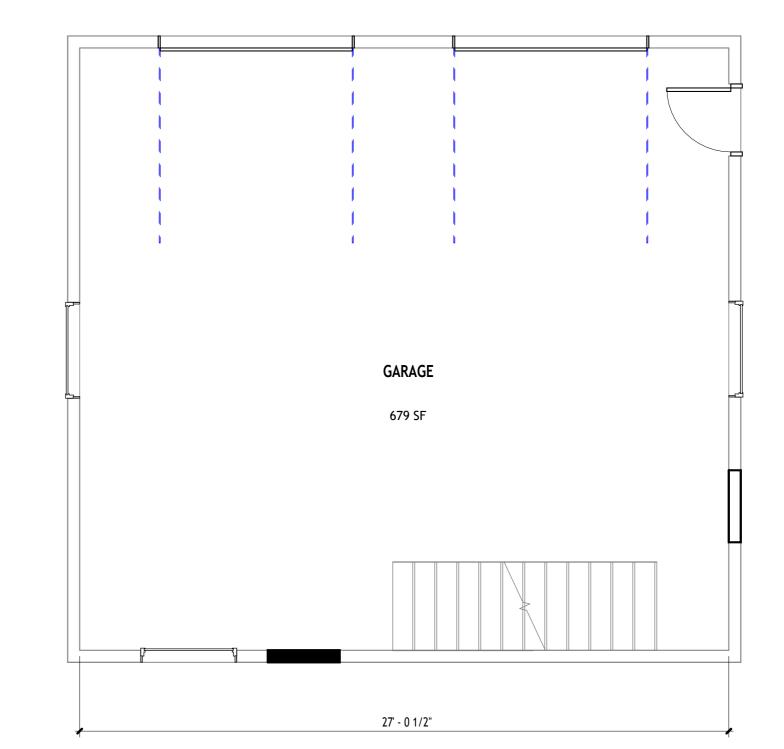
GARAGE

roject Number	020BST
ate	10/08/24
rawn By	AEL
hecked By	AEL
A A O A	

A101 1/4" = 1'-0"

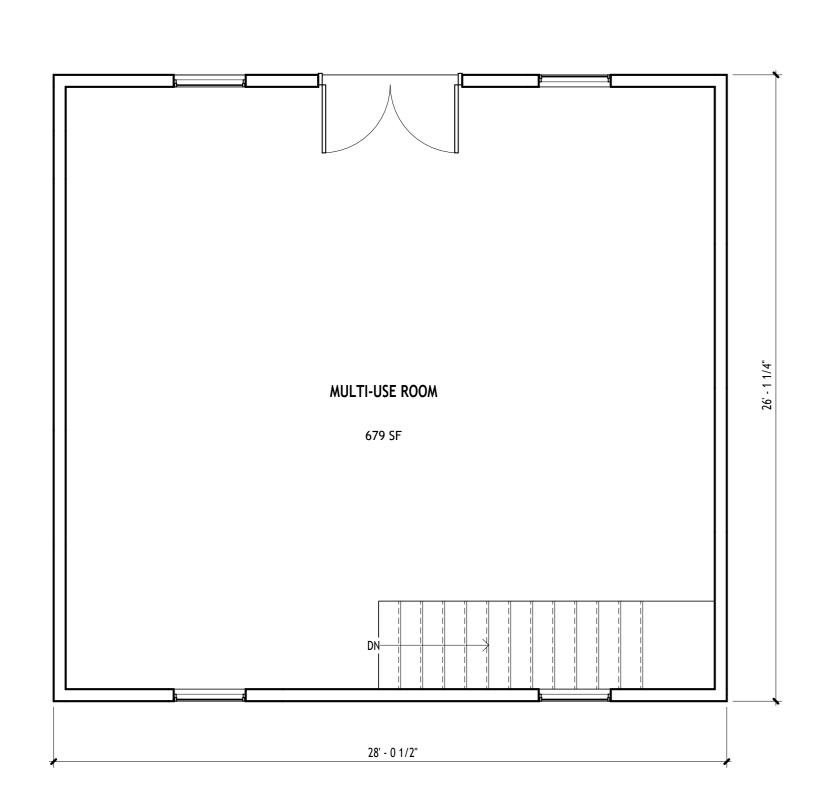
SEE SOW NOTE #2 **⊨=====**=== ı ⊨===

28' - 0 1/2"



