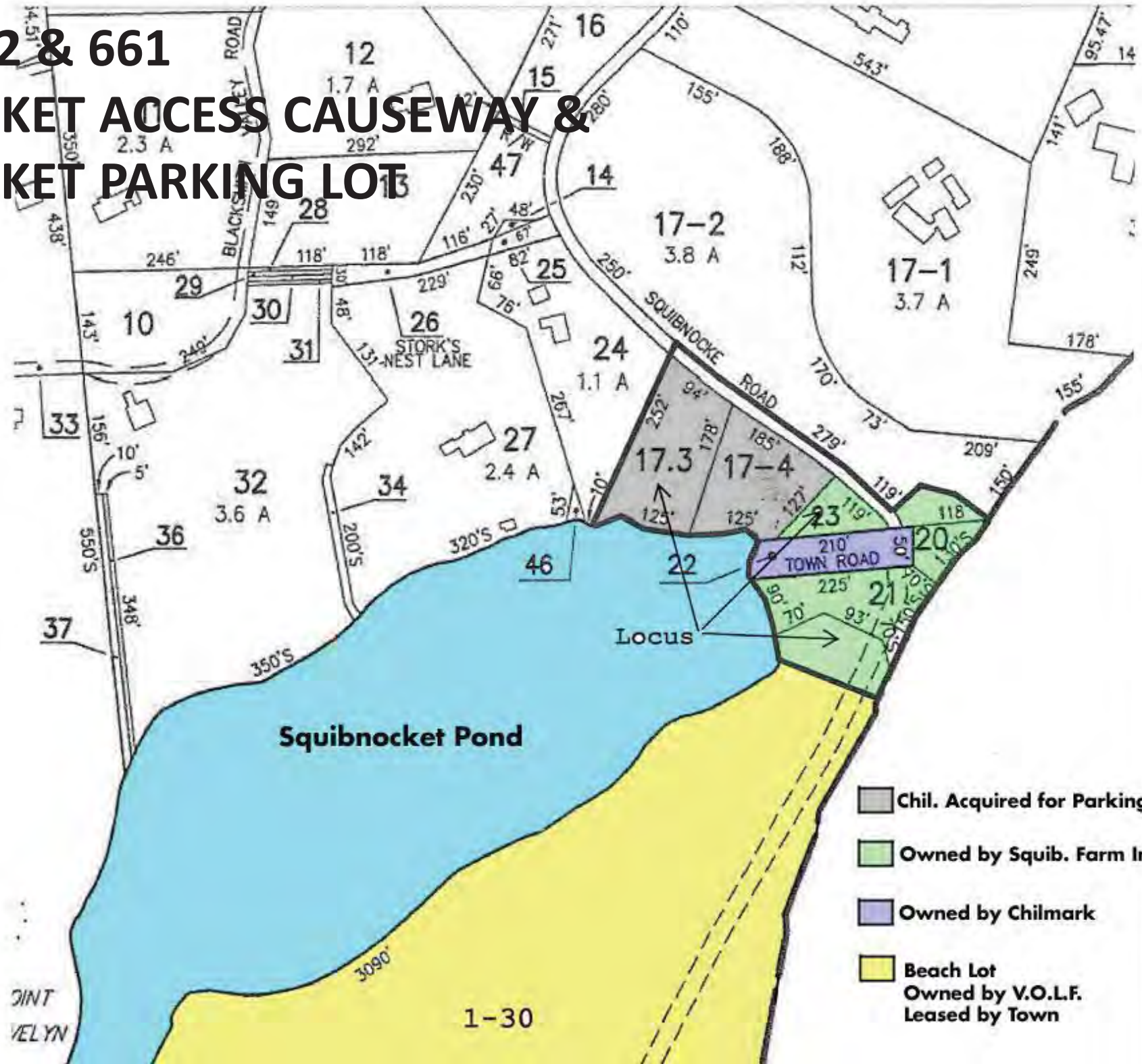




# DRI 338-M2 & 661 SQUIBNOCKET ACCESS CAUSEWAY & SQUIBNOCKET PARKING LOT



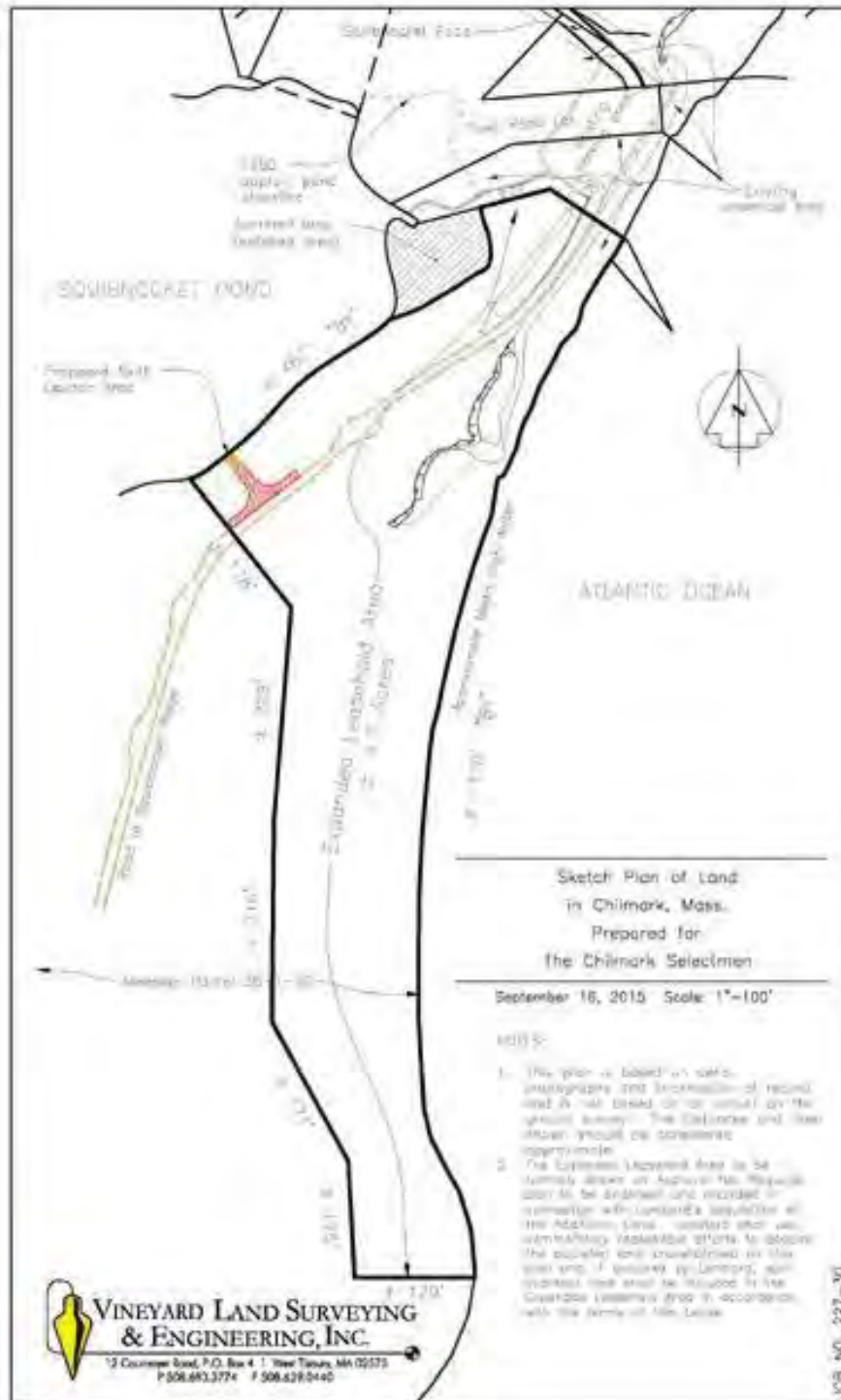
- Chil. Acquired for Parking
- Owned by Squib. Farm Inc.
- Owned by Chilmark
- Beach Lot  
Owned by V.O.L.F.  
Leased by Town

JINT  
VELYN

1-30



Figure 10 - Parking Concept South of Money Hill  
Squibnocket Beach, Chilmark, MA



Sketch Plan of Land  
in Chilmark, Mass.  
Prepared for  
the Chilmark Selectmen

September 16, 2015 Scale 1"=100'

- NOTES:
1. This plan is based on aerial photographs and information of record and is not based on or subject to the ground survey. The distance and line angles shown are approximate.
  2. The Easement to Levee Area is to be shown upon the Assessor's Map. The plan is to be amended and recorded in conformity with the Assessor's Map. The Assessor's Map is subject to the Assessor's Map and shall be included in the Assessor's Map in accordance with the terms of the Lease.

**VINEYARD LAND SURVEYING  
& ENGINEERING, INC.**  
13 Courser Road, P.O. Box 41, West Tisbury, MA 02575  
P 508.693.3774 F 508.629.0440

JOB NO. 227-30

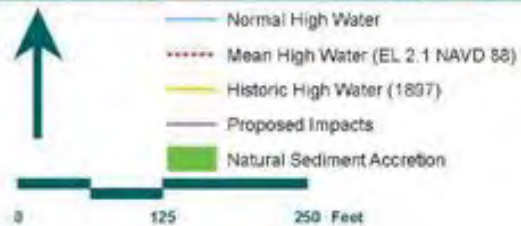


Figure 14 - Chapter 91 Jurisdiction  
Squibnocket Beach, Chilmark, MA

Source: MassGIS, VHB

# Alternative Access Considered

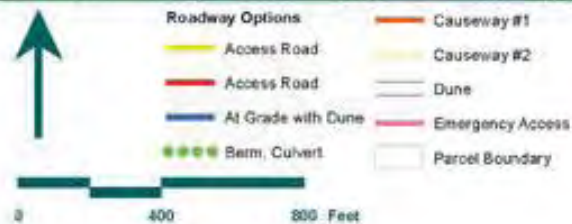
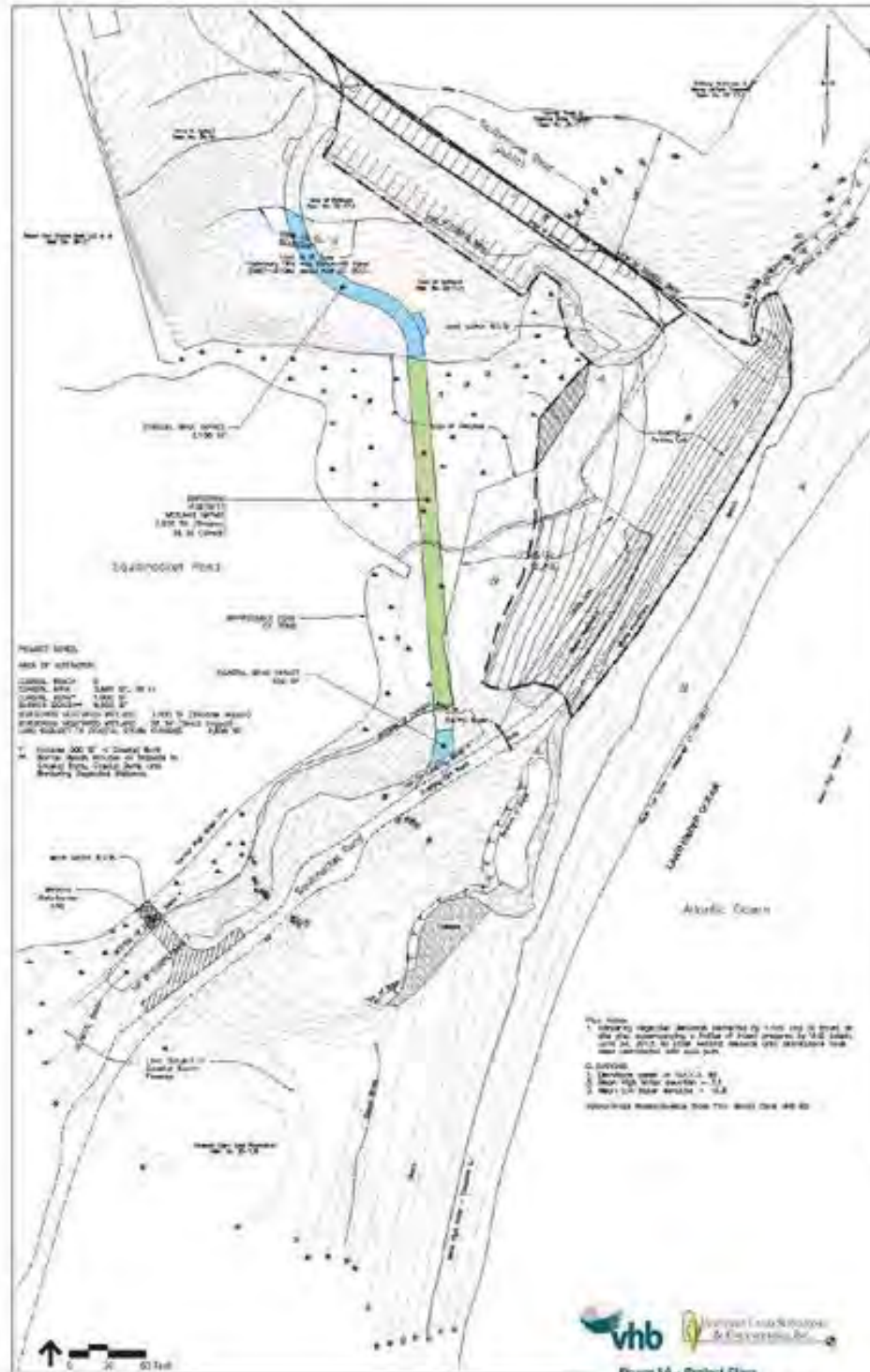


Figure 12 - All Access Alternatives  
Squibnocket Beach, Chilmark, MA

Source: MassGIS, VHB

# DRI 338-M2 Causeway & Access Road







# DRI 338-M2 & 661 SQUIBNOCKET ACCESS CAUSEWAY & SQUIBNOCKET PARKING LOT

## Squibnocket GIS Base Map



Chilmark (pub. 2012)

**POLY\_TYPE**

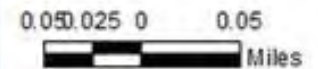
- Parcel
- Road Right of Way
- Water

**Chilmark Overlay Zoning DESCRIBE**

- Coastal District
- Main Roads District - Main Roads Zone
- Main Roads District - Special Uses Zone
- Main Roads Rd and Taquan Rd District
- Main Roads, Wachapreague & Scales Pt Parks District
- Special Places District
- Squibnocket Pond District
- Old and Abandoned Shore District

**Chilmark Coastal District ORIGINAME**

- Shore Zone
- Inland Zone



Disclaimer: This map is for general purposes only. The data is for informational purposes only and is not intended for use in any legal proceeding. The user shall be responsible for any use of the data for any other purpose. The user shall be responsible for any use of the data for any other purpose.

