

March 17, 2025

Job No. 2023-0235-01

Truro Conservation Commission Attn: Emily Beebe, Conservation Agent 24 Town Hall Road Truro, MA 02666

By Hand Delivery and Email: ebeebe@truro-ma.gov

Re: Request for Determination of Applicability (RDA)

Great Hollow Beach Access and Stormwater Improvements Town of Truro, Applicant c/o Kelly Clark, Assistant Town Manager 24 Town Hall Road Truro, MA 02666

For Properties: 0 Great Hollow Beach, Truro MA Map 42, Parcel 230

2 Kill Devil Road, Truro, MA Map 42, Parcel 303



Dear Emily,

On behalf of the Town of Truro, we are submitting an original Request for Determination of Applicability (RDA) plus eight (8) copies of the application and plans for the above referenced project.

Please schedule this for your April 7, 2025 public meeting. If you have any questions or require additional information, please contact me at 508-776-4422 (cell) or by email at jwrigley@woodsholegroup.com.

Sincerely,



Joshua K. Wrigley Coastal Permitting Specialist

MAB/jkw

cc: MassDEP/SERO – Wetlands & Waterways: sero noi@mass.gov

Mitchell A. Buck, Woods Hole Group, Inc. Jarrod Cabral, Truro DPW Director

TOWN OF TRURO CONSERVATION COMMISSION P.O. Box 2030 Truro MA 02666-0630

Request for Determination
Project address: 0 Great Hollow Beach (42-230), 2 Kill Devil Rd (42-303) Map Parcel
Is the project located in a resource area or buffer zoneYes
 Resource Area Type(s): Coastal Dune, Coastal Beach, LSCSF
 If Buffer Zone what is the distance from Resource Area:
Description of project: (list all activities and describe methodology for construction or installation including
equipment type if applicable) Great Hollow Beach access improvements including staircase
reconstruction and storm water improvements
Attached site plan titles/dates, and any other plan or narratives title/dates:
Great Hollow Beach Access Improvements, Great Hollow Road, Truro, MA - 2/21/25
Describe the best management practices/mitigation that will be used on the site:
Erosion controls at Limit of Disturbance and stormwater BMPs will be used.
Special Conditions required by the Conservation Include:
The proposed project is approved subject to the conditions included herein.

The use of town property for beach access or staging of construction materials requires a permit issued by the Board of Selectmen. The owner and applicant/representative are responsible for obtaining this permit prior to work start.

The owner and applicant/representative shall, avoid and otherwise minimize any activities in the buffer zone or in resource areas by use of <u>best management practices</u> on the site, such as:

- Placement of an agreed upon work limit;
- Proper placement of construction materials in developed or already disturbed areas;
- Proper installation/maintenance of erosion control;
- Good housekeeping that includes at a minimum daily trash pickup; no dumping of paint, plaster or concrete on the site but rather, disposing of it properly.

Approval of the project as described herein includes only the scope and specifications reviewed by the Conservation Commission; any changes to this project shall require additional review by the Conservation Commission prior to the work being done. Expansion of the scope of work may result in the applicant being required to file a full notice of intent. Any work done that exceeds the scope defined in the approved application shall be subject to issuance enforcement action; Violation of these conditions may result in issuance of an enforcement Order; non-criminal violation citations to the owner and/or applicant/representative accompanied by fines that accrue per offense and may accrue daily.

By reading and signing this letter of agreement the applicant acknowledges that they have read and understand the terms as stated herein; the scope of this approval is limited to the work described herein; and your signature on this conditional approval is acknowledgement that no work shall go forward until the RDA conditions have been issued by the Conservation Commission.

Applicant/Representative printed name and signature: Why Chuk

Truro RDA



TOWN OF TRURO CONSERVATION COMMISSION

P.O. Box 2030 Truro MA 02666-0630

Checklist for Fi	ling	a Notice	of Intent

Checklist for Filing a Notice of Intent
☐ Notice of Intent Application ☐ Signature of applicant/property owner
□USGS Map/locus map □ Certified abutters list from the Town Assessor (300') and letter to abutters*
□ Project Narrative □ Project Plans /up-to-date Site plan □ signed copy of 21 day waiver (requested)
NHESP (if applicable- check map or ask staff for assistance to determine if property is within
mapped jurisdiction)
☐ MESA application and fee ☐ Copy of the entire Notice of Intent (including USGS Map, Plans)
☐ Send by certified mail return receipt requested to NHESP
The state of the s
*NOTE: The abutter's notification letter must be sent to each abutter
by certified mail, return receipt requested, at the expense of the
applicant. The green cards must be submitted at the hearing.
approximation given eares must be submitted at the hearing.
□ Copies to DEP
1) Fee: mail the state-share of the fee to Boston by certified mail, return receipt requested;
enclose the "fee transmittal form" and mail to <u>DEP, PO Box 4062, Boston, MA 02211</u>
2) Mail 1-copy of the Notice of Intent Application packet and a copy of the fee transmittal form by
certified mail, return receipt requested to: <u>DEP SERO, 20 Riverside Drive, Lakeville, MA 02347</u>
Copies to Truro Conservation Commission
☐ attach check to "Town of Truro" for the town share of filing fee, PLUS the local filing fee
□ provide:
_ (2) copies of the NOI Application
_ (1) copy of the abutters list, notification, wetlands fee transmittal, & 21 day waiver (if applicable)
_ (9) copies of any narratives AND plans
_(1) emailed pdf of plans
□ bring the green cards as proof of notification of abutters to the meeting
Charlist for Eiling on DDA
Checklist for Filing an RDA
(Request for Determination of Applicability)
Request for Determination of Applicability form plus current site plan/project sketch
Mample project details
⋉ signed copy of 21 day waiver (requested)
□ attach check to the "Town of Truro" for \$30 (this fee can be applied toward fee for higher level of filing if required)
N/A TOWN REPOSECT
1-copy of the Request for Determination of Applicability packet mailed by certified mail, return
receipt requested to: <u>DEP SERO, 20 Riverside Drive, Lakeville, MA 02347</u>

9-copies of the Request for Determination of Applicability packet (packet = application + plans) for the Commission



Great Hollow Beach Access and Stormwater Improvements

For the Town of Truro, MA



April 2025

PREPARED FOR: Town of Truro 24 Town Hall Road Truro, MA 02666 PREPARED BY: Woods Hole Group, Inc. A CLS Company 107 Waterhouse Rd Bourne, MA 02532 USA



Request for Determination of Applicability Table of Contents

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 - a. Town of Truro Conservation Commission 21-Day Waiver
 - b. Affidavit of Service
- D. Certified Abutters List, Abutter Notification & Copies of Certified Mail Receipts
- E. Project Maps & Plan
 - a. Truro USGS Map, identifying locus
 - b. Plan entitled, "Great Hollow Beach Access Improvements, Great Hollow Road, Truro, MA" dated 2/21/25



Section A

Request for Determination of Applicability, WPA Form 1 & Addendum A (Property Owner List)



Massachusetts Department of Environmental Protection Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability

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

Municipality

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





A.	General Information					
1.	Applicant:					
	First Name	Last Name				
	Address					
	City/Town	State	Zip Code			
	Phone Number	Email Address				
2.	Property Owner (if different from Applicant):					
	First Name	Last Name				
	Address					
	City/Town	State	Zip Code			
	Phone Number	Email Address (if know	vn)			
3.	Representative (if any)					
	First Name	Last Name	Last Name			
	Company Name					
	Address					
	City/Town	State	Zip Code			
	Phone Number	Email Address (if know	vn)			
B. 1.	Project Description a. Project Location (use maps and plans to iden	tify the location of the are	a subject to this request):			
	Street Address	City/Town				
	Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)	Longitude (Decimal Deduction decimal e.gXX.XXXX	egrees Format with 5 digits after (X)			
	Assessors' Map Number	Number				
	b. Area Description (use additional paper, if necessity)	essary):				
	c. Plan and/or Map Reference(s): (use additional	al paper if necessary)				
	Title		Date			
	Title		 Date			

How to find Latitude and Longitude

and how to convert to decimal degrees



Massachusetts Department of Environmental Protection Bureau of Water Resources - Wetlands WPA Form 1- Request for Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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B.	Proj	ect [Descri	ption ((cont.)
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2.	a.	Activity/Work Descri	ption (use a	dditional paper	r and/or provide	plan(s) of Activity	. if necessary	/):

	fron	Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant in having to file a Notice of Intent for all or part of the described work (use additional paper, if essary).
3.		If this application is a Request for Determination of Scope of Alternatives for work in the
, .		erfront Area, indicate the one classification below that best describes the project.
		Single family house on a lot recorded on or before 8/1/96
		Single family house on a lot recorded after 8/1/96
		Expansion of an existing structure on a lot recorded after 8/1/96
		Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
		New agriculture or aquaculture project
		Public project where funds were appropriated prior to 8/7/96
		Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
		Residential subdivision; institutional, industrial, or commercial project
		Municipal project
		District, county, state, or federal government project
		Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.
		Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification ve (use additional paper and/or attach appropriate documents, if necessary.)



Massachusetts Department of Environmental Protection Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

TRURD Municipality

C.	Detern	ninations
1.	I request the	TRUKO

C.		Determinations
1.	I re	quest the TRUKO make the following determination(s). Check any that apply:
	×	a. whether the area depicted on plan(s) and/or map(s) referenced above is an area subject to jurisdiction of the Wetlands Protection Act.
		b. whether the boundaries of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.
	X	c. whether the Activities depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.
	×	d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any municipal wetlands' ordinance or bylaw of:
		TRUEO
		Name of Municipality
		e. whether the following scope of alternatives is adequate for Activities in the Riverfront Area as depicted on referenced plan(s).
D.		Signatures and Submittal Requirements
and		y certify under the penalties of perjury that the foregoing Request for Determination of Applicability companying plans, documents, and supporting data are true and complete to the best of my dge.
Off	ice v	r certify that the property owner, if different from the applicant, and the appropriate DEP Regional vere sent a complete copy of this Request (including all appropriate documentation) neously with the submittal of this Request to the Conservation Commission.
		by the applicant to send copies in a timely manner may result in dismissal of the Request for ination of Applicability.
Sig	natu	ires:
		nderstand that notification of this Request will be placed in a local newspaper at my expense rdance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.
	d	Kelly Clark 3/17/25
		Kelley Class ature of Applicant Date 3/17/25 Date
	Sign	nature of Representative (if any) Date
		for Mithell a. Grek



Addendum A List of Properties

Address	Parcel ID	Owner Information
0 Great Hollow Beach	42-230	Town of Truro
		P.O. Box 2030
		Truro, MA 02666-2030
2 Kill Devil Road	42-303	Truro Conservation Trust
		P.O. Box 327
		& TRS TOM BOW, G.
		CHANG ET AL



Section B

Project Narrative



1.0 PROJECT NARRATIVE

Introduction

On behalf of the Town of Truro, the Woods Hole Group, Inc. respectfully submits this Request for Determination of Applicability (RDA) to construct a new beach staircase and install stormwater upgrades to the Great Hollow Beach parking lot. The project will take place on properties located at 0 Great Hollow Beach (42-230), 2 Kill Devil Road (42-303),

. Great Hollow Beach is a popular beach destination in the Town of Truro that allows visitors access to Cape Cod Bay. The Town of Truro operates the public access and changes for parking during the summer months. On an annual basis, the beach staircase has needed significant repairs due to frequent coastal and precipitation-based storm events. The parking lot has also needed upgrades to its stormwater catch basins and pipes since it becomes overwhelmed during precipitation-based storm events. This proposed project will increase the resiliency of the beach access while also helping to prevent erosion on the Coastal Dune due to the parking lot's present configuration.



Figure 1. Project site and surrounding areas showing the existing parking lot.

Site Description & Usage



The Project Site, Great Hollow Beach and its associated parking lot, is part of the Town of Truro. Great Hollow Beach is a town-owned public beach that receives heavy visitor use during the summer months. The parking lot is constructed of paved asphalt and currently holds thirty-five (35) vehicles. Portable toilets and bike racks are available for visitor use and a parking sticker is required. It offers pedestrian access to the beach via a 30 ft staircase constructed of pressure treated timbers that descends from the seaward edge of the parking lot over the face of a Coastal Dune. To the north and south, the parking lot is surrounded by vegetated Coastal Dune that ranges in elevation from El 24.6 ft (NAVD88) on the south to El 31.6 ft (NAVD88) on the north. The parking lot at its lowest seaward elevation of EL 27.6 ft (NVD88) slopes gradually up Great Hollow Road to an elevation of El 40 ft +/- (NAVD88) at the upland extent of the proposed limit of work. Three (3) existing catch basins receive stormwater runoff and are connected via a 12" corrugated metal pipe (CMP) that connects the catch basins on the north and south sides of the parking lot. The condition of the pipe is not presently known but the pipe is suspected to have failed. Its condition will be verified prior to the start of the project. The Woods Hole Group identified sediment accumulation in each of the existing catch basins. Catch Basin A was rated as poorly functioning since both outlet pipes are clogged. The other catch basins are experiencing sediment buildup below the invert of their inlet/outlet pipes.

The eroding face of the Coastal Dune (310 CMR 10.28) serves as a sediment source for the Coastal Beach (310 CMR 10.27) at El 8 ft (NAVD88) and is unvegetated due to erosion. At present, rain events inundate the parking lot stormwater system which creates channelized runoff on the face of the dune that threatens to eventually undermine the parking lot itself while also being detrimental to the resource area.

Based on estimates by the Massachusetts Office of Coastal Zone Management (CZM), the short-term rate of erosion from 1970 – 2014 has averaged over 5.2 feet per year or 228 feet during that time. This does not account for more recent accelerated rates of shoreline change due to the effects of climate change including sea level rise and storm intensification.

Project Description

The Town of Truro proposes to improve public access to Great Hollow Beach via the construction of a new beach staircase and new stormwater infiltration system beneath the parking lot. In total, approximately 3,500 sq ft of area will be impacted (including the footprint of the new staircase). The project will take place in two phases. During Phase 1, the existing staircase will be demolished and the new staircase will be constructed in the same footprint. The new staircase will descend directly to the beach instead of turning at the final landing like the previous structure. The new staircase will not terminate any further seaward than the existing structure and will occupy a footprint that is 15% smaller than the existing area.

After the staircase is finished and depending on funding, work will begin on the stormwater upgrades to the parking lot. This project phase will consist of the installation of two (2) Deep-Sump Double Catch Basins, four (4) leaching drain manholes, and a subsurface infiltration



chamber array (Cultec Recharger 902HD or equivalent). Upslope of the stormwater improvements at the entrance of the parking lot, a section of asphalt will be removed and restored with native sediments and vegetation to further attenuate stormwater flows from Great Hollow Road. This aspect of the project is designed to further reduce stormwater runoff while maintaining parking availability and the width of the Great Hollow Road travel lanes.

Construction Methodology

The project will take place in two phases. During the first phase, the existing staircase will be demolished by hand and the pieces will be temporarily stored in the parking lot before they are removed offsite to an approved location for disposal. During this time, portions of the parking lot may be closed to public access. Prior to demolition, the Limit of Disturbance (LOD) in the area of the staircase will be established as per the proposed site plan. The downslope edge of the LOD at El 8 ft +/- (NAVD88) will be marked by the installation of a silt fence dug at least 6" into the ground with a 12" straw wattle staked on the upslope side. Along the north and south edges of the work site, the LOD will be marked with high-visibility orange construction fencing on metal stakes to minimize impacts to the Coastal Dune.

When the existing staircase has been removed, a mini-excavator equipped with a hydraulic rotary attachment will be used to drive eighteen (18) helical piles that will support the proposed staircase. The excavator will traverse the dune in the area of the staircase footprint. If necessary, clean sand of a compatible grain size may be placed to build an appropriate slope for the machine to access the lowest piling locations upslope of the Coastal Beach. Once the helical pilings have been installed, the contractor will begin framing the staircase using pressure treated timbers as per the accompanying building plan. Any areas disturbed during the construction of the stairscase will be stabilized using jute netting and replanted with American Beach Grass (Ammophila breviligulata) during the next immediate planting season at three (3) culms per hole, 12" on center.

The second phase of the project will consist of the installation of stormwater upgrades to the parking lot that include two (2) Deep-Sump Double Catch Basins, four (4) leaching drain manholes, and four (4) rows of subsurface infiltration chambers (Cultec Recharger 902HD or equivalent). Prior to the start of work, the existing 12" CMP will be inspected and a Limit of Disturbance (LOD) will be installed as per the proposed site plan. At the downslope edge of the LOD at the crest of the Coastal Dune, the contractor will install a silt fence dug at least 6" into the ground with a staked 12" straw wattle as support. Along the north and south sides of the LOD, high-visibility orange construction fencing will be used.

At the seaward (western) edge of the parking lot, 400 sq ft of asphalt will be removed and replaced with dune compatible sand and replanted. This will help to capture residual flows of stormwater that have escaped the manhole drains further upslope and reduce channelization on the face of the dune. Per the proposed site plan, the contractor will excavate areas designated for installation of the catch basins and manholes and a connecting trench that will accommodate



installation of a new 12" HDPE (High Density Polyethelene) pipe that will convey stormwater into the infiltration chambers. Excavated material will be stored off-site at an ancillary parking area on the north side of Great Hollow Road.

During excavation for the infiltration chambers to a depth of El 20.52 ft (NAVD88), the contractor will avoid excess compaction of the sediments in the layout for those structures as approximately 670 cy of material is removed. A base layer of crushed stone will be placed prior to the placement of the chambers. Once installed, they will be covered by approximately 440 cy of backfill material including crushed stone, non-woven geotextile fabric, gravel base, and bituminous pavement. Remaining material from the original excavation will be removed offsite to an approved disposal location.

During construction, all work will take place within the LOD as per the proposed site plan. Materials and equipment staging and storage will take place within the existing parking area. Construction Best Management Practices (BMPs) will be employed to contain impacts of construction activities. The site will be restored to pre-construction conditions, except for areas of proposed improvements. After construction, inspections of the deep-sump catch basins and manholes and piping will take place twice per year (at minimum). The chamber system rows will be checked through their inspection ports twice each year for standing water and/or sediment and debris buildup.

Delineation

On April 12th 2024, a Woods Hole Group Professional Wetland Scientist in Training (WPIT) and a Coastal Scientist conducted a coastal resource area delineation along a section of shoreline seaward of Great Hollow Road in Truro, Massachusetts. The study area extended approximately 400 linear feet along the Cape Cod Bay shoreline and covered areas north and south of the Great Hollow town beach parking lot. Resource areas surveyed included coastal beach and coastal dune (Figure 2). To delineate the extent of resource areas and capture changes in topography, a survey-grade real- time Kinematic (RTK) GPS was used to collect data at subcentimeter accuracy in both horizontal and vertical datums. Horizontal data were recorded in Massachusetts State Plane 2001 (Mainland, US survey feet) and vertical data were collected in North American Vertical Datum of 1988 (NAVD88, US survey feet). Land Subject to Coastal Storm Flowage (LSCSF) was also included in this study as mapped by FEMA flood zones AE and VE. Descriptions of each resource area, and other regulated areas within or adjacent to the study area are included in the following sections.





Figure 2. Extents of coastal resource areas delineated within and adjacent to the study area.

Coastal Beach

Coastal beach extended along the entirety of the study area shoreline and beyond to the north and south. The beach was approximately 175 linear feet wide between the water line at low tide and toe of the coastal dune. The beach was gradually sloping and contained primarily medium-grained sediments (Figure 3). At the time of the survey, no significant wrack line or wave driven deposits were visible along the coastal beach. Several scattered boulders were observed within the lower intertidal area (Figure 4). For the entirety of the study area shoreline, coastal beach was backed by coastal dune.





Figure 3. Coastal beach seaward of Great Hollow Road at low tide. Photo taken facing north.



Figure 4. Coastal dune north of the parking lot. Photo taken facing north.



Coastal Dune

Coastal dune was present landward of the coastal beach and extended around the northern and southern edges of the Great Hollow town beach parking lot (Figures 5 and). The seaward extent of the coastal dune showed signs of active erosion along the length of the study area shoreline, with a 4'-8' high scarp and eroded sand accumulating along the toe of dune. Erosion along the seaward extent of the dune was particularly significant in the areas immediately seaward of the parking lot and around the staircase footings. Evidence of previous nourishment projects were visible in these areas. Vegetation within the foredune area was primarily comprised of American beachgrass (A. breviliqulata). Along the crest and back of dune, American beachgrass continued to be present with woody species gradually becoming more prevalent further landward. Woody species observed on-site included salt spray rose (R. rugosa), Northern bayberry (M. pensylvanica), bearberry (A. uva ursi), bear oak (Q. ilicifolia), and eastern red cedar (J. virginiana). Reindeer lichen (C. rangiferina) was also observed throughout the back dune area. The crest of the coastal dune averaged between 22-28 feet NAVD88 across the study area. The landward extent of the coastal dune was delineated where the natural dune transitioned to paved, landscaped or otherwise developed land that did not show signs of active sediment transport. An exception to this was in an area north of the parking lot where there was a transition from coastal dune to forested upland.



Figure 5. Eroded toe of coastal dune. Photo taken facing north.





Figure 6. Recent nourishment around staircase footings. Photo taken facing east.

Land Subject to Coastal Storm Flowage

Land subject to coastal storm flowage (LSCSF) is land subject to any inundation caused by coastal storms up to and including that caused by the 100-year storm, surge of record or storm of 100-year storm, surge of record or storm of record, whichever is greater. LSCSF was inclusive of the VE zone designated by FEMA and encompassed resource areas that were documented on site including the entirety of the coastal beach and the majority of the delineated coastal dune. Because LSCSF covered the entirety of the study area, areas that did not meet criteria for other resource areas were delineated as LSCSF, including the seaward portion of the Great Hollow town beach parking lot.

Natural Heritage Estimated & Priority Habitat and Massachusetts Division of Marine Fisheries Shellfish Suitability Areas

Estimated and Priority Habitat for Rare or Endangered Species were identified adjacent to the study area by the Massachusetts Natural Heritage and Endangered Species Program. Areas offshore of the Great Hollow Road study area were identified as spawning and settlement habitat for quahog (*M. mercenaria*). No live shellfish were observed during the delineation.

Resource Area Performance Standards

Coastal Dune (310 CMR 10.28)

(2) Definition.



Coastal Dune means any natural hill, mound or ridge of sediment landward of a coastal beach deposited by wind action or storm overwash. Coastal dune also means sediment deposited by artificial means and serving the purpose of storm damage prevention or flood control.

WHEN A COASTAL DUNE IS DETERMINED TO BE SIGNIFICANT TO STORM DAMAGE PREVENTION, FLOOD CONTROL OR THE PROTECTION OF WILDLIFE HABITAT, 310 10.28(3) THROUGH (6) SHALL APPLY:

- (3) Any alteration of, or structure on, a coastal dune or within 100 feet of a coastal dune shall not have an adverse effect on the coastal dune by:
 - (a) affecting the ability of waves to remove sand from the dune;
 - (b) disturbing the vegetative cover so as to destabilize the dune;
 - (c) causing any modification of the dune form that would increase the potential for storm or flood damage;
 - (d) interfering with the landward or lateral movement of the dune;
 - (e) causing removal of sand from the dune artificially; or
 - (f) interfering with mapped or otherwise identified bird nesting habitat.
- (4) Notwithstanding the provisions of 310 CMR 10.28(3), when a building already exists upon a coastal dune, a project accessory to the existing building may be permitted, provided that such work, using the best commercially available measures, minimizes the adverse effect on the coastal dune caused by the impacts listed in 310 CMR 10.28(3)(b) through (e). Such an accessory project may include, but is not limited to, a small shed or a small parking area for residences. It shall not include coastal engineering structures.
- (5): The following projects may be permitted, provided that they adhere to the provisions of 310 CMR 10.28(3):
 - (a) pedestrian walkways, designed to minimize the disturbance to the vegetative cover and traditional bird nesting habitat;
 - (b) fencing and other devices designed to increase dune development; and
 - (c) plantings compatible with the natural vegetative cover.
- (6) Notwithstanding the provisions of 310 CMR 10.28(3) through (5), no project may be permitted which will have any adverse effect on specified habitat sites of Rare Species, as identified by procedures established under 310 CMR 10.37.

The proposed project will take place entirely within Coastal Dune resource area but will not have any adverse effects on the dune attributes listed under 310 CMR 10.28(3)(a-f). The project will improve the resource area by constructing a safe structure by which the public may access the beach. This will help to preserve existing vegetation and limit dune erosion caused by pedestrian use as traffic is directed over top of the dune via the new staircase.



Benefits to the dune will also accrue from the stormwater improvements. The existing condition of the parking lot creates a situation where stormwater sheet flows pour over the parking lot edge which increases channeling and erosion on the face of the dune. Such erosion will eventually cause the landform to collapse beneath the parking lot which is destructive to the resource area and jeopardizes the public beach access.

Coastal Beach (310 CMR 10.27)

(2) Definitions.

<u>Coastal Beach</u> means unconsolidated sediment subject to wave, tidal and coastal storm action which forms the gently sloping shore of a body of salt water and includes tidal flats. Coastal beaches extend from the mean low water line landward to the dune line, coastal bankline or the seaward edge of existing human-made structures, when these structures replace one of the above lines, whichever is closest to the ocean.

<u>Tidal Flat</u> means any nearly level part of a coastal beach which usually extends from the mean low water line landward to the more steeply sloping face of the coastal beach or which may be separated from the beach by land under the ocean.

WHEN A COASTAL BEACH IS DETERMINED TO BE SIGNIFICANT TO STORM DAMAGE PREVENTION, FLOOD CONTROL, OR PROTECTION OF WILDLIFE HABITAT, 310 CMR 10.27(3) THROUGH (7) SHALL APPLY:

- (3) Any project on a coastal beach, except any project permitted under 310 CMR 10.30(3)(a), shall not have an adverse effect by increasing erosion, decreasing the volume or changing the form of any such coastal beach or an adjacent or downdrift coastal beach.
- (4) Any groin, jetty, solid pier, or other such solid fill structure which will interfere with littoral drift, in addition to complying with 310 CMR 10.27(3), shall be constructed as follows:
 - (a) It shall be the minimum length and height demonstrated to be necessary to maintain beach form and volume. In evaluating necessity, coastal engineering, physical oceanographic and/or coastal geologic information shall be considered.
 - (b) Immediately after construction any groin shall be filled to entrapment capacity in height and length with sediment of grain size compatible with that of the adjacent beach.
 - (c) Jetties trapping littoral drift material shall contain a sand by-pass system to transfer sediments to the downdrift side of the inlet or shall be periodically redredged to provide beach nourishment to ensure that downdrift or adjacent beaches are not starved of sediments.
- (5) Notwithstanding 310 CMR 10.27(3), beach nourishment with clean sediment of a grain size compatible with that on the existing beach may be permitted.



WHEN A TIDAL FLAT IS DETERMINED TO BE SIGNIFICANT TO MARINE FISHERIES OR THE PROTECTION OF WILDLIFE HABITAT, 310 CMR 10.27(6) SHALL APPLY:

- (6) In addition to complying with the requirements of 310 CMR 10.27(3) and (4), a project on a tidal flat shall if water-dependent be designed and constructed, using best available measures, so as to minimize adverse effects, and if non-water-dependent, have no adverse effects, on marine fisheries and wildlife habitat caused by:
 - (a) alterations in water circulation;
 - (b) alterations in the distribution of sediment grain size; and
 - (c) changes in water quality, including, but not limited to, other than natural fluctuations in the levels of dissolved oxygen, temperature or turbidity, or the addition of pollutants.
- (7) Notwithstanding the provisions of 310 CMR 10.27(3) through (6), no project may be permitted which will have any adverse effect on specified habitat sites or rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.37.

Limited work will take place on the Coastal Beach and will consist of temporary impacts from the use of machinery to drive the helical piles for the new staircase. This activity will not alter the beach in a way that increases erosion, or changes the volume or form of the landform itself and its ability to supply downdrift areas with sediment. Upon completion of the work, any disturbed areas will be restored to their original condition. No tidal flats are located within the project site.

Land Subject to Coastal Storm Flowage (310 CMR 10.04)

<u>Land Subject to Coastal Storm Flowage</u> means land subject to any inundation caused by coastal storms up to and including that caused by the 100-year storm, surge of record or storm of record, whichever is greater.

The lower portion of the staircase will be constructed in LSCSF (V Zone El 15) but the work will not affect the area's flood storage capacity nor will it redirect floodwaters in a way that is harmful to neighboring resource areas.



Section C

Accompanying Documents



TOWN OF TRURO

Conservation Commission

24 Town Hall Road P.O. Box 2030, Truro MA 02666

Tel: 508-349-7004, Ext. 31 Fax: 508-349-5508

WAIVER

	I,Joshua Wrigley(print name), hereby waive the twenty-one (21) day time
	period for a public hearing following receipt of a: Notice of Intent Abbreviated Notice of Intent Request for Determination of Applicability Amended Order of Conditions
	☐ Abbreviated Notice of Resource Area Delineation by the Truro Conservation Commission
	under Massachusetts General Laws, Ch. 131, sec. 40, and under Truro Conservation Bylaw,
	Section 8.5.2.
	The □ Notice of Intent □ Abbreviated Notice of Intent ☒ Request for Determination of Applicability □ Amended Order of Conditions □ Abbreviated Notice of Resource Area
	Delineation was submitted on 3/17/25 (date) for work at 0 Start Hollow Seach (42-230) (address). I understand that the next meeting of the
	Conservation Commission is scheduled for and that the
	Commission will open the public hearing on that date.
	I am the: Applicant
	Applicant's Representative
0	pill Denil Rd. (42-303)
2	Red Com ac. (42 ses)
	(signature)
	1/2/2/2
	(date)



Job No. 2023-0235-01

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act, M.G.L. CH131, Sec. 40

(to be submitted to the Massachusetts Department of Environmental Protection and the Conservation Commission when filing a Notice of Intent/RDA)

I, Joshua K. Wrigley, of The Woods Hole Group, Inc., hereby certify under the pains and penalties of perjury that on March 12, 2025, 1 sent notification to abutters, in compliance with the second paragraph of Massachusetts General Laws, Chapter 131, Section 40, the Department of Environmental Protection's Guide to Abutter Notification, dated, April 8, 1994, and Truro Wetlands Bylaw Ch. 8 in connection with the following matter:

A Request for Determination of Applicability was filed under the Massachusetts Wetlands Protection Act and the Truro Wetlands Protection By-law Ch. 8, by the Town of Truro with the Truro Conservation Commission on March 17, 2025, for properties located at 0 Great Hollow Beach, (42-230), 2 Kill Devil Road (42-303), in Truro, MA.

The form of the notification and a list of the abutters to whom the notice was given and their addresses are attached to this Affidavit of Service.

ga hay	
	March 14. 2025
Name	Date

1/11-



Section D

Certified Abutters List, Abutter Notification, & Certified Mail Receipts



TOWN OF TRURO

Assessors Office Certified Abutters List Request Form



		D	ATE: 2/28/25
NAME OF APPLICANT: Town of	Truro		
NAME OF AGENT (if any): Woods	s Hole Group, In	C.	
MAILING ADDRESS: 24 Town H			
CONTACT: HOME/CELL 508-7			ey@woodsholegroup.com
PROPERTY LOCATION: O Great Ho	ollow Beach, 2 Kill Devil I	Road, reet address)	
PROPERTY IDENTIFICATION NUM		PARCEL 2	EXT. if condominium)
ABUTTERS LIST NEEDED FOR: (please check <u>all</u> applicable)	(Fee must accompa		FEE: \$15.00 per checked item nless other arrangements are made)
Board of Health ⁵	Planning Board (PB)		Zoning Board of Appeals (ZBA)
Cape Cod Commission	Special Permit	t ¹	Special Permit ¹
X Conservation Commission ⁴	Site Plan²		Variance ¹
Licensing	Preliminary St	abdivision ³	
Type:	Definitive Sub	odivision ³	
Other	(Please Specify)		(Fee: Inquire with Assessors)
Note: Per M.G.L., processin	ng may take up to 10 ca	lendar days. Plea	se plan accordingly.
THIS SECTI Date request received by Assessors: 7 List completed by:		Pate completed:	1 . ~
0.			

¹Abutters, owners of land directly opposite on any public or private street or way, and abutters to the abutters within 300 feet of the property line.

²Abutters to the subject property, abutters to the abutters, and owners of properties across the street from the subject property.

³Landowners immediately bordering the proposed subdivision, landowners immediately bordering the immediate abutters, and landowners located across the streets and ways bordering the proposed subdivision. <u>Note</u>: For Definitive Subdivision only, responsibility of applicant to notify abutters and produce evidence as required.

⁴All abutters within 300 feet of parcel, except Beach Point between Knowles Heights Road and Provincetown border, in which case it is all abutters within 100 feet. <u>Note</u>: Responsibility of applicant to notify abutters and produce evidence as required.

⁵Abutters sharing any boundary or corner in any direction – including land across a street, river or stream. <u>Note</u>: Responsibility of applicant to notify abutters and produce evidence as required.



TRURO ASSESSORS OFFICE

PO Box 2012 Truro, MA 02666

Telephone: (508) 214-0921

Fax: (508) 349-5506

Date: February 28, 2025

To: Woods Hole Group, Inc., Agents for Town of Truro

From: Assessors Department

Certified Abutters List: 0 Great Hollow Beach and 2 Kill Devil Road;

(Map 42, Parcel 230 and Map 42, Parcel 303;

Conservation Commission

Attached is a combined list of abutters for properties located at 0 Great Hollow Beach, 2 Kill Devil Road,

The current owners are as follows:

0 Great Hollow Beach (M 42 P 230)- Town of Truro

2 Kill Devil Road (M42 P303)- Truro Conservation Trust

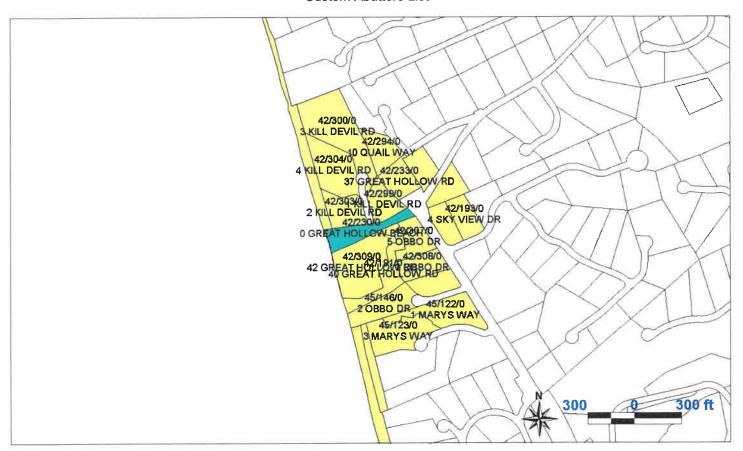
The names and addresses of the abutters are as of February 21, 2025 according to the most recent documents received from the Barnstable County Registry of Deeds.

Certified by:

Olga Farrell Assessing Clerk TOWN OF TRURO, MA BOARD OF ASSESSORS P.O. BOX 2012, TRURO MA 02666

Conservation Commission

Custom Abutters List



Key	Parcel ID	Owner	Location	Mailing Street	Mailing City	ST	ZipCd/Country
1773	42-191-0-R	VENUTO INVESTMENT TRUST TRS VENUTO FRANCIS A JR ET AL	40 GREAT HOLLOW RD	8 ARLINGTON PLACE	FRAMINGHAM	MA	01702
1774	42-192-0-R	DONOVAN J AMBROSE & YETRA LYNN E	2 OLD COLONY WAY	15 ROCHESTER ROAD	NEWTON	MA	02458
1775	42-193-0-R	SUSSMAN JACOB H & FLAXMAN JESSICA	4 SKY VIEW DR	370 ORIENTA AVE	MAMARONECK	NY	10543
1814	42-232-0-R	KANTAR REBECCA SHERWOOD	6 QUAIL WAY	672 CHESTNUT ST	NEWTON	MA	02468
1815	42-233-0-R	JOEL H KIMBALL TRUST & MARY ELLEN KIMBALL TRUST	37 GREAT HOLLOW RD	PO BOX 433	TRURO	MA	02666
1829	42-247-0-R	JARVIS KATHERINE S LIVING TRUS TRS: JARVIS KATHERINE S	36 GREAT HOLLOW RD	1275 MARTIN AVE	PALO ALTO	CA	94301
1874	42-294-0-E	TRURO CONSERVATION TRUST TRS: BETSEY BROWN ET AL	10 QUAIL WAY	PO BOX 327	NO TRURO	MA	02652-0327
5585	42-299-0-R	JOEL H KIMBALL TRUST & MARY ELLEN KIMBALL TRUST	1 KILL DEVIL RD	PO BOX 433	TRURO	MA	02666
5586	42-3ID0-0-R	BAKER CHRISTOPHER A & BAKER ANTHONY W	3 KILL DEVIL RD	PO BOX 36	TRURO	MA	02666
6310	42-3 03-0-E	TRURO CONSERVATION TRUST TRS: TOM BOW, G. CHANG ET AL	2 KILL DEVIL RD	PO BOX 327	NO TRURO	MA	02652
6311	42-304-0-R	RHOADES PETER C & NANCY M	4 KILL DEVIL RD	5 SARAH PAUL HILL	MADBURY	NH	03823
6556	42-307-0-R	ANDERS RICHARD I & PAPRIN JUDITH	5 OBBO DR	89 ESSEX ST	BROOKLINE	MA	02446-4003
6557	42-308-0-R	CARNO ELLEN	3 OBBO DR	20 MARION ST, UNIT 2	BROOKLINE	MA	02446
6789	42-3ID9-0-R	AVP REALTY TRUST CHAPMAN E WESLEY & SUSAN I	42 GREAT HOLLOW RD	PO BOX 1860	WELLFLEET	MA'	02667
2091	45-5⊢0-R	D L Q REALTY TRUST TRS: DIGIOVANNI STEPHEN M	5 MARYS WAY	PO BOX 49	TRURO	MA	02666-0049

2/28/2025

Key	Parcel ID	Owner	Location	Mailing Street	Mailing City	ST	ZipCd/Country
	45-122-0-R	CAMACHO VINCENT B II	1 MARYS WAY	PO BOX 689	TRURO	MA	02666
5571	45-123-0-R	ASPLUNDH KURT H & JENNIFER C	3 MARYS WAY	PO BOX 411	BRYN ATHYN	PA	19009
6558	45-145-0-R	COSTA WILLIAM C & DIANE B	1 OBBO DR	PO BOX 690	TRURO	MA	02666-0690
6559	45-146-0-R	TRACY MAYNARD SILVER TRUST SILVER TRACY M TRUSTEE	2 OBBO DR	112 EAST 19TH ST APT 9F	NEW YORK	NY	10003

2

VENUTO INVESTMENT TRUST TRS VENUTO FRANCIS A JR ET AL 8 ARLINGTON PLACE FRAMINGHAM, MA 01702 DONOVAN J AMBROSE & YETRA LYNN E 15 ROCHESTER ROAD NEWTON, MA 02458 SUSSMAN JACOB H & FLAXMAN JESSICA 370 ORIENTA AVE MAMARONECK, NY 10543

42-232-0-R

R 42-233-0-R

JOEL H KIMBALL TRUST &
MARY ELLEN KIMBALL TRUST
PO BOX 433
TRURO, MA 02666

JARVIS KATHERINE S LIVING TRUS TRS: JARVIS KATHERINE S 1275 MARTIN AVE PALO ALTO, CA 94301

42-294-0-E

42-299-0**-**R

42-300-0-R

42-247-0-R

TRURO CONSERVATION TRUST TRS: BETSEY BROWN ET AL PO BOX 327 NO TRURO, MA 02652-0327

KANTAR REBECCA SHERWOOD

672 CHESTNUT ST

NEWTON, MA 02468

JOEL H KIMBALL TRUST &
MARY ELLEN KIMBALL TRUST
PO BOX 433
TRURO, MA 02666

BAKER CHRISTOPHER A & BAKER ANTHONY W PO BOX 36 TRURO, MA 02666

42-303-0-E

42-304-0-R

42-307-0-R

TRURO CONSERVATION TRUST TRS: TOM BOW, G. CHANG ET AL PO BOX 327 NO TRURO, MA 02652

RHOADES PETER C & NANCY M 5 SARAH PAUL HILL MADBURY, NH 03823

ANDERS RICHARD I & PAPRIN JUDITH 89 ESSEX ST BROOKLINE, MA 02446-4003

42-308-0-R

42-309-0-R

45-5-0-R

CARNO ELLEN 20 MARION ST, UNIT 2 BROOKLINE, MA 02446 AVP REALTY TRUST CHAPMAN E WESLEY & SUSAN I PO BOX 1860 WELLFLEET, MA 02667 D L Q REALTY TRUST TRS: DIGIOVANNI STEPHEN M PO BOX 49 TRURO, MA 02666-0049

45-122-0-R

45-123-0-R

45-145-0-R

CAMACHO VINCENT B II PO BOX 689 TRURO, MA 02666 ASPLUNDH KURT H & JENNIFER C PO BOX 411 BRYN ATHYN, PA 19009 COSTA WILLIAM C & DIANE B PO BOX 690 TRURO, MA 02666-0690

45-146-0-R

TRACY MAYNARD SILVER TRUST SILVER TRACY M TRUSTEE 112 EAST 19TH ST APT 9F NEW YORK, NY 10003

NOTIFICATION TO ABUTTERS UNDER THE MASSACHUSETTS WETLANDS PROTECTION ACT & TOWN OF TRURO WETLAND BY-LAW, CHAPTER 8

In accordance with the second paragraph of the Massachusetts General Laws Chapter 131, Section 40 and the Town of Truro Wetland By-Law Ch. 8, you are hereby notified of the following:

A.	The name of the applicant is: <u>Town of Truro</u>				
B.	The applicant has filed a Request for Determination of Applicability with the Truro Conservation Commission, seeking a jurisdictional determination for proposed work that may remove, fill, dredge or alter an Area Subject to Protection under the Wetlands Protection Act (MGL c. 131 s. 40 & Town of Truro Wetland By-Law, Chapter 8).				
C.	The address of the lot where the activity is proposed is: 0 Great Hollow Beach (42-230), 2 Kill Devil Road (42-303), in Truro, MA.				
D.	Proposed work is: Great Hollow Beach access stairs and stormwater improvements.				
E.	Copies of the Request for Determination of Applicability may be examined at the Truro Town Hall at the Conservation Commission office between the hours of 8:00 a.m. and 4:00 p.m. Monday thru Friday. For more information, call (508) 349-7004 ext. 131.				
F.	Copies of the Request for Determination of Applicability may be obtained from either the applicant or applicant's representative. Applicant's phone number				
	Or Applicant's representative's phone number: 508-495-6210				
G. Conse	Information regarding the date, time and place of the public hearing may be obtained by calling the Truro ervation Commission office at (508) 349-7004 ext. 131				
Н.	Person sending this notification (applicant, representative or other)				
	Name: Mitchell A. Buck, Woods Hole Group, Inc.				
	Address: 107 Waterhouse Road				
	Town: Bourne State: MA Zip: 02532				
	Telephone: 508-495-6210				

NOTES:

- Notice of the public hearing, including date, time and place will be published at least five (5) days in advance in a newspaper of general circulation.
- Notice of the public hearing, including date, time and place will be posted in the Town Hall not less than forty-eight hours in advance.
- You may also contact the Southeast Regional Office of the Department of Environmental Protection at (508) 946-2800 for more information about this application.