Level 1 Existing Conditions

1/4" = 1'-0"



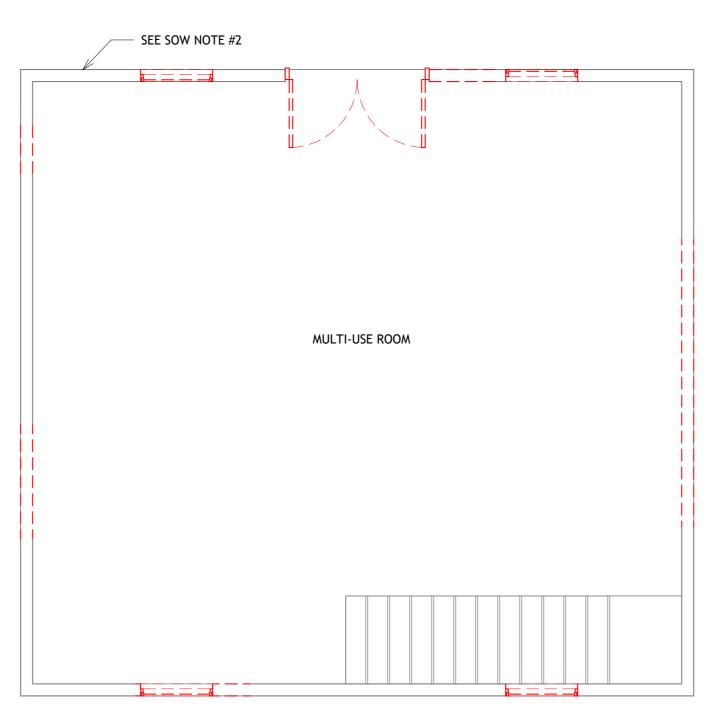
GARAGE

679 SF

28' - 0 1/2"