Created by:  
Date:  
File Name:  
Data Source:  
Coordinate System: Geographic Map Projection NAD 83, Meter

# Squibnocket GIS Base Map NHESP Habitat



Disclaimer: The map is for planning purposes only. The data are for informational purposes only and do not constitute a warranty or a policy recommendation. The user is responsible for how these data are used or interpreted by the user.

Created by:  
Date:  
Data Source:  
Coordinate System: See data file filename: NHDSP\_HABITAT

# Squibnocket GIS Base Map Wetlands



**Wetlands - Detailed**  
H VALDESC

[Blue]	OPEN WATER
[Light Blue]	SUMMER SLOUCH SYSTEM
[Yellow]	SUMMER SLOUCH COASTAL SECTION
[Light Green]	SUMMER SLOUCH COASTAL DUNE
[Light Green]	SUMMER SLOUCH MURKIN
[Light Green]	SUMMER SLOUCH MUDFLAT MURKIN
[Light Green]	SUMMER SLOUCH MARSH SWAMP
[Light Green]	SUMMER SLOUCH OPEN WATER
[Light Green]	SUMMER SLOUCH WOODED SWAMP DECIDUOUS
[Light Green]	SUMMER SLOUCH WOODED SWAMP MIXED TREES
[Light Green]	SUMMER SLOUCH WOODED SWAMP CONIFEROUS
[Light Green]	SOG
[Light Green]	COASTAL SECTION
[Light Green]	COASTAL DUNE
[Light Green]	COASTAL BANK BLUFF OR SCARP
[Light Green]	ROCKY INTERTIDAL SHORE
[Light Green]	CRINOID SOG
[Light Green]	SHALLOW MUDFLAT/SHOALS OR FAY
[Light Green]	DEEP MURKIN
[Light Green]	SALT MURKIN
[Light Green]	TIDAL FLAT
[Light Green]	SHRUB SWAMP
[Light Green]	WOODED SWAMP DECIDUOUS
[Light Green]	WOODED SWAMP MIXED TREES
[Light Green]	WOODED SWAMP CONIFEROUS
[Light Green]	Marsh Bog
[Light Green]	Trampled marsh
[Light Green]	Grassland bog
[Light Green]	Salt Marsh
[Light Green]	Open Water
[Light Green]	Reservoir with FISH
[Light Green]	Tidal Flat
[Light Green]	Beach Dune



Disclaimer: The map is for planning purposes only. The data are for reference only and are not intended for a regulatory interpretation. The user planning is for a specific site for how these data are used or interpreted is the user's responsibility.

Created by:  
Date:  
File Name:  
Data Source:  
Coordinate System: *See data file filename for details*

# Squibnocket GIS Base Map Open Space



Open Space (updated Sep 2016)

Level of Protection

- Respect
- Unad
- Sim Unad
- None
- Unknown



Disclaimer: The map is for planning purposes only. The data are for accurate boundary determination or a portion thereof. The user is responsible for determining the accuracy for how these data are used or interpreted by the user.

Created by:  
Date:  
File Name:  
Data Source:  
Coordinate System: StatePlane, Mass NAD83, NAD83, Meters

# Squibnocket GIS Base Map Squibnocket Watershed



Disclaimer: The map is for planning purposes only. The data are for informational purposes only and are not intended for any other use. The user is responsible for how these data are used or interpreted by the user.

Created by:  
Date:  
File Name:  
Data Source:  
Coordinate System: [See data file filename: 102501.mxd](#)