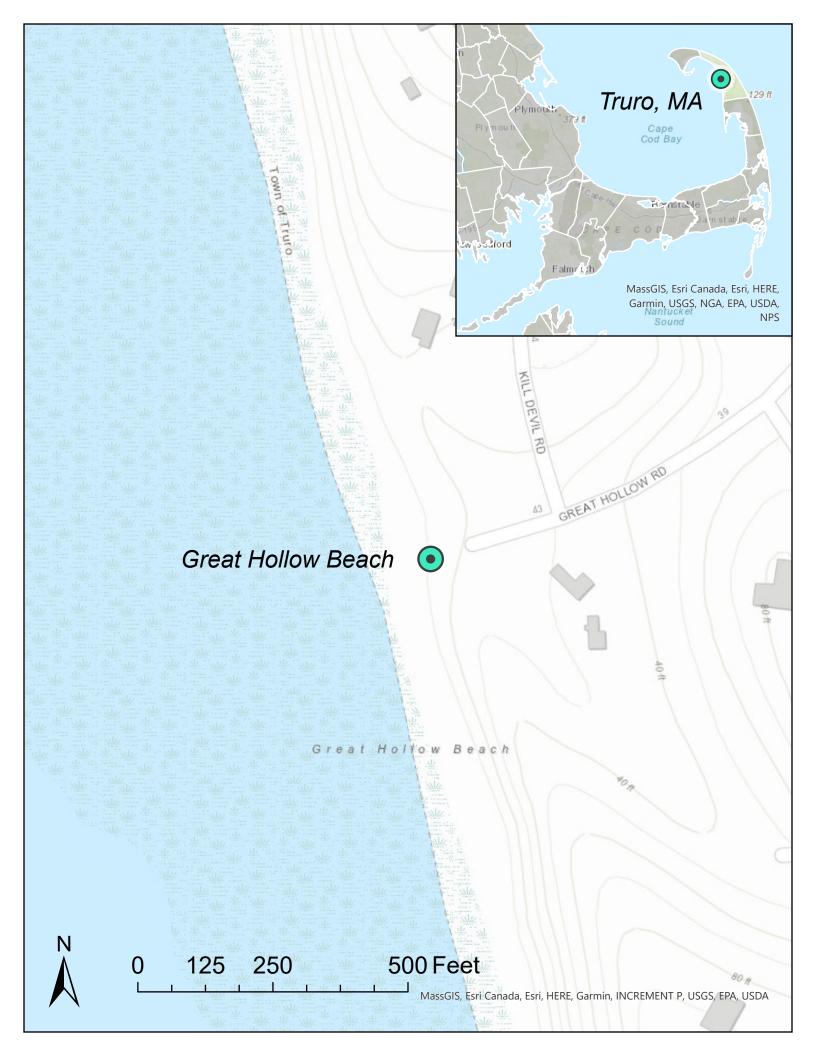


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Section E

Project Maps & Plans



GREAT HOLLOW BEACH ACCESS IMPROVEMENTS

GREAT HOLLOW ROAD · TRURO · MASSACHUSETTS
FEBRUARY 2025

PROJECT TEAM

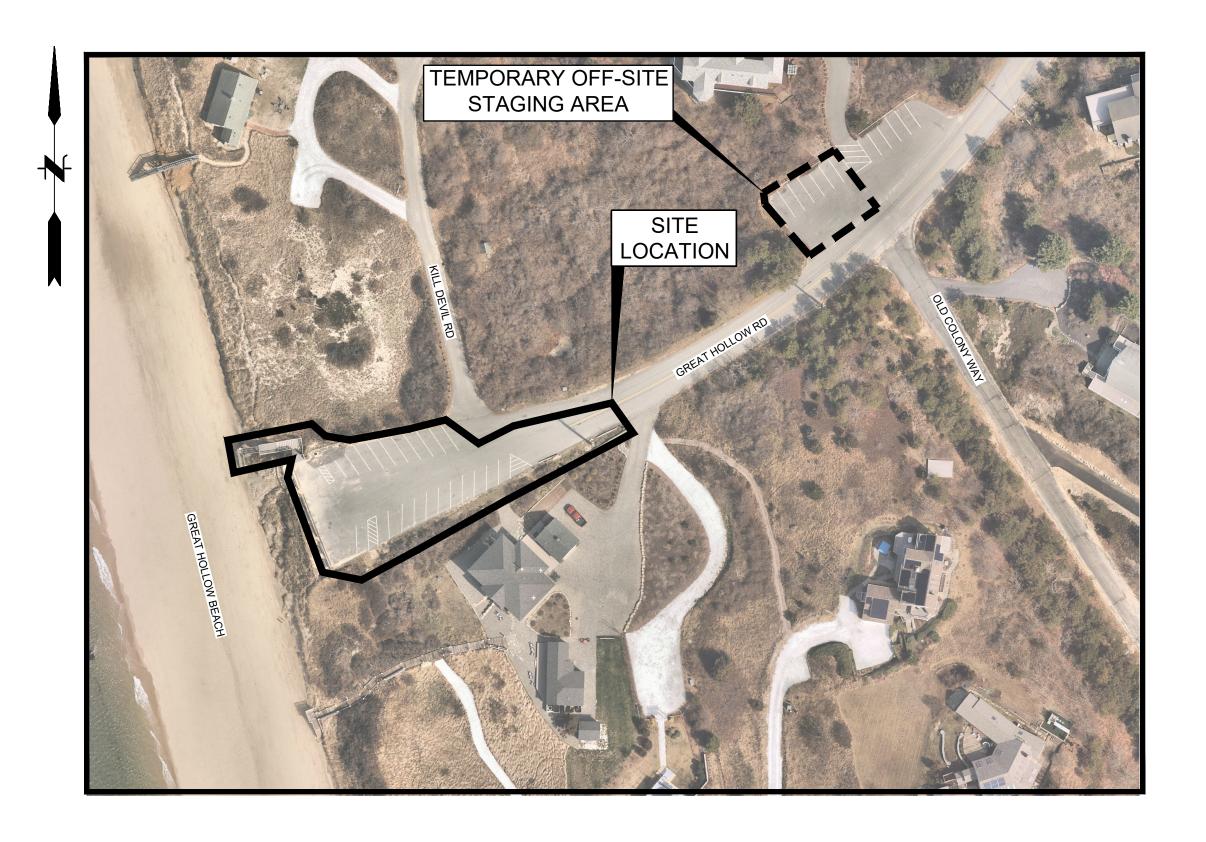
FUSS & O'NEILL 115 BROAD STREET 6th FLOOR BOSTON, MA 02110 617-285-2469

WOODS HOLE GROUP, INC. 107 WATERHOUSE ROAD BOURNE, MA 02532 508-540-8080

WOODS HOLE GROUP

SHEET INDEX

Sheet no. Sheet Title	
GI-001	COVER SHEET
GI-002	GENERAL NOTES
EX-101	EXISTING CONDITIONS PLAN
CP-101	SITE PREPARATION AND EROSION SEDIMENT CONTROL PLAN
CS-101	SITE PLAN
CD-501 - CD-503	CONSTRUCTION DETAILS
S.01	STRUCTURAL NOTES & KEY PLAN
S1.0	FOUNDATION & FRAMING PLANS
S3.0 - S3.1	SECTIONS
S5.0	STRUCTURAL DETAILS



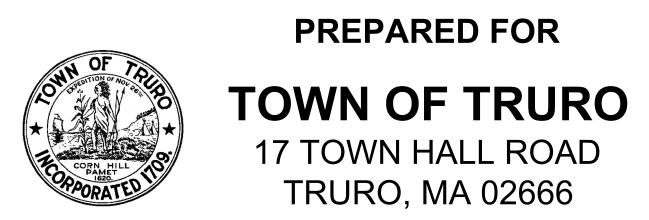
LOCATION MAP

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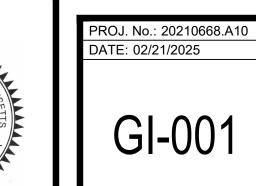
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SURVEY NOTES, MAP NOTES, AND EXISTING CONDITIONS REFERENCES:

- PROJECT LOCATION AREA: GREAT HOLLOW ROAD ASSESSOR MAP 42 TRURO, MASSACHUSETTS
- 2. EXISTING CONDITIONS DEPICTED ON THIS PLAN ARE BASED ON A PLAN ENTITLED: "PLAN OF EXISTING CONDITIONS AT GREAT HOLLOW BEACH, TRURO, MA" DATED JULY 23, 2024 PREPARED BY WOODS HOLE GROUP.
 - A. AERIAL IMAGERY WAS OBTAINED FROM NEARMAPS, DATED APRIL 10, 2024.
- B. WETLAND RESOURCE DELINEATION WAS CONDUCTED BY WOODS HOLE GROUP ON APRIL 12, 2024.
- TOPOGRAPHIC INFORMATION WAS OBTAINED FROM A TOPOGRAPHIC SURVEY CONDUCTED BY WOODS HOLE
- ALL SURVEY ELEVATIONS DEPICTED HEREON ARE IN ENGLISH UNITS (FEET) AND REFERENCED TO NAVD88, UNLESS OTHERWISE NOTED. THE HORIZONTAL LAYOUT OF EXISTING AND PROPOSED FEATURES IS REFERENCED TO THE MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM (US FOOT), NORTH AMERICAN DATUM 1983 (NAD83).
- SURVEY BENCHMARK
- . CENTER OF CATCH BASIN ON SOUTH SIDE OF GREAT HOLLOW ROAD PARKING LOT AS SHOWN ON THIS PLAN. NAIL FOUND ON BERM ON NORTH SIDE OF GREAT HOLLOW ROAD AS SHOWN ON THIS PLAN.
- FLOOD ZONE INFORMATION:
 - A PORTION OF THE WORK IS WITHIN A SPECIAL FLOOD HAZARD AREA (SFHA) ZONE VE (EL. 15) (FIRM PANEL NUMBER 25001C0139J DATED JULY 16, 2014).
- 6. ENVIRONMENTAL INFORMATION:
- THE SITE IS NOT WITHIN AN AREA OF ESTIMATED HABITAT OF RARE WILDLIFE PER NHESP MAP AUGUST 1, 2021 "ESTIMATED HABITATS OF RARE WILDLIFE" FOR USE WITH THE MA WETLANDS PROTECTION ACT REGULATIONS (310
- SITE DOES NOT CONTAIN CERTIFIED VERNAL POOLS PER NHESP MAP "CERTIFIED VERNAL POOLS."
- THE SITE IS NOT WITHIN A PRIORITY HABITAT PER NHESP MAP AUGUST 1, 2021 "PRIORITY HABITATS OF RARE SPECIES" FOR SPECIES UNDER THE MASSACHUSETTS ENDANGERED SPECIES ACT, REGULATIONS (321 CMR 10).
- THE SITE IS NOT WITHIN A GROUNDWATER PROTECTION AREA.

EXISTING UTILITY NOTES:

- BEFORE BEGINNING SITE WORK, THE CONTRACTOR SHALL INVESTIGATE AND VERIFY THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND OTHER CONSTRUCTION AFFECTING THE WORK. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF NECESSARY. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT AND THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT THEIR OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT DIG SAFE (811) AND UTILITY COMPANIES TO LOCATE ALL EXISTING UTILITIES, AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. THE LOCATION OF EXISTING UNDERGROUND INFRASTRUCTURE, UTILITIES, CONDUITS AND LINES ARE SHOWN IN AN APPROXIMATE WAY ONLY, MAY NOT BE LIMITED TO THOSE SHOWN HEREIN AND HAVE BEEN RESEARCHED BASED ON THE AVAILABLE UTILITY RECORDS NOTED HEREON. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO LOCATE SAID INFRASTRUCTURE AND UTILITIES EXACTLY. IF FIELD CONDITIONS DIFFERS FROM PLAN INFORMATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR POSSIBLE
- COMPANY, AND/OR OWNER, HAVE BEEN CORRECTED.

GENERAL CONSTRUCTION AND COORDINATION NOTES:

- VERIFY THE LOCATIONS OF EXISTING STRUCTURES AND THE PROPOSED LAYOUT OF THE PROPOSED WORK IN ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. THE CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH THE WORK.
- OBTAIN FIELD MEASUREMENTS AS REQUIRED TO FIT THE WORK PROPERLY. RECHECK MEASUREMENTS BEFORE CONSTRUCTING EACH WORK ITEM. WHERE PORTIONS OF THE WORK ARE INDICATED TO FIT TO OTHER CONSTRUCTION. VERIFY DIMENSIONS OF OTHER CONSTRUCTION BY FIELD MEASUREMENTS BEFORE FABRICATION. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK.
- 3. VERIFY SPACE REQUIREMENTS AND DIMENSIONS OF ITEMS SHOWN ON DRAWINGS. CHECK THE LOCATION, LEVEL AND GRADE, OF EVERY MAJOR ELEMENT AS THE WORK PROGRESSES.
- 4. ESTABLISH BENCHMARKS AND CONTROL POINTS IN ADDITION TO THOSE INDICATED TO SET LINES, GRADES, AND LEVELS AT EACH STAGE OF CONSTRUCTION. LOCATE THE WORK AND COMPONENTS OF THE WORK ACCURATELY, IN CORRECT ALIGNMENT AND ELEVATION, AS INDICATED.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS TO A CONDITION EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION, ANY PAVEMENT, WALKS, SIGNS, CURBS, OR OTHER SITE FEATURES, THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
- 6. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLING MATERIALS AND PRODUCTS.
- 7. INSTALL PRODUCTS AT THE TIME AND UNDER CONDITIONS THAT WILL ENSURE THE BEST POSSIBLE RESULTS. MAINTAIN CONDITIONS REQUIRED FOR PRODUCT PERFORMANCE UNTIL FINAL ACCEPTANCE BY OWNER.
- 8. CONDUCT CONSTRUCTION OPERATIONS SO NO PART OF THE WORK IS SUBJECTED TO DAMAGING OPERATIONS OR LOADING IN EXCESS OF THAT EXPECTED DURING NORMAL POST-CONSTRUCTION CONDITIONS.
- 9. USE PRODUCTS, CLEANERS, AND INSTALLATION MATERIALS THAT ARE NOT CONSIDERED HAZARDOUS.
- 10. CONTRACTOR AGREES THAT IT ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTIES; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CONTRACT OWNER, PROPERTY OWNERS AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM "THE SOLE NEGLIGENCE OF THE CONTRACT OWNER, PROPERTY OWNER OR THE ENGINEER."
- 11. DEVIATIONS OR CHANGES FROM THESE PLANS WILL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER/OWNER.
- 12. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
- 13. THE CONTRACTOR SHALL RESTORE DISTURBED LANDSCAPE AREAS TO ORIGINAL CONDITION (I.E. SEEDED, SODDED, PLANTED) UNLESS OTHERWISE DIRECTED WITHIN CONTRACT DOCUMENTS.
- 14. ALL EXCESS EXCAVATED MATERIALS, EXCESS FILL, EXCESS CONSTRUCTION MATERIALS, DEBRIS, AND WASTE SHALL BE REMOVED FROM THE SITE, SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS, AND SHALL NOT
- BE DISPOSED OF IN TIDAL WATERS OR ON THE COASTAL FEATURE. 15. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE
- 16. WORK IS RESTRICTED TO THE HOURS OF 7 AM TO 5 PM ON MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS, UNLESS OTHERWISE APPROVED BY THE OWNER.
- 17. ALL FILL SHALL BE CLEAN AND FREE OF MATERIALS WHICH MAY CAUSE POLLUTION OF TIDAL WATERS.
- 18. MATERIALS AND METHODS OF CONSTRUCTION ASSOCIATED WITH THE ADJUSTMENT AND/OR REMOVAL AND RELOCATIONS OF UNDERGROUND UTILITIES SHALL BE IN ACCORDANCE WITH THE UTILITY OWNER'S RULES AND REGULATIONS. THE CONTRACTOR SHALL NOTIFY AFFECTED PROPERTY OWNERS AT LEAST 48 HOURS IN ADVANCE OF ANY DISRUPTIONS OR AS OTHERWISE REQUIRED BY THE RESPECTIVE UTILITY OWNER.
- 19. THE PARKING LOT SHALL BE CLOSED DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COORDINATE WITH AND ASSIST THE TOWN AS NEEDED REGARDING PARKING LOT CLOSURE, CLOSURE SIGNAGE AND/OR BARRICADES, AND PROTECTION OF THE PUBLIC.

TEMPORARY OFF-SITE STAGING AREA:

PERMITS.

- TEMPORARY OFF-SITE STAGING AREA SHOWN ON SHEET GI-001 MAY BE UTILIZED, SUBJECT TO DISCUSSION AND AGREEMENT WITH THE TOWN OF TRURO.
- 2. A ROW OF WEIGHTED SEDIMENT FILTER TUBES AND/OR OTHER MEANS OF SEDIMENT CONTROL SHALL BE INSTALLED AROUND TEMPORARY OFF-SITE STAGING AREA TO CONTAIN SEDIMENT.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS TO A CONDITION EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION. ANY PAVEMENT, WALKS, SIGNS, CURBS, OR OTHER SITE FEATURES, THAT MUST BE CUT OR THAT ARE DAMAGED DURING USE OF OFF-SITE STAGING AREA.
- 4. THE CONTRACTOR SHALL NOT IMPEDE ACCESS TO 37 GREAT HOLLOW ROAD.

CONTROL OF WATER AND PROTECTION OF WORK NOTES:

- 18. THE PUBLIC, WORK AND SITE SHALL BE PROTECTED AT ALL TIMES UNTIL FINAL ACCEPTANCE BY THE OWNER. CARE SHALL BE EXERCISED WHILE OPERATING EQUIPMENT ON AND ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE THE UTILIZED EQUIPMENT DOES NOT CAUSE DAMAGE TO EXISTING STRUCTURES AND FEATURES TO REMAIN.
- 19. ACCESS TO VARIOUS PORTIONS OF THE SITE SHALL BE UNDERTAKEN IN SUCH A MANNER THAT THE WORK AND SITE ARE PROTECTED AT ALL TIMES. ACCESS WAYS SHALL BE CONSTRUCTED, MAINTAINED, AND PROTECTED EROSION AND SEDIMENT CONTROLS TO PREVENT DAMAGE FROM EROSION DURING MAJOR STORM EVENTS.
- 20. PLACEMENT AND COMPACTION OF FILL MATERIALS SHALL BE COMPLETED IN SUCH A MANNER THAT THE WORK AND ADJACENT ROADWAYS ARE PROTECTED FROM DAMAGE AT ALL TIMES.
- 21. BACKFILL OPERATIONS SHALL PROCEED TO RAISE THE GROUND SURFACE UNIFORMLY AND SHAPED TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES. CONSTRUCT AND MAINTAIN ON THE SITE, ALL DITCHES AND CHANNELS NECESSARY TO KEEP THE SITE IN A DRY AND WORKABLE CONDITION. WHERE WATER IS FLOWING OR OTHERWISE INFILTRATING INTO AN EXCAVATION, PROVIDE FOR PUMPING AND OTHER DRAINAGE FACILITIES, INCLUDING EROSION AND SEDIMENT CONTROLS, TO DIVERT WATER FROM SUCH EXCAVATION.
- 22. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. REMOVE WATER TO PREVENT SOFTENING OF FOUNDATION BOTTOMS, UNDERCUTTING OF FOOTINGS AND SOIL CHANGES DETRIMENTAL TO STABILITY OF SUBGRADES, FOUNDATIONS AND STRUCTURES.
- 23. IT IS NOT ANTICIPATED THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION.
- 24. TEMPORARY STORMWATER BYPASS CONVEYANCE SYSTEMS (THAT MAY BE REQUIRED) TO DISCHARGE STORMWATER THROUGH THE SITE (AND AROUND PROPOSED WORK) DURING CONSTRUCTION SHALL BE INSTALLED, OPERATED, MAINTAINED AND REMOVED IN SUCH A MANNER TO PROTECT THE WORK AND EXISTING FEATURES FROM DAMAGE AT ALL TIMES UNTIL FINAL ACCEPTANCE BY THE OWNER.
- 25. IT IS NOT ANTICIPATED THAT THE PUMPING OF GROUNDWATER WILL BE REQUIRED FOR DE-WATERING. HOWEVER, DURING OR FOLLOWING RAINFALL EVENTS, THE PUMPING OF STANDING WATER IN EXCAVATION AREAS MAY BE REQUIRED. IF REQUIRED, PUMP DISCHARGES SHALL BE MANAGED SUCH THAT THESE DO NOT CAUSE EROSION OF SOILS OR DO NOT RESULT IN THE DISCHARGE OF SEDIMENT LADEN WATER. PUMPED WATER SHALL BE DISCHARGED THROUGH AN APPROVED SEDIMENT CONTROL DEVICE (E.G. FILTER BAG) TO PROPERLY FILTER TURBID WATER THAT IS LOCATED ON A CRUSHED STONE IN A DEWATERING AREA TO AVOID SCOUR OR SUSPENSION OF SOIL AT THE DISCHARGE. WATER SHALL NOT BE DISCHARGED ONTO FILL OR BACKFILL AREAS. IF NEEDED, DEWATERING AREA WITH FILTER BAGS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES INCLUDED THE APPLICABLE DETAILS FOUND IN THE MANUFACTURER'S SPECIFICATIONS AND/OR IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (AS AMENDED).
- 26. PROTECT CONSTRUCTED WORK ON THE SITE DURING STORM AND FLOOD CONDITIONS.
- PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS, AS DETERMINED BY THE ENGINEER, UTILITY 27. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLAN OR AS REQUIRED BY SITE CONDITIONS. ALL EROSION CONTROL DEVICES WILL BE MAINTAINED THROUGHOUT CONSTRUCTION.

WORK AREA MAINTENANCE NOTES:

- CLEAN PROJECT SITE AND WORK AREAS DAILY, INCLUDING COMMON AREAS. MAINTAIN PROJECT SITE FREE OF WASTE MATERIALS AND DEBRIS. DISPOSE OF MATERIALS LAWFULLY OFF-SITE.
- 2. CLEAN AREAS WHERE WORK IS IN PROGRESS TO THE LEVEL OF CLEANLINESS NECESSARY FOR PROPER EXECUTION OF THE WORK. A. REMOVE LIQUID SPILLS PROMPTLY. B. APPLY WATER AS NEEDED TO CONTROL DUST.
- BURYING OR BURNING WASTE MATERIALS ON-SITE WILL NOT BE PERMITTED. WASHING WASTE MATERIALS INTO STORM DRAINS AND WATERWAYS WILL NOT BE PERMITTED.
- 4. DURING HANDLING AND INSTALLATION, CLEAN AND PROTECT CONSTRUCTION IN PROGRESS AND ADJOINING MATERIALS ALREADY IN PLACE. APPLY PROTECTIVE COVERING WHERE REQUIRED TO ENSURE PROTECTION FROM DAMAGE OR DETERIORATION AT SUBSTANTIAL
- 5. LIMITING EXPOSURES: SUPERVISE CONSTRUCTION OPERATIONS TO ASSURE THAT NO PART OF THE CONSTRUCTION, COMPLETED OR IN PROGRESS, IS SUBJECT TO HARMFUL, DANGEROUS, DAMAGING, OR OTHERWISE DELETERIOUS EXPOSURE DURING THE CONSTRUCTION

EROSION CONTROL NOTES:

- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLAN OR AS REQUIRED BY SITE CONDITIONS. ALL EROSION CONTROL DEVICES WILL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 2. DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW AND LOCAL ORDINANCE. ALL WORK SHALL COMPLY WITH THE FOLLOWING CRITERIA AND OTHER PERMIT CONDITIONS TO PREVENT OR MINIMIZE SOIL EROSION AND SEDIMENTATION TO OFF-SITE AREAS.
- 3. THE CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" IN CONSTRUCTING THE EROSION AND SEDIMENT CONTROLS INDICATED ON THE PLANS. ALL EROSION AND SEDIMENT CONTROL MEASURES OR WORKS AND REHABILITATION MEASURES MUST CONFORM TO OR EXCEED THE SPECIFICATIONS OR STANDARDS SET OUT IN THIS HANDBOOK.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR THE TIMELY INSTALLATION, INSPECTION, MAINTENANCE, AND/OR REPLACEMENT OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHOWN ON THESE PLANS TO ENSURE PROPER OPERATION THROUGHOUT THE LIFE OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF PERMANENT MEASURES UNTIL FINAL ACCEPTANCE BY THE OWNER. REMOVE EROSION AND SEDIMENTATION CONTROLS AFTER STABLE VEGETATIVE GROWTH IS ESTABLISHED.
- 5. THE CONTRACTOR SHALL INSPECT EROSION AND SEDIMENT CONTROL DEVICES AT THE END OF EACH WORKING DAY, AFTER EACH STORM EVENT, AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLEAN OUT ACCUMULATED SEDIMENT BEHIND CONTROLS. REPAIR OR REPLACE CONTROLS PROMPTLY AS NEEDED. REMOVE ACCUMULATED SEDIMENT FROM BEHIND PERIMETER CONTROLS WHEN ONE-HALF OF THE ORIGINAL HEIGHT OF THE COMPOST FILTER TUBES BECOME FILLED WITH SEDIMENT. REMOVE SEDIMENT FROM CATCH BASIN PROTECTION IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. DISPOSE OF REMOVED SEDIMENT IN ON-SITE FILL AREAS OR LAWFULLY OFF-SITE.
- TREES AND OTHER EXISTING VEGETATION NOT WITHIN THE LIMITS OF DISTURBANCE SHALL BE PROTECTED FROM DAMAGE. RESTORE DISTURBED AREAS AS CLOSELY AS POSSIBLE. AREAS DAMAGED DURING CONSTRUCTION SHALL BE RE-SEEDED OR OTHERWISE RESTORED TO THEIR ORIGINAL CONDITION.
- TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED FOR ANY DISTURBED AREAS THAT HAVE NOT YET REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS. TEMPORARY VEGETATIVE COVER SHALL CONSIST OF 40% ANNUAL RYEGRASS AND 60% PERENNIAL RYEGRASS FROM APRIL 1 TO NOVEMBER 15 AND WINTER RYEGRASS BETWEEN NOVEMBER 15 AND MARCH 31. SEED AT A RATE OF 75 LBS/ACRE BY HAND.
- 8. PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED TO ALL DISTURBED AREAS THAT HAVE REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS PERMANENTLY CEASED. RECOMMENDED PERMANENT SEEDING/PLANTING DATES ARE MARCH 15 TO MAY 15 AND SEPTEMBER 15 TO NOVEMBER 15. PERMANENT VEGETATIVE COVER SEED MIXTURES AND APPLICATION RATES FOR THE PROJECT SHALL BE IN ACCORDANCE WITH THE SITE PLAN. ALL PLANTINGS AND SEED SHALL BE COVERED BY A ONE-YEAR WARRANTY PERIOD; RESEEDING/RE-PLANTING SHALL BE COMPLETED TO ENSURE STABLE VEGETATIVE COVER IS ESTABLISHED OVER ALL DISTURBED AREA.
- 9. IF PERMANENT SEEDING/PLANTING CANNOT BE COMPLETED IMMEDIATELY OR WITHIN THE RECOMMENDED SEEDING/PLANTING DATES, TEMPORARY BIODEGRADABLE EROSION CONTROL BLANKETING (CONTAINING NO PLASTIC COMPONENTS) SHALL BE INSTALLED TO PROTECT THE SITE UNTIL ARRIVAL OF THE NEXT RECOMMENDED SEEDING/PLANTING PERIOD. MULCHING/BLANKETING SHOULD BE PERFORMED AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.
- 10. ANY DISTURBED AREAS WHICH DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION BY NOVEMBER 15TH MUST BE STABILIZED THROUGH THE USE OF NON-VEGETATIVE EROSION CONTROL MEASURES. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM NOVEMBER 15TH THROUGH APRIL 15TH, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOILS MUST BE RESTABILIZED WITHIN 5 WORKING DAYS.
- 11. BLANKETING MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAIN STORMS, TO CHECK FOR RILL EROSION, WHERE EROSION IS OBSERVED, THE AREA AND BLANKETING SHALL BE REPAIRED OR REPLACED. INSPECTIONS SHALL TAKE PLACE UNTIL VEGETATION IS THOROUGHLY ESTABLISHED.
- 12. GOOD HOUSEKEEPING: THE PROJECT SITE SHALL PROVIDE FOR THE MINIMIZATION OF EXPOSURE OF CONSTRUCTION DEBRIS (INCLUDING, BUT NOT LIMITED TO, INSULATION, WIRING, PAINTS AND PAINT CANS, SOLVENTS, WALL BOARD, ETC.) TO PRECIPITATION BY MEANS OF DISPOSAL AND/OR PROPER SHELTER OR COVER. CONSTRUCTION WASTE MUST BE PROPERLY DISPOSED OF IN ORDER TO AVOID
- 13. STORAGE AND DISPOSAL: MATERIALS WHICH COULD BE A POTENTIAL SOURCE OF STORMWATER POLLUTION SUCH AS GASOLINE, DIESEL FUEL. HYDRAULIC OIL, ETC., WILL BE STORED AT THE END OF EACH DAY IN A LOCKED STORAGE TRAILER OR COVERED LOCATION AND TAKEN OFF-SITE AND PROPERLY DISPOSED OF. ALL TYPES OF WASTE GENERATED AT THIS SITE WILL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE LAW AND/OR REGULATIONS.
- 14. SPILL/LEAK PROTECTION AND RESPONSE: FUEL VEHICLES AND EQUIPMENT AWAY FROM THE COASTAL BANK AND DRAINAGE SYSTEM AND PREVENT CONTAMINATION OF SOIL, GROUNDWATER OR SURFACE WATER FROM SPILLS OR LEAKS. DEPLOY BOOMS AND OTHER
- CONTAINMENT/CLEANUP MEASURES IN THE EVENT OF A SPILL OR LEAK. NOTIFY LOCAL FIRE DEPT. AND DEP IMMEDIATELY OF ANY 15. DEWATERING: DEWATERING SHALL BE IN ACCORDANCE WITH THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR
- URBAN AND SUBURBAN AREAS." ALL TEMPORARY WATER CONTROL MEASURES SHALL BE COMPLETELY REMOVED FROM THE SITE UPON
- 16. TRACKING AND DUST CONTROL: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ADJACENT ROADS WHERE CONSTRUCTION VEHICLES HAVE TRACKED SEDIMENT FROM THE PROJECT, CONTROL DUST, AND TAKE ALL NECESSARY MEASURES TO ENSURE THAT THE SITE AND ALL ADJACENT ROADS BE MAINTAINED IN A MUD- AND DUST-FREE CONDITION AT ALL TIMES THROUGHOUT THE LIFE OF THE CONTRACT. ALL SEDIMENT SPILLED. DROPPED, WASHED, OR TRACKED ONTO THE SURROUNDING ROADWAYS MUST BE REMOVED IMMEDIATELY. DUST CONTROL MAY INCLUDE APPLICATION OF CONTROLLED AMOUNTS OF WATER ONTO AFFECTED AREAS OR OTHER CONTROL MEASURES APPROVED BY THE ENGINEER.
- 17. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF EROSION CONTROL MEASURES DURING CONSTRUCTION; THE TOWN OF TRURO'S DEPARTMENT OF PUBLIC WORKS WILL BE RESPONSIBLE FOR ADDRESSING EROSION-RELATED ISSUES THEREAFTER.

CONSTRUCTION SEQUENCE:

CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT ARE EXPECTED TO COMMENCE IN SPRING/EARLY SUMMER OF 2025 AND WILL BE COMPLETED BY END OF FALL 2025. SOME OF THE CONSTRUCTION ACTIVITIES MAY OCCUR CONCURRENTLY WITH OTHER CONSTRUCTION ACTIVITIES. THE GENERAL SEQUENCE FOR EACH PHASE OF CONSTRUCTION IS AS FOLLOWS:

- 1. INSTALL PERIMETER SEDIMENT CONTROL BARRIERS AND OTHER SEDIMENT EROSION CONTROL MEASURES. SEDIMENT EROSION CONTROL MEASURES WILL BE MAINTAINED OR REPLACED AS REQUIRED THROUGHOUT CONSTRUCTION PERIOD. ANY TEMPORARY SOIL STOCKPILE AREAS DURING CONSTRUCTION WILL ALSO BE ENCOMPASSED BY PERIMETER CONTROLS.
 - 2. CONFIRM EXISTING SITE CONDITIONS AND IDENTIFY EXISTING FEATURES (STRUCTURES, UTILITIES, ETC.) THAT ARE NOT DESIGNATED FOR REMOVAL. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 - 3. COMPLETE DEMOLITION ACTIVITIES IN ACCORDANCE WITH THE PROJECT'S SITE PREPARATION & SOIL EROSION AND SEDIMENTATION CONTROL PLAN.
 - 4. CONSTRUCT NEW CURBING AT WESTERN END OF PARKING AREA.
 - 5. CONSTRUCT SUBSURFACE INFILTRATION SYSTEM AND ASSOCIATED DRAINAGE COMPONENTS (INCLUDING DEEP-SUMF CATCH BASINS WITH PRETREATMENT DEVICES). DO NOT DISTURB EXISTING INLETS UNTIL ALL PROPOSED DRAINAGE COMPONENTS ARE IN-PLACE AND READY TO RECEIVE RUNOFF. IDEALLY, THIS WORK WILL BE PERFORMED WHEN DRY CONDITIONS ARE EXPECTED. BACKFILL AND INSTALL GRAVEL BASE OVER SYSTEM. WHEN INSTALLING SUBSURFACE INFILTRATION SYSTEM, CARE MUST BE TAKEN TO AVOID OVER COMPACTION OF SUBGRADE. CONSTRUCT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS/RECOMMENDATIONS. DO NOT OPERATE HEAVY CONSTRUCTION EQUIPMENT ABOVE CHAMBERS UNTIL A MINIMUM OF SIX INCHES OF CRUSHED STONE HAS BEEN INSTALLED OVER THE CHAMBERS.
 - 6. PERFORM ANY FINAL GRADING WITHIN AND RESTORE THE COASTAL RESTORATION AREA.
 - PERFORM ANY FINAL GRADING OF ROADWAY BASE AND ADJACENT NON-PAVED, SHOULDER AREAS; AND CONSTRUCT NEW PAVEMENT AND ROADWAY BERM. RE-STRIPE NEW PAVEMENT.
 - 8. CONSTRUCT NEW BEACH ACCESS STRUCTURE.
 - 9. REMOVE TEMPORARY EROSION CONTROLS MEASURES ONCE PERMANENT VEGETATION COVER HAS BEEN ESTABLISHED AND THE SITE IS STABILIZED, INSPECTED, AND APPROVED BY PERMITTING AUTHORITY AND THE ENGINEER.