2 Level 1 Demolition
1/4" = 1'-0"

5 Level 2 Demolition
1/4" = 1'-0"



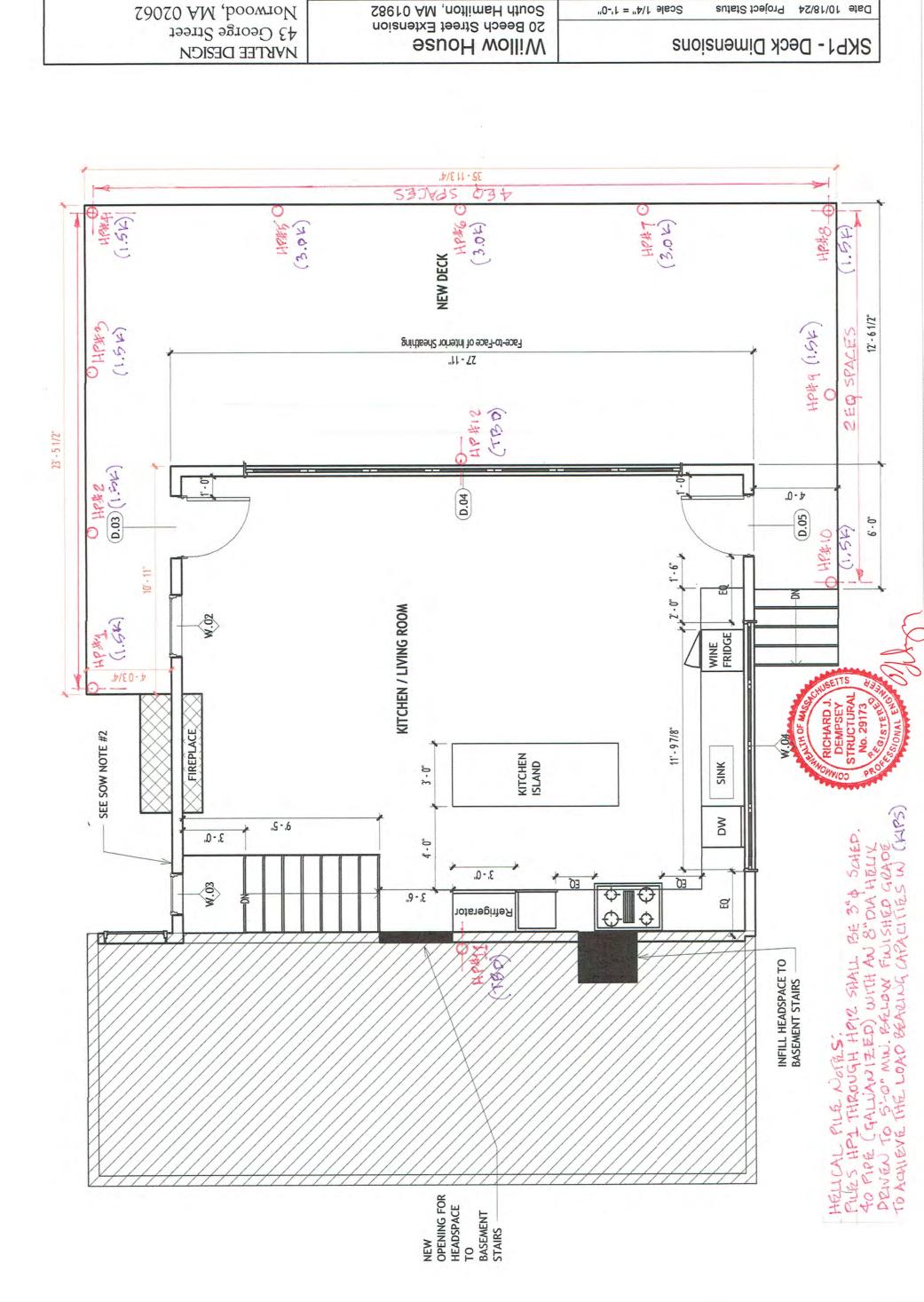
 $3 \frac{\text{Level 1 Construction}}{1/4" = 1'-0"}$

Level 2 Existing Conditions

1/4" = 1'-0"

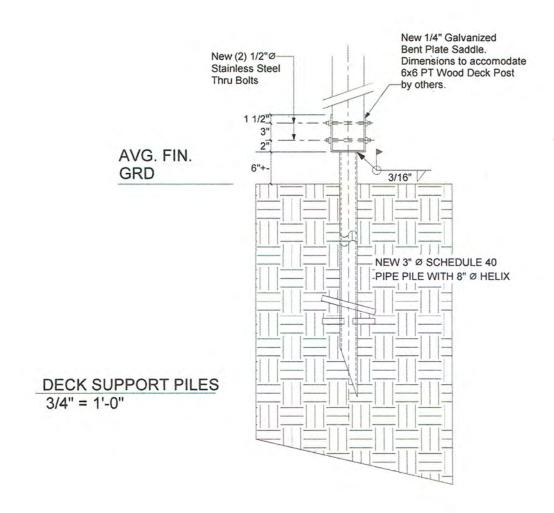
6 Level 2 Construction
1/4" = 1'-0"

NEW BALCONY MULTI-USE ROOM



781-710-0329

design@narlee.com





WILLOW HOUSE 20 BEECH STREET RXTENSION SOUTH HAMILTON, MA 01982 2JD 10.18.24 Features Sizes Finishes Uses Need help? 603-374-7385

FWM offers five modular frame sizes for countless layout possibilities. Our 100% modular design allows for flexible and creative dock configurations to suit any waterfront.

Easy-Install Panelized Decking

Pre-panelized decking dramatically reduces dock weight, making installation and removal a breeze. Choose from premium options like ThruFlow, Azek Harvest and Landmark Collections, or our exclusive aluminum decking for a customized look and long-lasting performance.