1938



1972

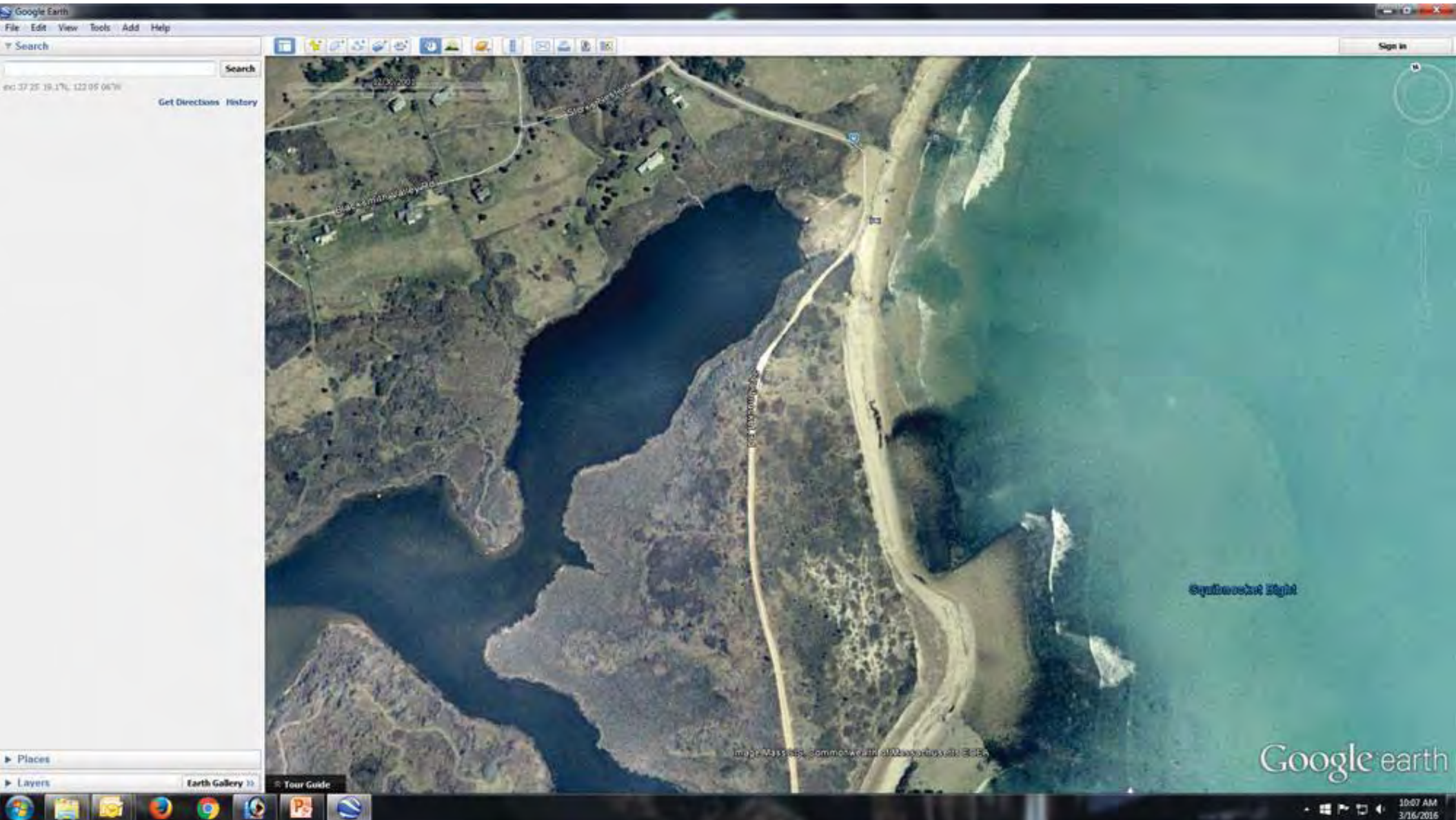


# Google 1995

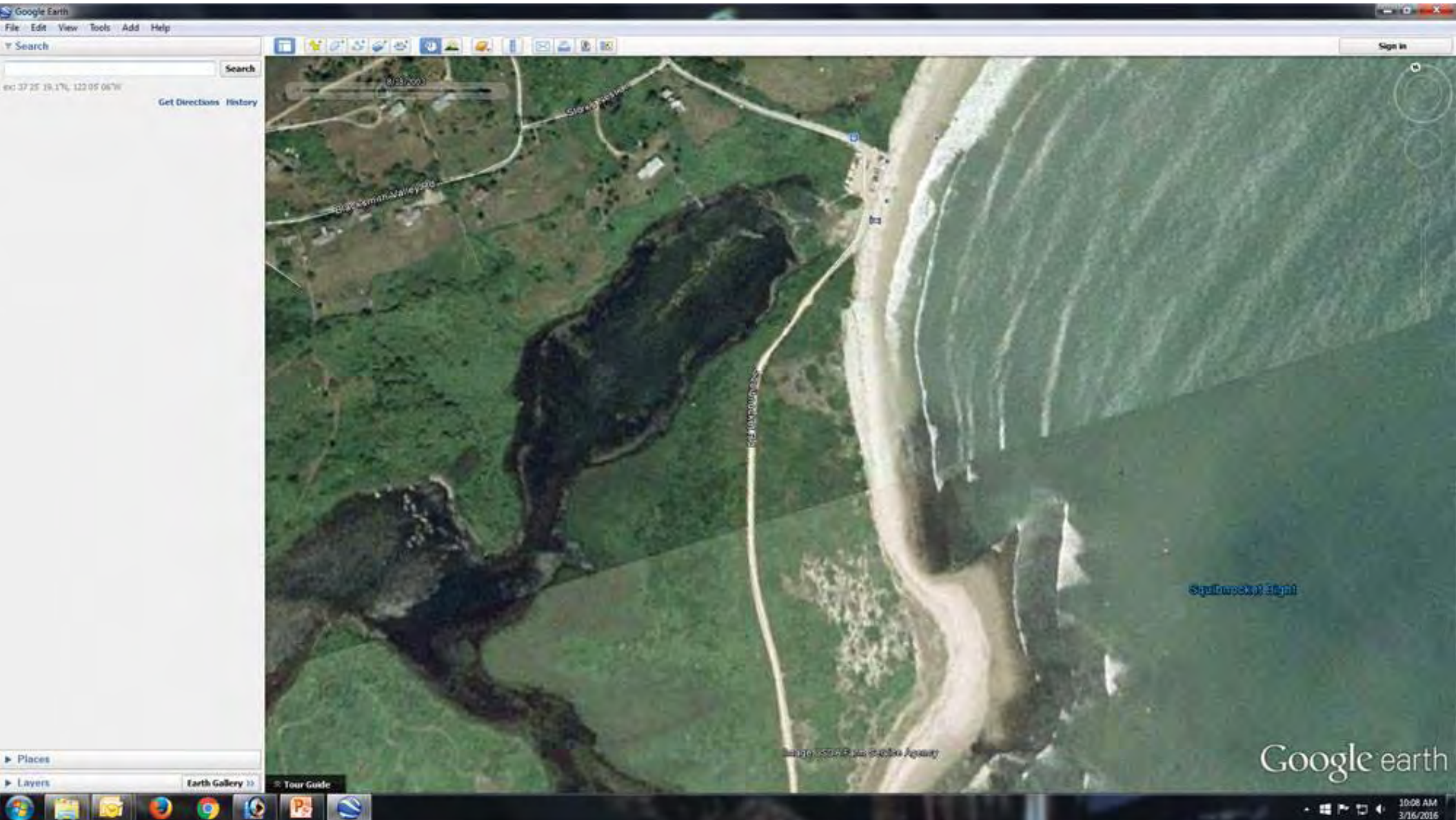




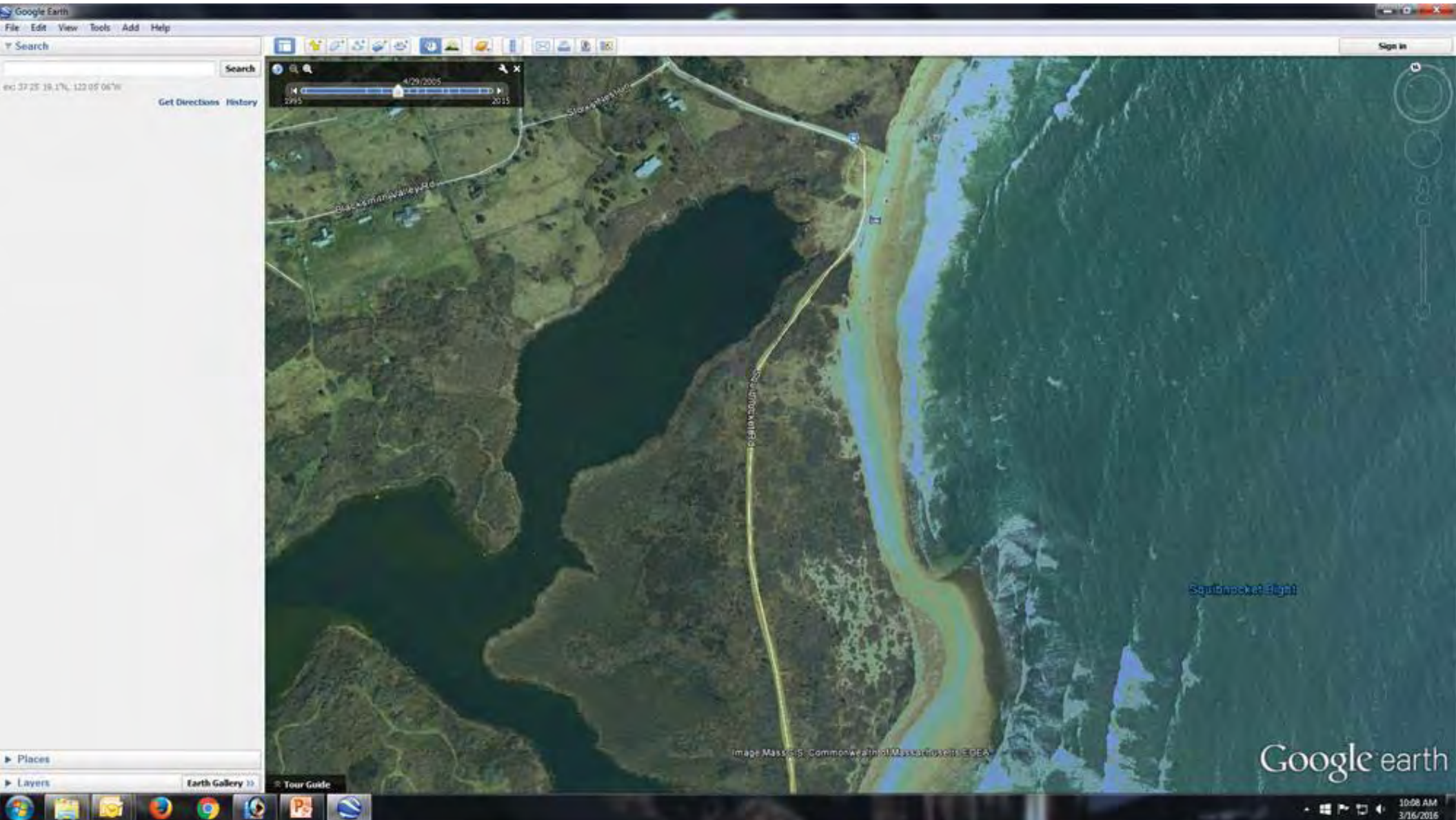
# Google 2001



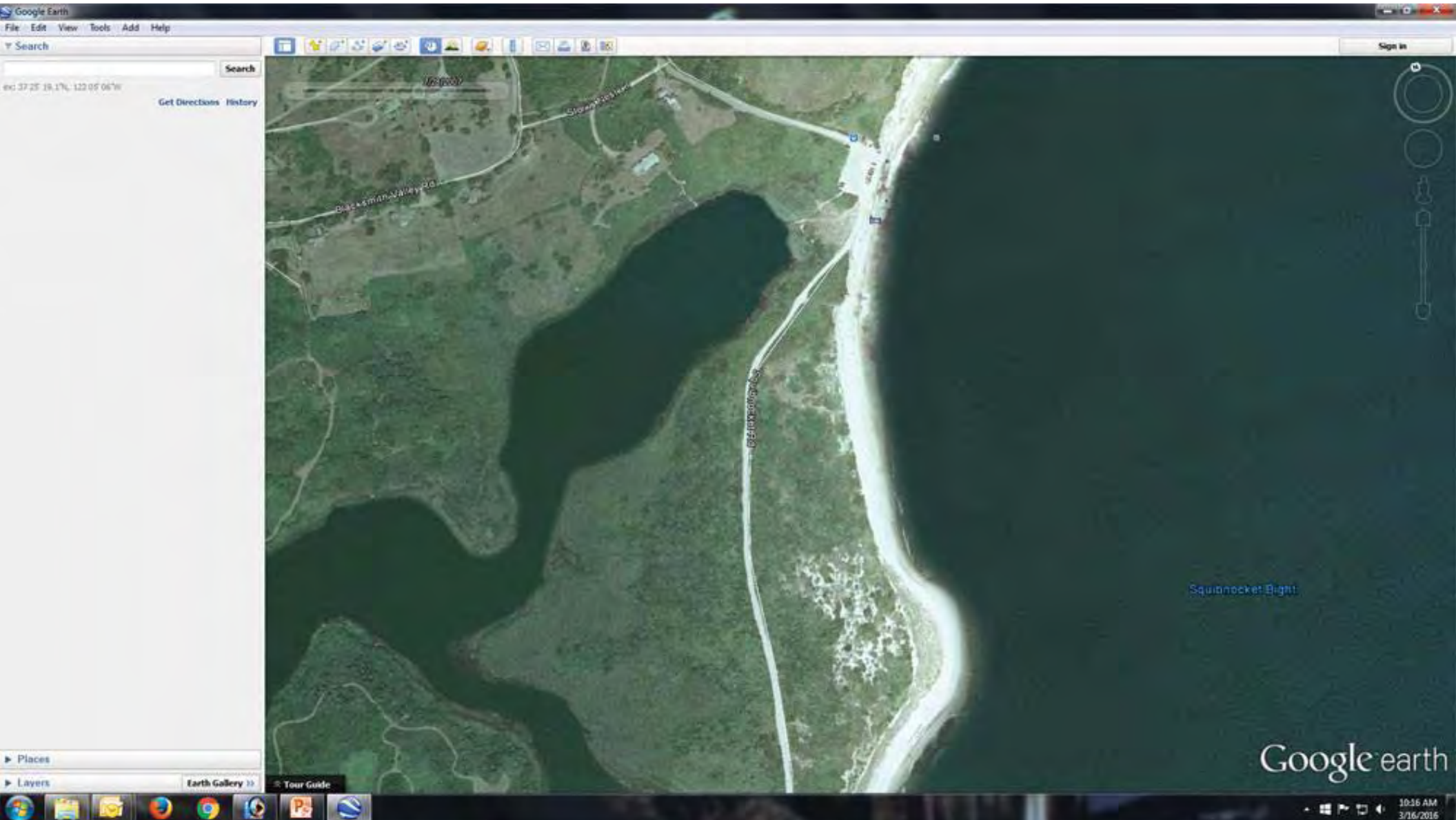
# Google 2003



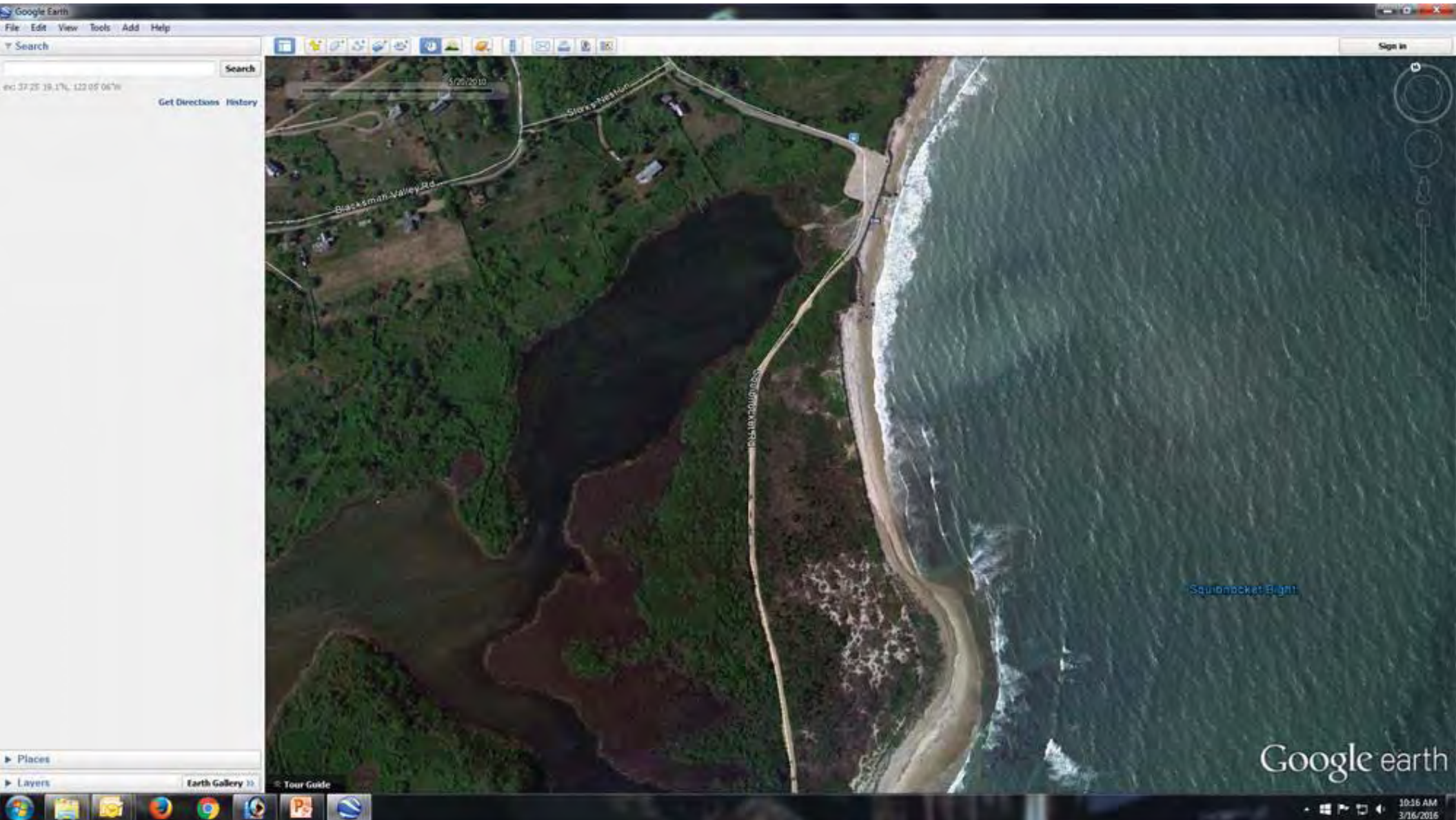
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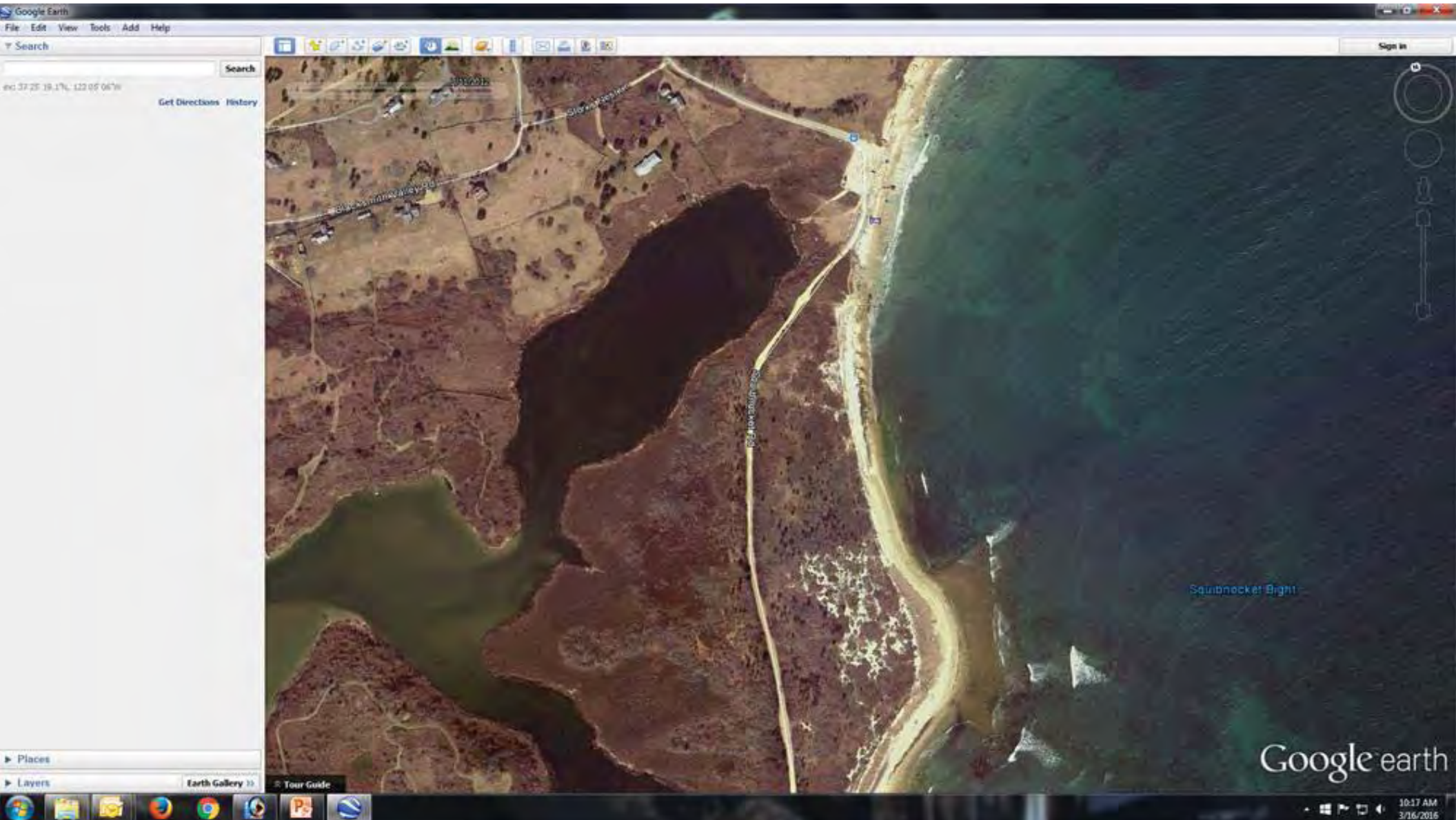
# Google 2007