PREVENTION AND RESPONSE PROCEDURE

- 1. THERE SHALL BE NO DISCHARGE OR DISPOSAL OF TOXIC WASTE, HAZARDOUS MATERIALS, OIL, GREASE AND OTHER LUBRICANTS, EXCESS FERTILIZER, PESTICIDES OR OTHER CHEMICALS OR CONTROLLED MATERIALS EITHER ON SITE OR IN ANY AREA WHICH MAY ENTER A WETLAND, WATERCOURSE, OR GROUNDWATER.
- ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE PROVIDENCE RIVER, SHORELINE, OR STORMWATER SYSTEM (I.E. INFILTRATION BEST MANAGEMENT PRACTICES, OR CLOSED-CONDUIT DRAINAGE SYSTEM THAT DISCHARGES TO SYSTEM) REQUIRES IMMEDIATE NOTIFICATION TO THE RIDEM OIL POLLUTION CONTROL PROGRAM AT (401) 277-2284, AS PER THE OIL POLLUTION CONTROL REGULATIONS. DURING NON-WORKING HOURS, NOTIFICATION OF SPILLS CAN BE MADE TO THE RIDEM DIVISION OF ENFORCEMENT AT (401) 222-3070 (THE 24-HOUR EMERGENCY RESPONSE PHONE NUMBER).
- ANY INCIDENT OF GROUNDWATER CONTAMINATION RESULTING FROM THE IMPROPER DISCHARGE OF POLLUTANTS TO THE STORMWATER DISPOSAL SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AS WELL AS ANY OTHER PARTIES THAT THE RIDEM DETERMINES TO BE RESPONSIBLE FOR THE CONTAMINATION. PURSUANT TO STATE LAWS AND REGULATIONS, THE RIDEM MAY REQUIRE THE PROPERTY OWNER, CONTRACTOR, AND OTHER RESPONSIBLE PARTIES TO REMEDIATE ANY INCIDENTS THAT MAY ADVERSELY IMPACT GROUNDWATER QUALITY.
- 4. UPON TRANSFER OF THE PROPERTY, THE NEW OWNER SHALL BE INFORMED AS TO THE LEGAL RESPONSIBILITIES ASSOCIATED WITH DISPOSAL SYSTEM, AS INDICATED ABOVE.
- 5. THE PROPERTY OWNER SHALL BE RESPONSIBLE TO REMEDIATE INCIDENTS THAT ADVERSELY IMPACT GROUNDWATER QUALITY.

EXCESS EXCAVATED MATERIALS:

1. ALL EXCESS EXCAVATED MATERIALS (SOILS, ROCK, GRAVEL, ETC.), EXCESS CONSTRUCTION MATERIALS, DEMOLITION DEBRIS, TEMPORARY EROSION, RUNOFF AND SEDMENT CONTROL MEASURES, ETC., SHALL BE REMOVED FROM THE SITE FOR APPROPRIATE RE-USE AND/OR PROPER DISPOSAL AT A SUITABLE UPLAND LOCATION OR LANDFILL. ALL TOXIC MATERIALS AND WASTE SHALL BE PROPERLY TRANSPORTED AND DIPSOSED OF IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.

STORMWATER MAINTENANCE PROGRAM:

- 1. REPAIRS OR REPLACEMENT OF DRAINAGE STRUCTURES SHALL BE DONE WITHIN 30 DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT MUST BE DONE IMMEDIATELY TO AVERT FAILURE OR DANGER TO NEARBY RESIDENTS.
- 2. THE TOWN OF TRURO SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM ONCE CONSTRUCTION IS COMPLETE. STREET SWEEPING SHALL ALSO BE PERFORMED AT A MINIMUM OF TWICE PER YEAR, APRIL AND OCTOBER.
- THE FOLLOWING INSPECTION AND MAINTENANCE IS REQUIRED FOR SUBSURFACE INFILTRATION SYSTEM AND ASSOCIATED INLET PIPING, CATCH BASINS, AND MANHOLES:
- A. INSPECT DEEP-SUMP CATCH BASINS AND MANHOLES AND PIPING TWO TIMES PER YEAR (AT MINIMUM). REMOVE SEDIMENT FROM SUMP OF MANHOLE UPSTREAM OF SUBSURFACE SYSTEM WHEN DEPTH OF SEDIMENT ACCUMLATES TO 1 THE HEIGHT OF THE SUMP OR ONCE PER YEAR, WHICHEVER IS MORE FREQUENT. DISPOSAL OF THE ACCUMULATED SEDIMENT AND HYDROCARBONS MUST BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.
- B. UPSTREAM MANHOLE SHALL BE INSPECTED FOR STRUCTURAL INTEGRITY. REPAIRS SHALL BE MADE AS NECESSARY.
- C. IF BLOCKAGES IN PIPING NETWORK ARE OBSERVED, CLEAN AND FLUSH IMMEDIATELY.
- D. INSPECT EACH ROW OF CHAMBER SYSTEM THROUGH ITS INSPECTION PORTS TWO TIMES PER YEAR (AT MINIMUM) TO CHECK FOR STANDING WATER AND/OR SEDIMENT AND DEBRIS BUILD-UP. STANDING WATER IN THE SYSTEM FOR MORE THAN 48-72 HOURS AFTER PRECIPITATION EVENTS COULD INDICATE THAT THE BOTTOM OF THE SYSTEM HAS BECOME CLOGGED WITH SEDIMENT.
- E. INSPECT SEPARATOR ROW FOR SEDIMENT TWO TIMES PER YEAR (AT MINIMUM). TO DO THIS, REMOVE COVER IN UPSTREAM MANHOLE. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT. IF SEDIMENT IS AT OR ABOVE THE INLET INVERT OF THE CHAMBER BOTTOM, CLEAN OUT SEPARATOR ROW USING THE JETVAC PROCESS. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" OR MORE IS PREFERRED. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN.
- F. DISPOSAL OF THE ACCUMULATED SEDIMENT AND HYDROCARBONS MUST BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.

DESCRIPTION DESIGNER REVIEWER DATE

MAL. LARA SUP (CIXILENGINEER) No. 59240 GISTERED

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EXPOSURE TO PRECIPITATION AT THE END OF EACH WORKING DAY.

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TRURO

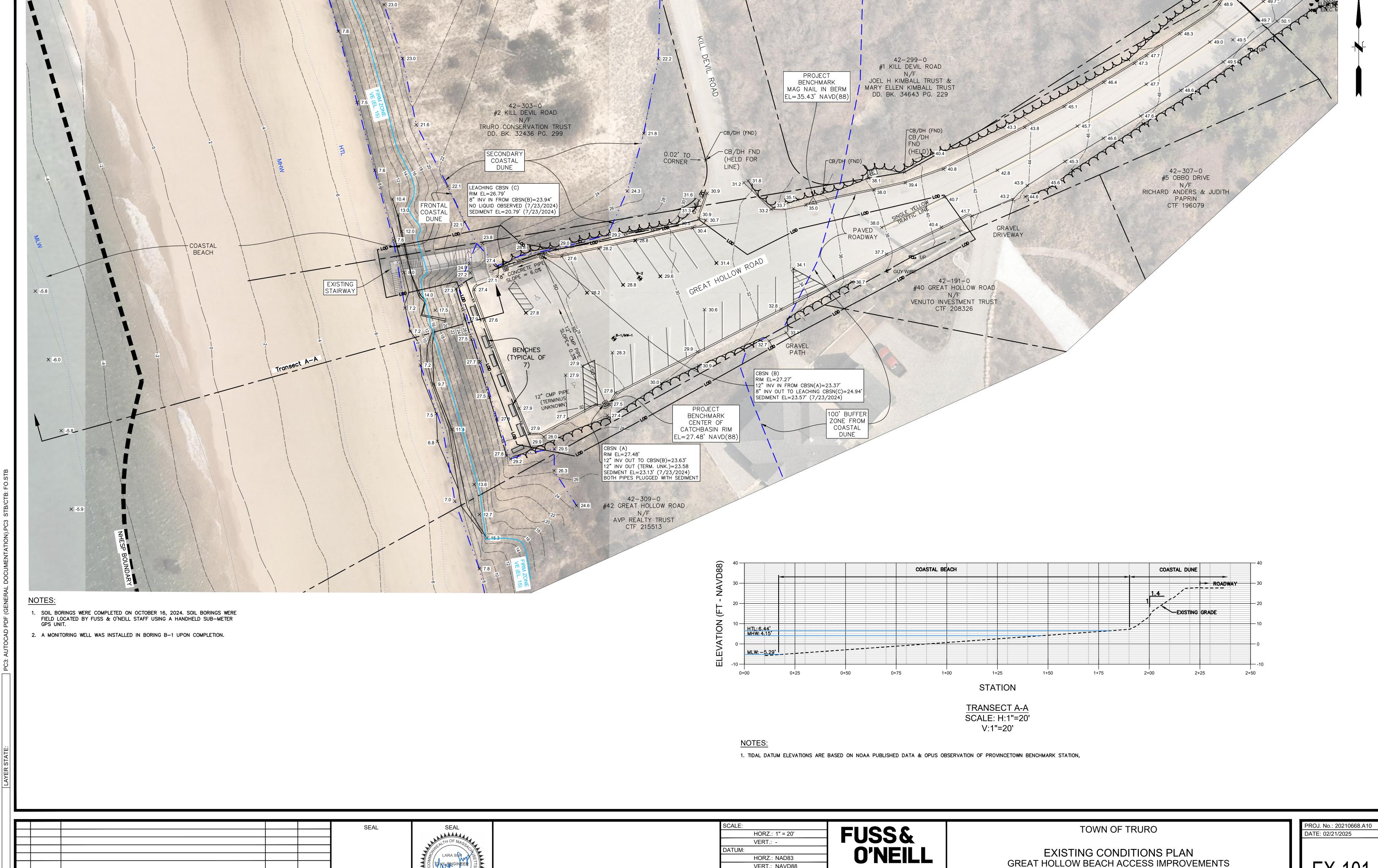
GENERAL NOTES

GREAT HOLLOW BEACH ACCESS IMPROVEMENTS

TOWN OF TRURO

DATE: 02/21/2025

PROJ. No.: 20210668.A10



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GRAPHIC SCALE

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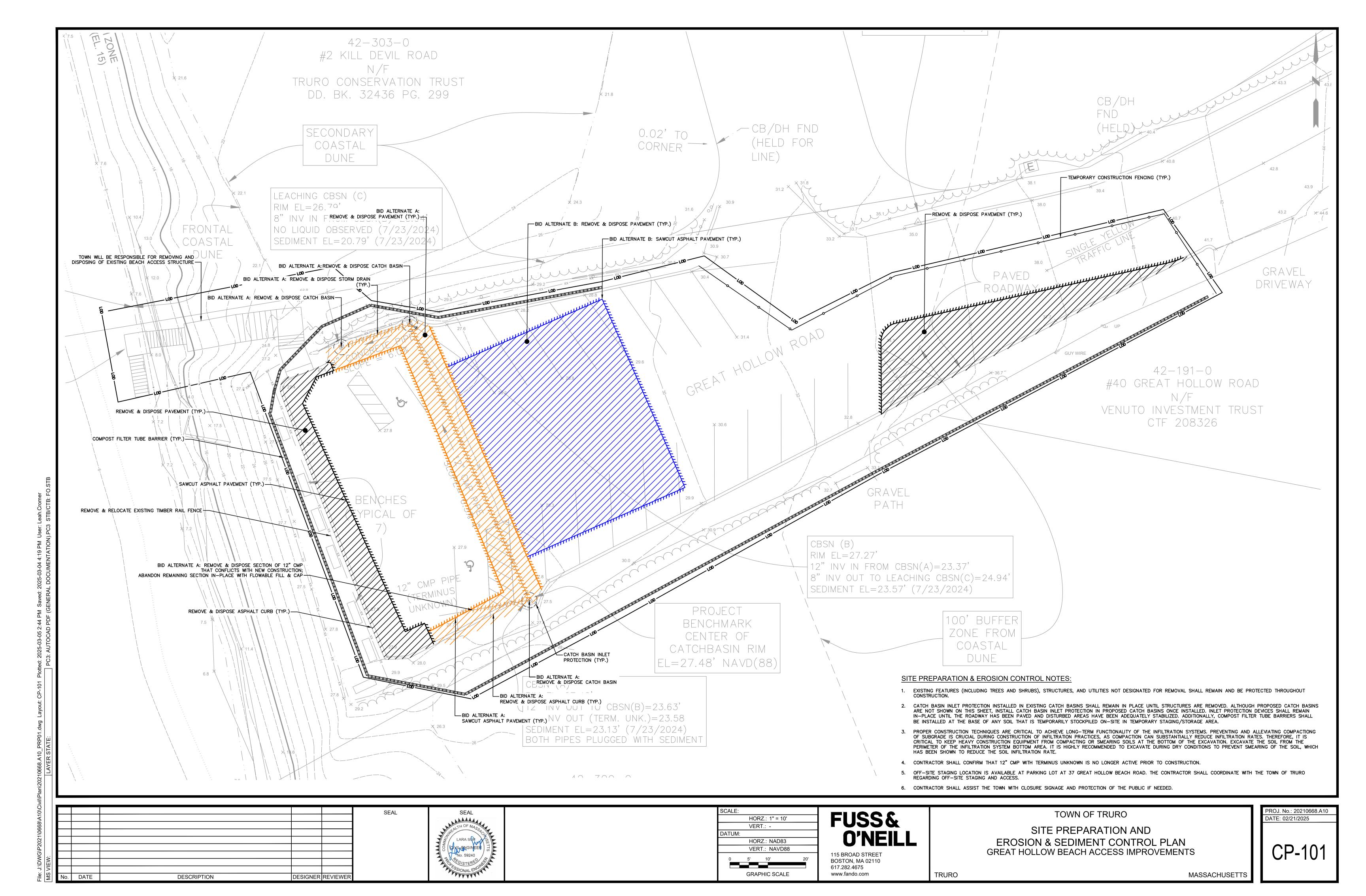
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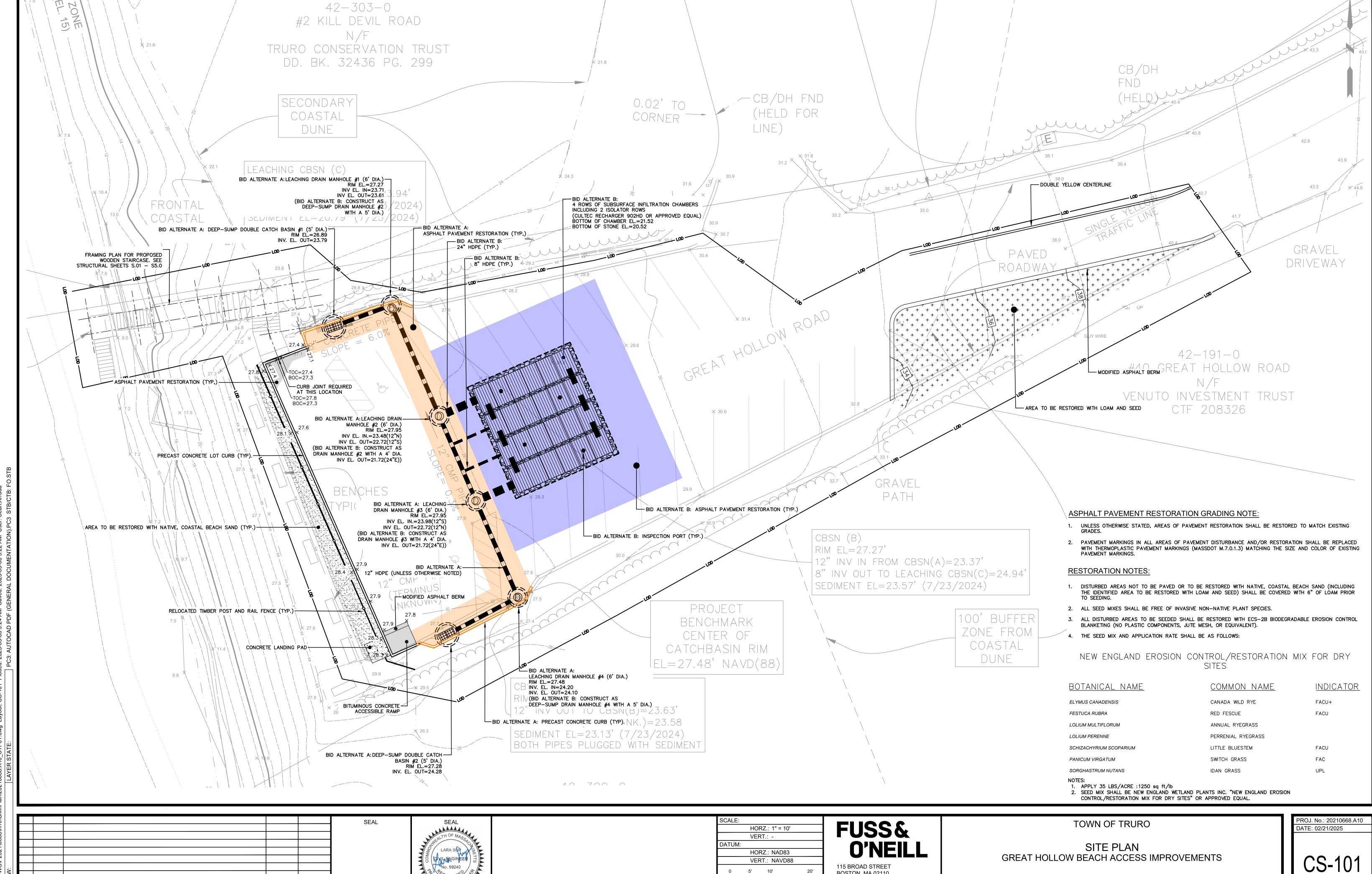
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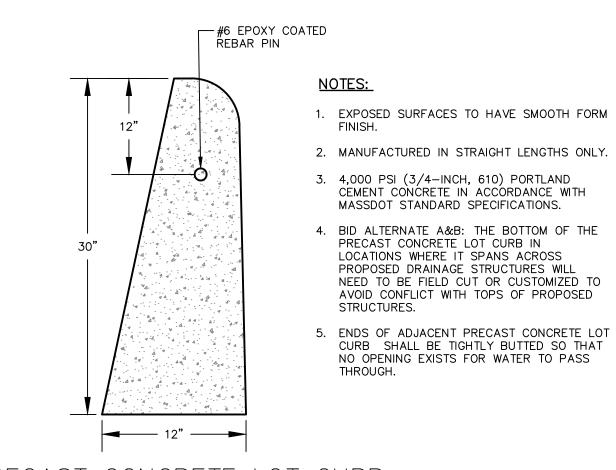
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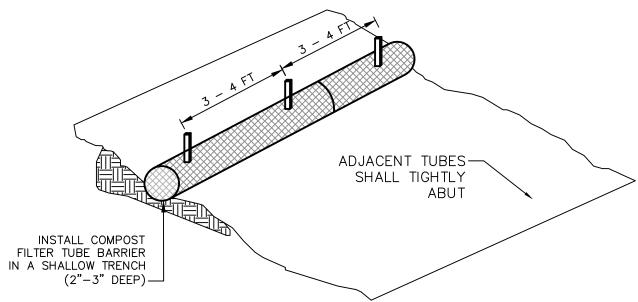
- 1. UTILIZE EXISTING GRAVEL BORROW AS GRAVEL BORROW BENEATH RECONSTRUCTED PAVEMENT AREAS AND FOR TRENCH BACKFILL WHERE EXISTING MATERIAL MEETS PROJECT SPECIFICATIONS.
- 2. UNSUITABLE MATERIAL WITHIN SUBGRADE SHALL BE REMOVED AND REPLACED WITH GRAVEL BORROW (MASSDOT
- 3. ASPHALT PAVEMENT SHALL BE IN ACCORDANCE WITH SUBSECTION 450 OF THE MASSDOT STANDARD SPECIFICATIONS.
 4. INSTALL BITUMINOUS TACK COAT BETWEEN EXIST. PAVEMENT AND NEW PAVEMENT CONNECTIONS.

ASPHALT PAVEMENT RESTORATION

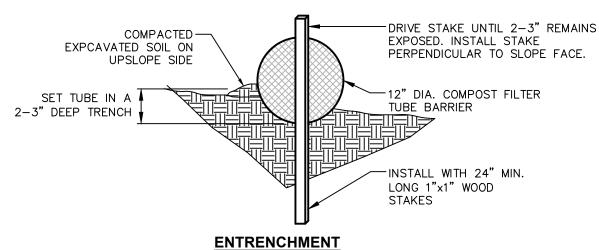
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PRECAST CONCRETE LOT CURB SCALE: NOT TO SCALE



TYPICAL INSTALLATION GUIDE



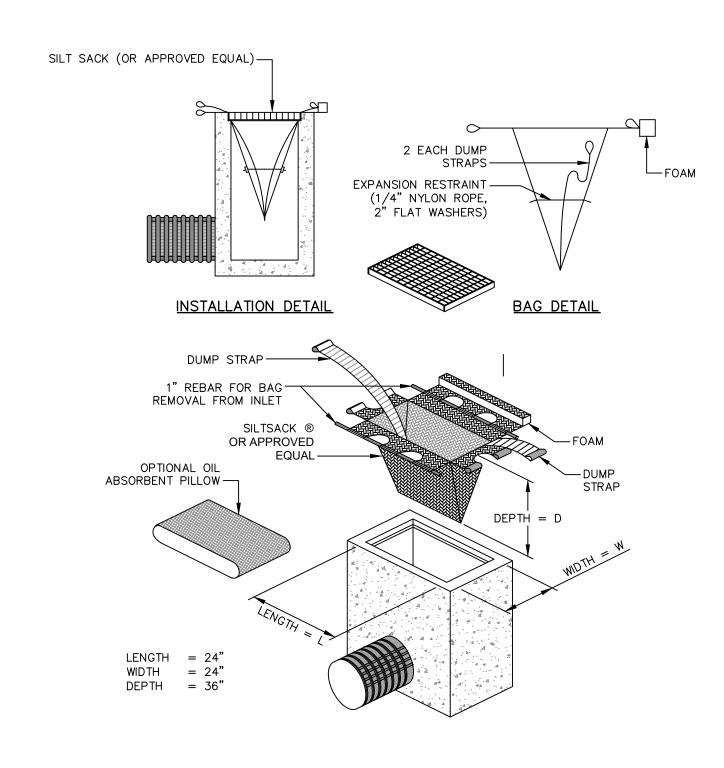
- 1. 12-INCH DIAMETER COMPOST FILTER TUBE BARRIER SHALL BE INSTALLED WHERE INDICATED ON THE CONTRACT DRAWINGS AND BE CONSTRUCTED OF 100% BIODEGRADABLE MATERIAL. A ROW OF COMPOST FILTER TUBES (WEIGHTED DOWN AND NOT STAKED) SHALL ALSO BE INSTALLED AROUND ANY SOIL STOCKPILE AREAS UTILIZED BY THE CONTRACTOR DURING CONSTRUCTION IN PAVED
- 2. COMPOST FILTER TUBES SHALL BE TRENCHED APPROXIMATELY 2-3 INCHES AND STAKED SUCH THAT IT DIRECTLY CONTACTS SOIL AND PRECLUDE UNDERMINING OR BLOWOUTS. THE TRENCH SHALL BE APPROXIMATELY 9 INCHES WIDE. STAKES SHALL BE DRIVEN THROUGH THE CENTER OF THE COMPOST FILTER TUBE AT A SPACING OF 3-4 FEET ON CENTER AND NO GREATER THAN 6" FROM EACH END OF THE COMPOST FILTER TUBE. STAKES SHALL BE 1-INCH BY 1-INCH WOODEN STAKES WITH A LENGTH OF 24 INCHES. COMPACT SOIL EXCAVATED TO CREATE TRENCH ON
- 3. ENDS OF ADJACENT COMPOST FILTER TUBES SHALL BE TIGHTLY BUTTED OR OVERLAPPED SO THAT NO OPENING EXISTS FOR WATER TO PASS THROUGH. COMPOST FILTER TUBES SHALL BE FREE OF DAMAGE OR DEFECTS WHEN DELIVERED TO THE SHIPPER. NO VEHICLES SHALL BE

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COMPOST FILTER TUBE BARRIER

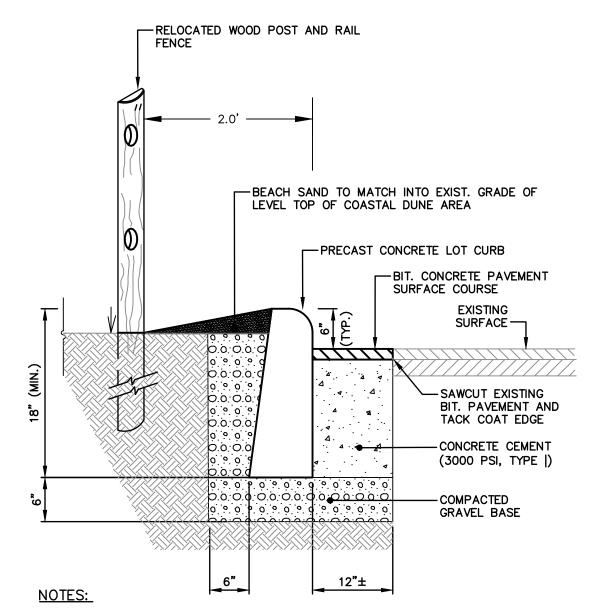
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DESCRIPTION



CATCH BASIN INLET PROTECTION

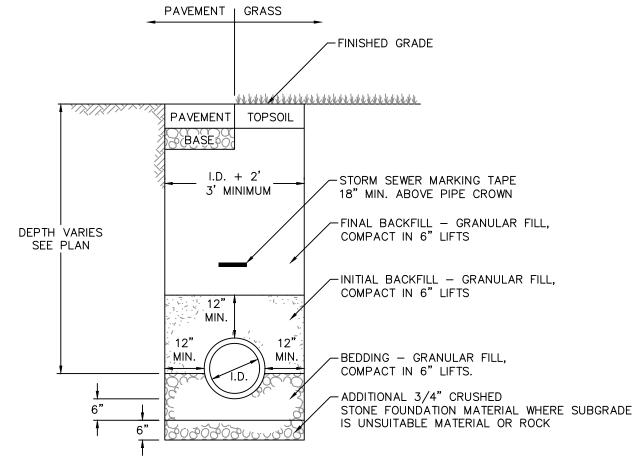
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1. CURB REVEAL SHALL BE APPROXIMATELY 6" UNLESS OTHERWISE NOTED.

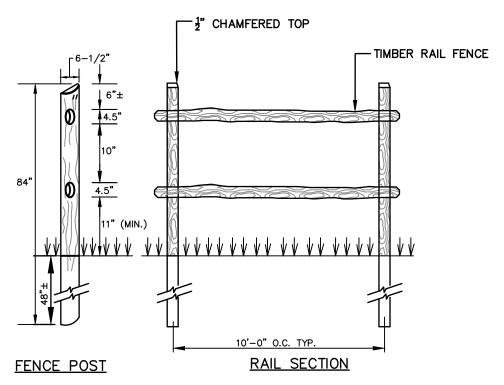
PRECAST CONCRETE LOT CURB (INSTALLATION DETAIL)

SCALE: NOT TO SCALE



- 1. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH CRUSHED STONE PER SECTION M2.01.4 OF THE MASSDOT SPECIFICATIONS.
- 2. THE MINIMUM TRENCH WIDTH FOR 12" HDPE PIPING SHALL BE 36".
- 3. <u>BEDDING MATERIAL AND INITIAL BACKFILL:</u> ALL BEDDING AND INITIAL BACKFILL MATERIAL SHALL BE CLEAN, FREE OF DEBRIS AND RUBBLE, AND FREE OF MATERIALS WHICH MAY CAUSE POLLUTION OF SURFACE WATERS AND GROUNDWATER AND SHALL CONSIST OF GRAVEL BORROW IN ACCORDANCE WITH M.1.03.0 (TYPE D) OF THE MASSDOT STANDARD SPECIFICATIONS.
- 4. <u>FINAL BACKFILL:</u> ALL FINAL BACKFILL MATERIAL SHALL BE CLEAN, FREE OF DEBRIS AND RUBBLE, AND FREE OF MATERIALS WHICH MAY CAUSE POLLUTION OF SURFACE WATERS AND GROUNDWATER AND SHALL CONSIST OF GRAVEL BORROW IN ACCORDANCE WITH M.1.03.0 (TYPE D) OF THE MASSDOT STANDARD

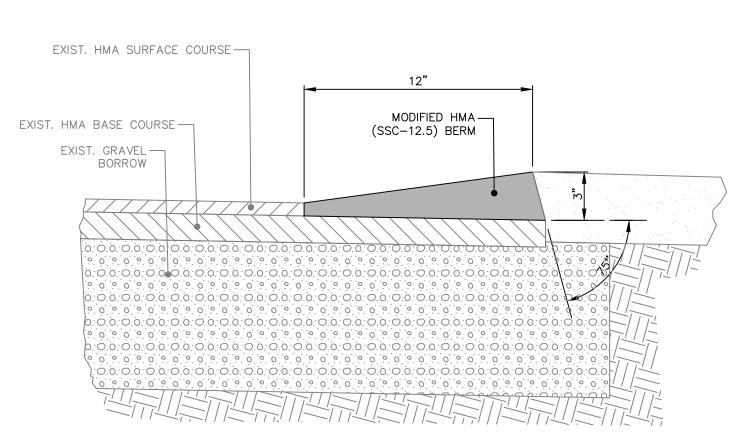
STORMWATER DRAINAGE TRENCH SCALE: NOT TO SCALE



NOTES:

- 1. UTILIZE EXISTING POSTS AND RAILS THAT ARE DETERMINED TO BE IN GOOD CONDITION
- 2. FOR BIDDING PURPOSES, ASSUME THAT 50% OF EXISTING POST AND RAILS CAN BE
- RF-USFD. 3. THE INTENT IS TO REMOVE AND RELOCATE EXISTING POSTS AND RAILS. THE
- DIMENSIONS SHOWN ABOVE APPLY TO NEW FENCE POSTS AND RAILS WHEN REQUIRED. TIMBER POST AND RAIL FENCE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 955 OF THE STANDARD SPECIFICATIONS. FASTENERS SHALL BE IN ACCORDANCE WITH M8.01.5. ALL RAILING COMPONENTS SHALL CONFORM TO M9.05.5.

TIMBER POST AND RAIL FENCE SCALE: NOT TO SCALE



MODIFIED ASPHALT BERM

SCALE: NOT TO SCALE

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TOWN OF TRURO

CONSTRUCTION DETAILS GREAT HOLLOW BEACH ACCESS IMPROVEMENTS

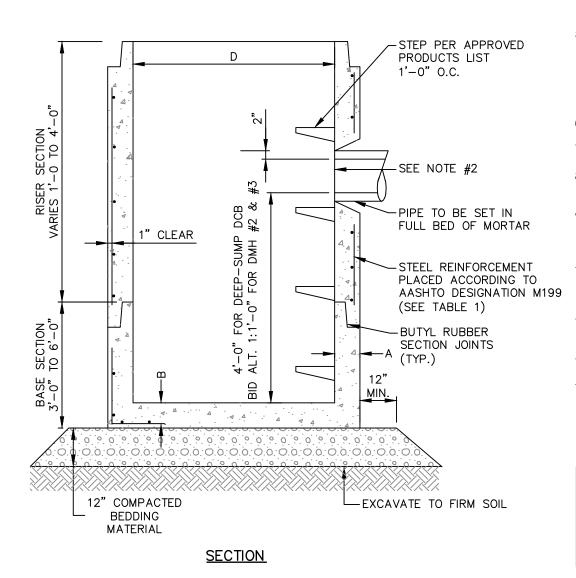
CD-501

DATE: 02/21/2025

PROJ. No.: 20210668.A10

TRURO

-8" FRAME AND GRATE/COVER (CATCH



- 1. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
- 2. FACE OF PIPE FLUSH OR NOT TO PROJECT MORE THAN 4" FROM FACE OF WALL ALONG CENTER LINE OF PIPE.
- 3. PRECAST DRAINAGE STRUCTURE SHALL BE IN ACCORDANCE WITH SUBSECTIONS 201 & M04.02.16 OF THE MASSDOT STANDARD SPECIFICATIONS. ALL CONCRETE TO BE AIR ENTRAINED WITH 4,000 PSI MINIMUM 28-DAY COMPRESSIVE STRENGTH.
- 4. FOR DOUBLE CATCH BASINS, FRAMES TO BE EAST JORDAN IRON WORKS MODEL OMA544000002 FOUR FLANGE OR APPROVED EQUAL AND GRATES SHALL BE OMA55200075 OR APPROVED EQUAL; AND SHALL CONFORM TO SECTION M8.03.0 OF THE MASSDOT STANDARD SPECIFICATIONS. FRAMES SHALL HAVE A HEIGHT OF 8 INCHES.
- FOR DRAIN MANHOLES, FRAMES SHALL BE (TYPE B) 0MA211000002 AS MANUFACTURED BY EAST JORDAN IRON WORKS OR APPROVED EQUAL; COVERS SHALL HAVE A 26-INCH DIAMETER AND SHALL BE 0MA211000005 AS MANUFACTURED BY EAST JORDAN IRON WORKS OR APPROVED EQUAL; AND SHALL CONFORM TO SECTION M8.03.0 OF THE MASSDOT STANDARD SPECIFICATIONS. FRAMES SHALL HAVE A HEIGHT OF 8 INCHES.
- 6. BUTYL RUBBER JOINT SEALANT PER ASTM C-990 & AASHTO M-198.
- 7. ONE POUR MONOLITHIC BASE SECTION.
- 8. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI CEMENT (SEE MASSDOT SPECIFICATIONS FOR DESIGN REQUIREMENTS).
- ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS
- OR PNEUMATIC TOOLS WILL BE ALLOWED. 10. THE CENTERLINE OF OPENING MUST BE WITHIN 2'-0" FROM STEPS. STEPS SHALL
- BE POLYPROYLENE, MEETING OSHA REGULATION 29 CFR1910.27 SECTION 16 OF ASTM SPECIFICATIONS C478 AND SECTION 10 OF ASTM C-990 & ASHTO M-198. 11. CATCH BASIN DESIGN AND DRAIN MANHOLE SHALL CONFORM TO ASTM C-478 FOR
- 12. MORTAR ALL PIPE CONNECTIONS.
- 13. FOR DESCRIPTION, MATERIALS AND CONSTRUCTION METHODS, SEE MASSDOT STANDARD SPECIFICATIONS.

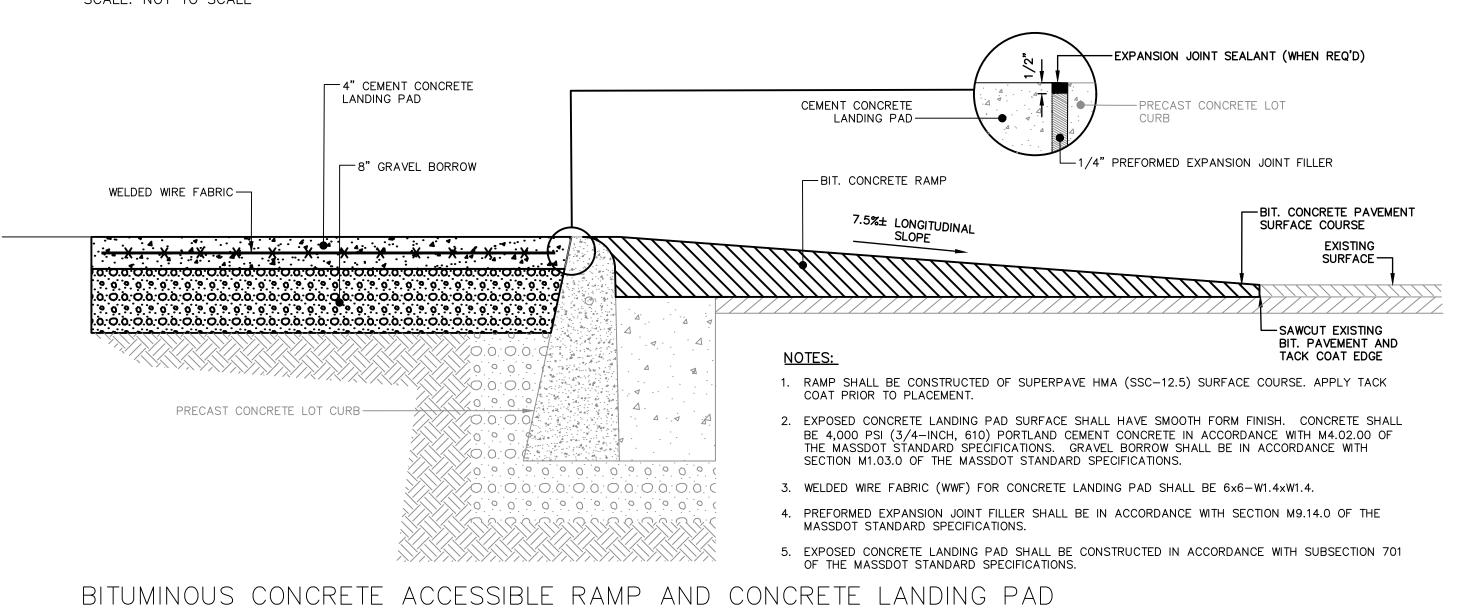
		•	TABLE	: 1	
STRUCTURE DIAMETER (D)	Α	В	С	E	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED *
4'-0"	3	6"	8"	12"	0.12 SQ. IN./LIN. FT.
5'-0"	6"	8"	8"	14"	0.15 SQ. IN./LIN. FT.

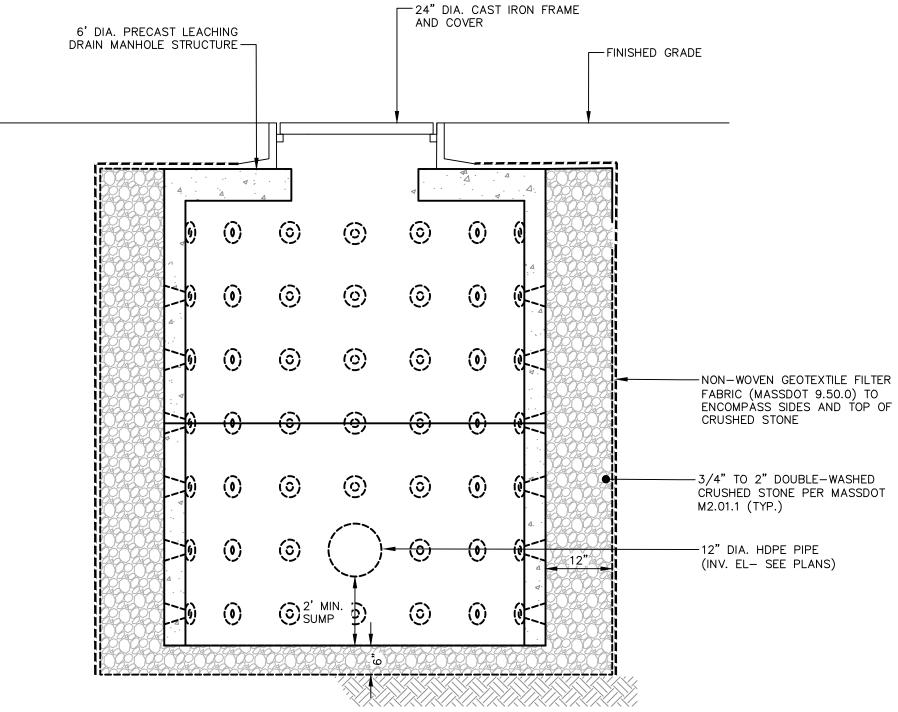
"PRECAST REINFORCED CONCRETE MANHOLE" SECTION.

CONTRACTOR SHALL CONFIRM RIM, PIPE INVERTS, PIPE DIAMETER, AND PIPE ORIENTATION (WITH MANUFACTURER AND TOWN) VIA SUBMITTAL PRIOR TO RELEASE OF UNITS TO FABRICATION.