Leg Pad

Each dock leg boasts pre-drilled holes for adjustable leg pads, catering to diverse bottom conditions. Position the pads flush to the bottom (for solid environments) or extended (for softer ground) to ensure a secure and stable dock foundation.

Easy-to-Use Splice and Hinge Kits

Seamlessly join dock sections with our durable aluminum and stainless steel splice and hinge kits, designed for easy dock customization and enduring stability in any conditions.

Retention Channel System

Our docks feature a unique retention channel system for secure, drill-free accessory attachment. This system simplifies customization, enhancing dock functionality and aesthetics with minimal effort.

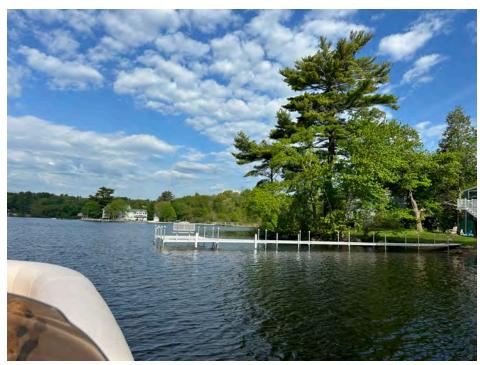


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Appendix E

Professional Qualifications

Evin Guvendiren

Michael DeRosa





REPRESENTATIVE PROJECTS

Private Residence | Dune Grass Restoration Manchester, MA

Private Residence | Dune Grass Restoration Ipswich, MA

Commercial Property | Wetland Restoration Rowley, MA

Private Residence | Reconstruction of a Single Family Home Ipswich, MA

Invasive Plant Management | Restoration Project | Ipswich, MA

Sally's Meadow | Butterfly Meadow Restoration Ipswich, MA

Town Wide Beach and Road Management Plans

Manchester, MA

Wetland Restoration | MassDEP ACOP Rockport, MA

Wetland Restoration | MassDEP ACOP Essex, MA

CERTIFICATION

40 Hour Hazardous Waste Site Worker (OSHA)

Adult and Pediatric First Aid/CPR/AED

Evin Guvendiren, BS

Project Manager

Evin graduated from the University of Massachusetts Amherst with a Bachelor of Science in Natural Resource Economics and minors in Environmental Science, Economics, and Natural Resource Conservation. Her studies focused on sustainability, econometrics, land conservation, environmental policy and natural resource management.

Evin joined DeRosa Environmental Consulting in the Summer of 2017 and is currently holding the position as Environmental Scientist.

During her bachelor's studies, Evin spent a semester abroad with the School for Field Studies in Costa Rica. There, she lived on a sustainable farm and implemented an integrated pest management system. Her classes consisted of field experience and course work on sustainable development, tropical ecology, and resource management in a developing country. She also participated in environmental stewardship and spent one month conducting a Socio-economic directed research project with a national park.

Evin also spent a semester researching the Colony Collapse Disorder as an independent study. She helped a professor with a grant from the USDA to determine consumers' willingness to pay for native bee pollination on cranberries. This research was funded to help find an alternative to commercial honeybee pollination to support the agriculture industry and economy.

Having grown up near beaches and ocean, marshes, rivers, vernal pools, and national parks, Evin has a strong love and passion for the environment. She spends most of her time outdoors and camps, hikes and kayaks whenever she can.