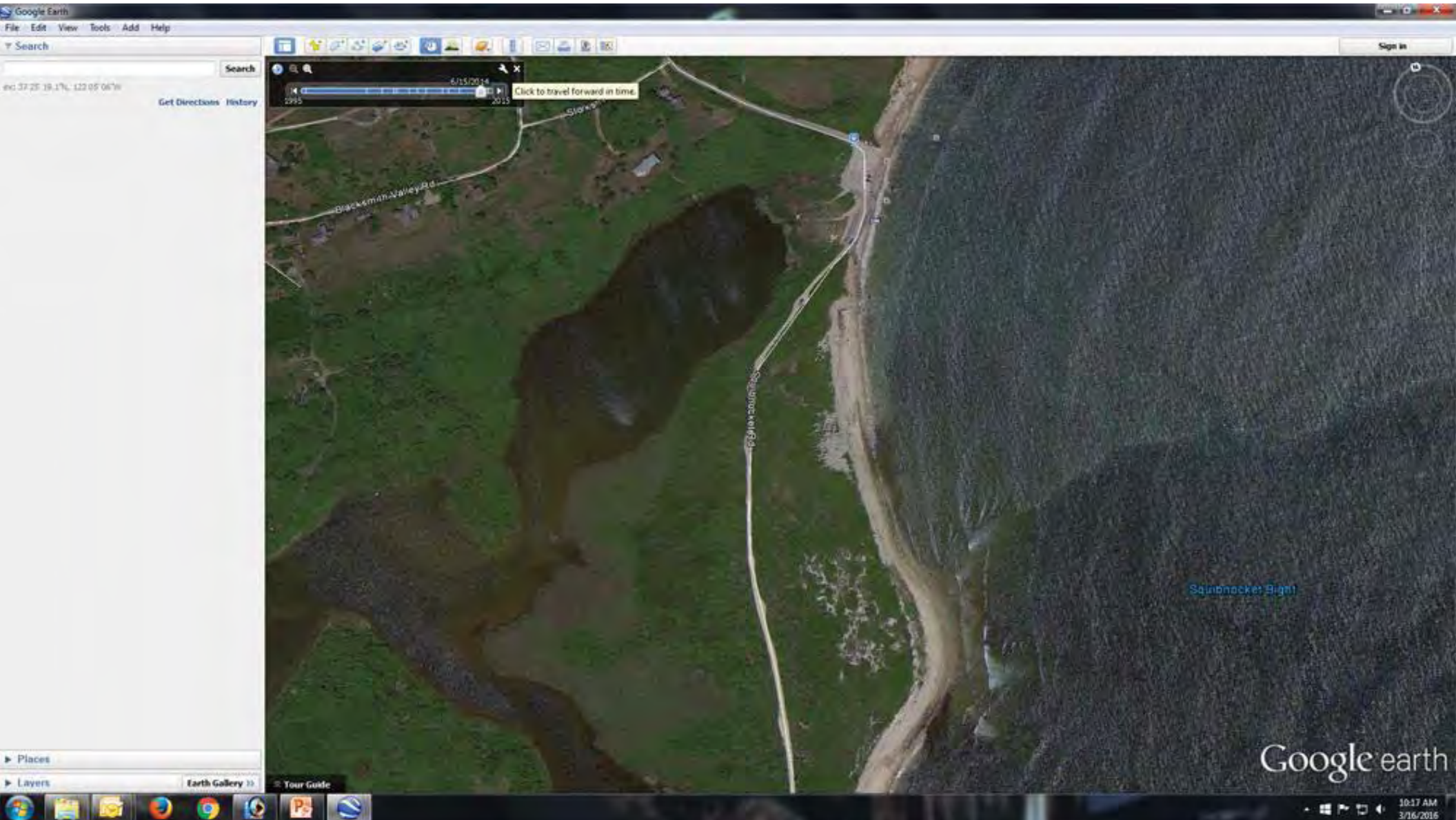
# Google 2010



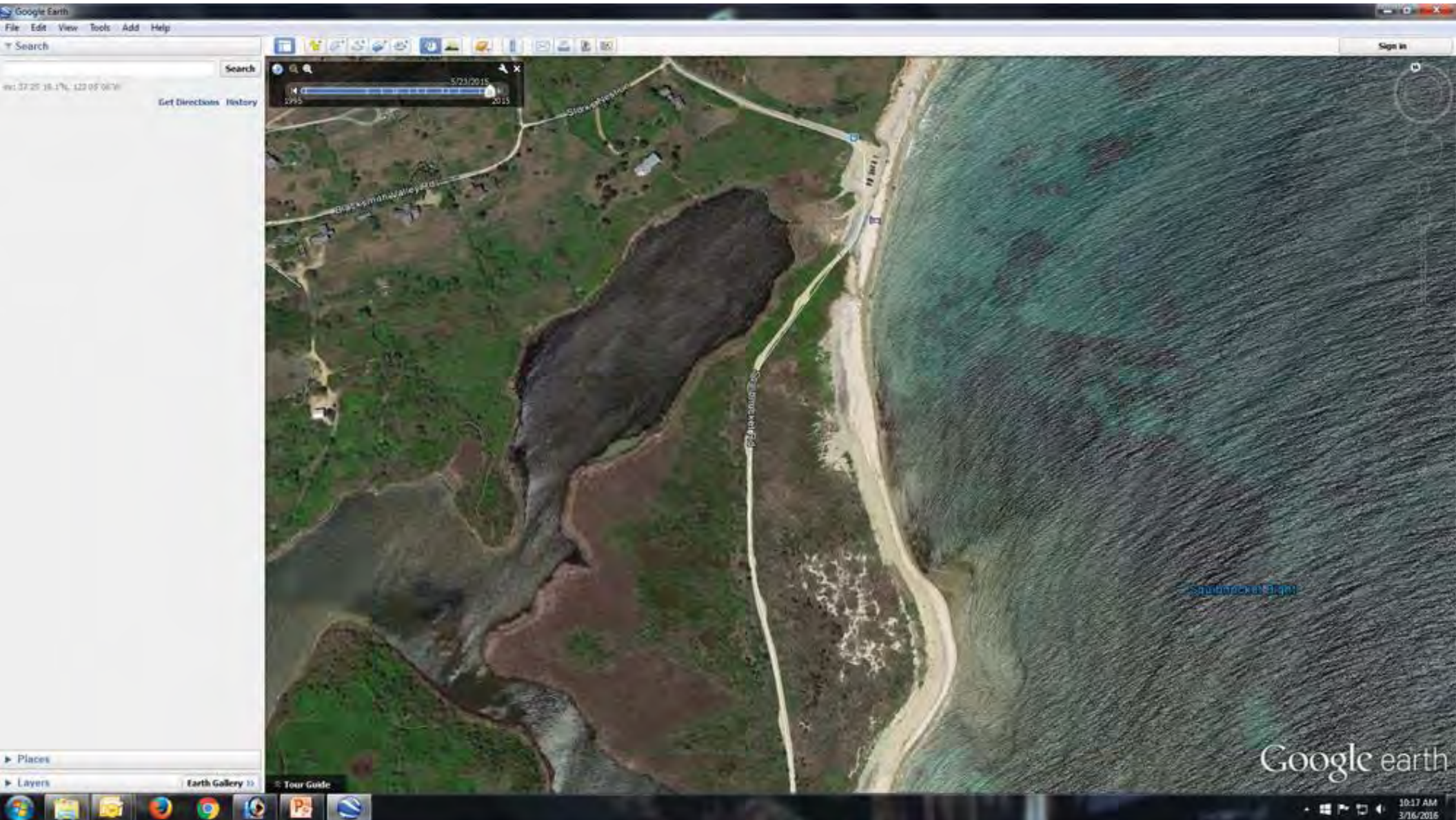
# Google 2012



# Google 2014



# Google 2015









Legend  
of  
Existing  
Photos  
submitted  
by the  
Applicant.  
(Photos  
follow)

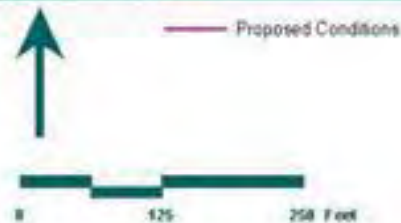


Figure 6 - Photo Location Map  
Squibnocket Beach, Chilmark, MA

Source: MassGIS, VHB



1 – Looking south to southeast across the Existing Town Lot



2 - Looking east from adjacent property to the west



3 - Looking north to northeast from Money Hill



4 - Looking south to southeast along the existing Causeway Revetment



5 – Revetment settlement following severe storm event





6 – Parking lot debris and damage following a severe storm event



























































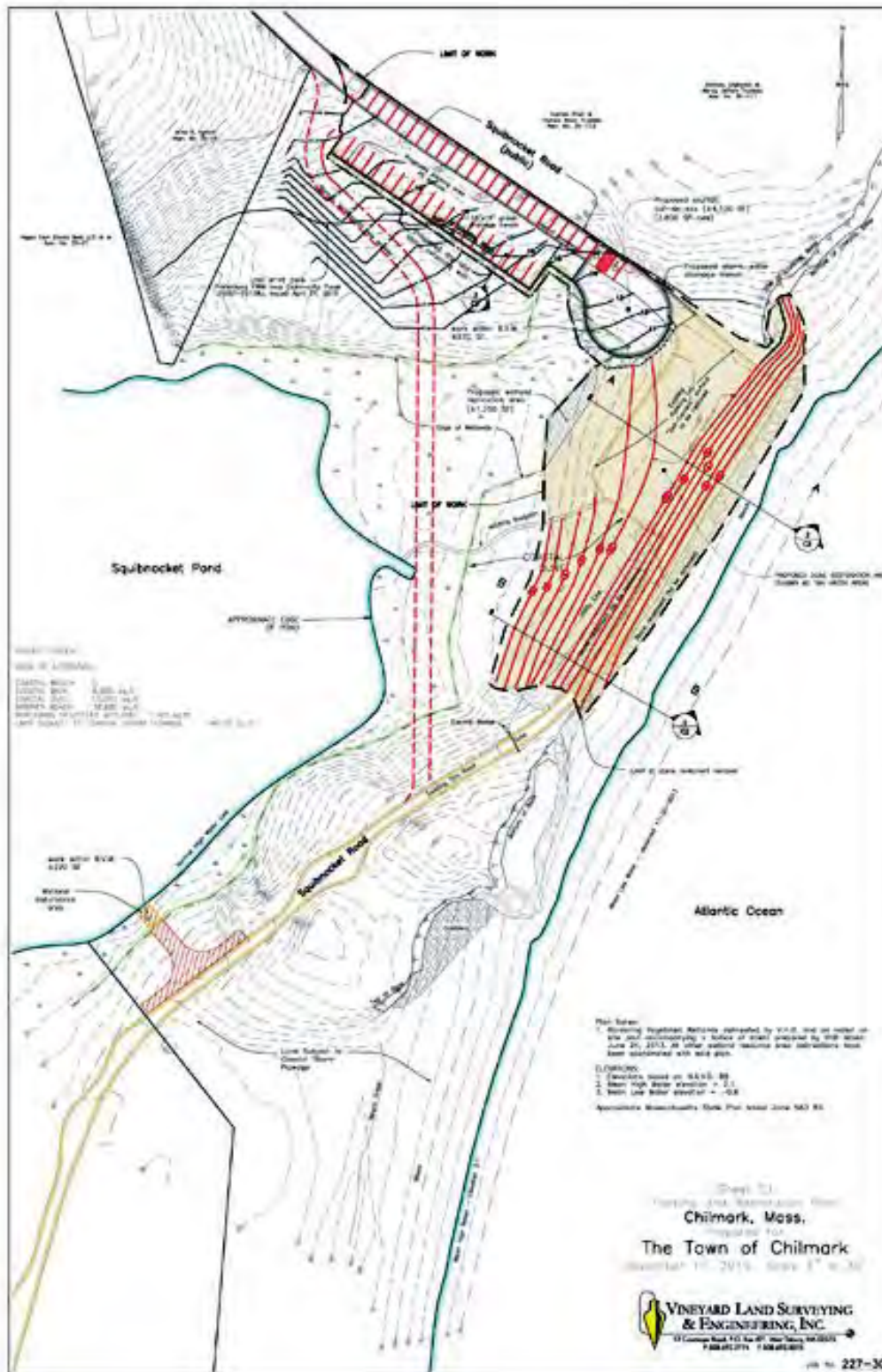








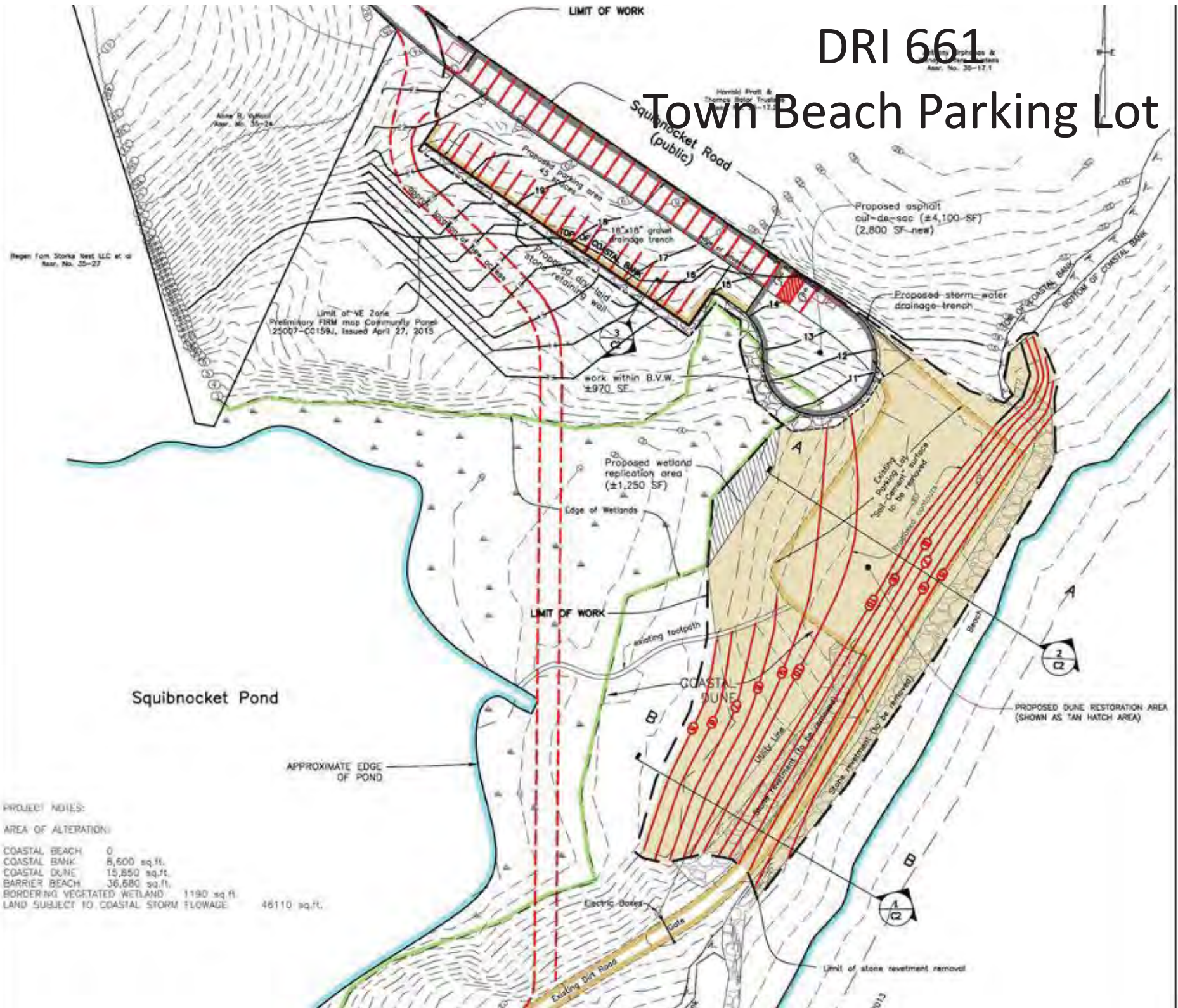
# DRI 661 Town Parking Lot & Skiff Launch Plan