PRECAST CONCRETE DEEP-SUMP, DOUBLE CATCH BASIN AND/OR DRAIN MANHOLE SCALE: NOT TO SCALE

DESIGNER REVIEWER





PRECAST CONCRETE LEACHING DRAIN MANHOLE

SCALE: NOT TO SCALE

NOTES:

- 1. STEEL REINFORCEMENT SHALL BE PLACED PER ASTM A615 GRADE-60.
- 2. FACE OF PIPE FLUSH OR NOT TO PROJECT MORE THAN 4" FROM FACE OF WALL ALONG CENTER LINE OF PIPE.
- 3. PRECAST DRAINAGE STRUCTURE SHALL BE IN ACCORDANCE WITH SUBSECTIONS 201 & M04.02.16 OF THE MASSDOT STANDARD SPECIFICATIONS. ALL CONCRETE TO BE AIR ENTRAINED WITH 5,000 PSI MINIMUM 28-DAY COMPRESSIVE STRENGTH.
- 4. FRAMES SHALL BE (TYPE B) 0MA211000002 AS MANUFACTURED BY EAST JORDAN IRON WORKS OR APPROVED EQUAL; COVERS SHALL HAVE A 26-INCH DIAMETER AND SHALL BE 0MA211000005 AS MANUFACTURED BY EAST JORDAN IRON WORKS OR APPROVED EQUAL; AND SHALL CONFORM TO SECTION M8.03.0 OF THE MASSDOT STANDARD SPECIFICATIONS. FRAMES SHALL HAVE A HEIGHT OF 8
- BUTYL RUBBER JOINT SEALANT PER ASTM C-990 & AASHTO M-198.
- 6. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOÓLS WILL BE ALLOWED.
- 7. THE CENTERLINE OF OPENING MUST BE WITHIN 2'-0" FROM STEPS. STEPS SHALL CONFORM TO R.I. STD. 5.3.0 AND SHALL BE INSTALLED AT CASTING PLANT.
- 8. LEACHING DRAIN MANHOLE SHALL CONFORM TO ASTM C-478 FOR "PRECAST REINFORCED CONCRETE MANHOLE" SECTION.
- MORTAR ALL PIPE CONNECTIONS.
- 10. FOR DESCRIPTION, MATERIALS AND CONSTRUCTION METHODS, SEE MASSDOT STANDARD SPECIFICATIONS.

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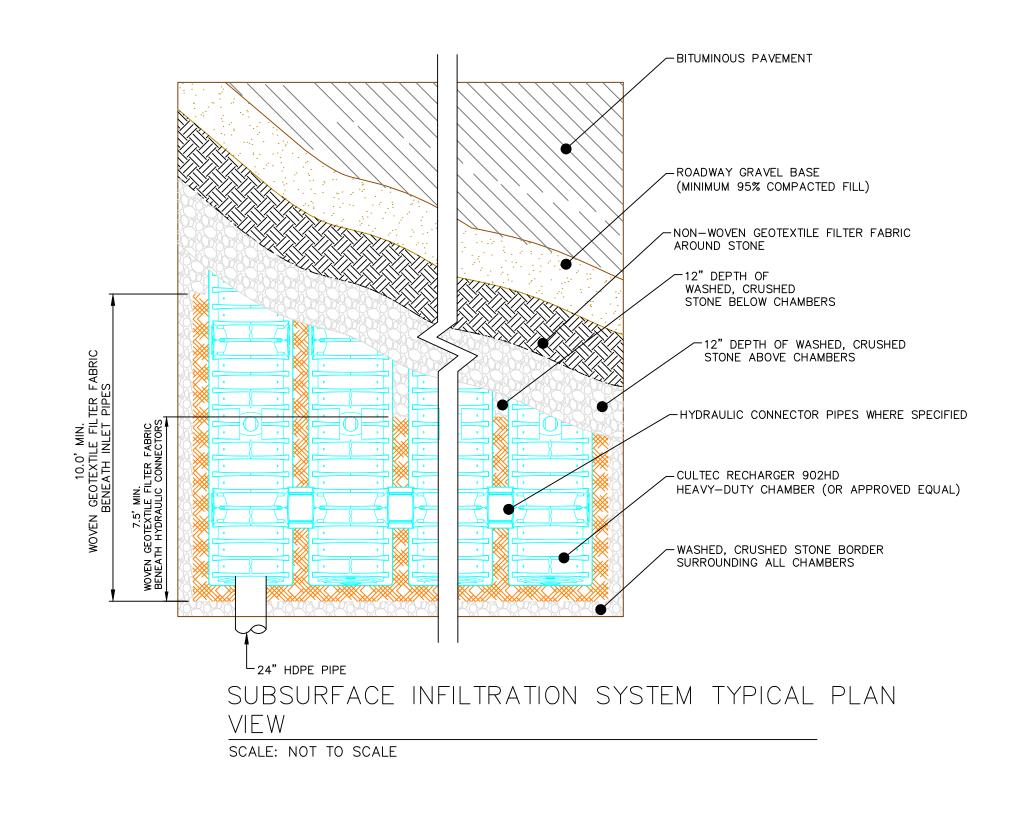
CONSTRUCTION DETAILS GREAT HOLLOW BEACH ACCESS IMPROVEMENTS

TOWN OF TRURO

CD-502

DATE: 02/21/2025

PROJ. No.: 20210688.A10

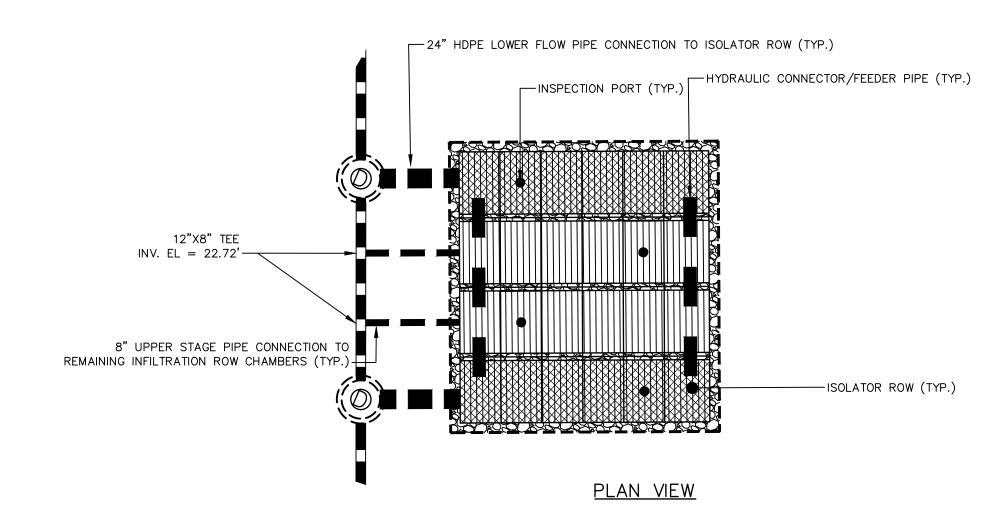


RECHARGER 902HD HEAVY-DUTY INFILTRATION __ _ ROADWAY GRAVEL BASE (<35% FINES); COMPACT CHAMBERS OR APPROVED EQUAL IN 6" LIFTS TO 95% PROCTOR DENSITY 3/4" - 2" WASHED, -CRUSHED, ANGULAR STONE HYDRAULIC CONNECTOR — NON-WOVEN GEOTEXTILE FILTER FABRIC ALL PIPES WHERE SPECIFIED AROUND CLEAN CRUSHED, ANGULAR STONE PAVEMENT — $E_{L.=28.13-29.15\pm \text{ (VARIES)}}$ TOP OF STONE EL.=26.52 TOP OF CHAMBER EL.=25.52 8" HDPE EL.=24.52 (FOR INTERIOR ROWS) 24" HDPE EL.=21.72 FOR ISOLATOR ROWS) BOTTOM OF CHAMBER EL.=21.52 BOTTOM OF STONE EL.=20.52 12" MIN. ON SIDES AND 12" MIN. AT ENDS (TYP.) 87" O.C. SPACING

CROSS SECTION VIEW

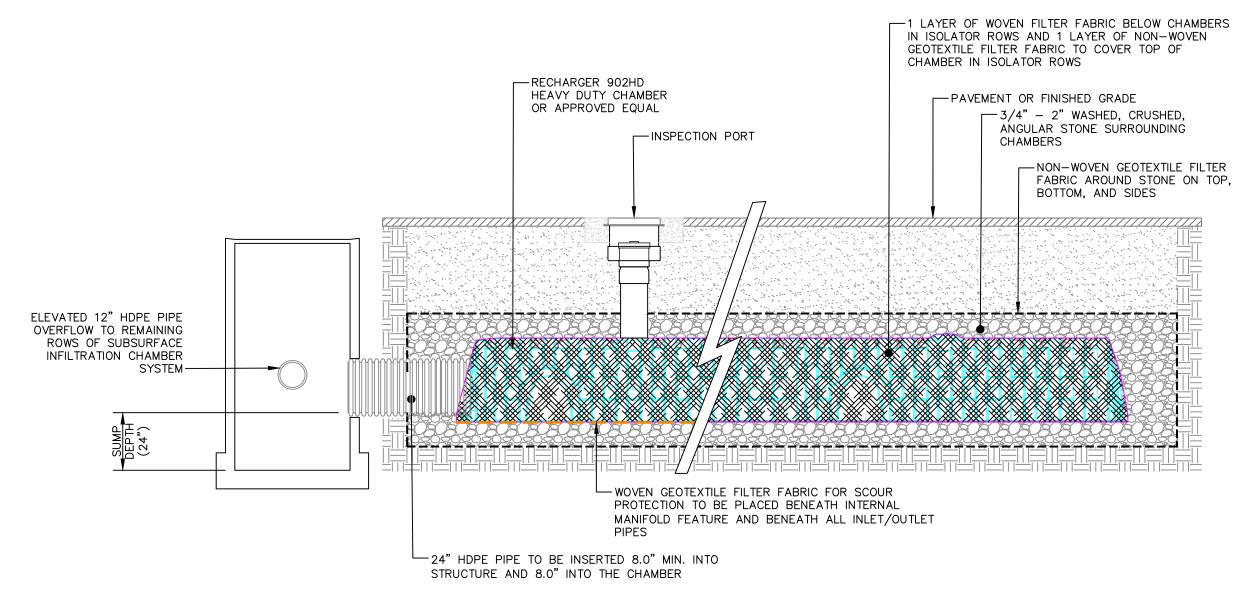
WOVEN GEOTEXTILE FILTER FABRIC (FOR SCOUR PROTECTION) TO BE PLACED BENEATH HYDRAULIC CONNECTOR PIPES AND BENEATH ALL INLET/OUTLET PIPES TO APPROXIMATELY 3.75' ON EACH SIDE OF HYDRAULIC CONNECTOR PIPE CENTER AS SHOWN IN SUBSURFACE INFILTRATION SYSTEM TYPICAL PLAN VIEW DETAIL

1. WASHED, CRUSHED ANGULAR STONE SHALL CONFORM TO GRADATION REQUIREMENTS LISTED IN TABLE M2.01.0—1 OF THE MASSDOT STANDARD SPECIFICATIONS.
2. MEDIUM SAND SHALL BE A CLEAN, WASHED SAND CONFORMING TO GRADATION REQUIREMENTS LISTED IN TABLE M1.04.1—1 OF THE MASSDOT STANDARD SPECIFICATIONS.



SUBSURFACE INFILTRATION SYSTEM CROSS SECTION AND PLAN VIEW

SCALE: NOT TO SCALE



SUBSURFACE INFILTRATION SYSTEM ISOLATOR ROW

TRURO

SCALE: NOT TO SCALE

FIELD PLACED 4,000 PSI $(\frac{3}{4}")$ CONCRETE (TYPE II)	24"
PER MASSDOT STD. M.4.02.00 FLUSH WITH PAVEMENT	15"
PAVEMENT—OR FINISHED GRADE	
80.0%	
	AASHTO HS-25 RATED CAST IRON FRAME AND
-	SOLID COVER 6" PVC SCREW IN CAP
	12" X 6" CULTEC INLINE DRAIN / CLEAN-OUT BASIN w/ GASKETED SDR-35 CONNECTION 6.25" HOLE TO BE CUT w/ HOLE SAW CENTERED ON
	CORRUGATION CREST 6" SDR-35 RISER CUT FOR 6" OF INSERTED PIPE
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CONSTRUCTION DETAILS GREAT HOLLOW BEACH ACCESS IMPROVEMENTS

TOWN OF TRURO

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DATE: 02/21/2025

PROJ. No.: 20210688.A10

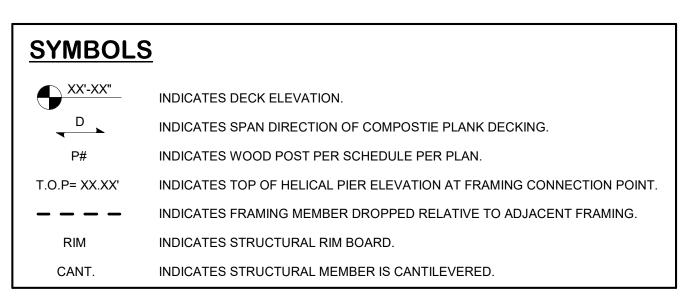
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 10TH EDITION OF THE MASSACHUSETTS STATE
- BUILDING CODE AND ITS APPLICABLE REFERENCED STANDARDS. THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE CIVIL DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE
- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE FOR A SAFE AND EFFICIENT METHOD
- OF SHORING AND/OR BRACING THE STRUCTURE DURING CONSTRUCTION. STRUCTURAL MEMBERS SHALL NOT BE MODIFIED IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. IN THE EVENT OF A CONSTRUCTION OR FABRICATION ERROR, THE CONTRACTOR SHALL PREPARE A SKETCH WITH A PROPOSED REPAIR, AND SUBMIT IT TO THE ARCHITECT AND ENGINEER OF RECORD. FOR APPROVAL PRIOR TO PERFORMING ANY CORRECTIVE WORK.
- SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL TRADES INDICATED HEREIN PRIOR TO PROCEEDING WITH FABRICATION AND/OR CONSTRUCTION. CONTRACTOR SHALL ALLOW FOR A 2 WEEK REVIEW PERIOD BY THE
- IN ANY CASE OF CONFLICT BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL MAKE NO DEVIATION FROM CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL COSTS OF INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OF STRUCTURAL
- ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE PROJECT DOCUMENTS, SHALL BE AT THE THESE DRAWINGS REPRESENT THE CONSTRUCTION DRAWINGS WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS INDICATED
- IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGINGS, BRACING, SHEETING AND SHORING, ETC.
- TYPICAL DETAILS APPLY REPETITIVELY ON THE PROJECT. CONTRACTOR SHALL COORDINATE THE GENERAL REQUIREMENTS OF TYPICAL DETAILS WITH PROJECT CONDITIONS, PLANS, SPECIFICATIONS, AND SECTIONS.

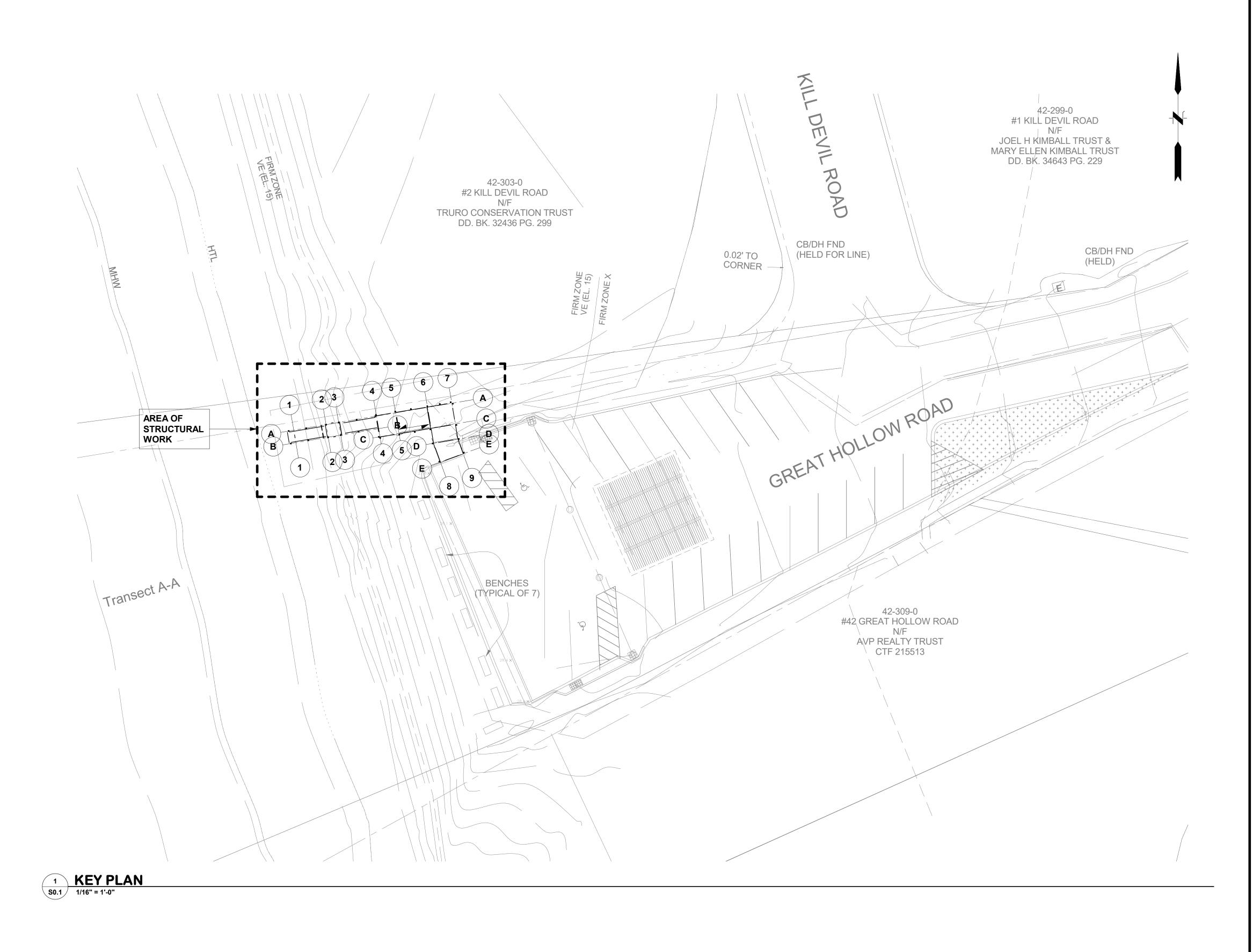
HELICAL PILES

- ALL HELICAL PILE (PIER) ASSEMBLIES AND ALL ASSOCIATED ACCESSORIES SHALL BE HOT DIPPED GALVANIZED
- REQUIRED PIER CAPACITY IS 2 TONS (4 KIPS). CONTRACTOR SHALL SUBMIT CALCULATIONS PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER IN GOOD STANDING WITH THE STATE OF MASSACHUSETTS, WITH REQUIRED HELICAL PIER DESIGN BASED UPON THE REQUIRED LOADS. DESIGN OF HELICAL PILE BRACKETS TO WOOD FRAMING ELEMENTS SHALL BE BY THE HELICAL PIER DESIGN ENGINEER.
- INSTALLATION TOLERANCES SHALL BE PER THE PIER MANUFACTURER'S CONSTRUCTION REQUIREMENTS. INSTALLATION RECORDS SHALL BE KEEP BY THE CONTRACTOR FOR EACH HELICAL PILE INSTALLED. THE RECORD SHALL INDICATE NAME OF THE CONTRACTOR AND PROJECT, NAME OF FIELD SUPERVISOR, DATE AND TIME OF INSTALLATION, TYPE OF TORQUE INDICATOR, NAME AND MODEL OF INSTALLATION EQUIPMENT, LOCATION OF HELICAL PIER BY UNIQUE IDENTIFICATION NUMBER, HELICAL PIER TYPE AND CONFIGURATION, TOTAL HELICAL PIER LENGTH, CUT OFF ELEVATION, FINAL INCLINE OF HELICAL PIER SHAFT INSTALLATION TORQUE AT 1FT INTERVALS FOR THE FINAL 10 FEET, AND RATED LOAD CAPACITY OF HELICAL PIER. INSTALLATION LOGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW. CONTRACTOR SHALL NOT DEMOBILIZE FROM THE SITE UNTIL AND ENGINEER HAS REVIEWED THE INSTALLATION LOGS.

STRUCTURAL LUMBER / ROUGH CARPENTRY

- ALL WORK SHALL BE IN CONFORMANCE WITH THE AMERICAN FOREST AND PAPER ASSOCIATION STANDARDS
- ALL DIMENSIONAL LUMBER SHALL BE SOUTHERN YELLOW PINE NO. 2 OR BETTER 19% MOISTURE CONTENT OR
- PROVIDE METAL HANGERS AT ALL FLUSH FRAMED CONNECTIONS. ALL HANGERS SHALL BE AS MANUFACTURED BY SIMPSON-STRONG TIE, OR APPROVED EQUAL.
- ALL FASTENERS SHALL BE IN CONFORMANCE WITH THE FASTENING SCHEDULE IN THE 2021 INTERNATIONAL BUILDING CODE (TABLE 2304.10.2), UNLESS NOTED OTHERWISE. FASTENERS EXPOSED TO THE WEATHER SHALL
- BE HOT-DIP GALVANIZED OR STAINLESS STEEL. ALL FLOOR DECK SHALL BE 1"D x 5 1/2"W TREX COMPOSITE DECKING, OR APPROVED EQUIVALENT.
- ALL DECKING SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS SHOP DRAWINGS/SUBMITTALS ARE REQUIRED FOR THE FOLLOWING: WOOD FRAMING PLAN, WOOD PRODUCT SUBMITTAL AND CONNCETION HARDWARE PRODUCT SUBMITTALS. PHOTOCOPYING OF CONTRACT DOCUMENTATION FOR SUBMITTAL PURPOSES SHALL NOT BE PERMITTED AND WILL BE REJECTED WITHOUT
- PROVIDE 2x SOLID BLOCKING FOR ALL SOLID SAWN WOOD JOISTS AT 8'-0" ON-CENTER MAXIMUM SPACING AND 2x SOLID BLOCKING BETWEEN JOISTS AT ALL SUPPORTS AND RAILINGS.

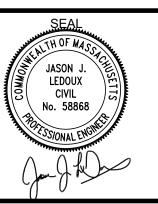


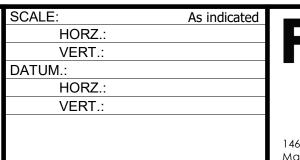


CONSTRUCTION DOCUMENTS

MASSACHUSETTS

DESCRIPTION DESIGNER REVIEWER





GRAPHIC SCALE

FUSS& **O'NEILL**

TRURO

146 Hartford Road Manchester, Connecticut 06040 860.646.2469 www.fando.com

TOWN OF TRURO

STRUCTURAL NOTES AND KEY PLAN

GREAT HOLLOW BEACH PUBLIC ACCESS IMPROVEMENTS

S_{0.1}

02/14/2025

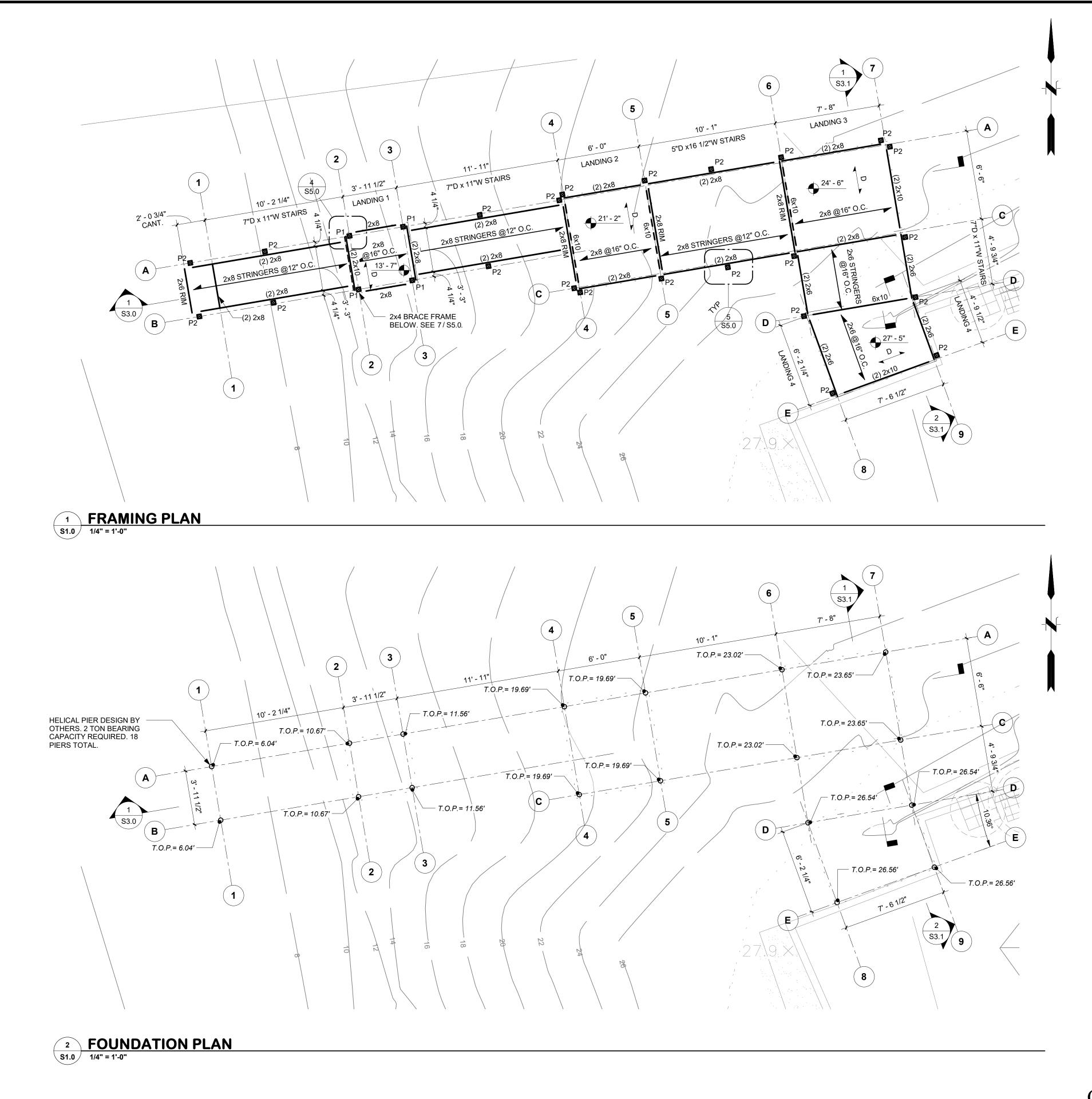
FOUNDATION PLAN NOTES

- 1. FOUNDATIONS SHALL BE HOT DIPPED GALVANIZED HELICAL PIERS DESIGNED BY A PROFESSIONAL ENGINEER IN GOOD STANDING WITH THE STATE OF MASSACHUSETTS.
- TOP OF PIER ELEVATIONS SHALL BE AS SPECIFIED ON THE
- INSTALLATION OF PIERS SHALL BE PER THE PIER MANUFACTURER'S CONSTRUCTION REQUIREMENTS. 4. SEE GENERAL NOTES ON S0.1 SHEETS FOR ADDITIONAL

WOOD FRAMING PLAN NOTES

- DECKING SHALL BE 1"D x 5 1/2"W PLANK TREX DECKING W/ELEVATIONS AS NOTED.
- BLOCK BETWEEN JOISTS AND STRINGERS AT SPACING NO GREATER
- COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH CIVIL
- DRAWINGS AND/OR EXISTING CONDITIONS.
 ALL NAILING SHALL BE FASTENED IN ACCORDANCE WITH TABLE 2304.10.1 OF THE 2015 INTERNATIONAL BUILDING CODE, OR TABLE R602.3(1) OF THE 2015 INTERNATIONAL RESIDENTIAL CODE AS
- WOOD POSTS SHALL BE CONTINUOUS TO FOUNDATION UNLESS NOTED OTHERWISE ON PLANS.
- SEE STRUCTURAL NOTES SHEET (S0.1) FOR ADDITIONAL INFORMATION.

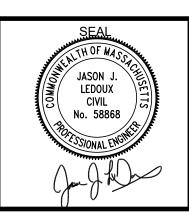
wo	OD POS	T SCHEDULE
P#	SIZE	DESCRIPTION
P1	4x4	STRUCTURAL BEARING POST
D2	1 1 1	DAILING DOST



CONSTRUCTION DOCUMENTS

MASSACHUSETTS

DATE DESCRIPTION DESIGNER REVIEWER



HORZ. VERT. HORZ. VERT.

GRAPHIC SCALE

FUSS& 146 Hartford Road Manchester, Connecticut 06040

TRURO

860.646.2469

www.fando.com

TOWN OF TRURO

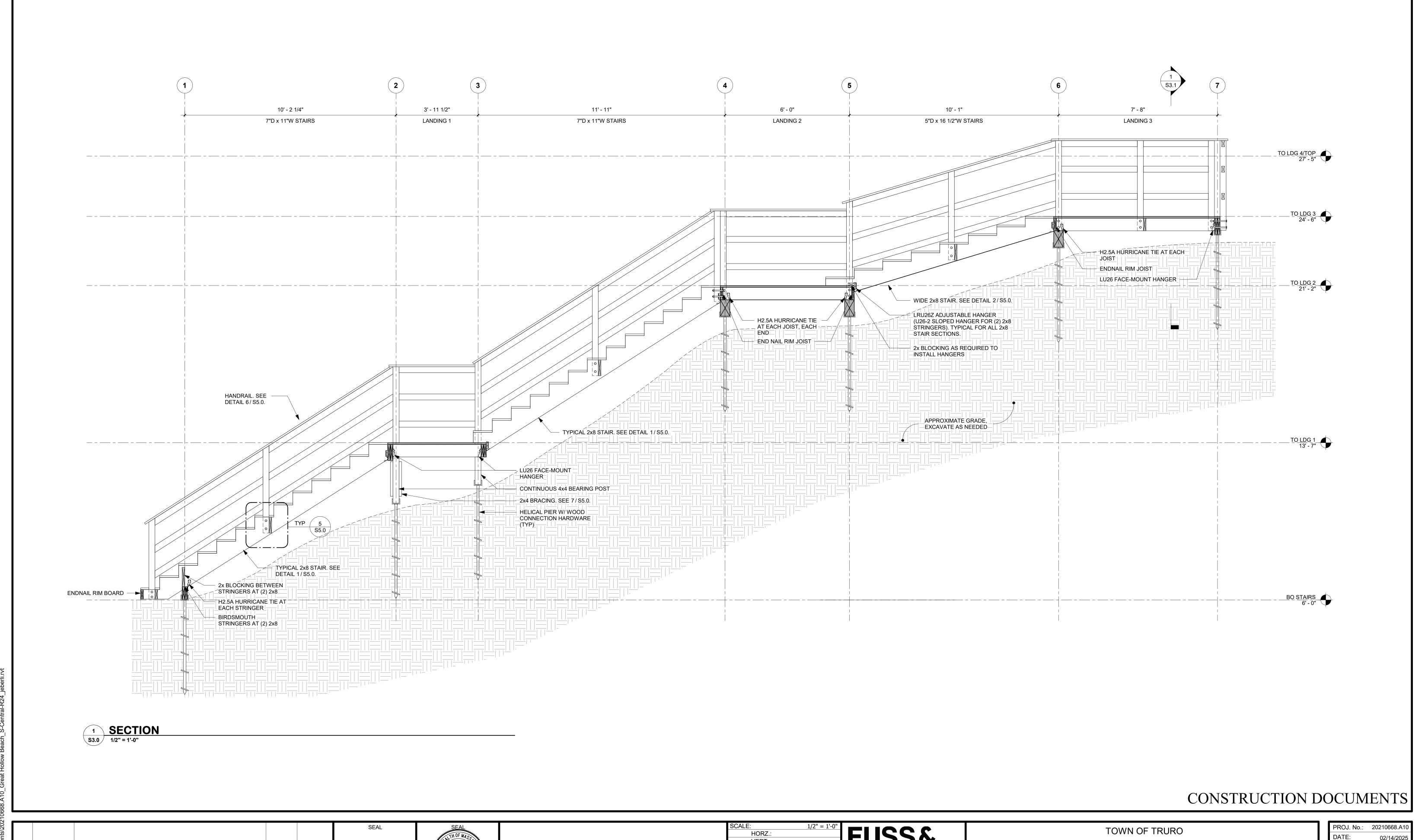
FOUNDATION AND FRAMING PLANS

GREAT HOLLOW BEACH PUBLIC ACCESS IMPROVEMENTS

S1.0

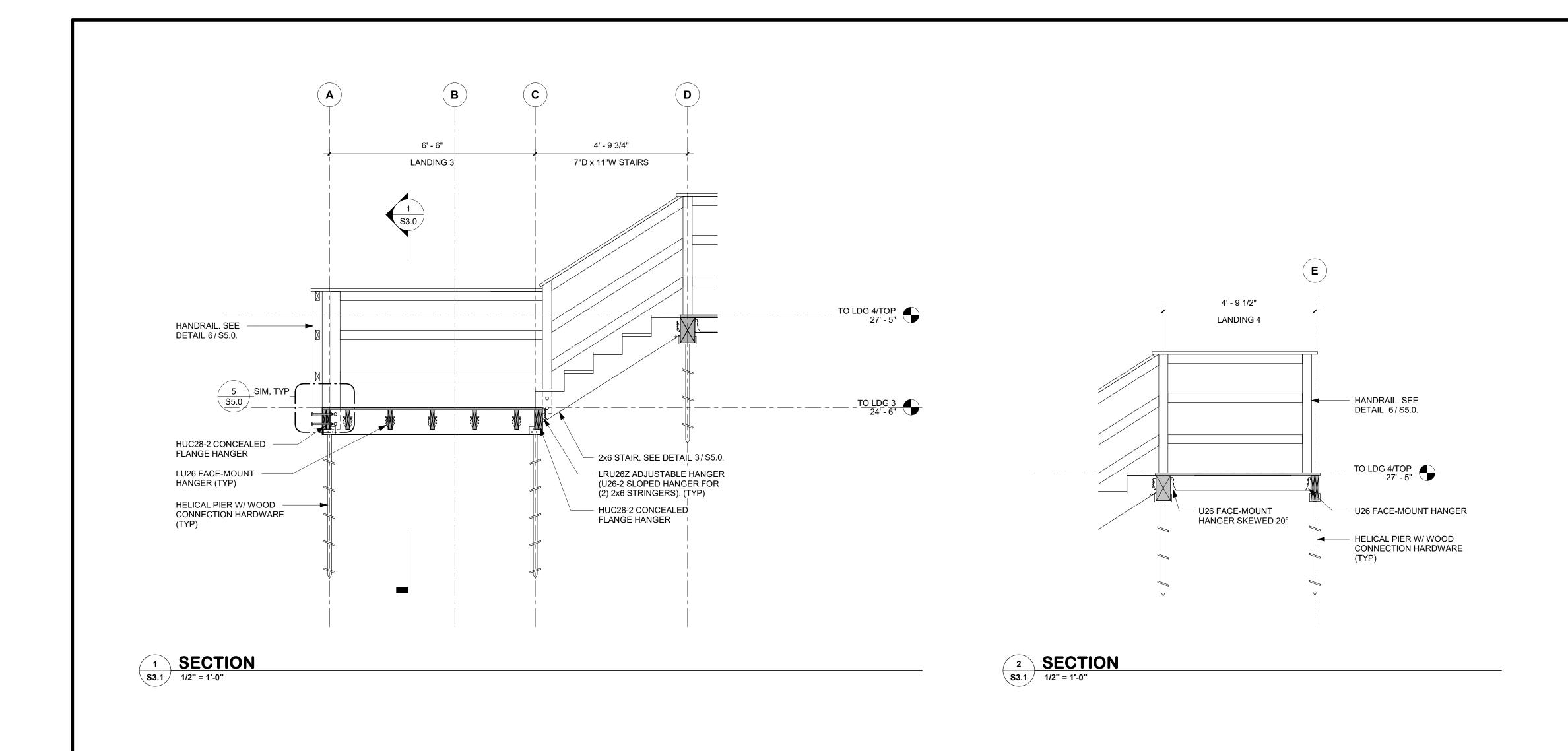
PROJ. No.: 20210668.A10

02/14/2025



FUSS& O'NEILL VERT. SECTIONS HORZ. GREAT HOLLOW BEACH PUBLIC ACCESS IMPROVEMENTS 146 Hartford Road Manchester, Connecticut 06040 860.646.2469 TRURO **GRAPHIC SCALE** www.fando.com DESCRIPTION DESIGNER REVIEWER

02/14/2025



CONSTRUCTION DOCUMENTS

SCALE: 1/2" = 1-0" HORZ: VERT: DATUM: HORZ:: VERT: DATUM: HORZ:: VERT: O'NEILL SECTIONS

SECTIONS

GRAPHIC SCALE

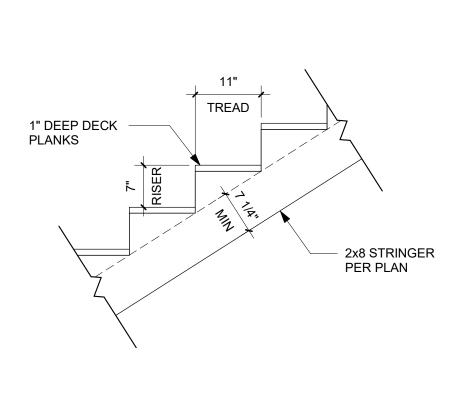
GRAPHIC SCALE

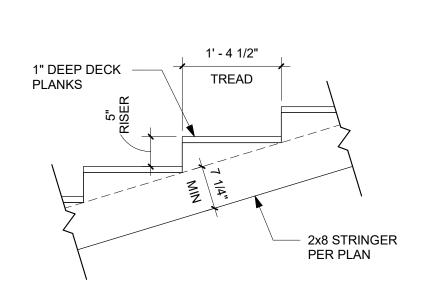
SCALE: 1/2" = 1-0" HORZ: VERT: GRAPHIC SCALE