EDUCATION

BS, Natural Resource Economics | 2014University of Massachusetts, Amherst, MA

PROFESSIONAL EXPERIENCE

Project Manager | 2017 – Present
DeRosa Environmental Consulting Inc
Student Researcher | January – May 2014
University of Massachusetts Amherst-Resource Economics department
Student Researcher | January – May 2013
The SFS Center for Sustainable Development Studies, Atenas, Costa Rica



REPRESENTATIVE PROJECTS

Ipswich River Watershed Association Ipswich MA

Miles River Task Force | Watershed Restoration Beverly Wenham Hamilton Ipswich MA

Paumier Residence | Dune Restoration Manchester MA

Matignon High School Athletic Fields | Landfill Cap Remediation Cambridge/Somerville MA

Turner Hill Golf Course | Wetland Mitigation & Pond Design Ipswich MA

Saint Aidan's Church | UST Remediation Brookline MA

Saint Kevin's School | AST Remediation Dorchester MA

Saint Joseph's School | UST Remediation Salem MA

Ipswich Country Club | Wetland Restoration Ipswich MA

Ould Newbury Golf Club | LID Runoff Design Newbury MA

Ferncroft Country Club | Pond Restoration Topsfield/Middleton MA



Michael J. DeRosa

Principal, LSP, LEED AP BC&D

Michael J. DeRosa, Principal and project manager specializing in habitat restoration and wetland restoration projects. He has more than 24 years experience working with ecological systems focused on restoration and rehabilitation of damaged landscapes. Ecological principles inform his design and restoration practices.

Mike was the principal wetland permitting leader for the Turner Hill Resort Center in Ipswich Massachusetts. He has consulted with the Archdiocese of Boston since 1989 in all environmental areas. His firm is known for their expertise in wetland and wildlife habitat restoration and rehabilitation and invasive species control and management.

Mike incorporated DeRosa Environmental Consulting, Inc., in May 1994 after spending 8 years working in the environmental consulting industry as technical director and project manager. Prior to his consulting career he was a researcher at the Harvard School of Tropical Public Health working with infectious diseases and tick transmitted Lyme disease, in particular.

Mike has been involved with many projects associated with MGL Ch. 21e and Massachusetts Contingency Plan (MCP) projects. He received his Licensed Site Professional (LSP Lic. 3452) registration in 1993. Mike is uniquely credentialed in hazardous waste site assessment and remediation and has over 24 years experience in wetland permitting, habitat restoration and mitigation. Mike has permitted projects with all federal, state and local environmental agencies. Mike is on the Practice Faculty at The Boston Architectural College. His new passion is the incorporation of urban agriculture and food justice initiatives in mixed use community based projects.

EDUCATION

MA, Boston University, 1993 North Carolina State University, 1986 Harvard University, 1985 BA, University of Denver, 1982

PROFESSIONAL EXPERIENCES

Principal, LSP, LEED AP BC&D

DeRosa Environmental Consulting, Inc. | 1994-Present

Technical director, Environmental Engineering Division

Web Engineering Associates, Inc. | 1990-1994

Project manager/Environmental Scientist,

Dennison Environmental, Inc. | 1988-1989

Population Ecologist & Wetlands Specialist,

Lelito Environmental Consultants, LLC | 1987-1988

Research Assistant,

North Caroline State University | 1985-1987

Air Pollution Analyst

Entropy Environmentalists, Inc. | 1985-1987

Senior Research Assistant

Harvard University | 1983-1985

Naturalist

The Trustees of Reservations | 1983-1985

PROFESSIONAL MEMBERSHIPS/AFFILIATIONS

New England Wildflower Society

USGBC | United States Green Building Council

NGWA | National Ground Water Association

AMWS | Association of Massachusetts Wetland Scientists

LSPA | Licensed Site Professional Association

SWS | Society of Wetland Scientists

MACC | Massachusetts Association of Conversation Commissioners

CERTIFICATIONS AND SPECIAL TRAINING

Licensed Site Professional (LSP), Lic. No. 3452

Professional Wetland Scientist (PWS)

LEED Accredited Professional | 10342989

Certified Ecologist, The Ecological Society of America |

June 2002 - May 2007

CERCLA 40 Hour Hazardous Materials Safety Training |

OSHA 29 CFR 1910.120

Confined Space Entry Training | OSHA 29 CFR 1910.146

Management Training Workshop | Dun and Bradstreet

Hazardous Materials Chemistry Seminar | University of Toledo

Unmanned Aircraft License | FAA | Exp. 2/28/2019