DRI 661

# Town Beach Parking Lot



Regen Tom Storka West LLC et al  
Map No. 35-27

Alma D. Vignoli  
Map No. 35-24

Havahil Pratt &  
Thomas Baker Trust  
Map No. 35-17.1

Limit of VE Zone  
Preliminary FIRM map Community Panel  
25007-C01591, Issued April 27, 2015

work within B.V.W.  
±970 SF

Proposed wetland  
replication area  
(±1,250 SF)

Edge of Wetlands

LIMIT OF WORK

Squibnocket Pond

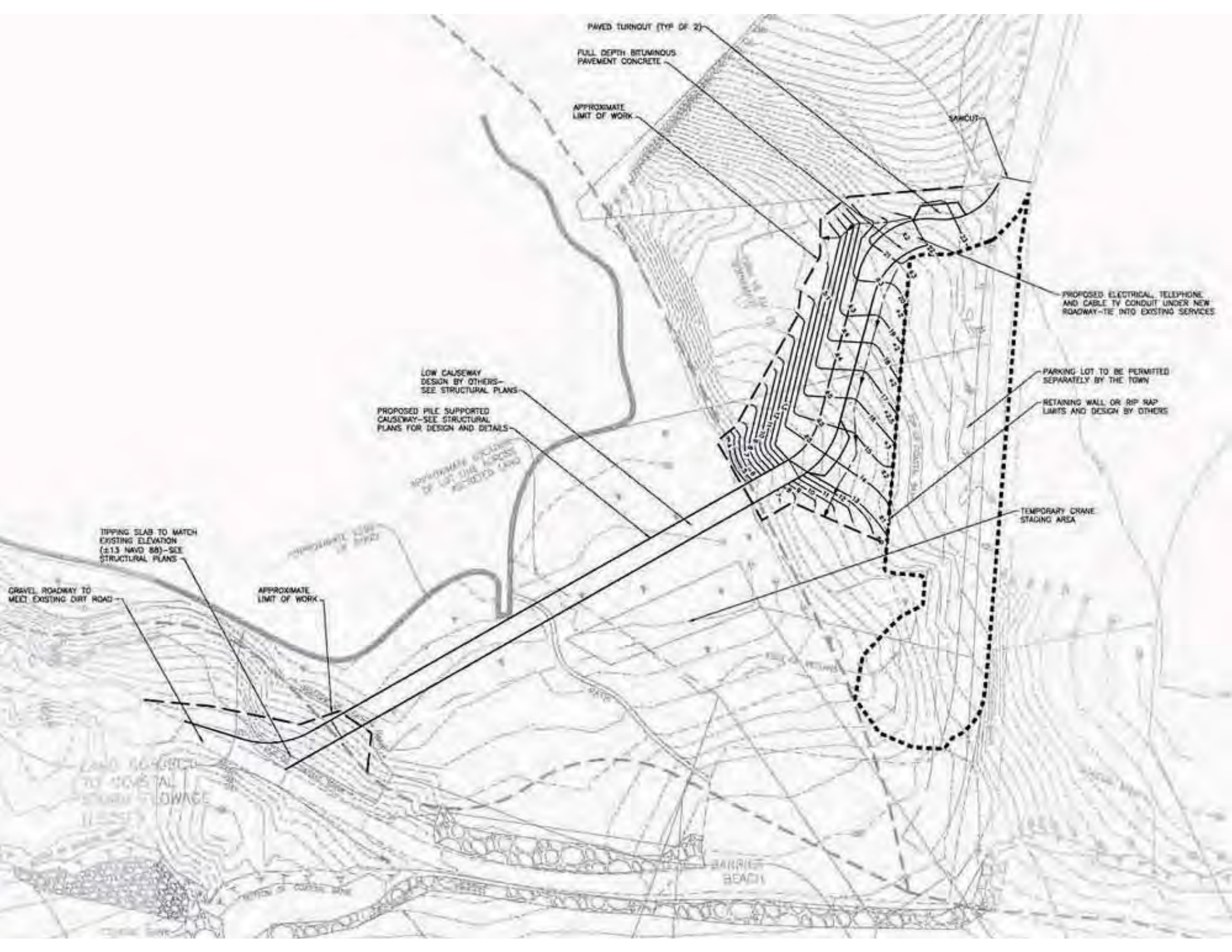
APPROXIMATE EDGE  
OF POND

**PROJECT NOTES:**

**AREA OF ALTERATION:**

COASTAL BEACH	0
COASTAL BANK	8,600 sq.ft.
COASTAL DUNE	15,850 sq.ft.
BARRIER BEACH	36,680 sq.ft.
BORDERING VEGETATED WETLAND	1190 sq.ft.
LAND SUBJECT TO COASTAL STORM FLOWAGE	46110 sq.ft.





PAVED TURNOUT (TYP OF 2)

FULL DEPTH BITUMINOUS  
PAVEMENT CONCRETE

APPROXIMATE  
LIMIT OF WORK

SAWCUT

PROPOSED ELECTRICAL, TELEPHONE,  
AND CABLE TV CONDUIT UNDER NEW  
ROADWAY--TIE INTO EXISTING SERVICES

LOW CAUSEWAY  
DESIGN BY OTHERS--  
SEE STRUCTURAL PLANS

PROPOSED PILE SUPPORTED  
CAUSEWAY--SEE STRUCTURAL  
PLANS FOR DESIGN AND DETAILS

APPROXIMATE ELEVATION  
OF LEFT SIDE HIGHEST  
PROPOSED LAND

PARKING LOT TO BE PERMITTED  
SEPARATELY BY THE TOWN

RETAINING WALL OR RIP RAP  
LIMITS AND DESIGN BY OTHERS

TEMPORARY CRANE  
STAGING AREA

TIPPING SLAB TO MATCH  
EXISTING ELEVATION  
(±1.5 NAVD 88)--SEE  
STRUCTURAL PLANS

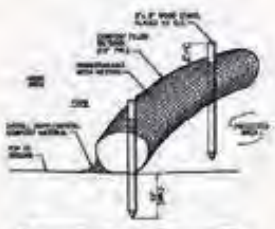
GRAVEL ROADWAY TO  
MEET EXISTING DIRT ROAD

APPROXIMATE  
LIMIT OF WORK

LAND ACQUIRED  
TO ACCOMMODATE  
STORM DRAINAGE

BARRIER  
BEACH

SECTION OF CORAL REEF



- Riblock**
1. ALTERNATE SOIL OR PLANTER STRIP, OR IMPROVED SOIL.
  2. FILTER FABRIC SHALL BE 2.0mm (3/8") MINIMUM.
  3. FILTER FABRIC SHALL BE 2.0mm (3/8") MINIMUM.
  4. FILTER FABRIC SHALL BE 2.0mm (3/8") MINIMUM.
  5. FILTER FABRIC SHALL BE 2.0mm (3/8") MINIMUM.



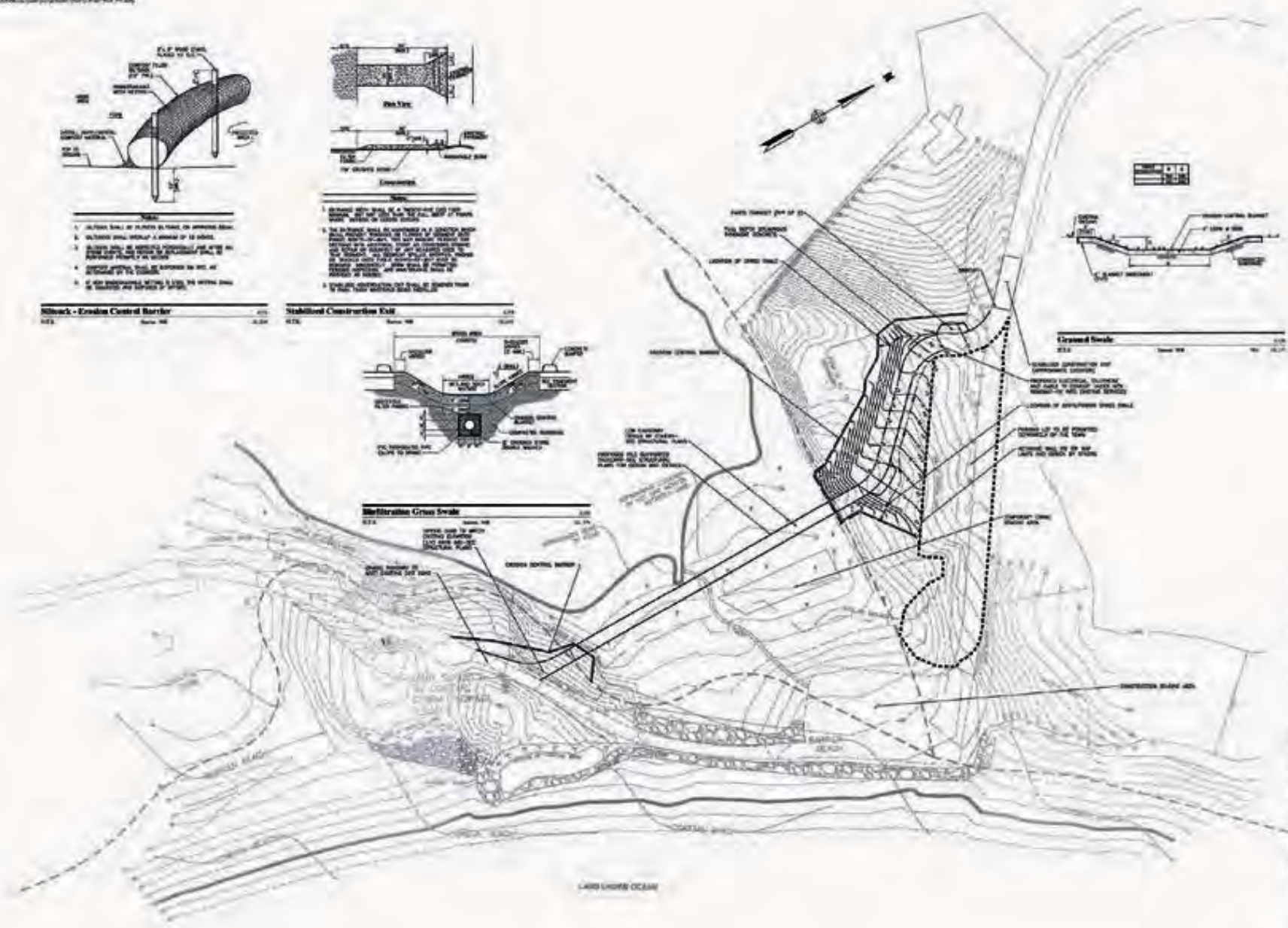
- Stabilized Construction Easement**
1. STABILIZED CONSTRUCTION EASEMENT SHALL BE 12" MINIMUM.
  2. STABILIZED CONSTRUCTION EASEMENT SHALL BE 12" MINIMUM.
  3. STABILIZED CONSTRUCTION EASEMENT SHALL BE 12" MINIMUM.
  4. STABILIZED CONSTRUCTION EASEMENT SHALL BE 12" MINIMUM.
  5. STABILIZED CONSTRUCTION EASEMENT SHALL BE 12" MINIMUM.