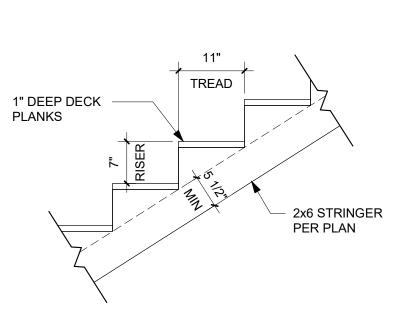
FUSS & O'NEILL SECTIONS

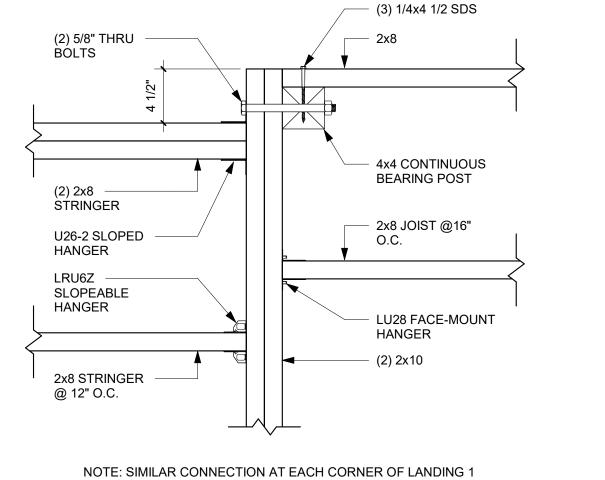
GREAT HOLLOW BEACH PUBLIC ACCESS IMPROVEMENTS

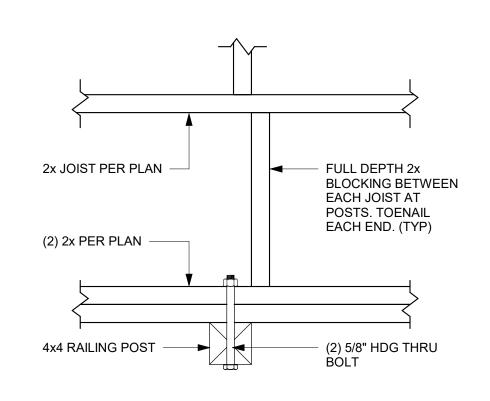
TRURO MASSACHUSETTS





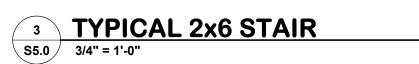






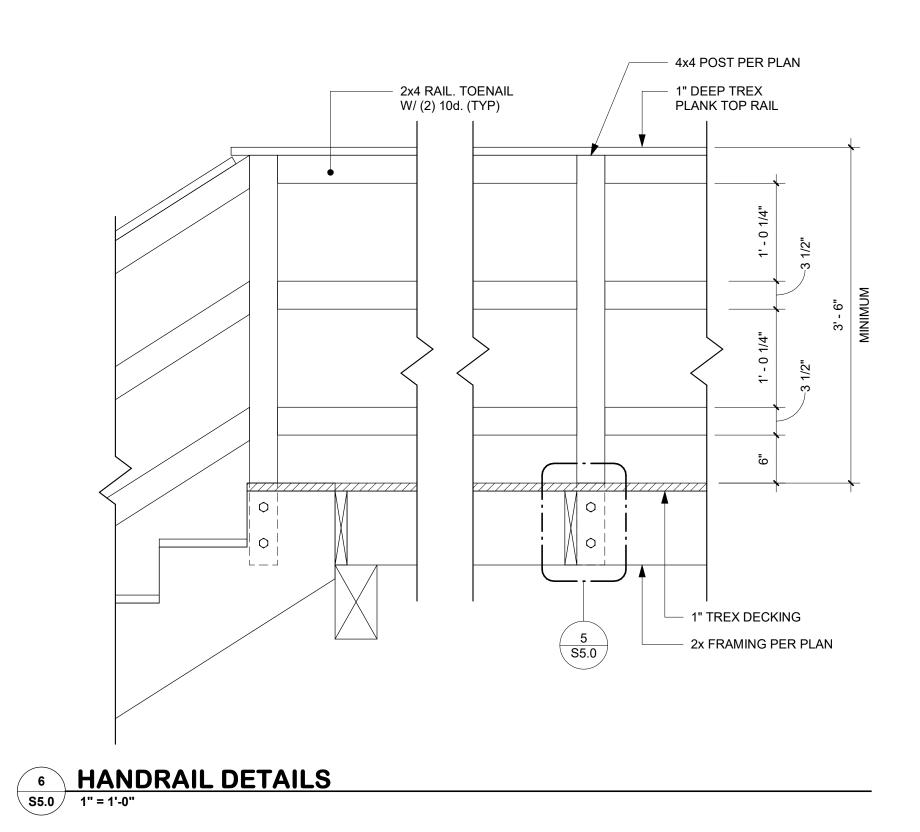


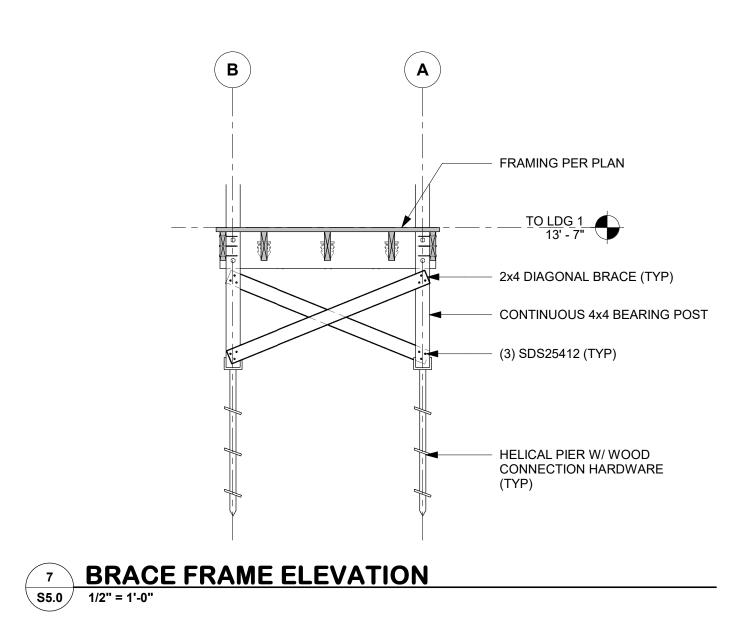




4 **DETAIL - LANDING 1** S5.0 1 1/2" = 1'-0"

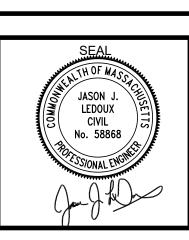
5 RAILING POST CONNECTION
1 1/2" = 1'-0"

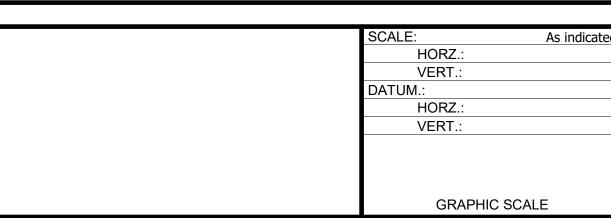


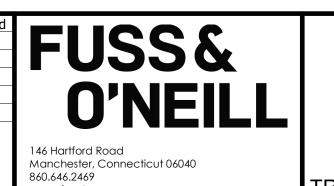


CONSTRUCTION DOCUMENTS

No. DATE DESCRIPTION DESIGNER REVIEWER







www.fando.com

TRURO

TOWN OF TRURO

STRUCTURAL DETAILS

GREAT HOLLOW BEACH PUBLIC ACCESS IMPROVEMENTS

MASSACHUSETTS

DATE: 02/14/2025
S5.0



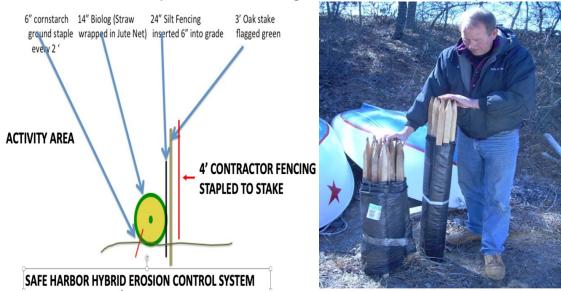
LOW IMPACT COASTAL PROTOCOLS

REVISED EDITION, GORDON PEABODY, JANUARY 2025

https://www.safeharborenv.com/ gordonpeabody@gmail.com 95 Commercial Street, Room 211, Wellfleet, MA, PO Box 880, 02667

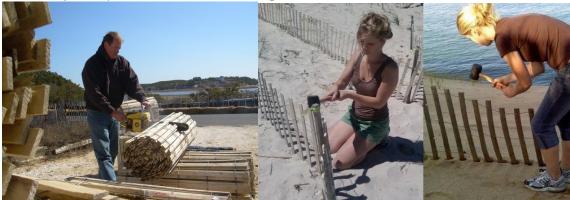
These Safe Harbor developed systems, for use in Dunes, Coastal Banks, Beaches and LSCSF, comply with performance standards and are offered as Public Domain material.

1. <u>Terrestrial Erosion Control-</u> Necessary when stabilizing vegetation is removed. **Recommendation:** Only use 24" silt fencing, with extra stakes in windy areas.



2. Coastal Erosion Control-Sand (snow) Fence is a wood slat system, wired together, only available in four-foot heights. While it cannot be disputed that the system functions by reducing erosion and collecting sand, two jurisdictional issues emerge and should be considered: first, the installation creates impacts because the height requires posts of wood or metal, making it semi structural; secondly, the fences are often utilized with plantings of American Beach Grass. Eastern Cottontail Rabbits are known to feed on the grass and the tall fencing impacts predator prey relationships in the habitat by creating unintentional "Kill Zones", where Foxes, Coyotes and Hawks can trap escaping Rabbits against the tall fencing.

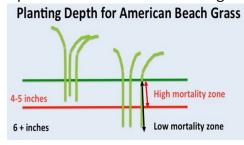
Recommendation: We use a chain saw to cut the four-foot-long rolls of sand fencing into two - two foot rolls. Instead of digging or driving in wooden posts or metal stakes, the fencing slats are easily installed using a rubber mallet and Eastern Cottontails can easily escape over the short fencing.



We recommend lines facing the wind, with 3 ft spacing and if they get covered, can be pulled higher. In multidirectional wind field, we use a curved configuration.



3. <u>Planting Beach Grass-</u> Native Beach Grass is more sustainable erosion control. <u>Recommendation:</u> plant bare roots December to March, 1 ft apart, 3 culms each. Can be planted between sand fencing. Wind-blown sand will collect around grass.







4. Ramps and Stairways – Vertical transit on a slope can transfer a bodyweight of sand for every ten feet traversed. While stairs themselves may reduce impacts associated with slope transit, the Limit of Work necessary for building or replacing stairs has the potential to generate significant impacts. Shading from the finished structure reduces stabilizing habitat growth, which may contribute to more erosion.

Recommendation: We reduce site impacts with a Zero L.O.W. using our Caterpillar System, constructing or deconstructing structures from within their own footprint.



<u>Recommendation</u>: We may use reduced impact treads (flow thru open treads), which provide safe transit, while providing vertical passage of wind, rain and sunlight, allowing native vegetation to create stabilizing habitat under the structure.







5. Access on Steep Banks- Vertical transit erodes a bodyweight of sand every 10 ft. Recommendation: On any unprotected sloped surface, minimal mitigations require use of a ladder to defer foot traffic on. The ladders should be secured using wooden stakes driven in vertically, not perpendicular to the slope.



6. Nourishment- Bayside storm events can remove 1/3 cubic yard of sand per event. For any erosion control system applied to the coast, sand nourishment is required.



Recommendation: 1 cubic yd of sand per foot of shoreline, against the toe of bank This should be spread up the bank, planted with Beach grass and using biomimicry.



Image G. Peabody. Biomimicry at base of newly nouris/Image by G. Peabody. A few weeks later, ready for adjustment.

7. **Invasive Marsh Crabs**-square back crabs can be a problem where public access discourages predators. Especially in marshes that do not have seaweed populations.



Recommendation: Use ecologically adapted seaweed to displace invasive crabs. These seaweeds can grow in some marshes but due to reduced salinity, reproduce by division



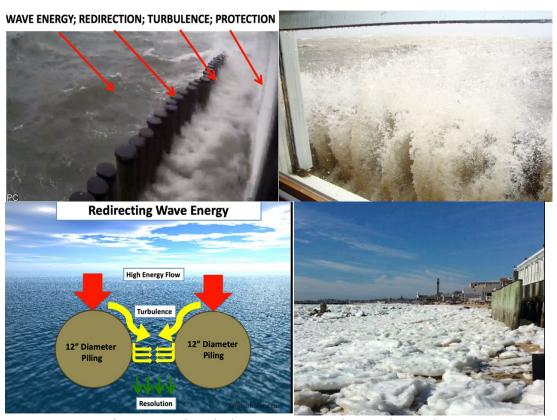


8. Managing Wave Energy-Wind energized water mass becomes destructive waves.



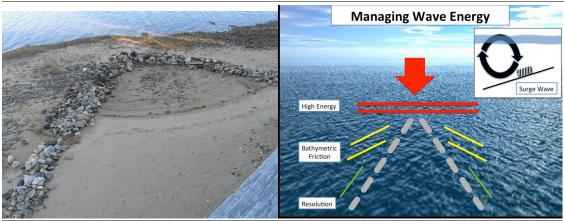
Recommendation: use a Spoiler system that manages wave energy, not wave mass. The spoiler piles divide the energized water mass and redirect it into itself.





Recommendation: Benthic Friction, waves are circular in motion and the surface is only 1 point in the circle to reduce energy. This reduces energy in the lower circle.





9. Sand Pathways -Pedestrian intuition creates straight line paths where foot traffic removes Beach Grass and storm wind blowouts invite destructive over wash events.



Recommendation: using winter storm winds for sand collection with Biomimicry.



10. <u>Raised Walkways</u>- Access walkways in sand may require vertical clearance, for repositioning of sand elevations by wind. Excavation activity can generate impacts with spoil resettlement changing grade elevations and smothering native vegetation. <u>Recommendation</u>: we prefer using easy to install pin piles instead of excavation.



11. <u>Sand Surface Walkways-</u> It is understood that any traffic directly on the sand surface may have impacts. Most often on sloped sand surface such as dunes.

Recommendation: While linked durable plastic mats have become popular, we prefer wood: a Bosun's ladder, or roll up roll down treads, each can be seasonal.



12. Biomimicry- Laminar surface flow winds are transporting sand from erosion areas. **Recommendation:** Storm winds that erode sand in one area, can deliver it to a deposition area, when exposed to turbulence inducing shims, which reduce velocity





13. <u>Seawalls-</u>Concrete seawalls create impacts but are expensive to replace. <u>Recommendations:</u> Retrofitting existing walls can significantly improve performance and reduce impacts. Thank you to Joy Cuming for illustration.



2750890137 March 28, 2025

Town of Truro Conservation Commission c/o Emily Beebe – Conservation Agent 24 Town Hall Road Truro, MA 02267

e: ebeebe@truro-ma.gov

Re: Request for Hearing Continuance
SE#75-1198 10 Thornley Meadow Road, Truro, MA

Dear Commission Members:

On behalf of our clients, Roland & Lucia Letendre, we kindly request a continuance of the hearing for SE#75-1198 10 Thornley Meadow Road currently scheduled for April 7, 2025.

An onsite meeting attended by Emily Beebe (Town of Truro Conservation Department), Fred Gaechter (Truro Conservation Trust), Yvette Dubinsky (abutter with an easement through the property for beach access), Chris Senie (attorney for Ms. Dubinsky), Roland Letendre (property owner), and Marshall Puffer (Tighe & Bond) was conducted on March 24, 2025, to review the current conditions of the site and the proposed plan. At the conclusion of this meeting a direction for an updated plan was discussed with all parties in general agreement on that plan.

We are asking for this continuance to allow sufficient time to develop the plan, which includes consulting with a landscape design firm with extensive knowledge of the ecological function of the resource areas in question and local plantings. The intent would be to develop a robust planting and mitigation plan for the areas in question. It is also critical that any proposed plans are reviewed by the Truro Conservation Trust to ensure that they are in conformance with the existing conservation restriction located on a portion of the property.

Therefore, we respectfully request that you reschedule this hearing for your **June 2, 2025,** public hearing. Should you have any questions, please contact our office.

Very truly yours,

TIGHE & BOND, INC.

Marshall H. Puffer, PE Senior Project Manager

Copy: Arozana Davis – Assistant Conservation Agent Courtney Warren – Assistant Conservation Agent

Roland & Lucia Letendre - Homeowners

Residence, Meg Clarke and Tim Richards

31 Mill Pond Road, Truro, MA Map 50 parcel 287-0

March 27, 2025

NARRATIVE FOR THE PROPOSED LANDSCAPE PLAN Refer to the Landscape Plan of March 26, 2025, "Planting Landscape Concept".

Existing Landscape Conditions: The residential lot is near a marsh and riverfront. Part of the property is within 100' of the top of the coastal bank. A portion of the property to the right (north) of the house is within 200' of a riverfront. The landscape plan shows the buffer lines at three sides of the house and the 200' buffer line to the north of the house. The soil on the property is probably a loam with sand. The lot is well vegetated with no apparent erosion and has some Cape Cod style lawn. Invasive plant growth is minimal.

Work Area: The majority of the proposed work to be done is in front of the house, about 50' to 100' from the edge of the wetland and a portion of the proposed work is within 200' of the river. It is proposed to add stone steps, with minimal soil impact, for safety reasons along the existing path to the lower portion of the property which is about 25'-30' from the top of the coastal bank.

Proposed Landscape Project: There will be little disturbance to the soil and erosion should not be a problem. It is proposed to remove the existing lawn and plant the area with plants. The goal is to naturalize the area around the house with plants and eliminate the lawn.

Tree work: It is proposed to remove 2 Oak trees (marked with orange ribbon) to allow the Pitch Pines room to grow. These Oak trees are growing close to the existing Pitch Pines and removal will allow room for the pines to grow. Prune dead wood that is 2" or larger and selected branches from the crowns of 13 Pitch Pines (marked with yellow ribbon) located in front of the house. Prune 1 Oak tree located at the front right of the house. Remove dead wood that is 2" or larger from the crown. Remove selected lower branches to a height of 12' and provide 12' of clearance to the house. This will improve the overall health of the Oak tree and allow clearance from the house.

Stonework: Install stepping stones in selected areas around the house. Set the stones in the existing soil approximately 4"-6" apart to allow for drainage. There are existing stepping stones around the house. The new stones will extend the pathways somewhat and will be added to the front and rear of the house, approximately per plan.

The front walkway is currently made with shells. It is proposed to add stones to the walkway using bluestone stepping stones set with about 3/8" to 2" gaps between the stones to allow for drainage. The stones will be laid in the existing soil with the shells. Sand will be added as needed to help stabilize the stones.

There was an existing water feature in the side yard of the house. It is prosed to rebuild it in the same area. It is located outside of the 100' buffer line and will be about 155' from the riverfront. The base of the water feature will be constructed with an impervious material about 6' in diameter. The water feature will include using the existing historic mill stones which are on site. A mock up version of the feature with stacked stones has been put together for an initial concept. The stones will be stabilized for safety reasons. The feature will replace the previously existing water feature of the same size.

Stone steps: It is proposed to add up to 9 steps to the sloped section of the existing path from the front of the house to the lower portion of the property near the road as shown on the landscape plan. Steps will add to the safety of the path along the slope. The existing mill stones will be used. They are about 18" square and will be set into the existing soil with little disturbance to the existing bearberry ground cover. Minimal gravel may be added to help stabilize the stones.

Native plants will be planted as mitigation for the project. The goal of the proposed work is to perform the work with little environmental impact to the natural environment, and to restore the site with vegetation.

Mitigation and vegetation restoration, Performance Standards Analysis:

It is proposed to plant 2 trees, 57 shrubs, and 461 perennials and grass varieties inside the 100' buffer zone and 200' riverfront buffer line. The plants will be pocket planted with organic material. The quantities, sizes, and approximate locations of the proposed plants is shown on the landscape plan.

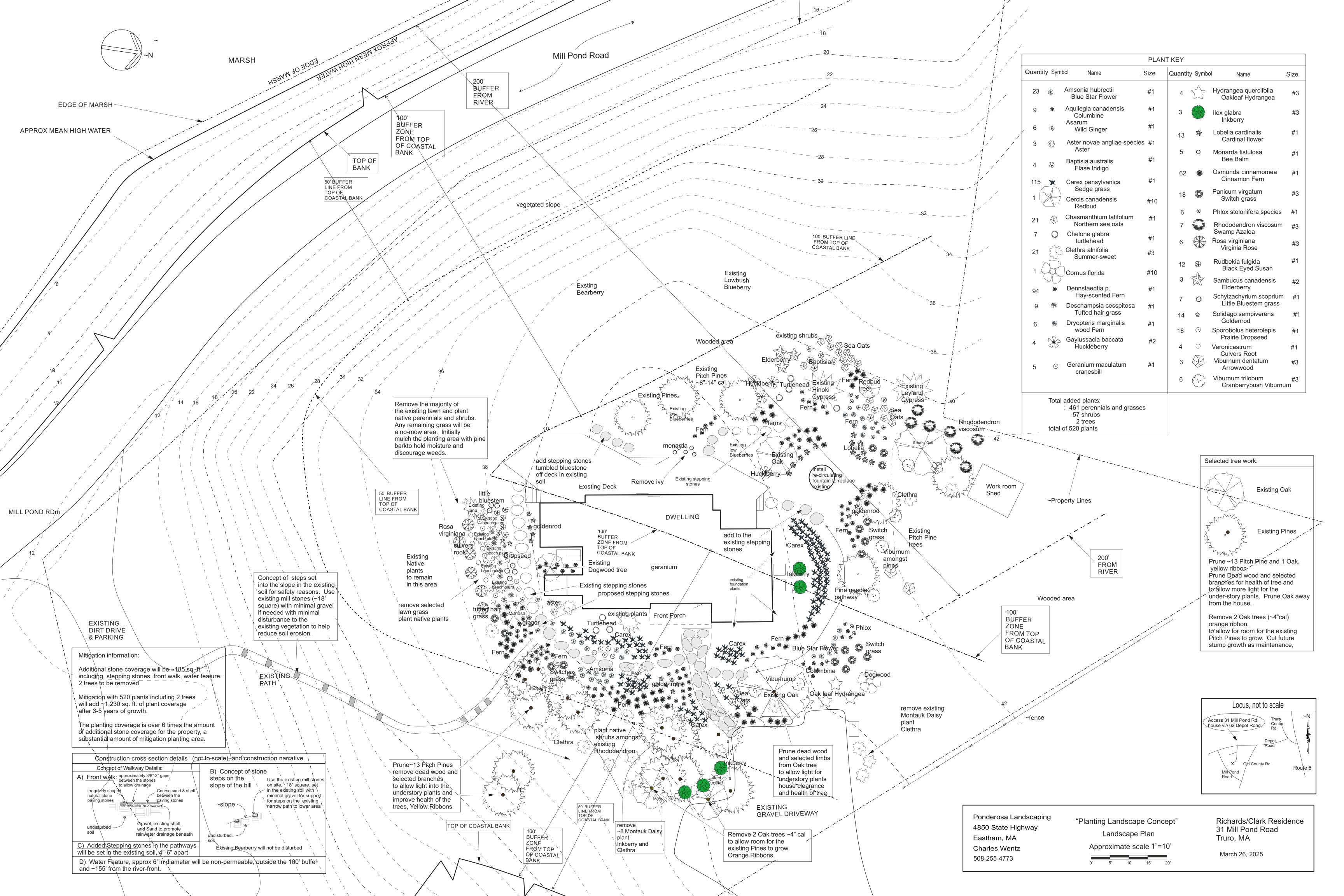
The stepping stones, steps, water feature, and walkway within the buffer zone will result in an increase of about 185 sq. ft. of soil coverage. The plantings will cover about 1,230 sq. ft. after three to five years of growth which is about a 6:1 ratio of foliage coverage to increased ground coverage. The native shrubs will add vegetation to the site, help control possible soil erosion, allow for increased wildlife habitat, and help sustain carbon fixation.

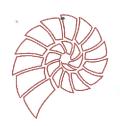
Mitigation measures using the proposed plants will have no adverse impact on the area and will introduce additional wildlife habitat. The added stones will not be a substantial change to the site. Overall the project should be beneficial, and promote a natural habitat.

General Sequence of Work and Management: It is proposed to start the project in the spring of 2025, as weather permits. Pruning will be done outside of the bird nesting period. Perhaps the steps on the path will be installed in the fall or later. Temporary drip irrigation may be installed for plant health and survival of the new plants. The goal would be to have at least 90% survival rate. Some selective hand watering may be done.

Work Construction Protocol: The contractor will inform the Conservation Agent and representative prior to work commencing and, if needed, will meet on site to review the project. A straw waddle will be installed if requested. Care will be taken to do minimal environmental impact to the site.

Alternative Analysis and Projections: There seems to be few alternatives to the project. The project has allowed for substantial mitigation and restoration of the lot using native species inside the buffer zone with no significant adverse effects. Lawn areas will be removed. The environmental benefits of the proposed mitigation planting of native plants will benefit the stability of the soil, improve water filtration through plant root systems, and benefit the wildlife habitat.





J.M. O'REILLY & ASSOCIATES, INC.

Professional Engineering, Land Surveying & Environmental Services

Site Development • Property Line • Subdivision • Sanitary • Land Court • Environmental Permitting

March 11, 2025

JMO #9504

Truro Conservation Commission 24 Town Hall Road Truro, MA 02666

Conservation Commissio.
TOWN OF TRUMO

RE:

Request for Determination of Applicability

24 Great Hills Road, Truro, MA

Map: 49 / Parcel: 25

MAR 13 2005

Dear Board Members,

On behalf of our client, Polly Waldman, J.M. O'REILLY & ASSOCIATES, INC. is filing a Request for Determination of Applicability relative to the installation of a new septic system with I/A Treatment to replace two existing cesspools system currently serving the existing 4 bedroom dwelling at the above referenced property. The project is a sewage system upgrade with no changes or improvements proposed to the existing dwelling.

The property abuts a large salt marsh and contains a coastal bank associated with eh 100-year flood boundary. A limit of work line has been established to minimize the disturbance and to control the potential erosion and washout. The work involved is the removal of the cesspools and the installation of a new sewage system. Access will be from the existing driveway.

A limit of work line is proposed to protect the resource from impact during the installation. The limit of work line shall be a row of staked straw wattles (9-inch dia.). The disturbed areas will be graded to preinstallation conditions and planted with American Beach Grass and allowed to naturalize.

We look forward to reviewing the Notice of Intent with the Commission at the hearing on April 7, 2025. Please contact me directly should you have any questions or need any additional information prior to the hearing.

Very truly yours,

J.M. O'REILLY & ASSOCIATES, INC.

John M. O'Reilly, P.E., P.L.S.

Principal

Cc:

MA DEP

Client

Encl:

RDA Application Package



Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability Truro

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

Municipality

02666

Zip Code

Zip Code

02631

Zip Code

General Information Α. Important: Applicant: 1. When filling out Waldman Polly forms on the Last Name computer, use only First Name the tab key to move P.O. Box 1285 your cursor - do not Address use the return key. MA Truro State City/Town **Email Address** Phone Number Property Owner (if different from Applicant): SAME Last Name First Name Address State City/Town Email Address (if known) Phone Number Representative (if any) O'Reilly John Last Name First Name J.M. O'Reilly & Associates, Inc.

Project Description B.

Site & Sewage Disposal System Plan

1573 Main St., PO Box 1773

Company Name

508-896-6601

Phone Number

Address

Brewster

City/Town

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

MA

joreilly@jmoreillyassoc.com

Email Address (if known)

Truro City/Town -70.07445 Longitude (Decimal Degrees Format with 5 digits after					
			decimal e.gXX.XXXXX) 25 Assessors' Lot/Parcel Number		
					sary):

c. Plan and/or Map Reference(s): (use additional paper if necessary)

and how to convert

How to find Latitude and Longitude

to decimal degrees

Title

Title

2/19/2025

Date

Date



Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability Truro

Municipality

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

Project Description (cont.) B.

a. Activity/Work Description (use additional paper and/or provide plan(s) of Activity, if necessary):

Project proposes to replace two cesspools with a new Title 5 Sewage System with I/A Treatment (Advantex-AX20) Unit. The access will be from the driveway area and all disturbed areas will be planted with American Beachgrass. The two cesspools will be removed from the property and the area backfilled.

A row of staked straw wattles are being proposed to control disturbance and potential washout.

	t row of staked straw watties are being proposed to control disturbance and potential washed.
	the dentify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if lecessary). N/A
3.	 If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.
	Single family house on a lot recorded on or before 8/1/96
	Single family house on a lot recorded after 8/1/96
	Expansion of an existing structure on a lot recorded after 8/1/96
	Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
	New agriculture or aquaculture project
	Public project where funds were appropriated prior to 8/7/96
	Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
	Residential subdivision; institutional, industrial, or commercial project
	Municipal project
	District, county, state, or federal government project
	Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.
	p. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)
	The Subdivision Plan was approved in 1954.



Massachusetts Department of Environmental ProtectionBureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Truro

Municipality

C.		Determinations
1.	l re	quest the Truro make the following determination(s). Check any that apply:
		a. whether the area depicted on plan(s) and/or map(s) referenced above is an area subject to jurisdiction of the Wetlands Protection Act.
		b. whether the boundaries of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.
		c. whether the Activities depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.
		d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any municipal wetlands' ordinance or bylaw of:
		Truro
		Name of Municipality
		e. whether the following scope of alternatives is adequate for Activities in the Riverfront Area as depicted on referenced plan(s).
		Replace Cesspools with a new Sewage System with treatment.
		•
D.		Signatures and Submittal Requirements
and	ereby d accowled	certify under the penalties of perjury that the foregoing Request for Determination of Applicability companying plans, documents, and supporting data are true and complete to the best of my dge.
Off	ice v	certify that the property owner, if different from the applicant, and the appropriate DEP Regional vere sent a complete copy of this Request (including all appropriate documentation) neously with the submittal of this Request to the Conservation Commission.
		by the applicant to send copies in a timely manner may result in dismissal of the Request for ination of Applicability.
Sig	natu	res:
l al	acco	derstand that notification of this Request will be placed in a local newspaper at my expense darce with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations. 3



TOWN OF TRURO

Conservation Commission

24 Town Hall Road P.O. Box 2030, Truro MA 02666 Tel: 508-349-7004, Ext. 31 Fax: 508-349-5508

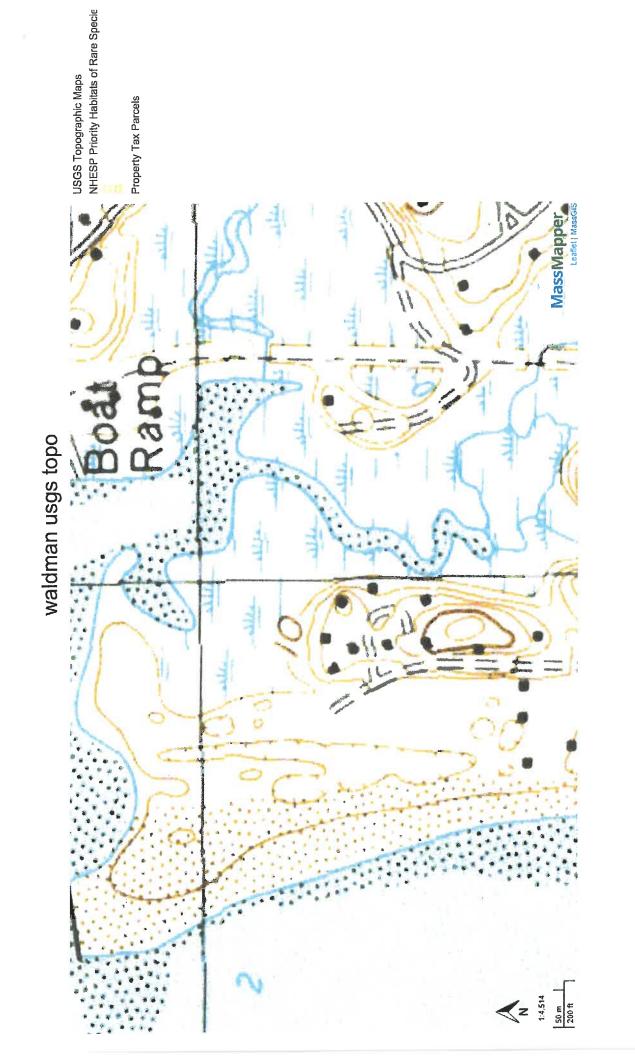
WAIVER

I, John O'Reilly, P.E.,P.L.S. (print name), hereby waive the twenty-one (21) day time period for a public hearing following receipt of a: Motice of Intent Abbreviated Notice of Intent Request for Determination of Applicability Amended Order of Conditions Abbreviated Notice of Resource Area Delineation by the Truro Conservation Commission under Massachusetts General Laws, Ch. 131, sec. 40, and under Truro Conservation Bylaw, Section 8.5.2.
The □ Notice of Intent □ Abbreviated Notice of Intent ▼ Request for Determination of Applicability □ Amended Order of Conditions □ Abbreviated Notice of Resource Area Delineation was submitted on 3/11/2025 (date) for work at 24 Great Hills Road (address). I understand that the next meeting of the Conservation Commission is scheduled for 4/7/2025 and that the Commission will open the public hearing on that date.
I am the: Applicant
X Applicant's Representative
(signature)
3-10-25

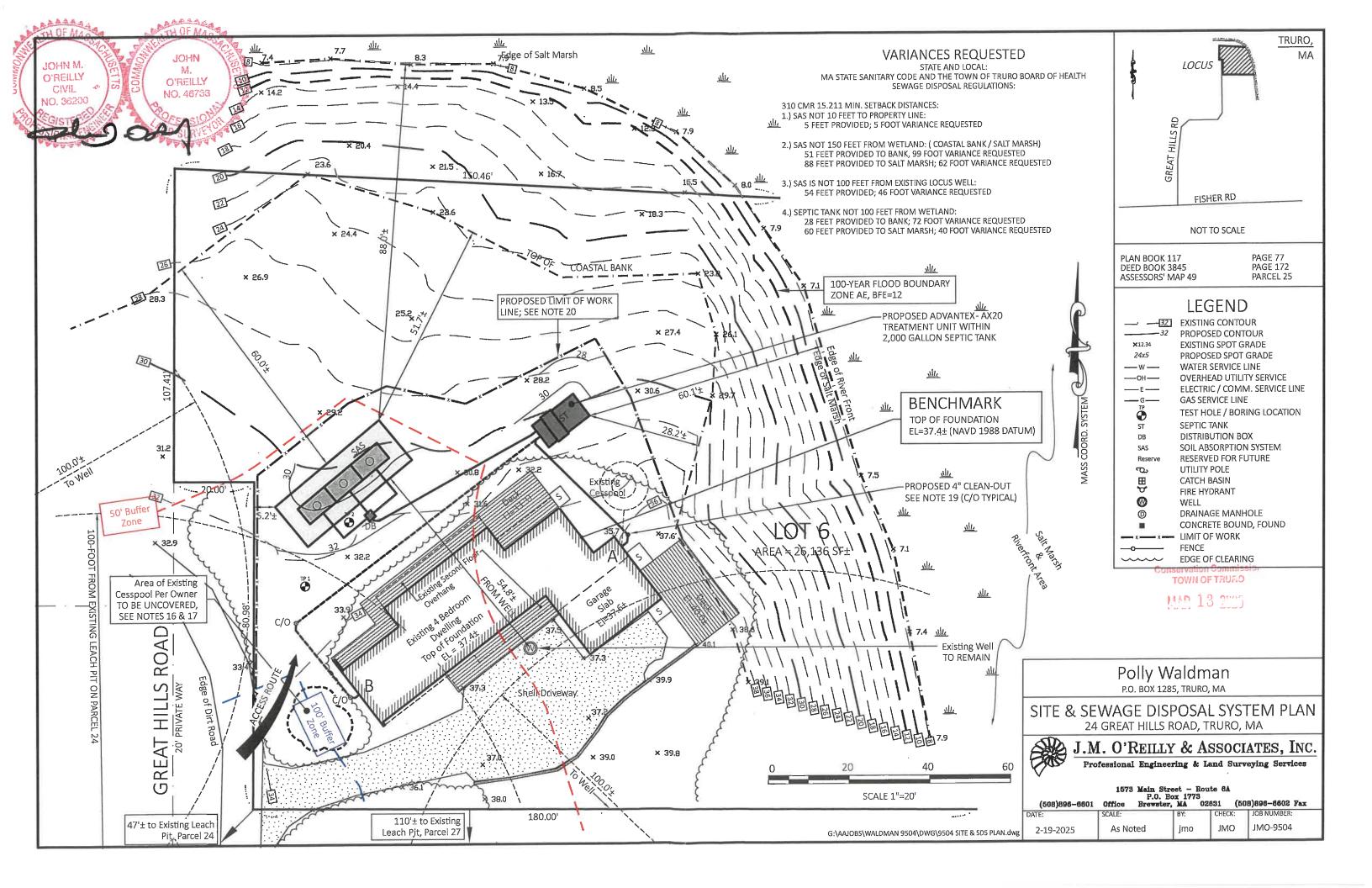
(date)

Truin MA Manconling -

Drinted on 00/10/2005 at 08:01 AM



waldman nhesp



GENERAL NOTES:

- A.) NEITHER DRIVEWAYS NOR PARKING AREAS ARE ALLOWED OVER SEPTIC SYSTEM UNLESS H-20 COMPONENTS ARE USED.
- B.) THE DESIGNER WILL NOT BE RESPONSIBLE FOR THE SYSTEM AS DESIGNED UNLESS CONSTRUCTED AS SHOWN. ANY CHANGES SHALL BE APPROVED IN WRITING.
- C.) CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCEMENT OF WORK.