**Riblock - Erosion Control Barrier**  
1/11/11 1/11/11

**Stabilized Construction Easement**  
1/11/11 1/11/11



**Stabilized Construction Easement**  
1/11/11 1/11/11



**Grass Swale**  
1/11/11 1/11/11



**Squibnocket Road**


Notice of Intent December 18, 2011

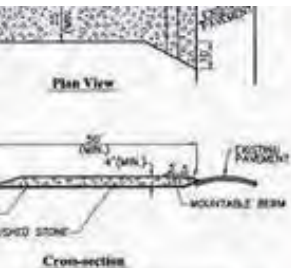
Map for Construction  
Squibnocket Farms  
Erosion Control and  
Reservoir Areas



**ERC-1**

1 1

1/11/11



**Notes:**

1. EXIT SHALL BE A TWENTY-FIVE (25) FOOT WIDE AND NOT LESS THAN THE FULL WIDTH AT POINTS 200' OR LESS OCCURS.

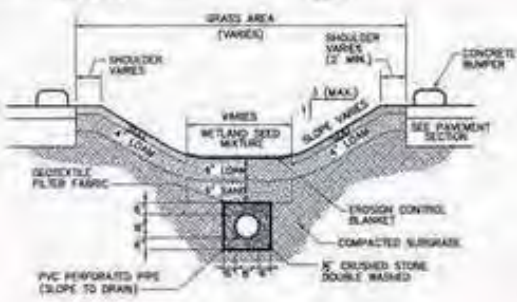
2. EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT DURING 25-OF-WAY. THIS MAY REQUIRE PERIODIC TOPPING WITH ADDITIONAL STONE AS CONDITIONS DEMAND OR CLEANOUT OF ANY MEASURES USED TO PREVENT. ALL SEDIMENT SPILLED, DROPPED, WASHED INTO PUBLIC RIGHTS-OF-WAY MUST BE IMMEDIATELY REMOVED. BERM SHALL BE PERMITTED TO REMAIN AND MAINTENANCE SHALL BE NEEDED.

3. CONSTRUCTION CURB SHALL BE REMOVED FROM EXIT AFTER MATERIALS BEING INSTALLED.

**Construction Exit**

Scale: 1/8" = 1'-0"

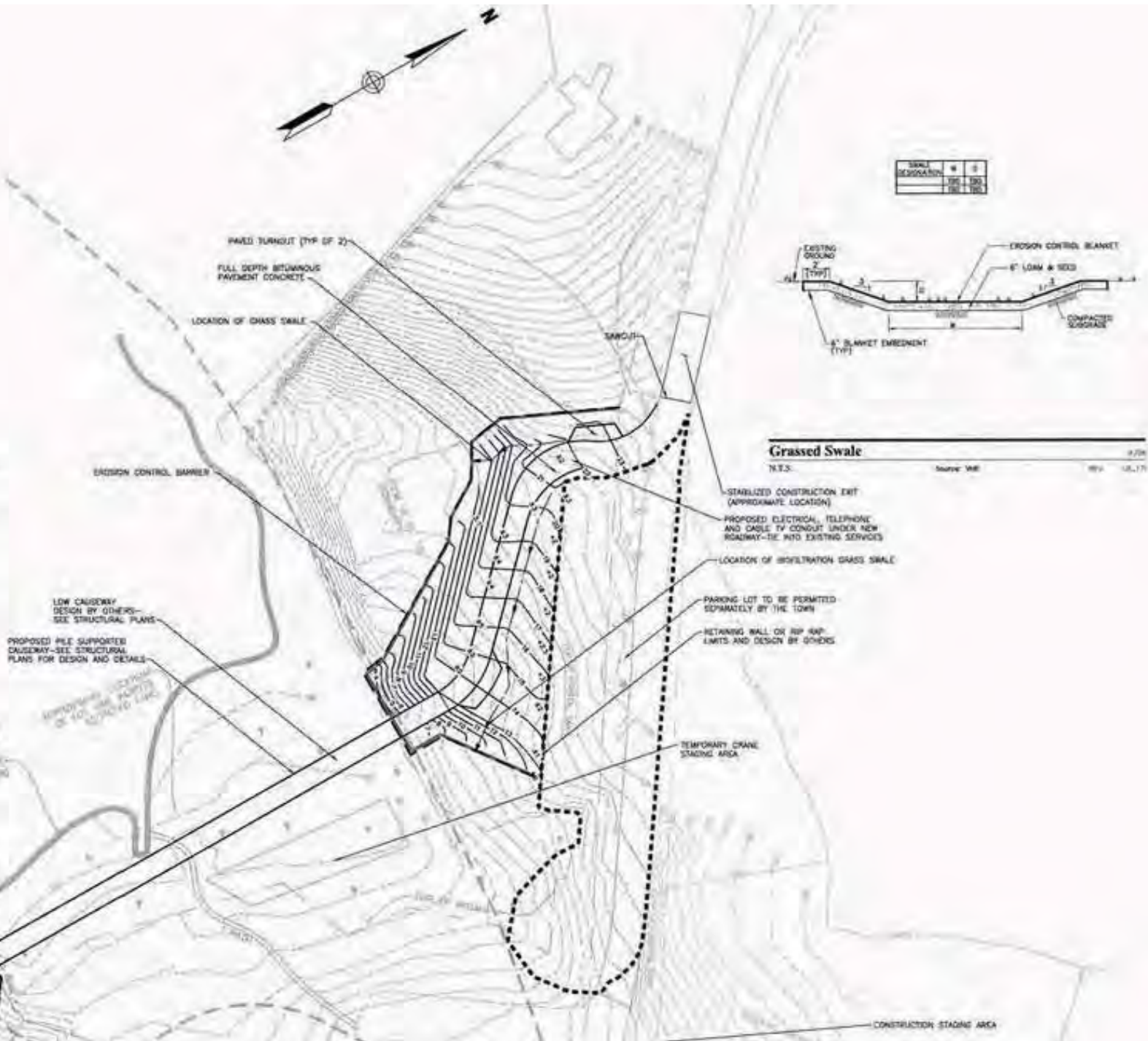
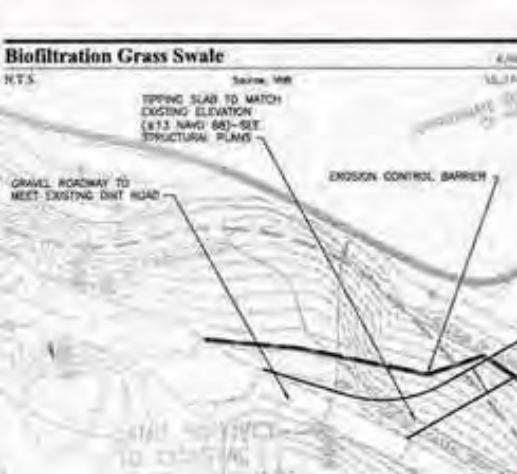
Source: MBE



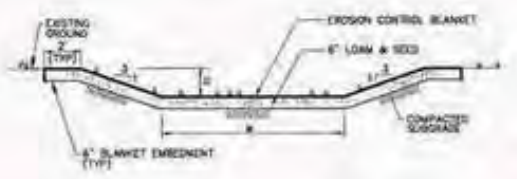
**Biofiltration Grass Swale**

Scale: 1/8" = 1'-0"

Source: MBE



SWALE WIDTH	W	D
4'	12"	12"
6'	18"	18"

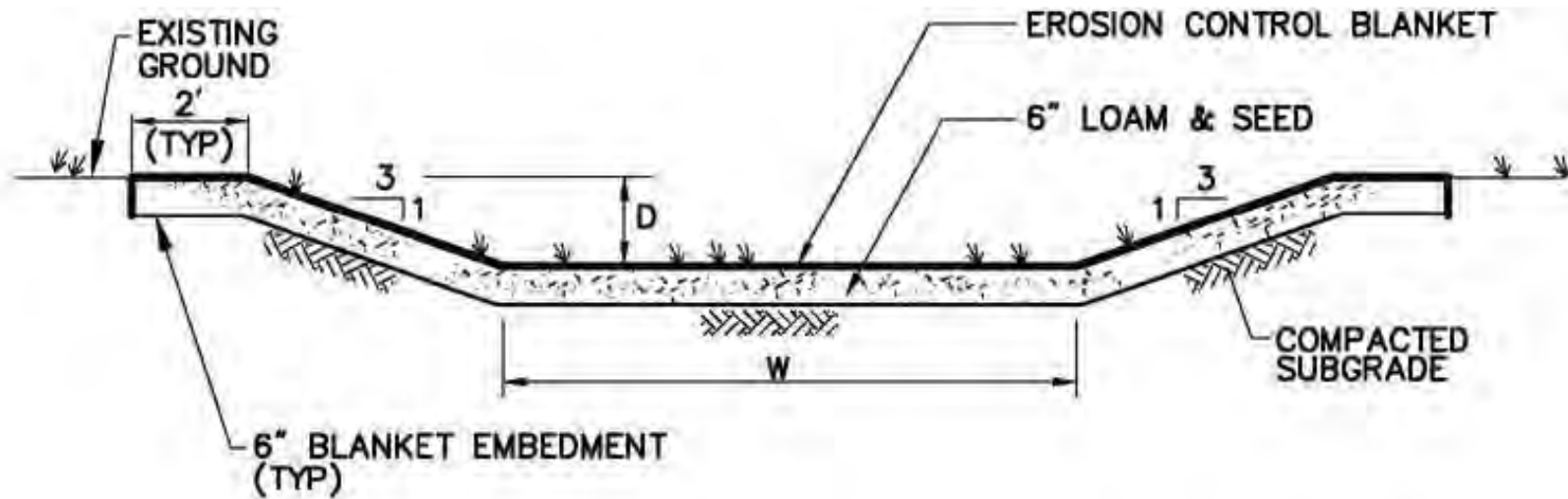


**Grassed Swale**

Scale: 1/8" = 1'-0"

Source: MBE

SWALE DESIGNATION	W	D
	TBD	TBD
	TBD	TBD



## Grassed Swale

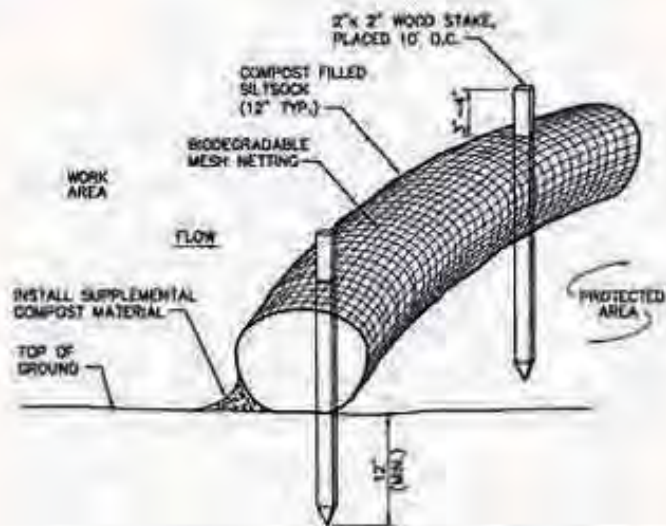
6/08

N.T.S.

Source: VHB

REV

LD\_171

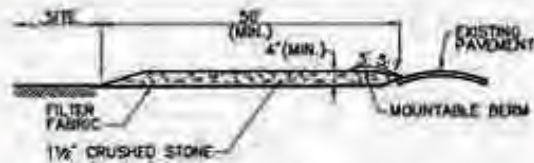
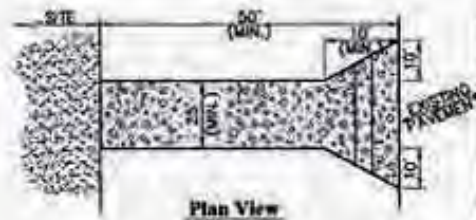


**Notes:**

1. SILT SOCK SHALL BE FILTREXX SILT SOCK, OR APPROVED EQUAL.
2. SILT SOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
3. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.

**Siltsock - Erosion Control Barrier**

N.T.S. Source: VHB 4/13 12.118

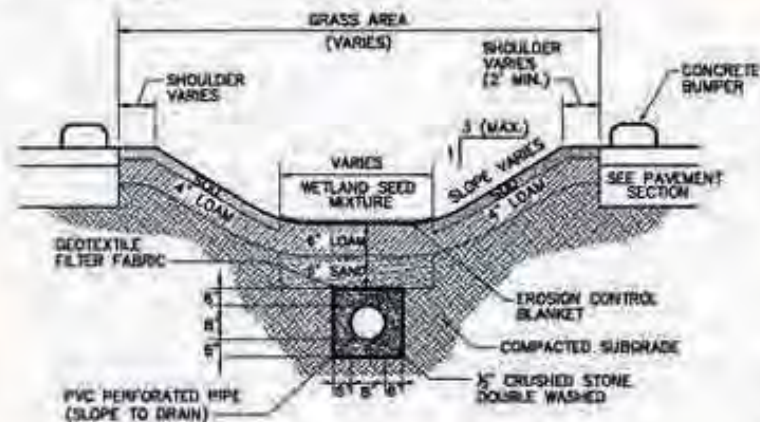


**Notes:**

1. ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
3. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

**Stabilized Construction Exit**

N.T.S. Source: VHB 4/13 12.118



**Biofiltration Grass Swale**

4/14

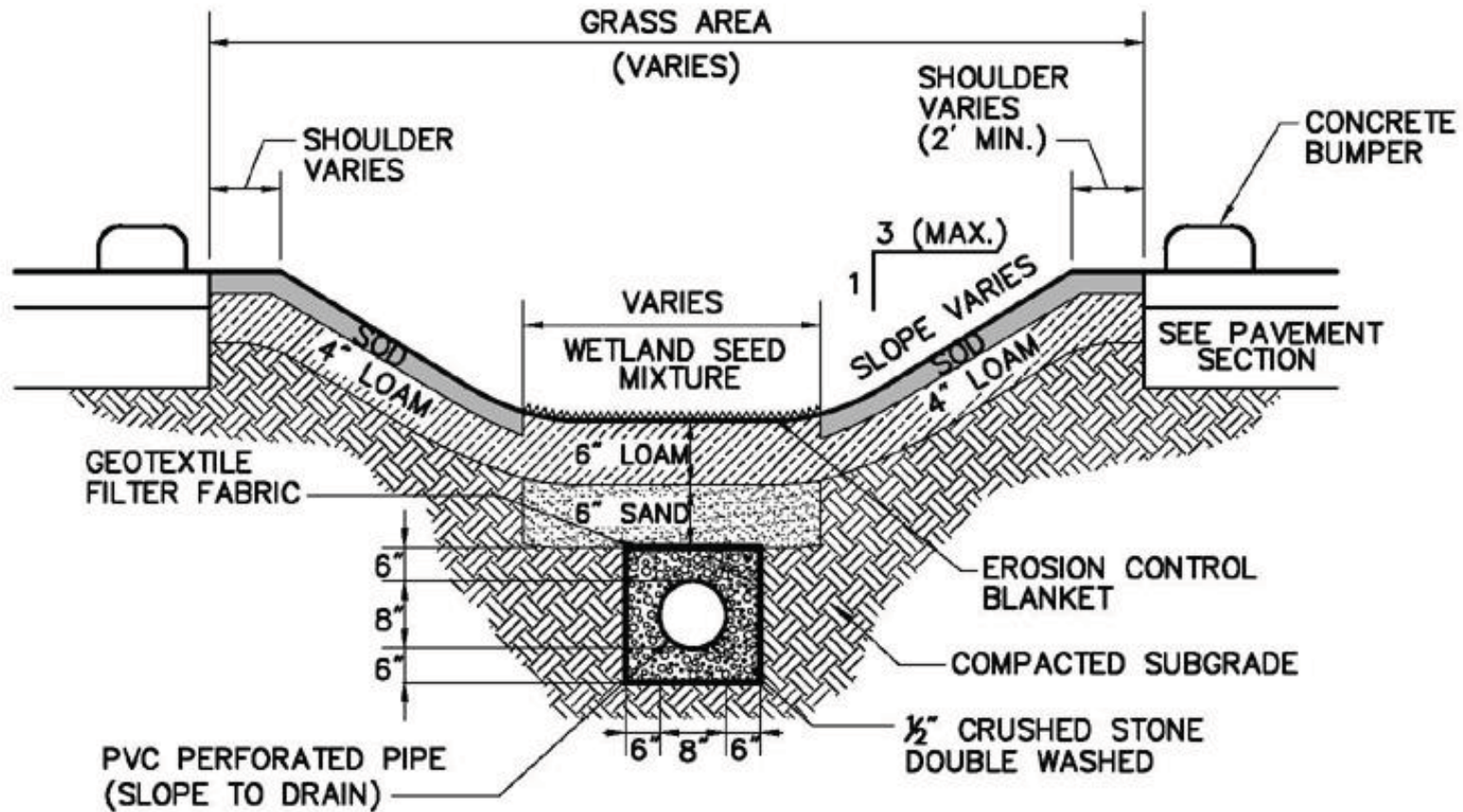
# Stabilized Construction Exit

6/08

N.T.S.

Source: VHB

LD\_682



# Biofiltration Grass Swale

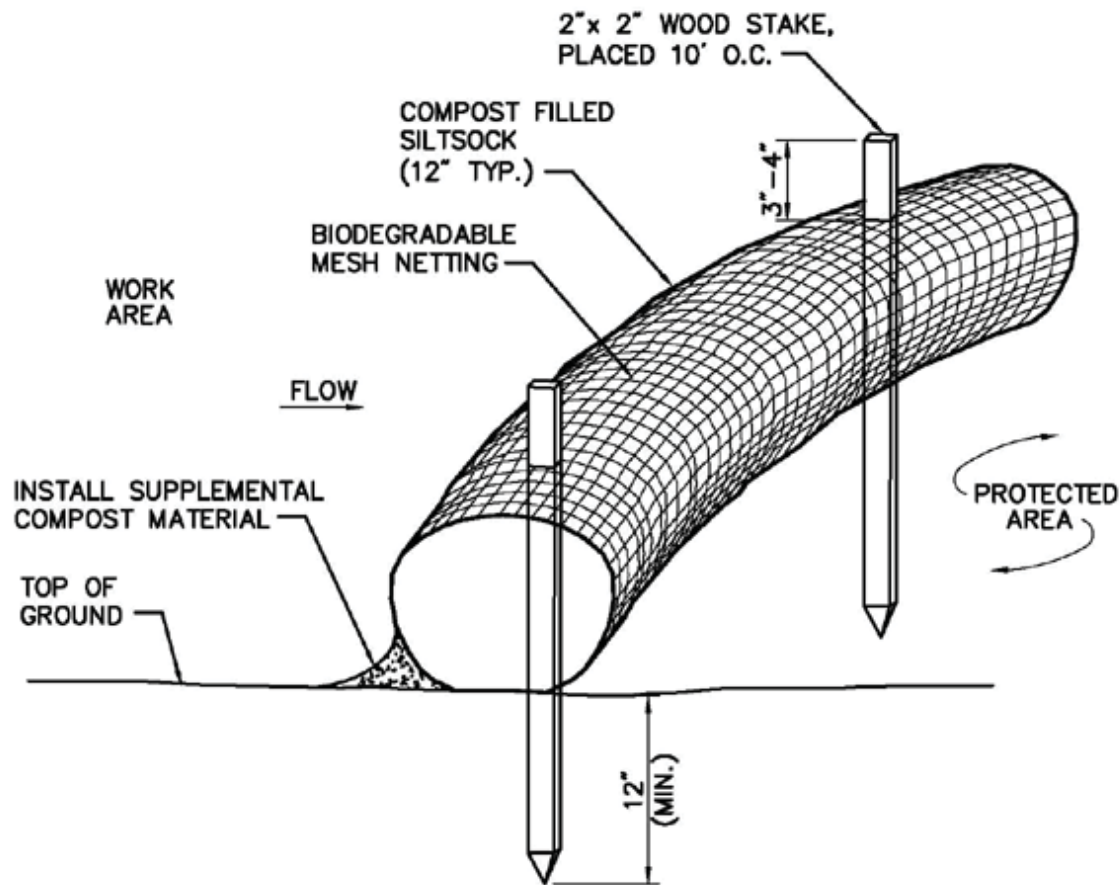
6/08

N.T.S.

Source: VHB

LD\_174



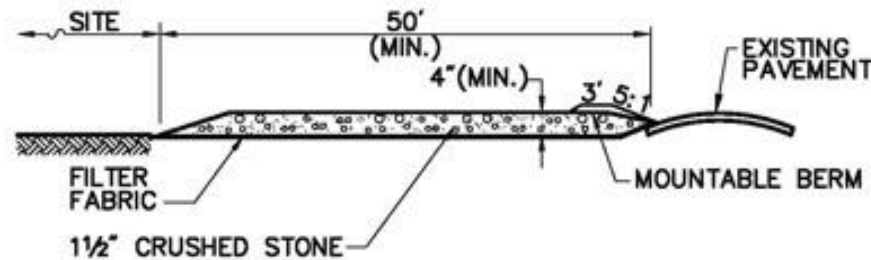
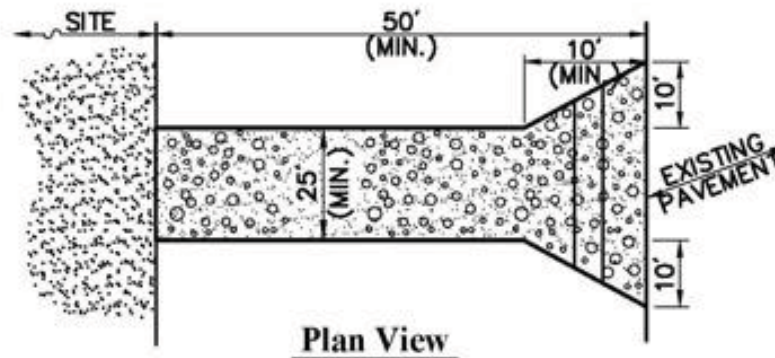



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**Notes:**

---

1. SILT SOCK SHALL BE FILTREXX SILT SOCK, OR APPROVED EQUAL.
2. SILT SOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
3. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.




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**Notes:**

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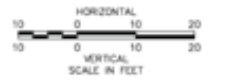
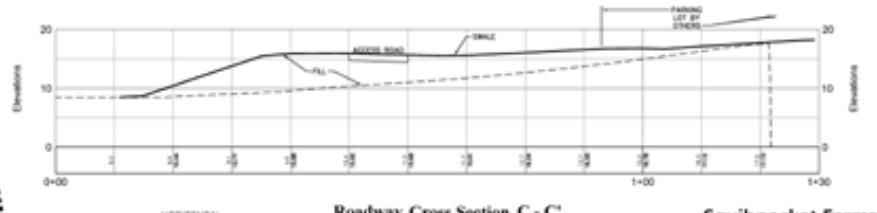
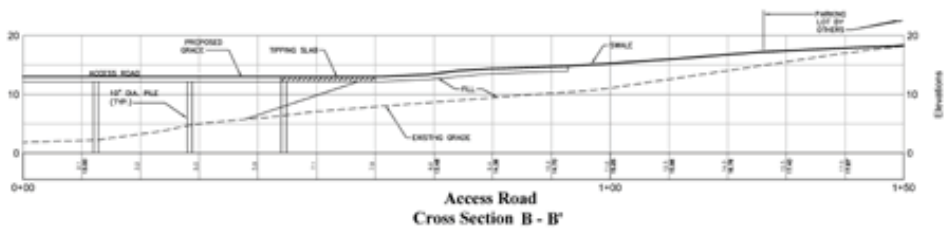
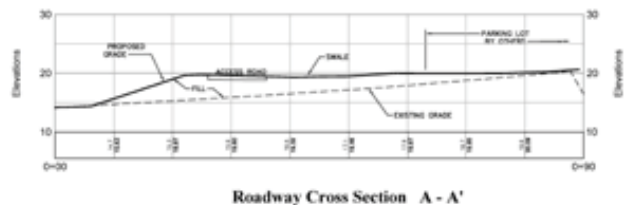
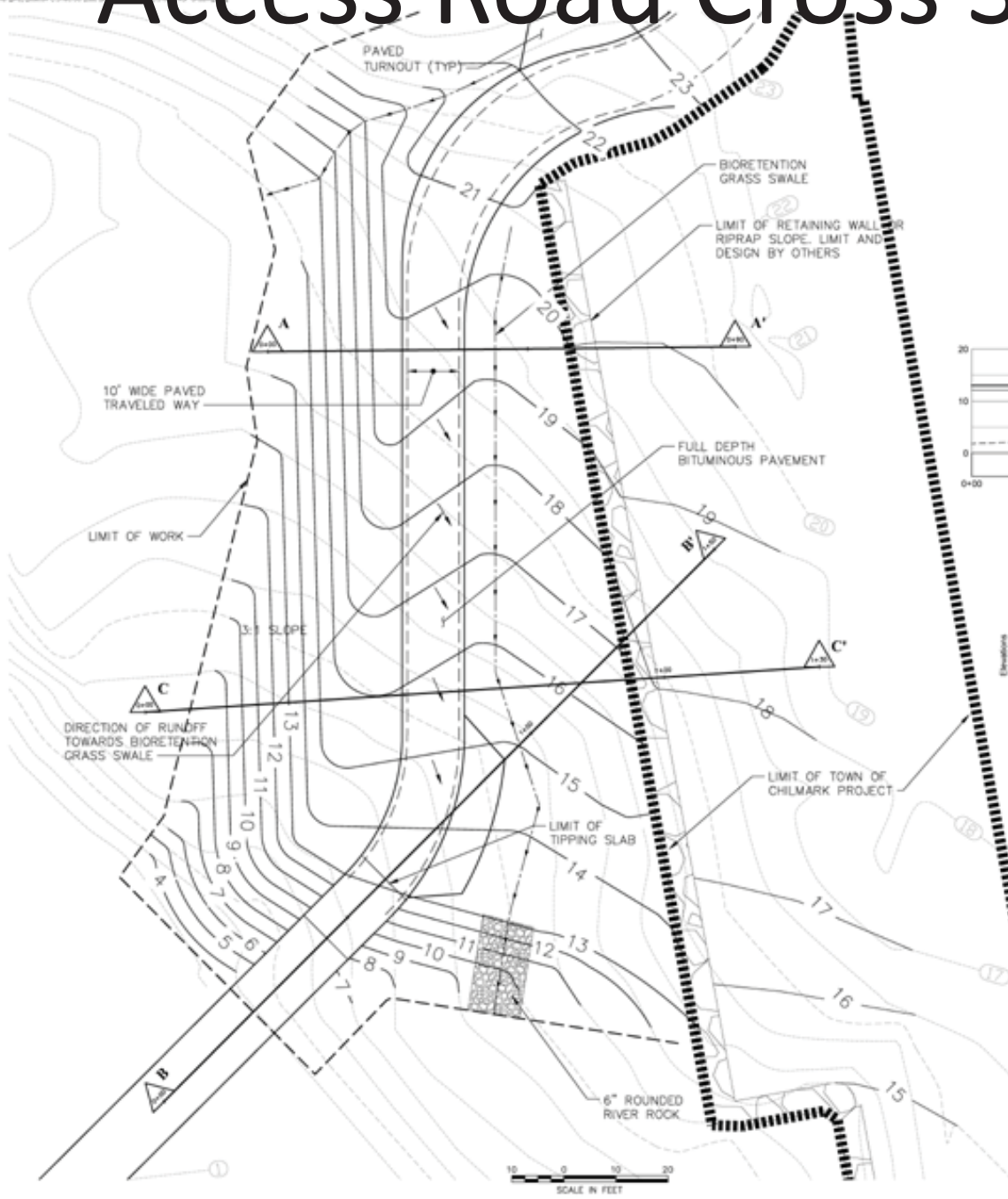
1. ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
3. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