CONSTRUCTION NOTES:

- 1.) ALL CONSTRUCTION SHALL CONFORM TO THE STATE ENVIRONMENTAL CODE, TITLE 5, AND THE REQUIREMENTS OF THE LOCAL BOARD OF HEALTH.
- 2.) SEPTIC TANK(S), GREASE TRAP(S), DOSING CHAMBER(S) AND DISTRIBUTION BOX(ES) SHALL BE SET ON A LEVEL STABLE BASE WHICH HAS BEEN MECHANICALLY COMPACTED, OR ON A 6 INCH CRUSHED STONE BASE.
- 3.) SEPTIC TANK(S) SHALL MEET ASTM STANDARD C1127-93 AND SHALL HAVE AT LEAST THREE 20" DIAMETER MANHOLES. THE MINIMUM DEPTH FROM THE BOT-TOM OF THE SEPTIC TANK TO THE FLOW LINE SHALL BE 48".
- 4.) SCHEDULE 40 PVC INLET AND OUTLET TEES SHALL EXTEND A MINIMUM OF 6" ABOVE THE FLOW LINE OF THE SEPTIC TANK AND SHALL BE INSTALLED ON THE CENTERLINE OF THE TANK DIRECTLY UNDER THE CLEANOUT MANHOLE.
- 5.) RAISE COVERS OF THE SEPTIC TANK AND DISTRIBUTION BOX WITH PRECAST CONCRETE WATER TIGHT RISERS OVER INLET AND OUTLET TEES TO WITHIN 6" OF FINISH GRADE, OR AS APPROVED BY THE LOCAL BOARD OF HEALTH AGENT.
- 6.) PIPING SHALL CONSIST OF 4" SCHEDULE 40 PVC OR EQUIVALENT. PIPE SHALL BE LAID ON A MINIMUM CONTINUOUS GRADE OF NOT LESS THAN 1%.
- 7.) DISTRIBUTION LINES FOR SOIL ABSORPTION SYSTEM (AS REQUIRED) SHALL BE 4" DIAMETER SCHEDULE 40 PVC LAID AT 0.005 FT/FT. LINE SHALL BE CAPPED AT
- 8.) OUTLET PIPES FROM DISTRIBUTION BOX SHALL REMAIN LEVEL FOR AT LEAST 2' BEFORE PITCHING TO SOIL ABSORPTION SYSTEM. WATER TEST DISTRIBUTION BOX TO ENSURE EVEN DISTRIBUTION.
- 9.) DISTRIBUTION BOX SHALL HAVE A MINIMUM SUMP OF 6" MEASURED BELOW THE OUTLET INVERT.
- 10.) BASE AGGREGATE FOR THE LEACHING FACILITY SHALL CONSIST OF 3/4" TO 1-1/2" DOUBLE WASHED NATIVE STONE FREE OF IRON, FINES AND DUST AND SHALL BE INSTALLED BELOW THE CROWN OF THE DISTRIBUTION LINE TO THE BOTTOM OF THE SOIL ABSORPTION SYSTEM. BASE AGGREGATE SHALL BE COVERED WITH A LAYER OF FILTER FABRIC OR APPROVED EQUIVALENT.
- 11.) VENT SOIL ABSORPTION SYSTEM WHEN DISTRIBUTION LINES EXCEED 50 FEET; WHEN LOCATED EITHER IN WHOLE OR IN PART UNDER DRIVEWAYS, PARKING AREAS, TURNING AREAS OR OTHER IMPERVIOUS MATERIAL; OR WHEN PRESSURE DOSED.
- 12.) SOIL ABSORPTION SYSTEM SHALL BE COVERED WITH A MINIMUM OF 9" OF CLEAN MEDIUM SAND (EXCLUDING TOPSOIL).
- 13.) FINISH GRADE SHALL BE A MAXIMUM OF 36" OVER THE TOP OF ALL SYSTEM COMPONENTS, INCLUDING THE SEPTIC TANK, DISTRIBUTION BOX, DOSING CHAMBER AND SOIL ABSORPTION SYSTEM. SEPTIC TANKS SHALL HAVE A MINIMUM COVER OF 9".
- 14.) FROM THE DATE OF INSTALLATION OF THE SOIL ABSORPTION SYSTEM UNTIL RECEIPT OF A CERTIFICATE OF COMPLIANCE, THE PERIMETER OF THE SOIL ABSORPTION SYSTEM SHALL BE STAKED AND FLAGGED TO PREVENT THE USE OF SUCH AREA FOR ALL ACTIVITIES THAT MIGHT DAMAGE THE SYSTEM.
- 15.) SUBSURFACE COMPONENTS OF A SYSTEM SHALL NOT BE BACKFILLED OR OTHERWISE CONCEALED FROM VIEW UNTIL A FINAL INSPECTION HAS BEEN CONDUCTED BY THE APPROVING AUTHORITY AND PERMISSION HAS BEEN GRANTED BY THE APPROVING AUTHORITY TO BACKFILL THE SYSTEM. THE DESIGNER SHALL INSPECT THE CONSTRUCTION AFTER THE INITIAL EXCAVATION, PRIOR TO BACKFILLING, AND DURING BACKFILLING. IN ADDITION, THE FINAL INSPECTION OF THE SYSTEM SHALL BE CONDUCTED BY THE APPROVING AUTHORITY, THE SYSTEM INSTALLER AND DESIGNER PRIOR TO THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE PURSUANT TO 310 CMR 15.021(3). ANY COMPONENT OF THE SYSTEM WHICH HAS BEEN COVERED WITHOUT SUCH PERMISSION SHALL BE UNCOVERED UPON REQUEST OF THE APPROVING AUTHORITY OR THE
- 16.) INSTALLER SHALL VERIFY INVERT ELEVATIONS PRIOR TO INSTALLATION OF ANY SEPTIC SYSTEM COMPONENTS.
- 17.) EXISTING CESSPOOLS TO BE UNCOVERED, PUMPED DRY, FILLED AND REMOVED. AREA TO BACKFILLED WITH CLEAN FILL, COMPACTED TO MINIMIZE SETTLEMENT.
- 18.) INSTALLER TO CONFIRM LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO START OF CONSTRUCTION.
- 19.) ALL 4" PVC CLEANOUTS SHALL BE WITHIN 3" OF FINISH GRADE. CLEANOUTS SHALL BE MARKED WITH A PIECE OF #5 REBAR FOR FUTURE LOCATION.
- 20.) LIMIT OF WORK LINE: THE LIMIT OF WORK SHALL BE AS SHOWN ON PLAN VIEW, SHEET 1 OF 3. THE LIMIT OF WORK LINE SHALL CONSIST OF A 9-INCH DIA. STRAW WATTLE. THE WATTLES SHALL BE STAKED IN PLACE AND INSTALLED PRIOR TO ANY SITE DISTURBANCE.
- 21.) THE DISTURBED AREAS SHALL BE PLANTED WITH AMERICAN BEACH GRASE, PLANTED IN A 12" X 12" MATRIX. AREA IS TO BE ALLOWED TO NATURALIZE.

SYSTEM DESIGN CALCULATIONS:

SEWAGE DESIGN FLOW: 4 BEDROOM DWELLING @ 110 GPD = 440 GPD

LEACHING CAPACITY REQUIRED: 440 GPD REQUIRED

SEPTIC TANK CAPACITY REQUIRED:
DAILY FLOW = 440 GPD @ 200% = 880 GAL. REQUIRED

SEPTIC TANK CAPACITY PROVIDED: 1500 GALLON SEPTIC TANK (MIN. ALLOWED)

LEACHING CAPACITY PROVIDED

ONE (1) 33.5' X 12.83' X 2.0' LEACHING CHAMBER CAN LEACH:

Vt=[(33.5 X 12.83) + (33.5 X 2.0)2 + (12.83 X 2.0)2] X 0.74 GPD/SF=455.10 GPD 455 GPD>440 GPD REQUIRED

NOTE: A GARBAGE DISPOSAL IS NOT PERMITTED WITH THIS DESIGN.

FLOW PROFILE:

INVERTS

'A' RUN - 38'± 'B' RUN - 101'±

2000 GALLON SEPTIC TANK WITH

ADVANTEX AX-20

TREATMENT UNIT (MODE 4B)

OR APPROVED EQUAL

NOT TO SCALE

ONE (1)- 2,000 GALLON SEPTIC TANK, 2-COMPARTMENT TANK ADVANTEX TREATMENT AX20 SYSTEM ONE (1)- 3 OUTLET DISTRIBUTION BOX (H-20 RATED)

THREE (3)- 500 GALLON LEACH CHAMBERS WITH 4' OF STONE ALL AROUND

SOIL TEST LOGS:

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0-18	Α	LOAMY FINE SAND	10YR 2/2	NONE	
18-38	В	LOAMY FINE SAND	10YR 5/6	NONE	
38-135	C1	MEDIUM COARSE SAND	10YR 7/6	NONE	PERC @ 58"

TEST HOLE 2: FL=31.7±

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0-10	Α	LOAMY FINE SAND	10YR 2/2	NONE	
10-34	В	LOAMY FINE SAND	10YR 5/6	NONE	
34-149	C1	MEDIUM COARSE SAND	10YR 7/6	NONE	

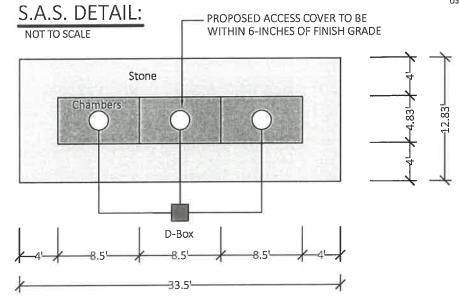
DATE OF TESTING: 11/15/2023

PERCOLATION RATE: LESS THAN 2 MIN/INCH IN "C" LAYERS.

WITNESSED BY: MATT FARRELL, EIT, J.M. O'REILLY & ASSOCIATES, INC. AROZANA DAVIS, AGENT, TRURO HEALTH DEPARTMENT

NO WATER ENCOUNTERED

USE A LOADING RATE OF 0.74 GPD/SF FOR SIZING OF SOIL ABSORPTION SYSTEM.



INSPECTION NOTE:



SHEET 2 OF 3

Polly Waldman P.O. BOX 1285, TRURO, MA

DETAILS, PROFILES & NOTES 24 GREAT HILLS ROAD, TRURO, MA



은방

4.9'-TOM

500 GALLON LEACH CHAMBERS

(END VIEW)

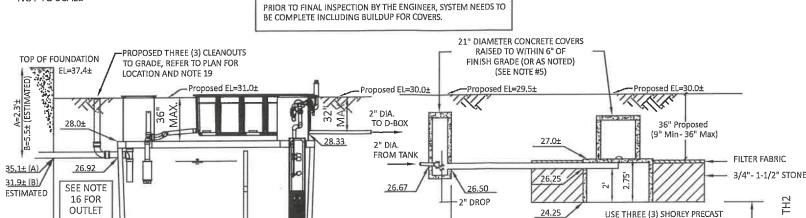
LEACHING CHAMBER

33.5' x 12.83' x 2.0'

WITH 4' OF STONE AROUND

J.M. O'REILLY & ASSOCIATES, INC. Professional Engineering & Land Surveying Services

1573 Main Street - Route 6A P.O. Box 1773 02651 (508)896-6602 Fax (508)896-6601 Office Brewster, MA JOB NUMBER: JMO-9504 OML As Noted imo 2-19-2025



DB-3

D-BOX

H-20

AdvanTex AX20 Mode 4B

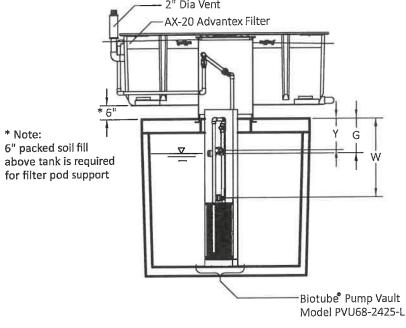
	Processing Tank Sizing			
Ве	drooms	Occupants (maximum)	2-Compartment Processing Tank (min. gallons)	
3	or less	6	1,500	
	4	8	2,000	

Design Notes

For residential strength waste up to 4 bedrooms. Applications greater than 4 bedrooms requires a design review by Orence

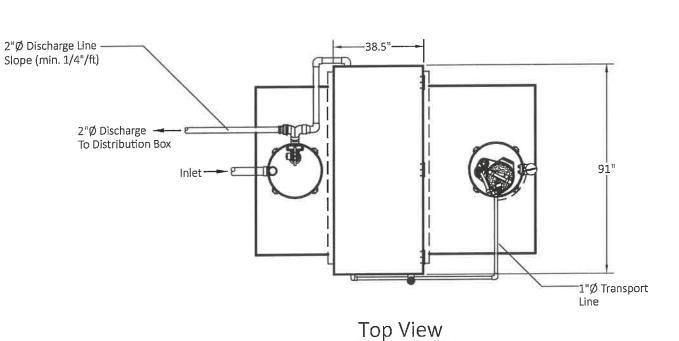
Installation to be performed by an AdvanTex Authorized Installer only.

Start-up and service to be performed by an AdvanTex Authorized Service Provider only.

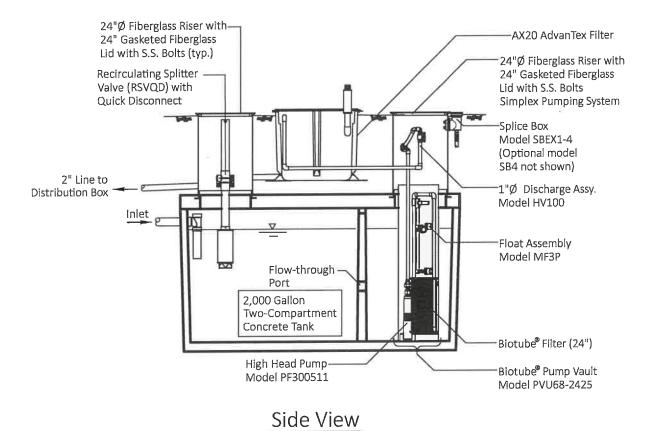


Float Functions			
Υ	High Level Alarm		
G	Override Timer ON/OFF		
W	LLA/RO		
В	Ритр Оп		
R	Pump Off		

End View
NOT TO SCALE



NOT TO SCALE



NOT TO SCALE

SHEET 3 OF 3



Polly Waldman

P.O. BOX 1285, TRURO, MA

ADVANTEX DETAILS & NOTES 24 GREAT HILLS ROAD, TRURO, MA



J.M. O'REILLY & ASSOCIATES, INC.

Professional Engineering & Land Surveying Services

1573 Main Street - Route 6A

	P.O. Box 1773					
l	(508)896-6601	Office	Brewster,	MA 026	831 (50)	3)896-6602 Fax
1	DATE:	SCALE:		BY:	CHECK:	JOB NUMBER:
	2-19-2025	As Note	ed	jmo	JMO	JMO-9504

MAR 12 2025



Massachusetts Department of Environmental Protection Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

General Information A.

mportant: When filling out	1.	Applicant:		
orms on the		THOMAS	ROCCO	
computer, use only		First Name	Last Name	
he tab key to move our cursor - do not		131 So PAMET RD		
ise the return key.		Address	A 4 A	02666
		TRURO	MA	
120		City/Town	State	Zip Code
1/			Email Address	W-may-
		Phone Number	Linai Address	
return	2.	Property Owner (if different from Applicant):		
		First Name	Last Name	
		Address		
		City/Town	State	Zip Code
		Phone Number	Email Address (if known)	
	3.	Representative (if any)		
		First Name	Last Name	
		Company Name		
		Address		
		City/Town	State	Zip Code
		Phone Number	Email Address (if known)	
	В.	Project Description		
	1.	a. Project Location (use maps and plans to identify the	ne location of the area	subject to this request):
		131So PAMET RD	TRURO MA	
		Street Address	City/Town	
How to find Latitude		41.99962	-70.02222	
and Longitude		Latitude (Decimal Degrees Format with 5 digits after decimal		ees Format with 5 digits after
		e.g. XX.XXXXX)	decimal e.gXX,XXXXX)
and how to convert		0.31AC	048-011.0	
o decimal degrees		Assessors' Map Number	Assessors' Lot/Parcel Nu	ımber
		b. Area Description (use additional paper, if necessa	m/)·	
				N Co DAMET DD
		ALLOW PARKING SPACE FOR SINGLE VEHICLE A	LUNG PUBLIC WAT C	IN SO PAINET NO
		c. Plan and/or Map Reference(s): (use additional pa		
		SKETCH PLAN FROM KANE LAND SURVEYORS - A	ATTACHMENT #2	10/01/2024
		Title		Date
		Title		Date



Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability TRURO MA

Municipality

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

B. **Project Description (cont.)**

2. a. Activity/Work Description (use additional paper and/or provide plan(s) of Activity, if necessary):

A proposed solution for parking at 131 So Pamet Rd property to severe dune erosion from past inclement weather and the moving of the house at 133 So Pamet Rd which was relocated also due to this severe dune erosion. The dune erosion has left the 131 So Pamet property with no available patking.

SEE ATTACHMENT #1 for more information

	froi	Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant m having to file a Notice of Intent for all or part of the described work (use additional paper, if cessary).
3.	a. Riv	If this application is a Request for Determination of Scope of Alternatives for work in the vertront Area, indicate the one classification below that best describes the project.
		Single family house on a lot recorded on or before 8/1/96
		Single family house on a lot recorded after 8/1/96
		Expansion of an existing structure on a lot recorded after 8/1/96
		Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
		New agriculture or aquaculture project
		Public project where funds were appropriated prior to 8/7/96
		Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
		Residential subdivision; institutional, industrial, or commercial project
		Municipal project
		District, county, state, or federal government project
		Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.
	b. abo	Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification ove (use additional paper and/or attach appropriate documents, if necessary.)



Massachusetts Department of Environmental ProtectionBureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

C.	Determinations					
11	request the TRURO make the fo	llowing determination(s). Check any that apply:				
	 a. whether the area depicted on plan(s) and/or ma jurisdiction of the Wetlands Protection Act. 	p(s) referenced above is an area subject to				
b. whether the boundaries of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.						
<u> </u>	c. whether the Activities depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.					
[d. whether the area and/or Activities depicted on p jurisdiction of any municipal wetlands' ordinance	lan(s) referenced above is subject to the e or bylaw of:				
	TRURO					
	Name of Municipality					
	e. whether the following scope of alternatives is depicted on referenced plan(s).	adequate for Activities in the Riverfront Area as				
D.	Signatures and Submittal Require					
and a	by certify under the penalties of perjury that the forego coompanying plans, documents, and supporting data edge.	poing Request for Determination of Applicability are true and complete to the best of my				
Office	er certify that the property owner, if different from the were sent a complete copy of this Request (includin aneously with the submittal of this Request to the Co	g all appropriate documentation)				
Failui Deter	e by the applicant to send copies in a timely manner mination of Applicability.	may result in dismissal of the Request for				
Signa	tures:					
l also	understand that notification of this Request will be pleordance with Section 10.05(3)(b)(1) of the Wetlands	aced in a local newspaper at my expense Protection Act regulations.				
111 000	Jan - Jan	02/27/2025				
S	chature of Applicant	Date				
S	gnature of Representative (if any)	Date				

TOWN OF TRURO CONSERVATION COMMISSION P.O. Box 2030 Truro MA 02666-0630

Request for Determination Project address: 131 South PAMET RO TRURO Map 0.31A C Parcel 048-011.
Project address: 13 South Part 10 RURD Map Parcel Parcel
• Is the project located in a resource area or buffer zone RESURCE AREA • Resource Area Type(s): WEYLANDS — BALLSTUN BERGE LOCATION • Resource Area Type(s): SEALISTUN BERGE LOCATION
• Resource Area Type(s): WETLANDS - BALLSTUN BIRT LOCATION
• If Buffer Zone what is the distance from Resource Area: IN CAPE COD NATURAL SFASTIC
Description of project: (list all activities and describe methodology for construction of installation including
equipment type if applicable) A reposed Darking Solven for lost parking
Attached site plan titles/dates, and any other plan or narratives title/dates:
Describe the best management practices/mitigation that will be used on the site:
Enclosed in Attachment It and # 2
Special Conditions required by the Conservation Include:
The proposed project is approved subject to the conditions included herein.

The use of town property for beach access or staging of construction materials requires a permit issued by the Board of Selectmen. The owner and applicant/representative are responsible for obtaining this permit prior to work start.

The owner and applicant/representative shall, avoid and otherwise minimize any activities in the buffer zone or in resource areas by use of <u>best management practices</u> on the site, such as:

- Placement of an agreed upon work limit;
- Proper placement of construction materials in developed or already disturbed areas;
- Proper installation/maintenance of erosion control;
- Good housekeeping that includes at a minimum daily trash pickup; no dumping of paint, plaster or concrete on the site but rather, disposing of it properly.

Approval of the project as described herein includes only the scope and specifications reviewed by the Conservation Commission; any changes to this project shall require additional review by the Conservation Commission prior to the work being done. Expansion of the scope of work may result in the applicant being required to file a full notice of intent. Any work done that exceeds the scope defined in the approved application shall be subject to issuance enforcement action; Violation of these conditions may result in issuance of an enforcement Order; non-criminal violation citations to the owner and/or applicant/representative accompanied by fines that accrue per offense and may accrue daily.

By reading and signing this letter of agreement the applicant acknowledges that they have read and understand the terms as stated herein; the scope of this approval is limited to the work described herein; and your signature on this conditional approval is acknowledgement that no work shall go forward until the RDA conditions have been issued by the Conservation Commission.

Applicant/Representative printed name and signature

Owners printed name and signature:

ThumAs Recce or

C2/08/2025

ATTACHMENT #1

I own the house at 131 So Pamet Rd Truro at Ballston Beach. The house is located along the Public Way on So Pamet Rd to Ballston Beach. This house had an area to park on the property that required vehicles to drive the sandy path. The parking area was up the So Pamet Rd to Ballston Beach behind the house at 133 So Pamet Rd. This parking area of the 131 So Pamet Rd property has diminished in size immensely due to severe dune erosion from inclement weather and the moving of the house at 133 So Pamet Rd which was relocated due to the severe dune erosion. I do not park or allow anyone to park in this area since it can cause more dune erosion, and it is not safe.

I discussed this issue with the Town of Truro to help me with a solution for parking at this house that is adjacent both to Ballston Beach and to the Ballston Beach public parking lot. The town of Truro Town Manager Darrin Tangeman and his staff assessed the area. The Town of Truro was not able to issue a placard or reserve a space for this home on public property at the beach parking lot.

I was directed to Truro Health and Conservation Agent Emily Beebe. Emily then assessed my property at 131 So Pamet Rd with DPW director Jarrod Cabral. After speaking with the surveyor Peter Kane about the dilemma in regard to options for parking, he returned to So Pamet Rd to evaluate the terrain again.

He discussed with me and emailed me his evaluation with simple proposed parking options.

Peter Kane's 2/13/2025 email:

'Hello Tom,

I'm not an engineer, but I find the proposed 22'x22' parking area you have outlined in your ConsCon application to be a little confounding. I didn't include that area in our survey last fall because it seemed so impractical and it was not at all in the vicinity Emily Beebe originally suggested.

The pavement of the parking lot in that area is 10'-13' from your property line, and the elevation change in that distance is about 6'-7', so you'd have to excavate all of that vegetated bank/dune just to get to the 22'x22' area of your property, which also would need to be excavated. Along with all that excavation is the requirement to slope your parking area away from the Town parking lot. To do all of that you would likely need to build three retaining walls 4'-7' high.

Also, the Coastal Engineering Sewage Disposal Plan from 2016 shows a proposed well in the middle of that area.

I think Emily's original idea was practical, I read it as creating a parking spot centered approximately on the existing foot path from the Public Way onto your property. If the Public Way was made passable for a car length or so beyond the foot path, you could pull your car up to that point, and then back your car into the spot on your property and be facing forward for when you leave. The edge of the traveled way/vegetation line in this area is only about 2'-4' from your property line and the elevation change is only about 2'-4', greatly reducing the major earth works necessary at the other location.

I also think it's a fair argument that if you can't drive up to your house on the Public Way your property fronts on, then neither can emergencies vehicles.

So, the idea of making the Public Way passable for access to your property, as it once was, is very reasonable and again, much less disruptive than a major excavation project.

An option that would have a very minimal impact on the area would be to remove a section of the split rail fence on the other side of the Public Way (before the "Call Box"), and park there. There is not much grade change in that area, less of the Public Way would need to be made passable, and it's on an area that used to be part of the Town parking lot.

When I think about it, why can't you just park in front of your house on the side of the Public Way as many residents are able to do? If you

park snugged up to the bottom of the bank/dune, just past your neighbor's garage, you would be in front of your property and you would not be taking up a Town parking space.

It could be a little tight between your car and the corner of the split rail fence on the other side, but perhaps that could be adjusted.

Regards,

Peter!

In terms of parking options that was explained by the surveyor's email, I ask permission to park snug to the bottom bank/dune just beyond the neighbor's garage on So Pamet Rd along the Public Way in front of the property of 131 So Pamet Rd.

Thank you for your time and consideration,

Tom Rocco

02-24-2025

RDA 131 South Pamet Rd.

From: To:

Date: Thursday, February 13, 2025 at 05:08 PM EST

Hello Tom,

I'm not an engineer, but I find the proposed 22'x22' parking area you have outlined in your ConsCon application to be a little confounding. I didn't include that area in our survey last fall because it seemed so impractical and it was not at all in the vicinity Emily Beebe originally suggested.

The pavement of the parking lot in that area is 10'-13' from your property line, and the elevation change in that distance is about 6'-7', so you'd have to excavate all of that vegetated bank/dune just to get to the 22'x22' area of your property, which also would need to be excavated. Along with of all that excavation is the requirement to slope your parking area away from the Town parking lot. To do all of that you would likely need to build three retaining walls 4'-7' high. Also, the Coastal Engineering Sewage Disposal Plan from 2016 shows a proposed well in the middle of that area.

I think Emily's original idea was practical, I read it as creating a parking spot centered approximately on the existing foot path from the Public Way onto your property. If the Public Way was made passable for a car length or so beyond the foot path, you could pull your car up to that point, and then back your car into the spot on your property and be facing forward for when you leave. The edge of the traveled way/vegetation line in this area is only about 2'-4' from your property line and the elevation change is only about 2'-4', greatly reducing the major earth works necessary at the other location.

I also think it's a fair argument that if you can't drive up to your house on the Public Way your property fronts on, then neither can emergencies vehicles.

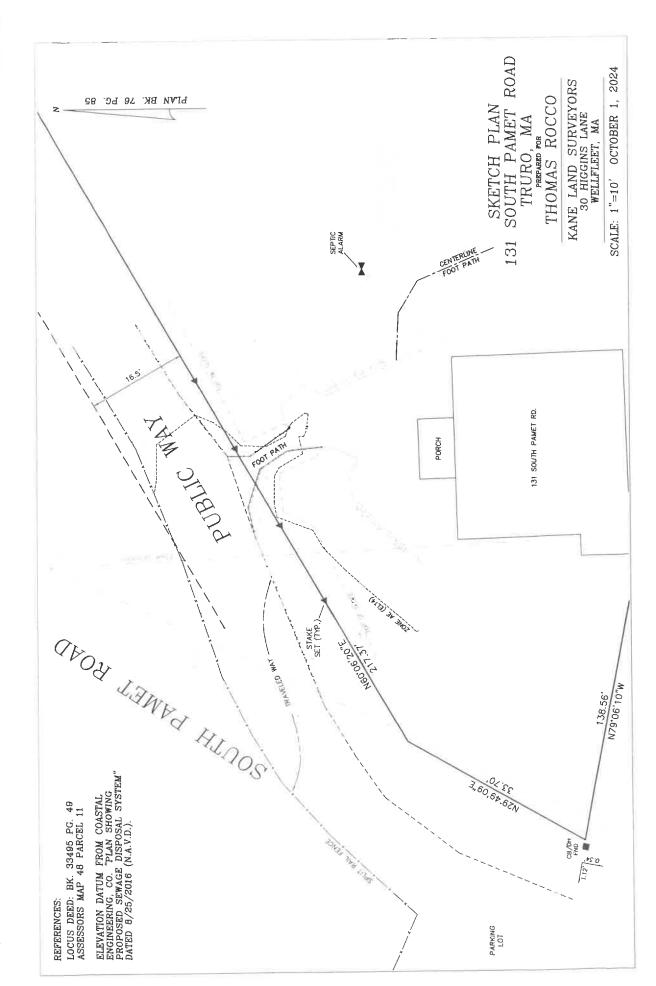
So, the idea of making the Public Way passable for access to your property, as it once was, is very reasonable and again, much less disruptive than a major excavation project.

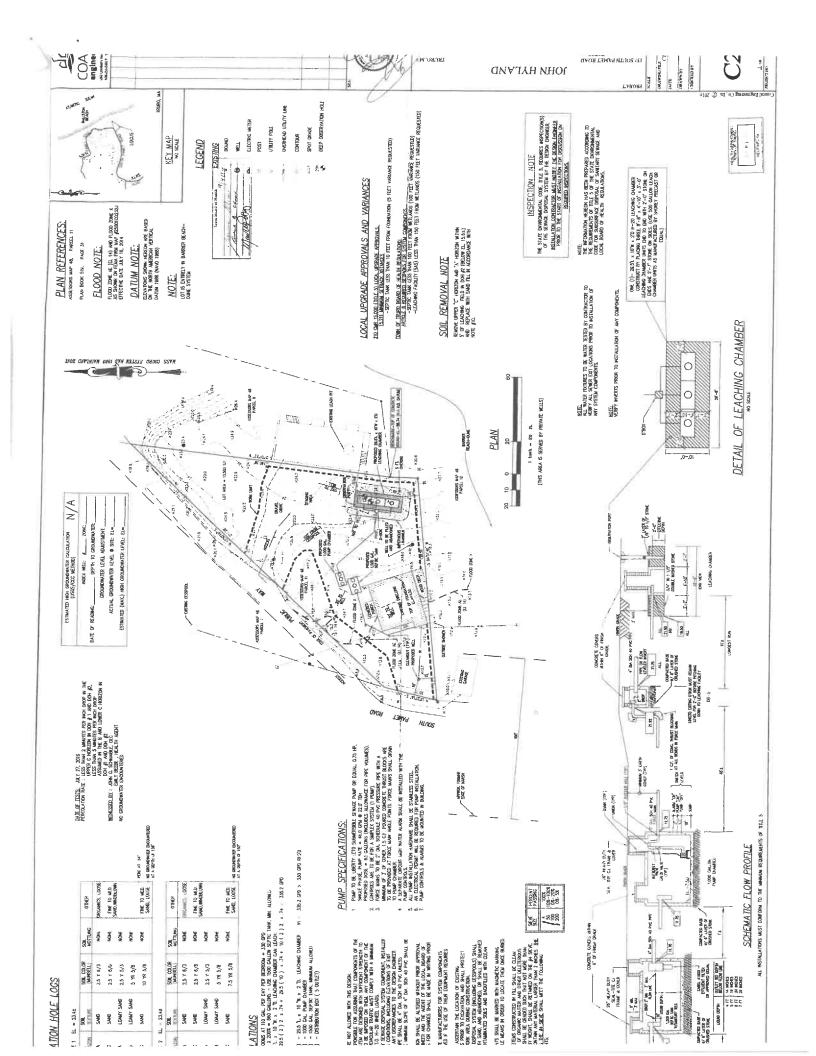
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When I think about it, why can't you just park in front of your house on the side of the Public Way as many residents are able to do? If you park snugged up to the bottom of the bank/dune, just past your neighbor's garage, you would be in front of your property and you would not be taking up a Town parking space.

It could be a little tight between your car and the corner of the split rail fence on the other side, but perhaps that could be adjusted.

Regards, Peter







TOWN OF TRURO

Conservation Commission

24 Town Hall Road P.O. Box 2030, Truro MA 02666 Tel: 508-349-7004, Ext. 31 Fax: 508-349-5508

WAIVER

I, THOMAS ROCCO (print name), hereby waive the twenty-one (21) day time period for a public hearing following receipt of a: \square Notice of Intent \square Abbreviated Notice of Intent \square Request for Determination of Applicability \square Amended Order of Condition Abbreviated Notice of Resource Area Delineation by the Truro Conservation Commission under Massachusetts General Laws, Ch. 131, sec. 40, and under Truro Conservation Bylaw, Section 8.5.2.	ns
The □ Notice of Intent □ Abbreviated Notice of Intent □ Request for Determination of Applicability □ Amended Order of Conditions □ Abbreviated Notice of Resource Area Delineation was submitted on(date) for work at(address). I understand that the next meeting of the	ne
Conservation Commission is scheduled for and that the	
Commission will open the public hearing on that date.	
I am the: Applicant	
Applicant's Representative	
(signature)	
02-08-2025	

(date)

TOWN OF TRURO APPLICATION FOR A CURB CUT PERMIT

<u>Note:</u> This permit application must be accompanied by a plan. If this permit is being applied for by someone other than the Owner of the property, the owner's signature must appear at the bottom of the application.

02/10/2025 To the Select Board 24 Town Hall Road P. O. Box 2030 Truro, MA 02666 Re: APPLICATION FOR A CURB CUT Dear Board Members: The applicant(s) hereby make application for a curb cut as follows: Owners Name(s) (Please Print): THOMAS ROCCO Address: 131 So PAMET RD TRURO MA 02666 Phone Number: Email Address: Curb Cut Street Location: 131 So PAMET RD TRURO MA 02666 Affected Town or State road: TRURO Truro Assessor's Map Number: 0.31AC Parcel Number: 48-011.0 Name of contractor: pending- will speak with Kane Surveyors Contractor Phone Number: pending Contractor Email: pending project to make parking space for the 131 So Pamet Rd lot which has lost the parking due to erosion Reason/explanation: I/we hereby agree to the terms and conditions aroutlined in this policy and attached Exhibits: Applicant's Signature: Owner's Signature (if different):_ Owner's Address (if different):

FOR TOWN STAFF/BOARD USE ONLY

DEPARTMENT APPROVALS

Building Commissioner Approval		
		Building
		Permit
Approved	Disapproved	Number
Building Commissioner		Date
Chief of Police Approval		
I, or my delegate, has conducted an on-su location. The proposed curb cut does no to the home or property.	ite visit. I have reviewed the submit t create any identifiable impedimen	ted plan and curb cut is for law enforcement access Not
Approved	Disapproved	Applicable
Chief of Police		Date
Fire Chief Approval		
I, or my delegate, has conducted an on-si		
location. The proposed curb cut does no	t create any identifiable impedimen	ts for fire and emergency
services to access the home or property,		Not
Ammrayad	Disapproved	Applicable
Approved	Disappioved	Аррпсаотс
Fire Chief		Date
Health & Conservation Agent Approv	<u>ral</u>	N.
Approved	Disapproved	Not Applicable
Health & Conservation Agent		Date
Public Works Director Approval		
Approved	Disapproved	Not Applicable
Public Washin Director		Date
Public Works Director		Date
Town Manager Approval		
Approved	Disapproved	
Town Manager		Date
Select Board Approval		
Approved	Disapproved	
Select Board Chair		Date
1		

PROPERTY ADDRESS _____

FOR TOWN STAFF/BOARD USE ONLY

ADDITIONAL APPROVALS (if required)

Planning Board Approval (if required Approved	Disapproved	Not Applicable
Planning Board Chair		Date
Mass Highway Referral (if required)		
Date		
Forwarded		
Signature		Date

PROPERTY ADDRESS _____

FOR TOWN STAFF/BOARD USE ONLY

CERTIFICATION OF COMPLIANCE/FINAL APPROVAL

Public Works Director Declaration of Compliance	
I have inspected the property located at	and found the
work requested on the Application for a Curb Cut dated	to he in compliance
with the Select Board Policy #28 - Curb C	ut Policy.
Public Works Director Building Commissioner Final Approval	Date
Dunding Commissioner i mar repproval	Certificate of
Approved Disapproved	Occupancy



ATLANTIC COAST ENGINEERING LLC 88 FRONT ST. SUITE 20 SCITUATE, MA. 02066

http://atlanticcoastengineeringllc.com/ Office: (781) 378 - 2593

March 17, 2025

Town of Truro Conservation Commission 24 Town Hall Road Truro, MA 02666

RE: Notice of Intent, Katherine and Lori Burroughs 592 Shore Road

Dear Members of the Conservation Commission:

Please accept these 9 copies of the Notice of Intent application for the proposed project located on Shore Road. The Town of Truro Assessors Department references 592 Shore Road as parcel 5-18-0. This application is being submitted in accordance with the Massachusetts Wetlands Protection Act and the Town of Truro Wetlands Protection Bylaw.

If you have any questions or require additional information, please contact me at (617) 963-6044.

Sincerely, Atlantic Coast Engineering

Joseph Hannon, P.E.

1. Introduction

This Notice of Intent application is being filed for the proposed rehab of two cottages located at 592 Shore Road, North Truro (the site). The Town of Truro Assessors Department references the site as Parcel ID #18 and Parcel ID #3. The proposed project occurs within the AE 13 FEMA flood zone and land subject to coastal storm flowage. Prior to the start of work, erosion controls will be installed to protect wetland resource areas. This application is being submitted in accordance with the Massachusetts Wetlands Protection Act and the Town of Truro Wetlands Protection Bylaw.

2. Site Description

The site consists of two separate dwellings, each located marginally above a shell driveway and garage, situated on Shore Road in North Truro. Based on a review of the site plans and online databases, the site contains the following wetland resource areas and areas of Conservation Commission jurisdiction:

- Land Subject to Coastal Storm Flowage
- Barrier Beach

Site Locus

The site is in the following areas per the MassMapper database:

- 1. The site does not contain or is near a Certified Vernal Pool according to the MaNHESP.
- 2. The site is not located within an Area of Critical Environmental Concern (ACEC).
- 3. The site is located within a Barrier Beach.
- 4. FEMA AE 13 flood zone.

3. Proposed Activities

- Cottage A: The structure will be rehabilitated and the existing foundation will be filled to meet FEMA flood regulations within the AE13 flood zone. A proposed deck will be constructed with 1x1x5.5 concrete footings. Additionally, flood vents will be installed to ensure compliance with floodplain requirements and improve flood resilience.
- Cottage B: The structure will be rehabilitated, and masonry steps will be replaced. A proposed deck will be
 constructed with concrete piers to minimize the impact on the ground and ensure stability while adhering to
 floodplain regulations.
- Erosion control measures will remain in place during all phases of construction to prevent any disturbance to surrounding wetlands and coastal resources.

4. Summary

The proposed project involves rehabilitating both Cottage A and Cottage B. For Cottage A, the existing foundation will be filled to meet AE13 flood zone requirements, and a deck with concrete footings and flood vents will be added. Cottage B will undergo rehabilitation, with new masonry steps and a deck on concrete piers. Throughout the construction process, erosion control measures will be implemented to protect wetland resource areas and maintain compliance with the Massachusetts Wetlands Protection Act and the Town of Truro Wetlands Protection Bylaw.

If you have any further questions or require additional information, please do not hesitate to contact me at (781) 378-2593. Thank you for your attention to this matter.

Sincerely,

Atlantic Coast Engineering LLC



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: MassDEP File Number Document Transaction Number Truro

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					
. Project Location (Note: electronic filer	Project Location (Note: electronic filers will click on button to locate project site):				
592 Shore Road	Truro	02657			
a. Street Address	b. City/Town	c. Zip Code			
	42.05857	-70.13908			
Latitude and Longitude:	d. Latitude	e. Longitude			
	5-18-0				
f. Assessors Map/Plat Number	g. Parcel /Lot Number	•			
. Applicant:					
a. First Name	b. Last Name				
KATHERINE A BURROUGHS TRUST	T, TRS:KATHERINE & LORI BUF	RROUGHS			
c. Organization					
104 Ellington Street					
d. Street Address					
Longmeadow	MA	01106			
e. City/Town	f. State	g. Zip Code			
h. Phone Number i. Fax Number	j. Email Address				
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				
. Representative (if any):					
Joseph	Hannon				
a. First Name	b. Last Name				
Atlantic Coast Engineering LLC					
c. Company					
88 Front Street Suite 20B					
d. Street Address					
Scituate	Ма	02666			
e. City/Town	f. State	g. Zip Code			
617-963-6044	jedh@atlanticcoasten	gineeringllc.com			
h. Phone Number i. Fax Number	j. Email address				

42.50

b. State Fee Paid

67.50

c. City/Town Fee Paid

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

110

a. Total Fee Paid



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

Prov	ided by MassDEP:
	MassDEP File Number
	Document Transaction Number
	Truro
	City/Town

A.	General Information (continued)			
6.	General Project Description:			
	Rehab of two cottages, rebuild decks and install floor	od vents in cottage A,		
7a.	Project Type Checklist: (Limited Project Types see	Section A. 7b.)		
	1. Single Family Home	2. Residential Subdivision		
	3. Commercial/Industrial	4. Dock/Pier		
	5. Utilities	6. 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 Ecologic Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)? 1. Yes No If yes, describe which limited project applies to this project. (See 310 CM 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 ar CMR10.24(8), 310 CMR 10.53(4)), complete and at Project Checklist and Signed Certification.			
8.	Property recorded at the Registry of Deeds for:			
	Barnstable			
	a. County 33285	b. Certificate # (if registered land) 192		
	c. Book	d. Page Number		
В.	Buffer Zone & Resource Area Impa	acts (temporary & permanent)		
1. 2.	☐ Buffer Zone Only – Check if the project is located Vegetated Wetland, Inland Bank, or Coastal Resource Inland Resource Areas (see 310 CMR 10.54-10 Coastal Resource Areas).	rce Area.		
	Check all that apply below. Attach narrative and any project will meet all performance standards for each standards requiring consideration of alternative project.	of the resource areas altered, including		

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

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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	Document Transaction Number				
	Truro				
	Citv/Town				

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

Reso	ource Area	Size of Proposed Alteration	Proposed Replacement (if any)	
a	Bank	1. linear feet	2. linear feet	
b	Bordering Vegetated Wetland	1. square feet	2. square feet	
с.	Land Under Waterbodies and	1. square feet	2. square feet	
	Waterways	3. cubic yards dredged		
Reso	ource Area	Size of Proposed Alteration	Proposed Replacement (if any)	
d	Bordering Land Subject to Flooding	1. square feet	2. square feet	
		3. cubic feet of flood storage lost	4. cubic feet replaced	
e	Isolated Land Subject to Flooding	1. square feet		
		2. cubic feet of flood storage lost	3. cubic feet replaced	
f. Riverfront Area 2. Width of Riverfront Area (c		1. Name of Waterway (if available) - spec	cify coastal or inland	
		(check one):		
	25 ft Designated De	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: square feet				
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	ity is proposed created prior to Aug	ust 1, 1996?	
3. X C	Coastal Resource Areas: (See	e 310 CMR 10.25-10.35)		

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

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Massachusetts Department of Environmental ProtectionProtection - Wetlands

WPA Form 3 – Notice of Intent

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

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 Alteration		Proposed Replacement (if any)
а. 🗌	Designated Port Areas	Indicate size under Land Under the Ocean, below		
b. 🗌	Land Under the Ocean	1. square feet		
		2. cubic yards dredge	ed	
c. 🛛	Barrier Beach	Indicate size und	er Coastal Beac	hes and/or Coastal Dunes below
d. 🛛	Coastal Beaches	22 1. square feet		2. cubic yards beach nourishment
е. 🗌	Coastal Dunes	1. square feet		2. cubic yards dune nourishment
		Size of Proposed	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 r Waterbodies and Waterways,
		1. cubic yards dredge	ed .	
I. 🔀	Land Subject to	22		
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 feet of BVW			b. square feet of Sa	alt Marsh
☐ Pro	oject Involves Stream Cross	sings		
a. number of new stream crossings			b. number of replace	rement stream crossings



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C. Other Applicable Standards and Requirements

rov	rided by MassDEP:
	MassDEP File Number
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	Truro
	City/Town

O .		Applicable	Otariaare	io and ix	, quii oiiio			
	This is a	a proposal for a	n Ecological	Restoration	Limited Proj	ect. Skip Sec	tion C and	
		ا ۸۰ برنام محمد ۱۰۰ ما	Tablesiaal Da		mitad Draina	4 011-1: -4-	D = =::::== =! /	٠ :

complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined 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 Massachusetts
	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:
8/1/21 b. Date of map		Natural Heritage and Endangered Species Program Division of Fisheries and Wildlife 1 Rabbit Hill Road Westborough, MA 01581
b. Date of map		

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).

	c. Submit Supplemental Information for Endangered Species Review*			
	1.	Percentage/acreage of property to be altered:		
(a) within wetland Resource Area		(a) within wetland Resource Area	percentage/acreage	
		(b) outside Resource Area	percentage/acreage	
	2.	☐ Assessor's Map or right-of-way plan of	site	
2.	 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 of impacts outside of wetland resource area buffer zone)		on of impacts outside of wetland resource area &		
	(b)	(b) Photographs representative of the site		

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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/ma-red endangered-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 not required as part of the Notice of Intent process.



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

rovided by MassDEP:			
	MassDEP File Number		
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	Truro		
	City/Town		

C. Other Applicable Standards and Requirements (cont'd)

Make c	(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)	Vegetation cover type map of site			
(e)	Project plans showing Priority & Estima	ated Habitat boundaries		
(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. □ Per	Separate MESA review completed. Include copy of NHESP "no Take" dete rmit with approved plan.	rmination or valid Conservation & Management		
For coastal line or in a f		osed project located below the mean high water		
a. Not a	pplicable – project is in inland resource	area only b. ☐ Yes ⊠ No		
If yes, inclu	de proof of mailing, hand delivery, or ele	ectronic delivery of NOI to either:		
South Shore the Cape & I	- Bourne to Rhode Island border, and slands:	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				
please cont		ense. For coastal towns in the Northeast Region, tal towns in the Southeast Region, please contact		
c. 🗌 🛮 Is t	his an aquaculture project?	d. 🗌 Yes 🛛 No		
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 ProtectionBureau of Resource Protection - Wetlands

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		
	Truro City/Town		

C. Other Applicable Standards and Requirements (cont'd)

4.	Is any portion	of the pr	oposed 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 MassDE Website for ACEC locations). Note: electronic filers click on Website.	ΞP
	b. ACEC			
5.			oposed project within an area designated as an Outstanding Resource Wate in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?	ər
	a. 🗌 Yes	☑ No		
6.			te subject to a Wetlands Restriction Order under the Inland Wetlands c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 10	5)?
	a. Yes	☑ No		
7.	Is this project	subject to	o provisions of the MassDEP Stormwater Management Standards?	
	Standard	s per 310	copy of the Stormwater Report as required by the Stormwater Management CMR 10.05(6)(k)-(q) and check if:	
			or Low Impact Development (LID) site design credits (as described in anagement Handbook Vol. 2, Chapter 3)	
	2. 🗌 A	portion o	of the site constitutes redevelopment	
	3. 🗌 P	roprietary	y BMPs are included in the Stormwater Management System.	
	b. 🛛 No. C	Check why	y the project is exempt:	
	1. 🛛 S	Single-fam	nily house	
	2. 🗌 E	mergenc	y road repair	
			idential Subdivision (less than or equal to 4 single-family houses or less than nits in multi-family housing project) with no discharge to Critical Areas.	n
D.	. Addition	al Info	ormation	
			an Ecological Restoration Limited Project. Skip Section D and complete I Restoration Notice of Intent – Minimum Required Documents (310 CMR	
	Applicants mu	ust include	e the following with this Notice of Intent (NOI). See instructions for details.	
			the document transaction number (provided on your receipt page) for any of on you submit to the Department.	:
	suffic	ient inforr	r map of the area (along with a narrative description, if necessary) containing mation for the Conservation Commission and the Department to locate the srs may omit this item.)	

Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to

the boundaries of each affected resource area.

wpaform3.doc • rev. 12/4/2023

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

Attach NOI Wetland Fee Transmittal Form

Attach Stormwater Report, if needed.

Provided by MassDEP:		
•	MassDEP File Number	
	Document Transaction Number	
	Truro	
-	City/Town	

	Oily, 10th
D. Additional Information (cont'd)	
	resource area boundary delineations (MassDEP BVW Applicability, Order of Resource Area Delineation, etc.), odology.
4. List the titles and dates for all plans and	d other materials submitted with this NOI.
592 Shore Rd. Proposed Site plan	
a. Plan Title	
Atlantic Coast Engineering LLC	Joseph Hannon, PE
b. Prepared By	c. Signed and Stamped by
1/13/25	1" = 30'
d. Final Revision Date	e. Scale
f. Additional Plan or Document Title	g. Date
 If there is more than one property owner listed on this form. 	er, please attach a list of these property owners not
6. Attach proof of mailing for Natural Herit	itage and Endangered Species Program, if needed.
7. Attach proof of mailing for Massachuse	etts Division of Marine Fisheries, if needed.

	E	_
┖.	гее	5

8.

9.

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:

1902	3/17/25
2. Municipal Check Number	3. Check date
1903	3/17/25
4. State Check Number	5. Check date
ACE	
6. Payor name on check: First Name	7. Payor name on check: Last Name



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

rovided by MassDEP:			
	MassDEP File Number		
	Document Transaction Number		
	Truro		
	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.

Lin By	3/17/25
1. Signature of Applicant	2. Date
3. Signature of Property Owner (if different)	4. Date
Libra ~	3/17/25
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.



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

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





Α.	Applicant Info	ormation					
1.	Location of Project:						
	592 Shore Road		Truro				
	a. Street Address		b. City/Town				
	1903		42.50				
	c. Check number		d. Fee amount				
2.	Applicant Mailing Address:						
	a. First Name		b. Last Name				
	KATHERINE A BURROUGHS TRUST, TRS:KATHERINE & LORI BURROUGHS						
	c. Organization						
	104 Ellington Street						
	d. Mailing Address						
	Longmeadow		Ma		01106		
	e. City/Town		f. Sta	te	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. Sta	te	g. Zip Code		
	h. Phone Number	i. Fax Number	i. 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

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
1	1	110	110
	Step 5/Te	otal Project Fee:	110
	Step 6/	Step 6/Fee Payments:	
	Total	Project Fee:	110 a. Total Fee from Step 5
	State share	of filing Fee:	42.50 b. 1/2 Total Fee less \$ 12.50
	City/Town share	e of filling Fee:	67.50 c. 1/2 Total Fee plus \$12.50

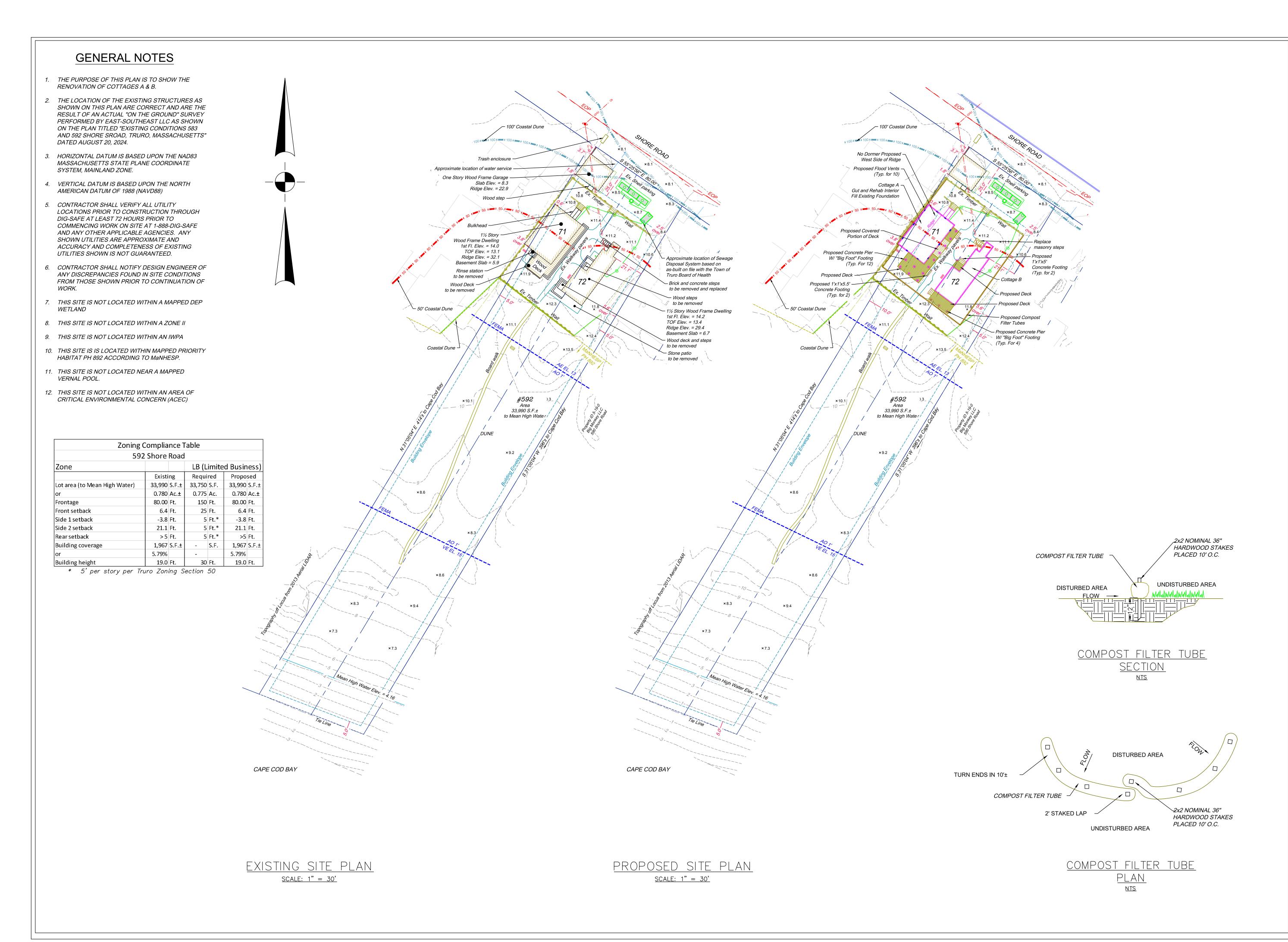
C. Submittal Requirements

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.)





<u>N.T.S.</u> DATE REVISIONS

> SITE PLAN LOCATED AT 592 SHORE RD. TRURO, MA PREPARED FOR KATHERINE LORI BURROUGHS



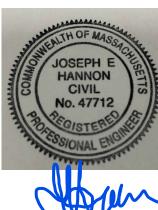
Atlantic Coast Engineering

SCITUATE HARBOR OFFICE 88 Front St. Suite 22 Scituate, MA 02066 Office: (781)378-2593

QUINCY/MARINA BAY OFFICE 500 Victory Rd., Suite 400 Quincy, MA 02171 Office: (617)404–2001

*Specializing in Engineering, Surveying, Permitting and Construction Consulting

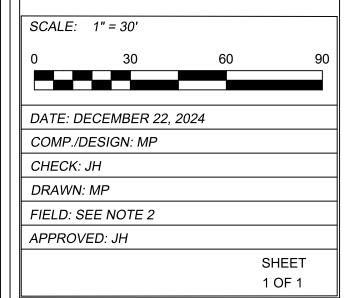


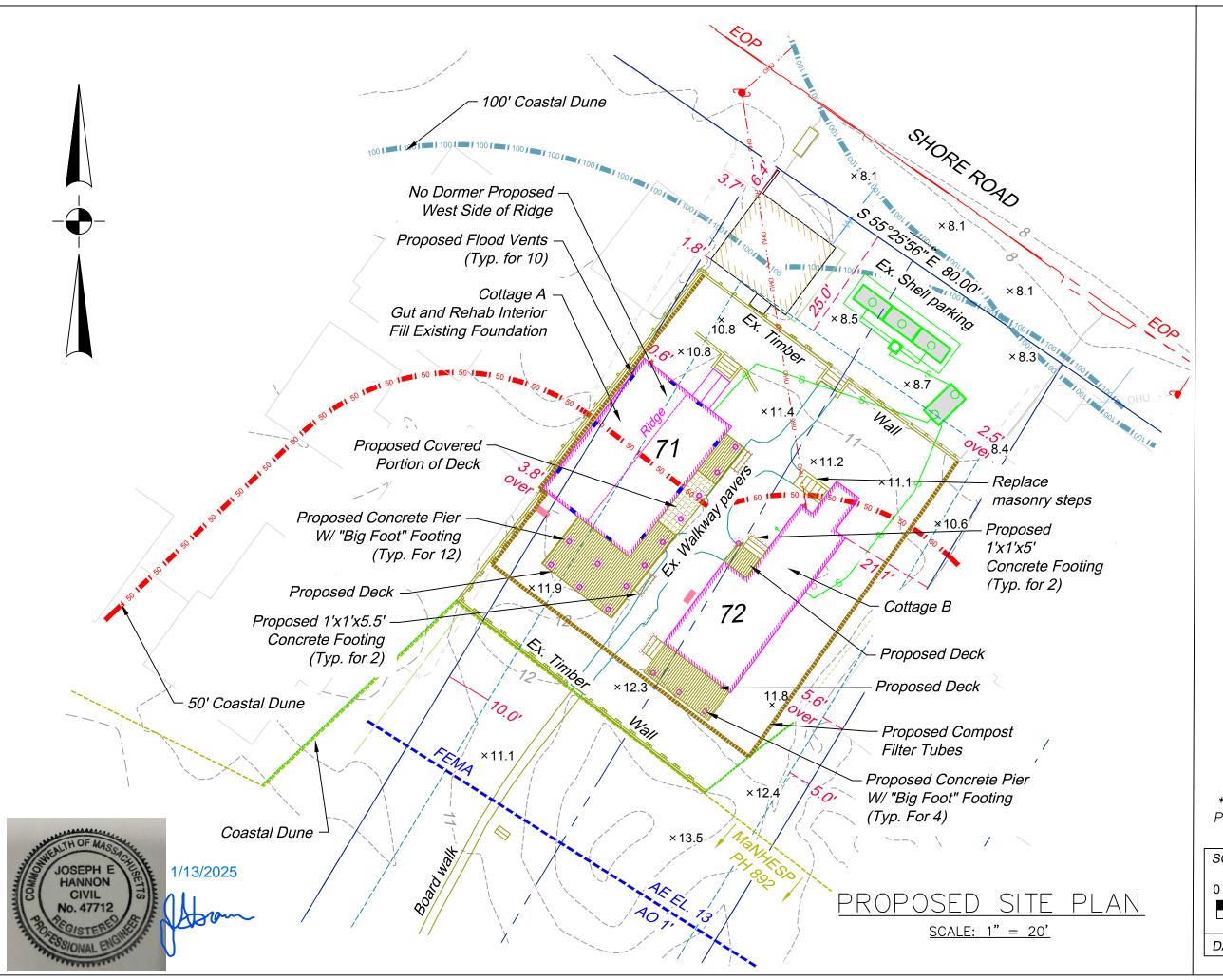


LOCUS OWNER OF RECORD: PARCEL ID 5-18-0 KATHERINE & LORI BURROUGHS KATHERINE A. BURROUGHS TRUST 104 ELLINGTON STREET

LONGMEADOW, MA 02189 DEED BK 33285, PG 192 PLAN BK 23, PG 37, LOTS 71 & 72 PLAN BK 216, PG 85, LOT 1

THE LOCUS LIES WITHIN ZONES VE (EL 15 FEET) ZONE AO (DEPTH 1 FEET) AND ZONE AE (EL 13 FEET) AS SHOWN ON THE F.I.R.M. MAP #25001C0136J EFFECTIVE 07/16/2014.





SITE PLAN
LOCATED AT
592 SHORE RD.
TRURO, MA
PREPARED FOR
KATHERINE
&
LORI BURROUGHS

LOCUS OWNER OF RECORD:

PARCEL ID 5-18-0
KATHERINE & LORI BURROUGHS
KATHERINE A. BURROUGHS TRUST
104 ELLINGTON STREET
LONGMEADOW, MA 02189
DEED BK 33285, PG 192
PLAN BK 23, PG 37, LOTS 71 & 72
PLAN BK 216, PG 85, LOT 1

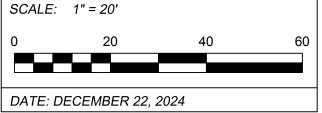


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2/12/25

Notice of Intent Application Summary Narrative:

The following proposal is to reinstall 4ft x8 ft drift fence panel sections on exiting posts (replacement of existing fence remain within the same footprint – approximately 475ft long) The fence sections and debris were taken down because of the storm damage of January 2024 and March 2024 storms and stored off the beach to enable beach nourishment to be completed safely in December 2024 for Map 39, Parcels 28, 34, 233 and 35. Upon careful review of the condition and deterioration of the slats of the panel sections, it was evident that these panels that were replaced previously in 2010, also need to be redesigned and replaced again for longer term durability & longevity. The Truro Conservation regulation suggests a design for the panels of a serpentine drift fence that can only use untreated 2x3's for slats nailed to the top and bottom 2x4 cross members (because pressure treated 2x3 lumber is not commercially available – only 2x4 lumber is available as pressure treated lumber). However, after several years in the saltwater environment the wood and nails get partially decomposed compromising the structural integrity of these drift fence components and panel sections. The 1/2" galvanized lag bolt screws that attach the panels to the posts seemed to be in great shape, so they are less susceptible to breaking off if the panel is severally impacted.

In this proposal we are suggesting a redesign of these panel sections that takes advantage of using all MCA pressure treated 2x4's. MCA (Micronized Copper Azole) is equivalent and <u>less environmentally impactful</u> than ACQ (Alkaline Copper Quaternary) that is called out in the same conservation regulations. All panel sections will be fabricated off site and made with 100% galvanized bolts, lock nuts, & washers recommended by Truro Conservation for potential long-term personal safety on the beach. Additionally, any individual slats that are broken can be easily replaced by unbolting and reinstalling a new slat as required over the lifetime of the panel without nails. However, note

that MCA treated southern yellow pine used here is estimated to last 20-40 years depending upon climate conditions.

In calculating the approximate wave loads on the double 2x4 top and bottom braces and the slats that are thru bolted with 3/8" galvanized bolts - collectively the total structure should still be in better shape for strength and durability compared to the previous legacy panel construction. Also, each of the panel sections would be bolted and lagged to the existing 6" diameter posts with long 1/2" diameter lag bolts at each corner and should easy take the same loads. All galvanized bolts and lag will be assembled with galvanized nuts and washers as required to insure long-term securing the drift fence panel's components together and to the posts. All panel bolts will not protrude more than ½-1" beyond the bolts head or nuts.

All sections will be transported down to the beach from Cold Storage with a four-wheel drive truck and reinstalled with hand tools on the beach using the existing posts and with a small excavator to pull out broken posts and insert new 6"x6" x 10ft post (that were broken by beach nourishment equipment previously during December 2024 because of the difficulty getting between the posts to the toe of the bank). See attached hand drawing & description of the 4ft x 8ft fence panel sections, Map 39 of the four Parcels 28, 34, 233 and 35, and PowerPoint describing the successful completion of sand nourishment in 2024, Sharpless Photo Document of Bay View Beach Drift Fence and Nourishment 2014 – 2025 and plans & maps for new panel sections installed on exiting posts.

The actual work to reinstall the panels to the existing poles on the beach should take less than one week time frame based on having with good weather & a reasonable low tides. Assuming the sand stays in place over the winter months, we plan to plant beach grass in the spring or fall of 2025 behind the fence. We are also requesting permission for future sand nourishment and planting of beach grass to continue to enhance and restore the coastal beach area.

FED 20 202)

Sheet 1A Applicants for Notice of Intent filing

Applicant	Deed Reference	Property Locations
Sean Flynn & Kathy Flynn 504 Grafton, LLC Reg Agt: Reg Agt Solutions, Inc 577 Grafton St Shrewsbury, Ma. 01545	Book 36008 Page 179	Map 39, Parcel 28 4 Bay View Path
Kathy Sharpless & Garrett Sharpless 58 Commercial Wharf Boston, Ma 02110	Book 13492 Page 62	Map 39, Parcel 34 2 Bay View Path (Alternate:15 Bay View Rd)
Anastasia Song & Susan Flanagan 43 Topstone Rd Redding, Ct 06896	Book 32012 Page 207	Map 39, Parcel 233 17 bay View Rd
Lucy Karanfilian J&M Family LLC 3992 NY-212 Apt 2 Lake Hill, NY 12448	Book 21360 Page 156	Map 39, Parcel 35 19 Bay View Rd

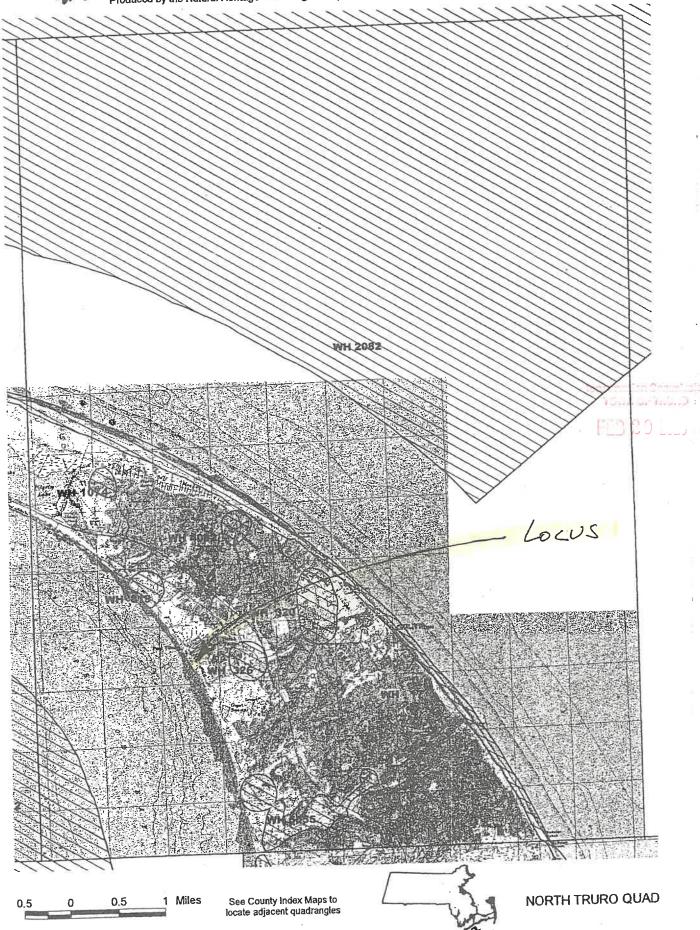
PERFORMANCE STANDARDS:

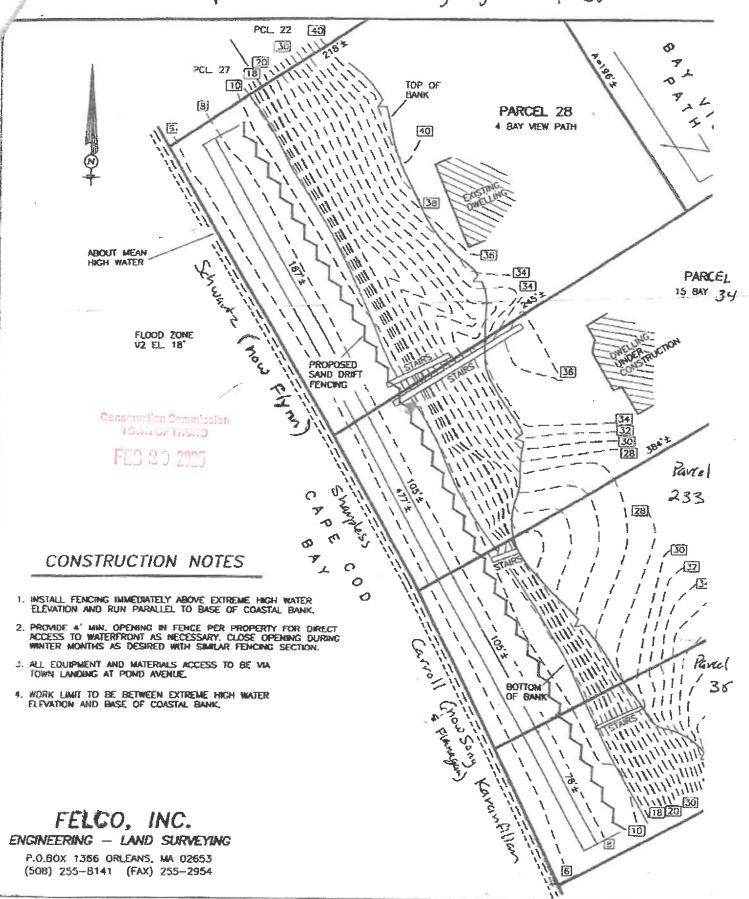
Proposed project is to continue to enhance and restore coastal beach area using sepentine sand drift fencing by reinstalling new fence panels on exiting posts that remain within the same footprint on the coastal beach that were damaged during the January and March 2024 storm events. The project intends to increase beach volume and ability to respond to wave action by repairing the fencing to its original state to catch windblown sand and floating vegetation debris. Also, water circulation and quality should not be adversely affected, and the intent is to increase beach relief and elevation or at least minimized further erosion.

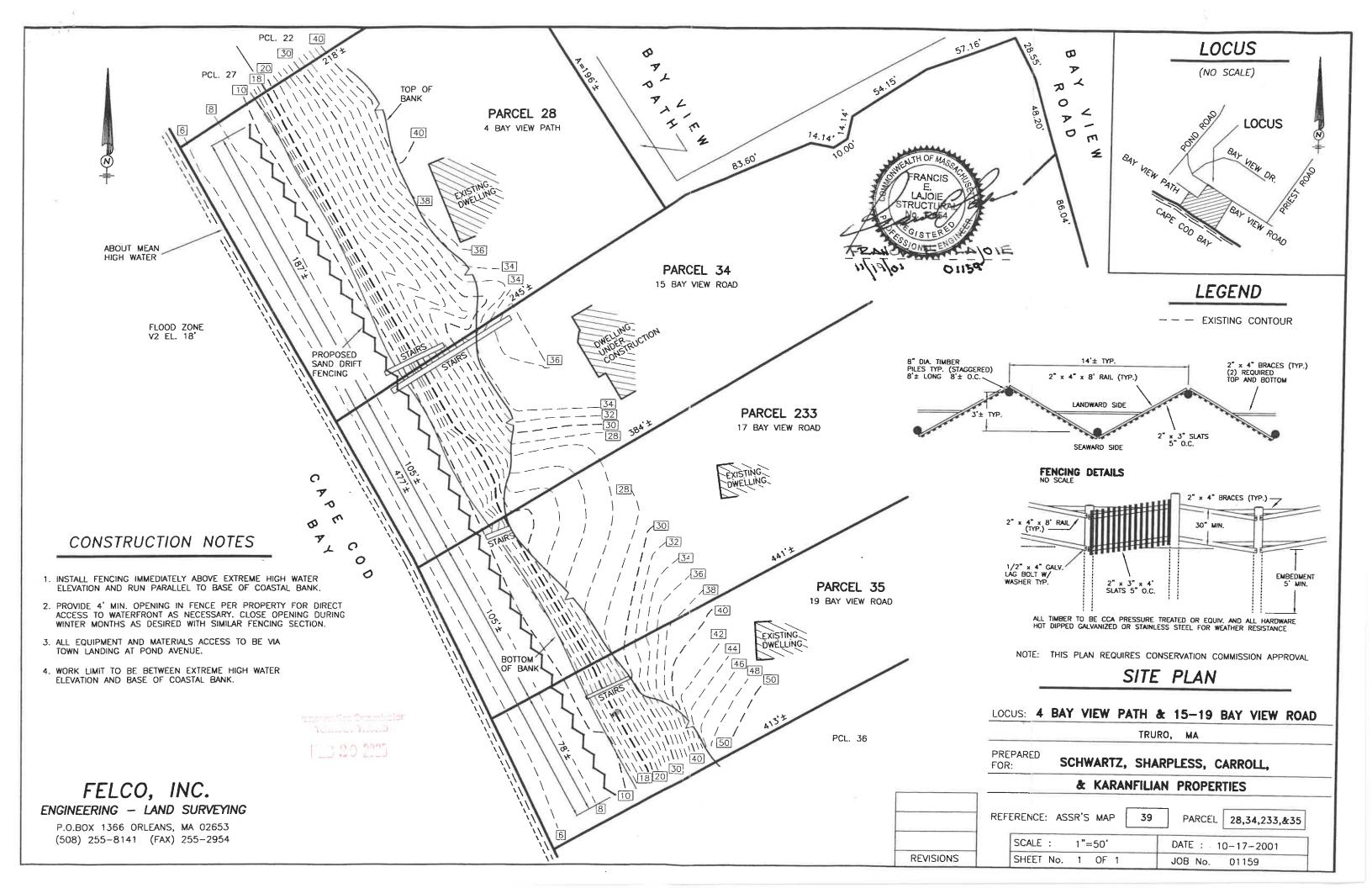
ESTIMATED HABITATS OF RARE WILDLIFE AND CERTIFIED VERNAL POOLS

For use with the MA Wetlands Protection Act regulations (310 CMR 10)

Effective October 1, 1999 through December 31, 2001 Produced by the Natural Heritage & Endangered Species Program, MA Division of Fisheries & Wildlife







Bay View Beach Fences before & after successful sand nourishment completed by Crawford on 12-20-24



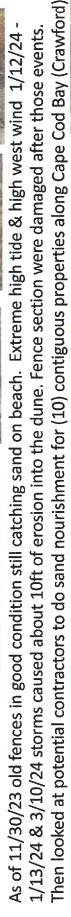


















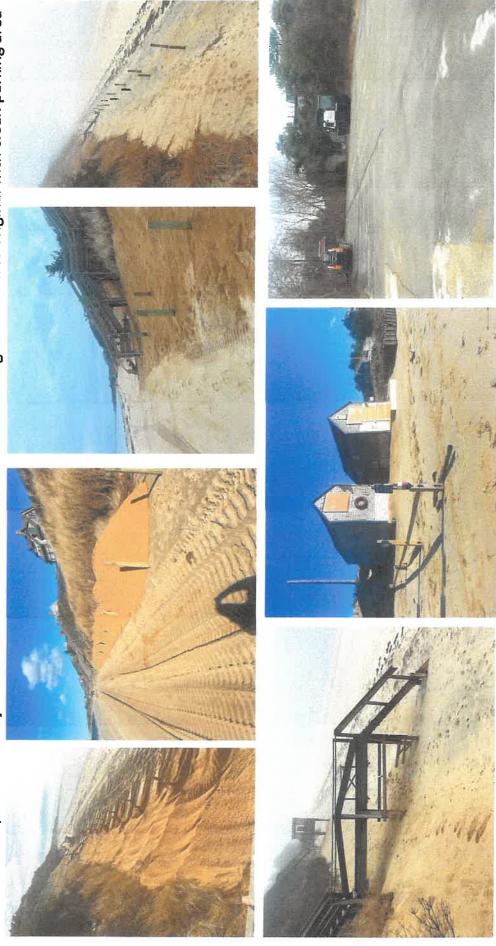




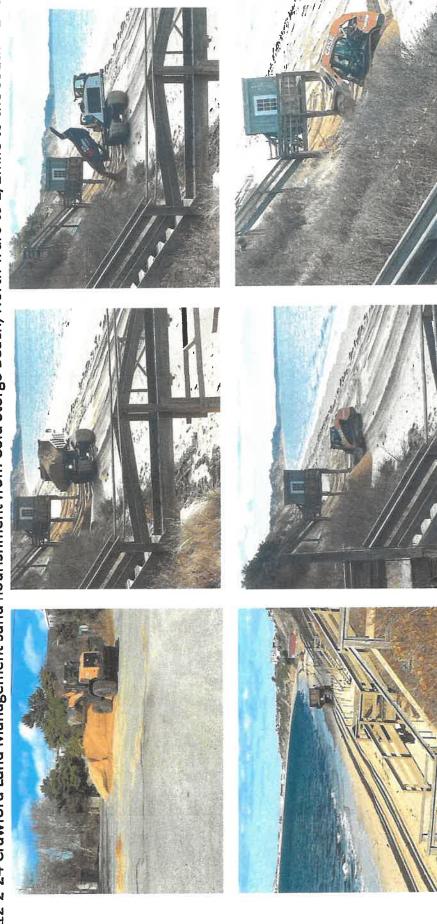


11/1/24 removed damaged fence sections on (4) properties for equipment to squeeze between exiting posts for sand nourishment panel sections that could be installed to posts. Plan is to reinstall fence sections on exiting posts at lowest tides from town landing. to the toe of the bank. Sections stored off beach, for possible repair/reuse but during inspection was determined to rebuild new

12-20-24 Crawford Land Management sand nourishment from Cold Storge Beach, North Truro to 1/2mile to the south – Successful Completion of Project with sand nourishment raked out & beach graded back to original with clean parking area



12-2-24 Crawford Land Management sand nourishment from Cold Storge Beach, North Truro to 1/2mile to the south – 1st day

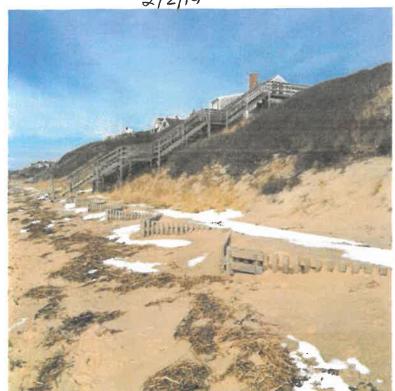




Sharpless Photo Document of Bay View Beach Drift Fence and Beach Novishment 2014-2025

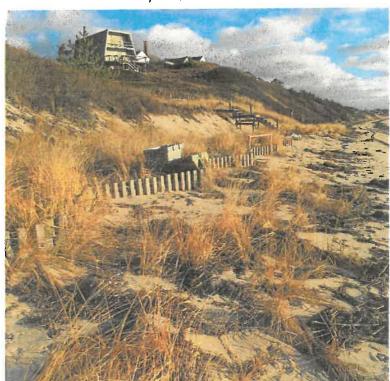
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5/4/14





12/14/14



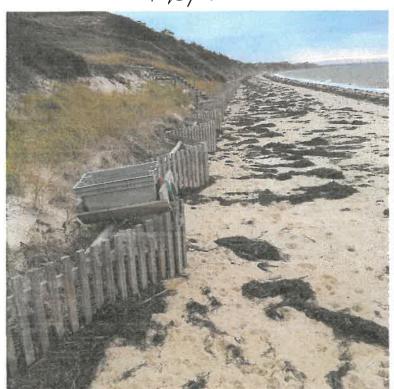
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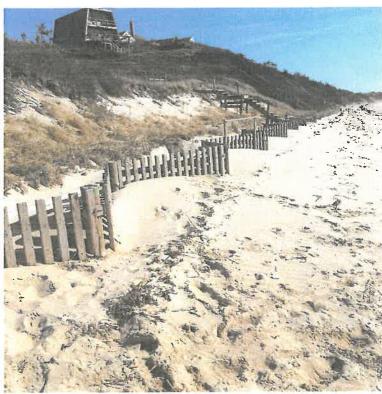
CEN OA

FED 20 LLJ

12/5/15



2/28/16



12/22/16

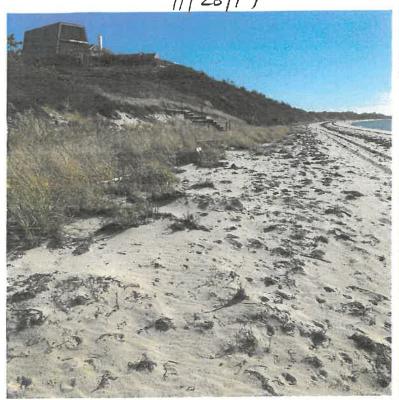


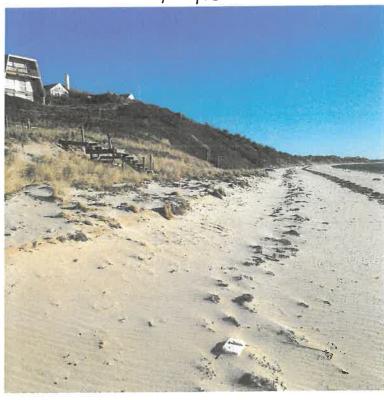
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11/28/17



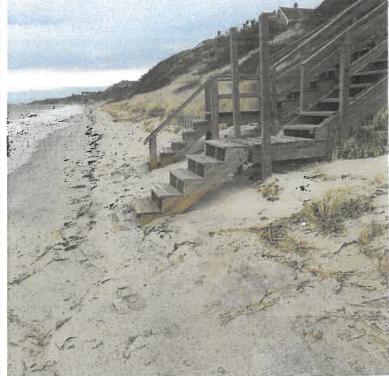




4/24/18

1/8/19

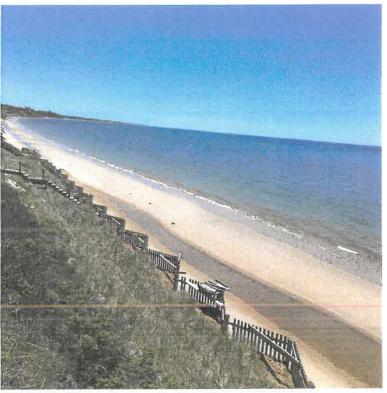




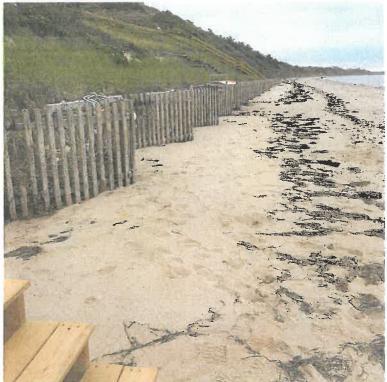
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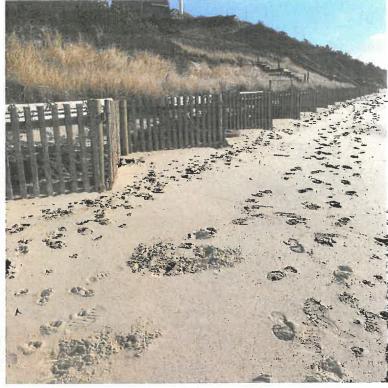
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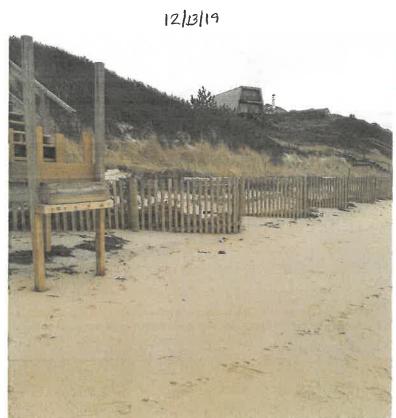
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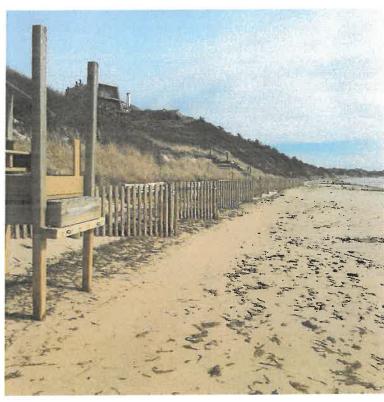


12/5/19

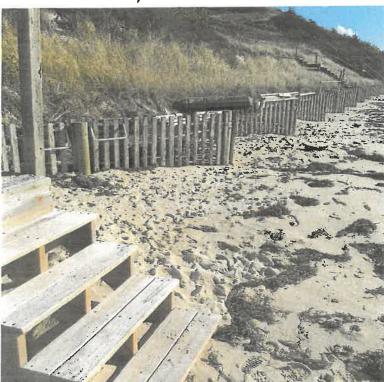


3/11/20

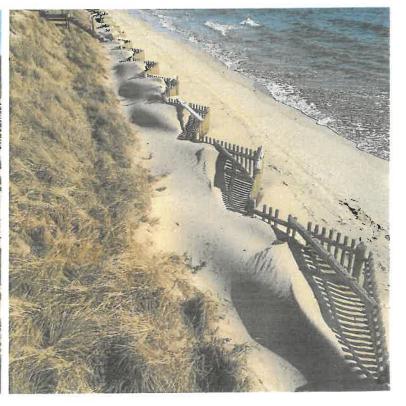




11/14/20

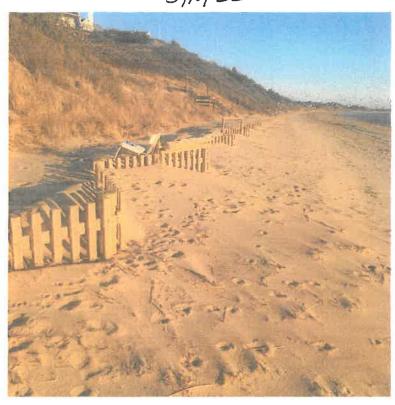


3/5/21



3/16/22

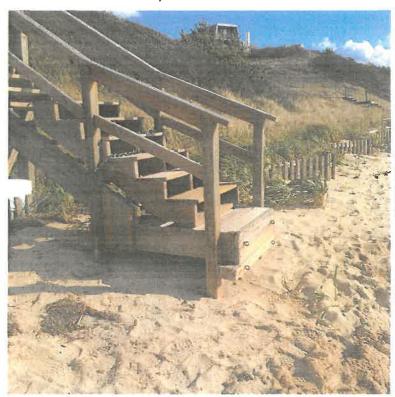






11/17/22

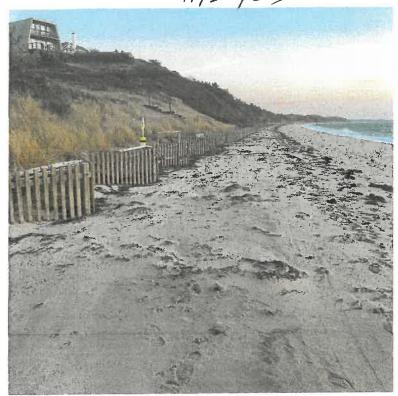
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11/30/23

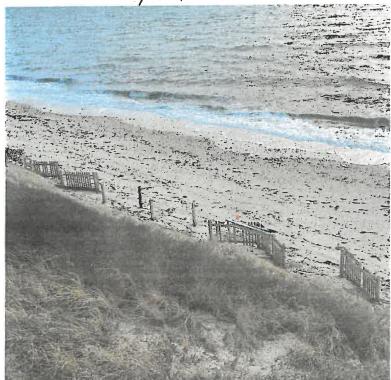






1/15/24 Swh

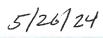
1/15/24 North





4/13/24







5/26/24



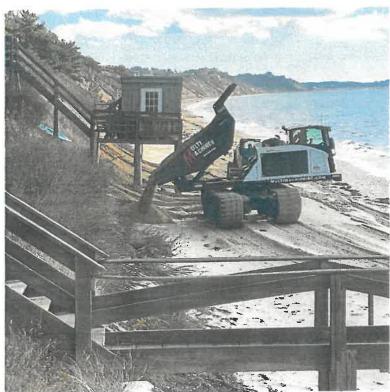
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12/2/24

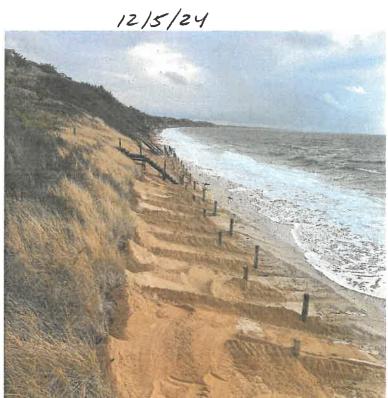


12/4/24



1214/24

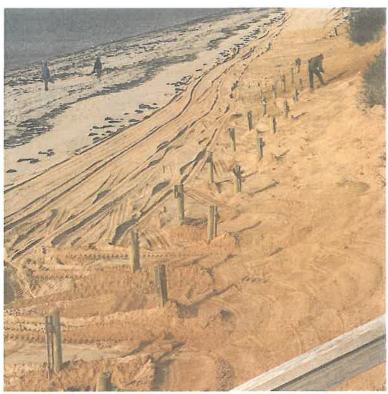




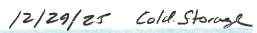
12/9/24



12/9/24



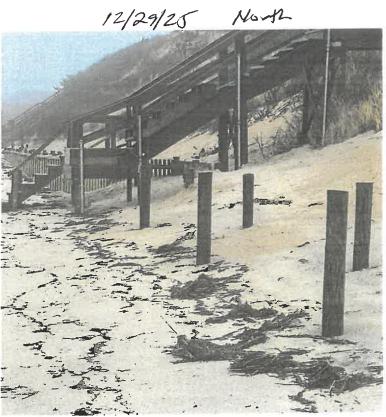
12/29/25 SOUT







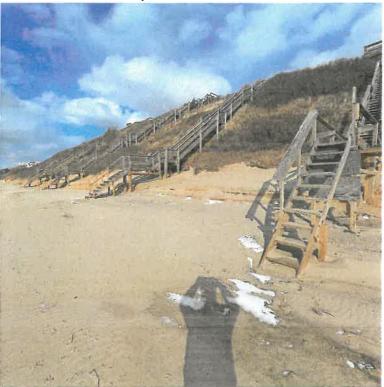




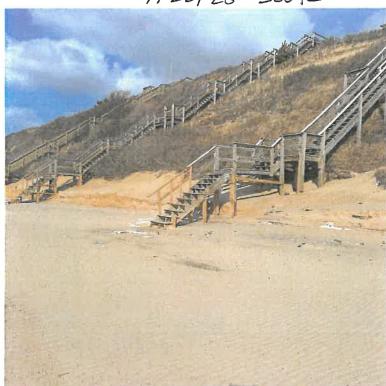
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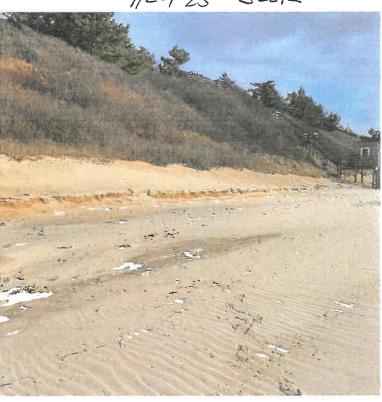
1/22/25 Suth



1/22/25 South



1/22/25 South



Arozana Davis

From: Stanley Humphries <stan@ecrwetlands.com>

Sent: Monday, March 24, 2025 4:24 PM

To: Arozana Davis

Cc: Eric Shapiro; Emily Beebe

Subject: RE: 522 Shore Rd. RDA reconsideration of seasonal removal

Hi Arozana,

In response to your request, please provide the Commissioners with the following information:

- 1. I misunderstood that the Association only wants a wooden landing and at two locations;
- 2. The third access in front of unit number 9 will be a seasonally removable ramp and small section of drift fence:
 - 3. The landings would be very heavy and would require a machine to lift and remove/replace every season;
 - 4. Storage space would need to be across the road;
 - 5. Removal and replacement process would be very disruptive to the dune vegetation and form;
 - 6. The landings would be constructed on helical piles and independent from the sand drift fence;
 - 7. The higher elevation would allow for sediment and water transport beneath the landings; and,
 - 8. Other landings at 566 and 556 Shore Rd. have not had the seasonal removal requirement.

The Association may have to resort to the previously allowed four access locations which requires fence panels to be removed. These openings would be open areas leading to increased erosion and damage to the coir envelopes and logs. By allowing the landings to stay year round (with the stairs removed on the waterside), all of the fence panels would remain in place and protective continuity of the system would stay intact.

Thank you for the opportunity to have the Commission reconsider the season removal of the access landings and allow them to stay on a year-round basis.



Stan Humphries Coastal Geologist Mobile: 617.543.1654 Email: stan@ecrwetlands.com 26 Union Street | PO Box 4012 Plymouth, MA 02361 www.ecrwedarkds.com



assachusetts Department of Environmental Protection

ureau of Resource Protection - Wetlands

DEP File Number Conservation Comphission/ Provided by DEP

75-1201)

VPA Form 8A – Request for Certificate of Compliance

MAR 04 2025



A. Project Information

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

Construction of Staurway to the beach at 63 Head of the

1. This request is being made by:



Name Stephe Mailing Address 757	u McKenner
Mailing Address 757	Slove A Rd
City/Town Breuster	State MA

Zip Code 0563)

Phone Number

2. This request is in reference to work regulated by a final Order of Conditions issued

Applicant Jay Merchant
DEP File Number SE - 675-1301

Dated

Upon completion of the work authorized in an Order of Conditions, the property owner must request a Certificate of Compliance from the issuing authority stating that the work or portion of the work has

been satisfactorily completed.

3. The project site is located at:

63 Head of the Mandow

City/Town

Truro

Street Address

Parcel/Lot Number

Assessors Map/Plat Number Map 33 Parcel 3

The final Order of Conditions was recorded at the Registry of Deeds for:

Property Owner (if different)

Book # 157

Page #5

County

Barnstable

Certificate (if registered land) D6C: 1511002 10-8-24 5. This request is for certification that (check one):

The work regulated by the above-referenced Order of Conditions has been satisfactorily completed.

the following portions of the work regulated by the above-referenced Order of Conditions have been satisfactorily completed (use additional paper if necessary).

01249

the above-referenced Order of Conditions has lapsed and is therefore no longer valid, and the work regulated by it was never started.

A. Project Information (cont.)

6. Did the Order of Conditions for this project, or the portion of the project subject to this request, contain an approval of any plans stamped by a registered professional engineer, architect, landscape architect, or land surveyor?



If yes, attach a written statement by such a professional certifying substantial compliance with the plans and describing what deviation, if any, exists from the plans approved in the Order.

No

B. Submittal Requirements

Requests for Certificates of Compliance should be directed to the issuing authority that issued the final Order of Conditions (OOC). If the project received an OOC from the Conservation Commission, submit this request to that Commission. If the project was issued a Superseding Order of Conditions or was the subject of an Adjudicatory Hearing Final Decision, submit this request to the appropriate DEP Regional Office (see http://www.mass.gov/eea/agencies/massdep/about/contacts/find-the-massdep-regional-office-for-your-city-or-town.html).



October 30, 2024

Jay Merchant 569 Main Street Brewster, MA 02631

RE: Stairway Installation at 63 Head of the Meadow Road – Truro

Dear Jay,

We inspected the installation of your stairs with relation to its location within the access easement you have. We found the stairs to be contained will within the limits of the easement.

If you have any questions or concerns please let us know, thank you.

Sincerely,

Arozana Davis

From:

Sent: To:

Subject:

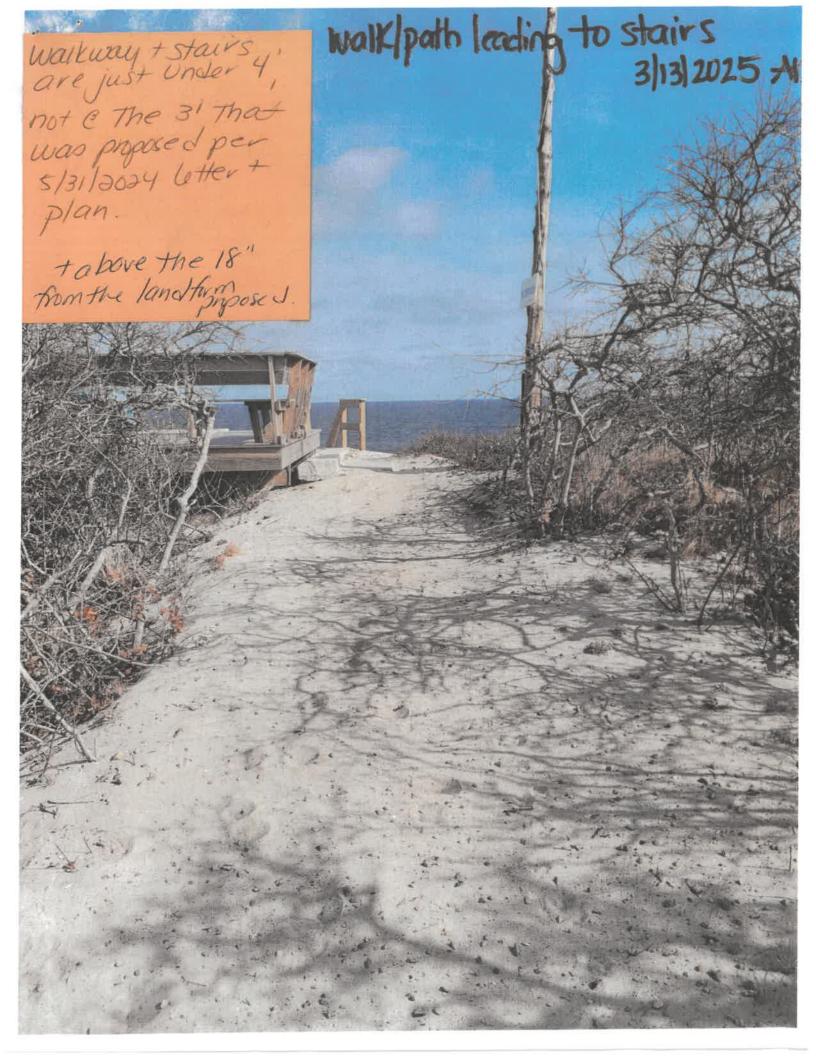
Follow Up Flag: Flag Status:	Follow up Flagged	stairway, but had the same question when I went out to look
at it. The builder said to distance between the p asked him about it, but have questions about t Thanks for react	hat per building code posts/rails. This is wh I was not involved in the construction, I wo hing out!	e, the stairway is usually constructed and measured by the my he constructed it that way. He seemed to be honest when any of the construction and had no oversight role in it. If you ould talk with Jay directly. His number is
Steve		- approvalabo noted 18"abore Brado, but stairway Waitway is a lot higher laround 4' in some places. } Davis < ADavis@truro-ma.gov> wrote:
On Thu, Mar 13, 2025 a	t 11:31 AM Arozana D	Davis < <u>ADavis@truro-ma.gov</u> > wrote:
Steve,		
only supposed to be 3'	wide? I took measurer	rning and everything looks ok, but I thought the walkway was ments of the stairs and the walkway and they are JUST under 4'. s is? The Order references 2 documents in the file, that both say
Best,		
Arozana		
PHONE	: 508-214-0202	

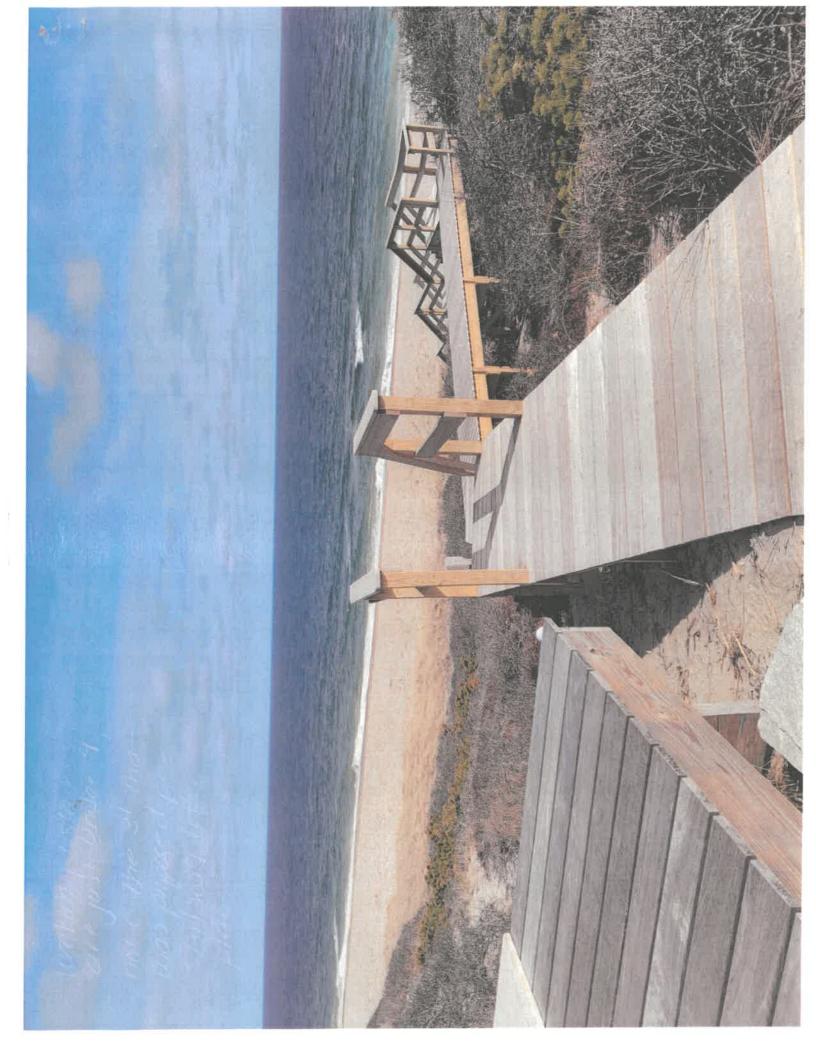
Stephen Mckenna

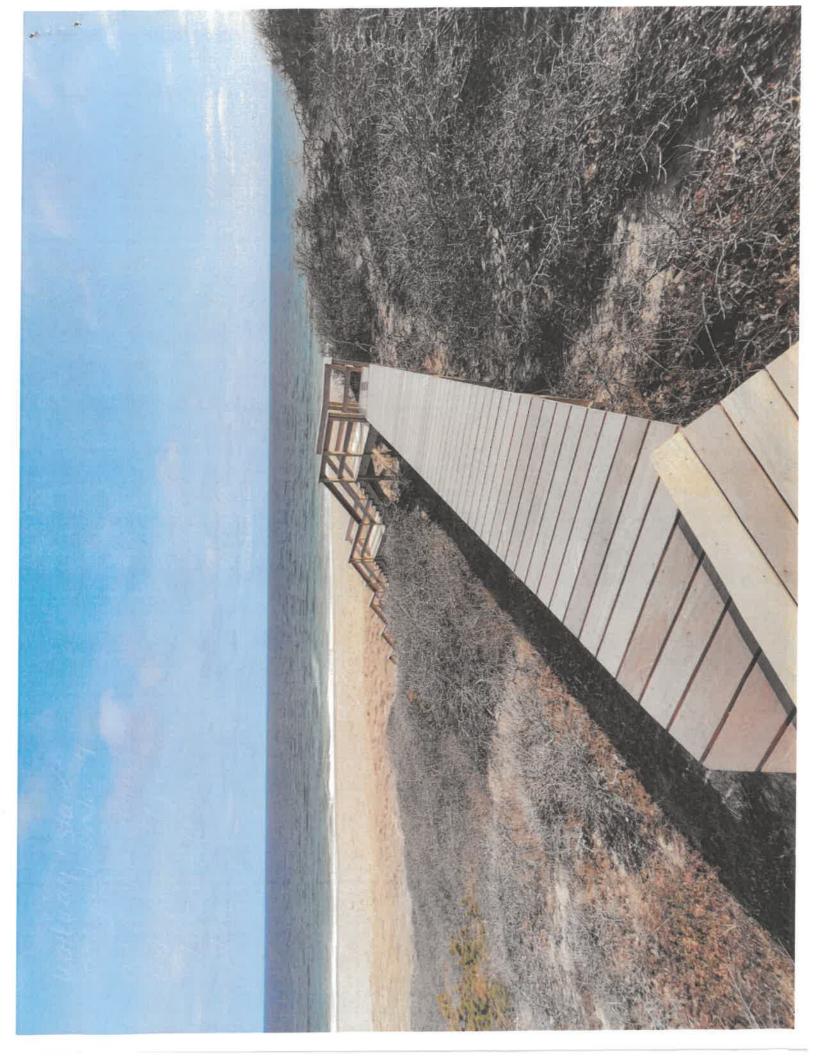
Arozana Davis

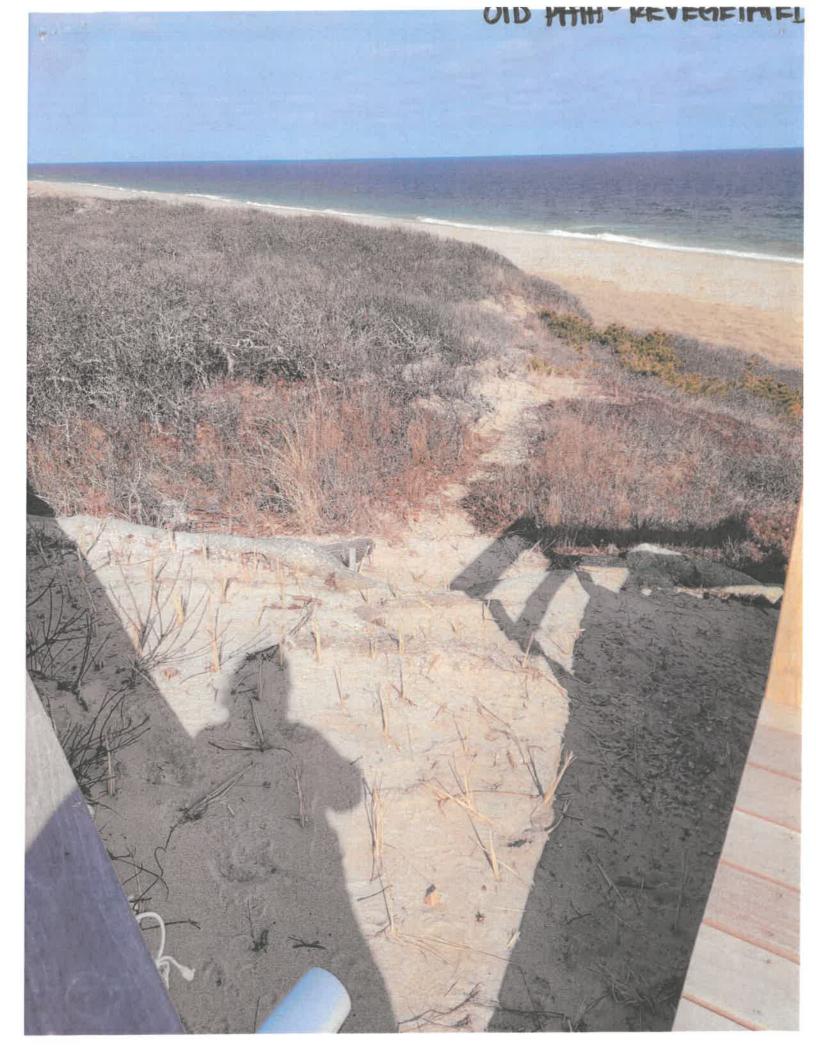
Thursday, March 13, 2025 2:49 PM

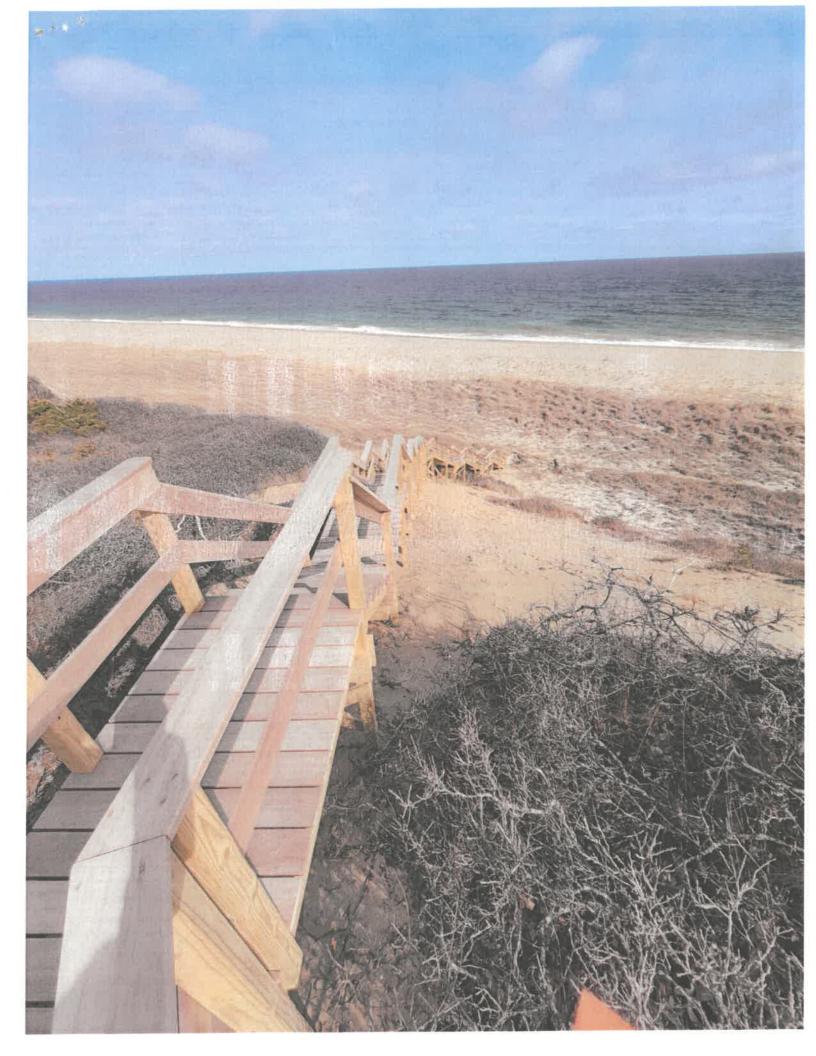
Re: 63 Head of the Meadow Rd, COC Request

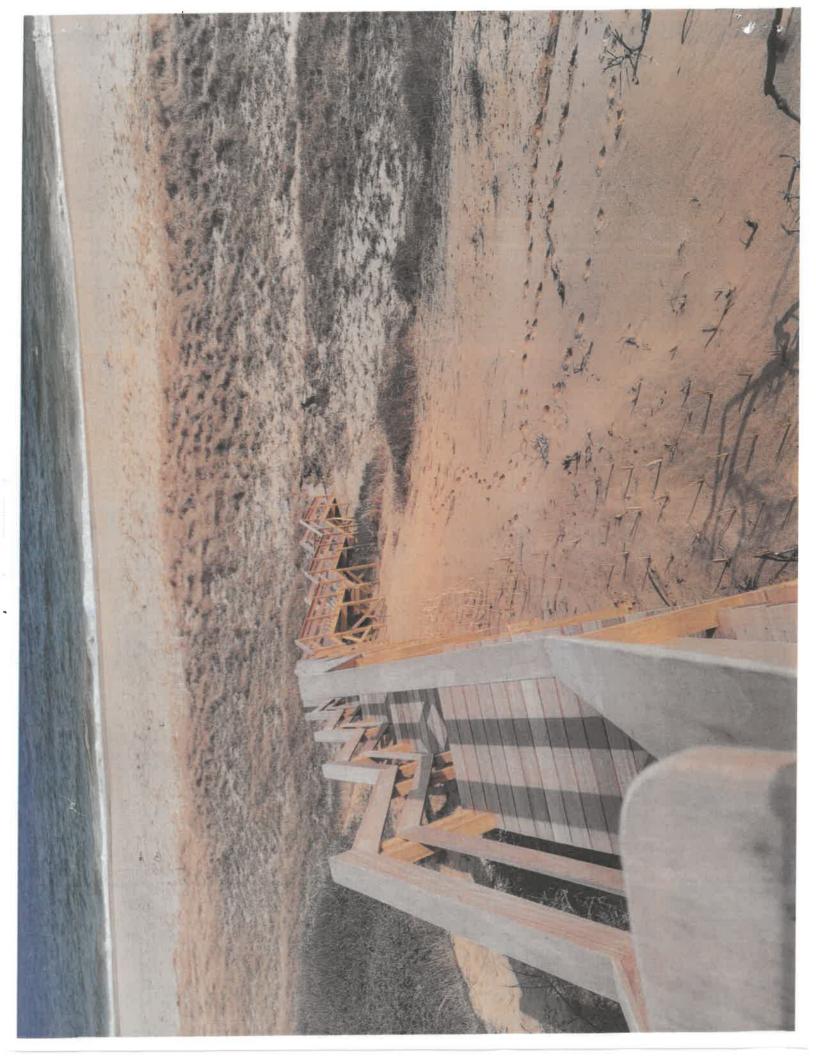












MAR 24 2025



PERMIT FEE \$20

TOWN OF TRURO

Conservation Commission

24 Town Hall Road P.O. Box 2030, Truro MA 02666

APPLICATION FOR	AD	MI	NIS	TR	ATIVE	REVIEW PE	RMIT
				$\overline{}$			

Applicant Name: Joshua Wagner dba Legacy Ecological	Telephone:	
Email address:		
Owner Name: James Eicher	Telephone:	
(If the applicant is not the owner of the property, written conse Application.)	ent to the work MUST be a	ttached to this
Address of subject property: 4 Valentina Way	Map:	Parcel: 60-22-0
Address of subject property: 4 Valentina Way Description of proposed work: Remove 2 dead trees threatening	ng structures. 1 Oak near bungalo	1 1 near shed.
Remove lower deadwood limbs from pine trees surrounding private pond according	ess point to eliminate occurances	of injury risk.
Drowingity to Decourage Areas: Trees for removal are approximately 74 at	nd 71 feet from waters' edge. Trees for trin	ming are at water's edge.

CRITERIA FOR ADMINISTRATIVE REVIEW (AR) PERMITS

Vegetation Projects:

- No removal of vegetation within any inland or coastal wetland resource.
- No uprooting of vegetation.
- No moving to the ground or clear cutting.
- Any proposed tree removal is demonstrated to be necessary, e.g., to protect existing structures, public safety, traffic visibility, etc.
- Mitigation may be required, i.e., an area to be planted with native species of trees or shrubs.
- Trees for removal must be tagged for inspection.
- No excavation by machinery is required or proposed.

Sheds and Other Construction Projects:

- No construction within any wetland resource except for minimal projects with the consent of the Conservation Agent.
- Any proposed new construction is more than 50' from the edge of resource area.
- No excavation by machinery is required or proposed.
- Foundation for structure shall be concrete blocks, sono tubes, diamond piers
- Repairs or replacement of existing structures remain within the same footprint.
- New structures must be less than 160 square feet.
- Only minimal projects such as biomimicry, sand nourishment, beach grass and planting of native species shall be allowed under this permit

Procedure:

- The fee shall be submitted with the Administrative Review Application.
- The Agent shall conduct a site visit, at which time the proposed project must be clearly defined in the field with stakes. Trees shall be flagged.

- If the Agent determines that all of the conditions of this Policy are met, the Agent may approve the Application. If the conditions of this policy are not met; the application is incomplete; or the field ID is inadequate the application is denied.
- If the Agent approves the application, such approval must be ratified by the Truro Conservation Commission prior to the issuance of this permit and prior to the commencement of any work.
- Any Property Owner, contractor or other agent of the owner performing any work
 pursuant to an Administrative Review permit shall have a copy of the permit
 available at the site at all times during the period that the work is being
 performed.
- Upon approval and ratification by the Commission, an Administrative Permit shall issue.
- The applicant shall notify the Commission prior to the start of the work, and must complete the work within thirty (30) days of issuance of the permit, unless otherwise permitted by the Commission.
- The Conservation Agent shall inspect the property to verify that the work completed is within the scope of the Approved Application.

By signing this permit application, you are acknowledging that you have read and understand the terms as stated herein. You are also aware that no work shall go forward

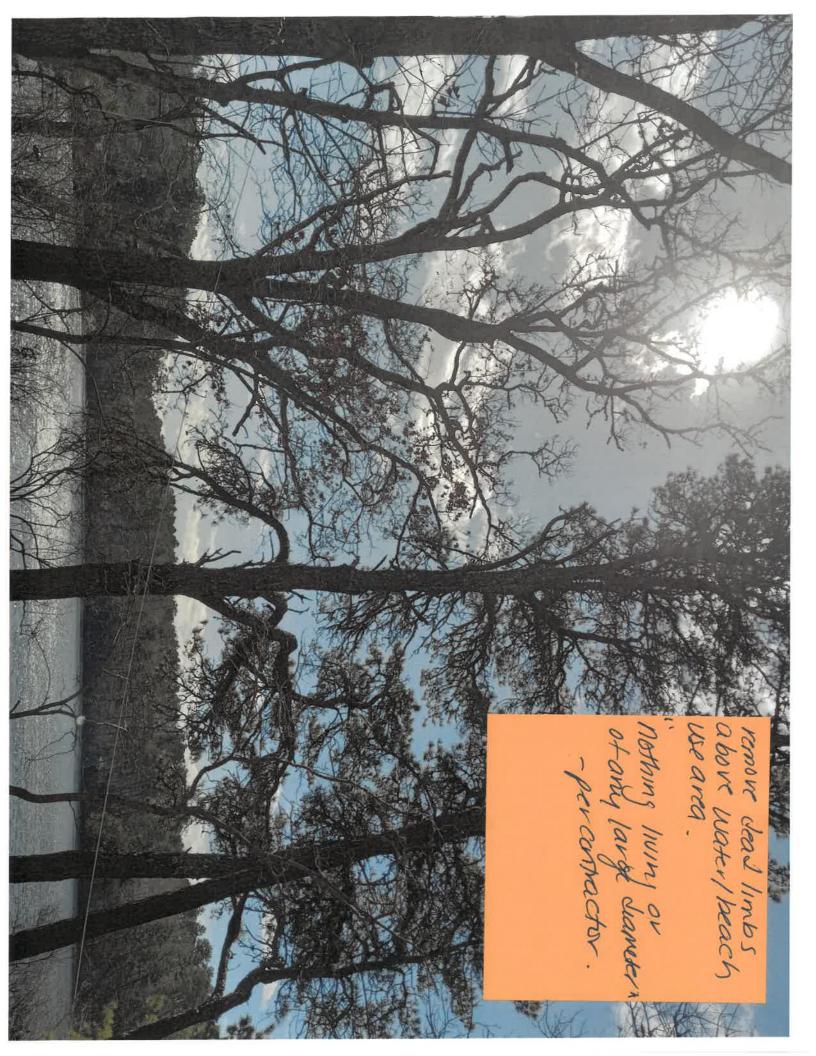
- Any work beyond the scope of the approved Administrative Review shall be subject to enforcement action.
- NOTE: Use of town property for beach access or staging of construction materials requires a permit issued by the Board of Selectmen.

Date:

Signature of Commission Chair or Agent:









PERMIT FEE \$20

TOWN OF TRURO

Conservation Commission

24 Town Hall Road P.O. Box 2030, Truro MA 02666

MAR 11 2025

APPLICATION FOR ADMINISTRATIVE REVIEW PERMIT

CASH	ركاا

Applicant Name: MANIE Re Lin / Pat CAllinan Telephone:
Email address:
Owner Name: Marie Bellin / Puf Callings Telephone:
(If the applicant is not the owner of the property, written consent to the work MUST be attached to this
Application.)
Address of subject property: 542 Shore Rd Map: 7 Parcel: 6
Description of proposed work: Brack replenishing / Sand on Bouch Infront
of House due to High Tides replace Brack Grass
Proximity to Resource Areas: we are the proximity to Resource Areas: we are the proximity to Resource Areas:
parrier beach

CRITERIA FOR ADMINISTRATIVE REVIEW (AR) PERMITS

Vegetation Projects:

- No removal of vegetation within any inland or coastal wetland resource.
- No uprooting of vegetation.
- No mowing to the ground or clear cutting.
- Any proposed tree removal is demonstrated to be necessary, e.g., to protect existing structures, public safety, traffic visibility, etc.
- Mitigation may be required, i.e., an area to be planted with native species of trees or shrubs.
- Trees for removal must be tagged for inspection.
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- New structures must be less than 160 square feet.
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day regues

- If the Agent determines that all of the conditions of this Policy are met, the Agent may approve the Application. If the conditions of this policy are not met; the application is incomplete; or the field ID is inadequate the application is denied.
- If the Agent approves the application, such approval must be ratified by the Truro Conservation Commission prior to the issuance of this permit and prior to the commencement of any work.
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- Upon approval and ratification by the Commission, an Administrative Permit shall issue.
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- The Conservation Agent shall inspect the property to verify that the work completed is within the scope of the Approved Application.
- Any work beyond the scope of the approved Administrative Review shall be subject to enforcement action.
- NOTE: Use of town property for beach access or staging of construction materials requires a permit issued by the Board of Selectmen.

By signing this permit application, you are acknowledging that you have read and understand the terms as stated herein. You are also aware that no work shall go forward until the permit has been issued by the Conservation Commission.

(Signature of Applicant) (Date)
Agent's Comments please fill out the beach nounshment form located on the Conservation website with your final nounshment number
Site Inspection Date: 4/1/2025 Application Approved: X Yes No
Conservation Commission Review: Meeting Date: 4/7/2025 Permit Approved: Yes No Conditions:
Signature of Commission Chair or Agent: Date:

Na Ball Pat Cally 3/11/2025