---

**Stabilized Construction Exit**

6/08

# Access Road Cross Sections (A,B,C)



**Squibnocket Farms**

Chilmark, Massachusetts

Development of Regional Impact Application Number DRI 138

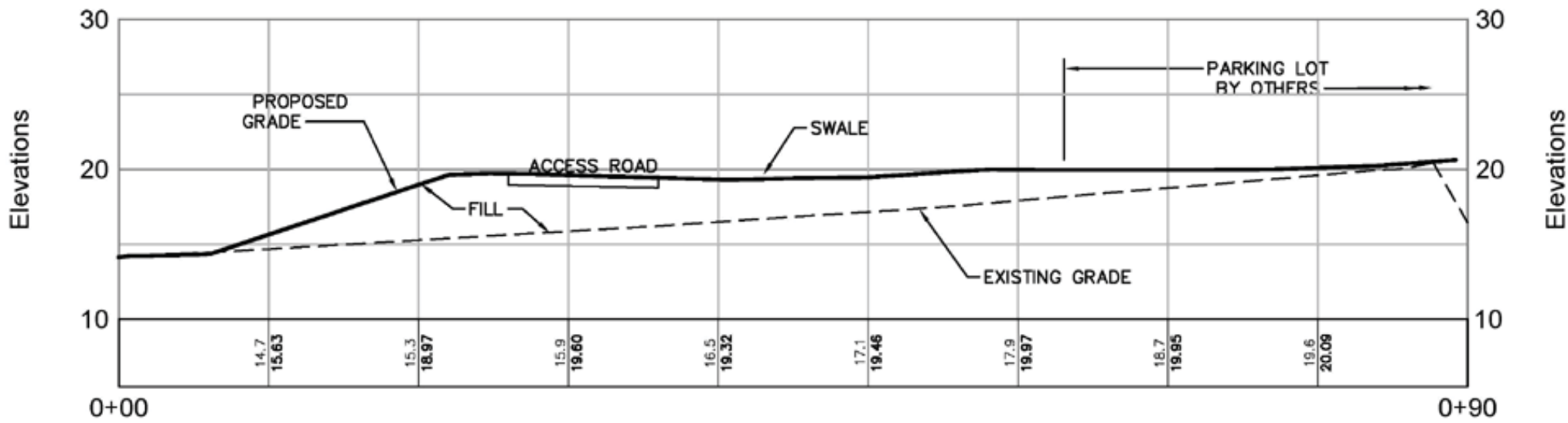
Town of Chilmark Zoning Agriculture-Residential VI Squibnocket Pond District Chilmark Coastal District

Review

March 7, 2016

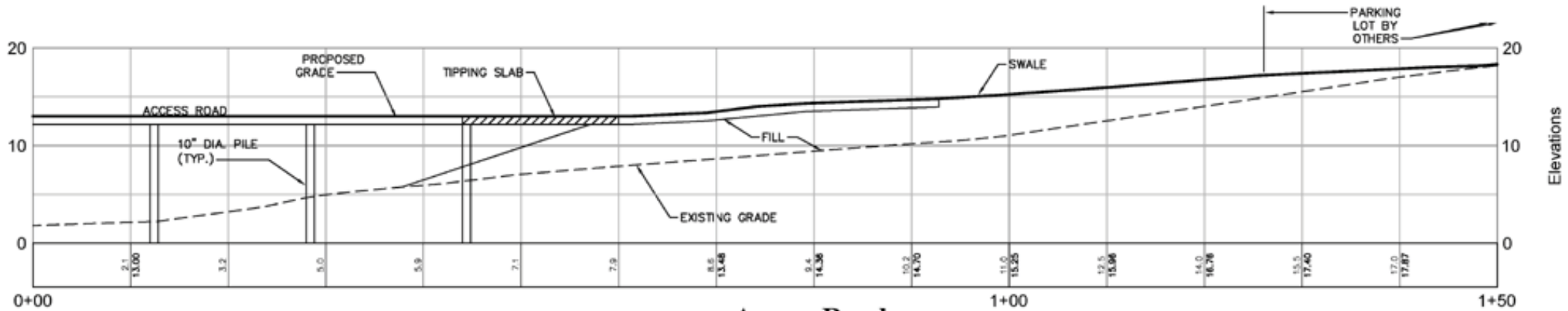
Not Approved for Construction

**Access Road Layout with Grading Detail**

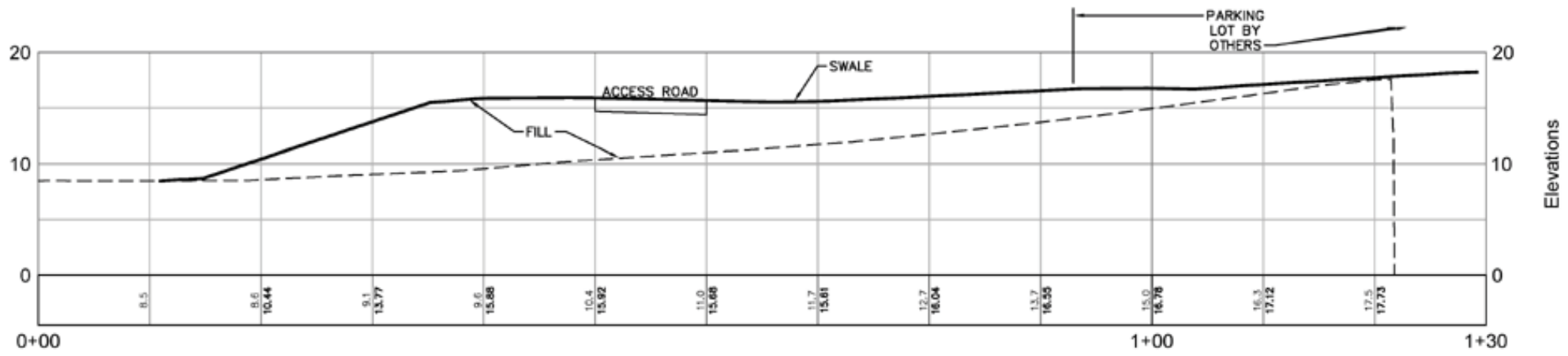


**Roadway Cross Section A - A'**

### Roadway Cross Section A - A'



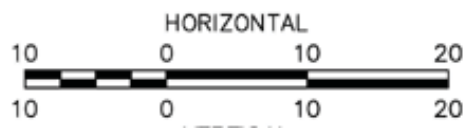
### Access Road Cross Section B - B'



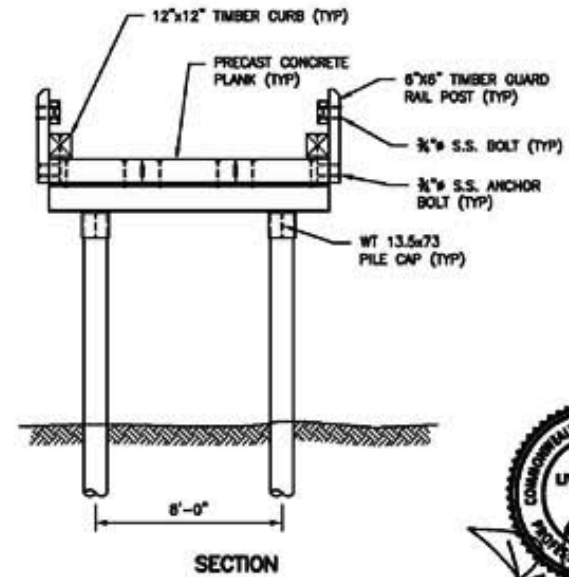
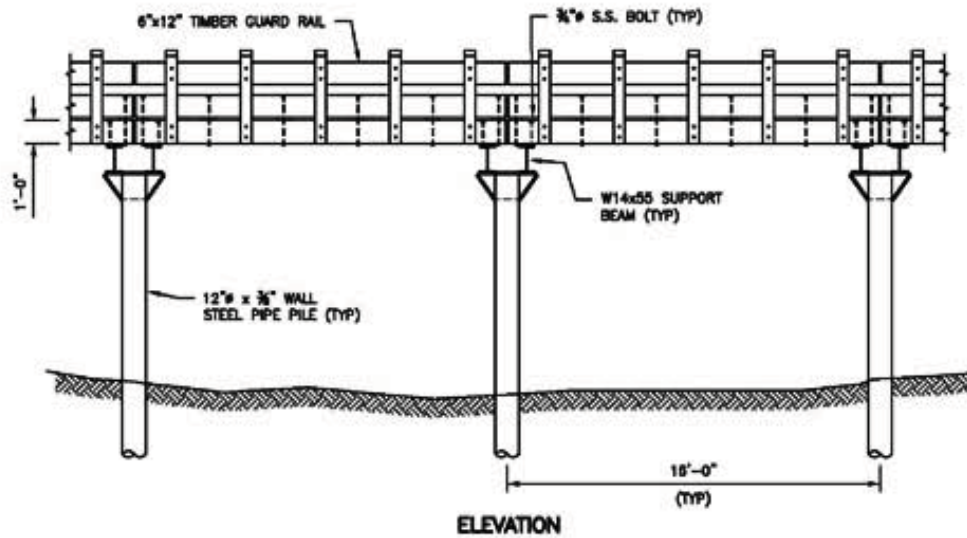
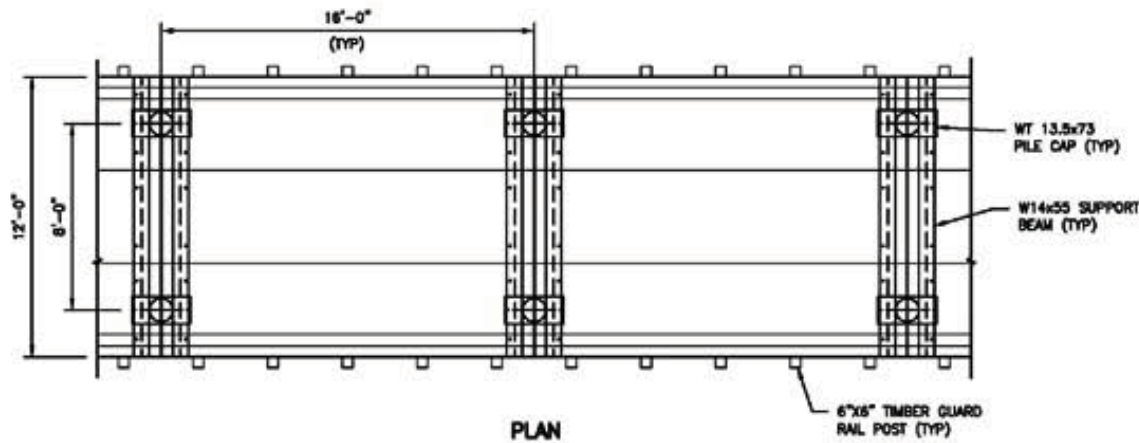
**Roadway Cross Section C - C'**

**Squibnocket Farms**

Chillmark Massachusetts



# Proposed Causeway Plan & Sections



YOU QUINN K:\2020-15.00 SQUIBNOCKET BRIDGE - H&A\CAD\CURRENT WORKING BRIDGE\202015 SK-02 BRIDGE ALI 1917 WOLFWING Dec 22, 2015 - 1:30pm



**CHILDS ENGINEERING CORPORATION**  
 34 WILLIAM WAY, BELLINGHAM, MA 02018 U.S.A.  
 Phone: (508) 966-9092 Fax: (508) 966-9096  
 E-mail: mail@childseng.com

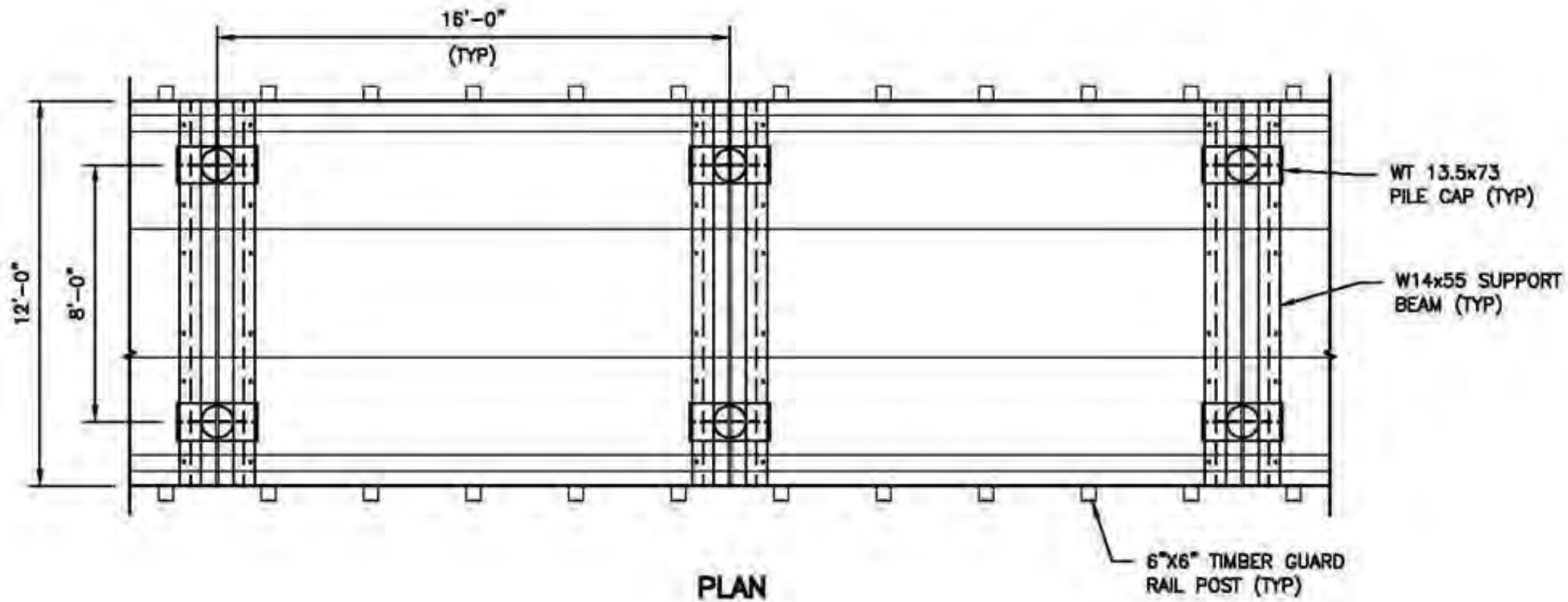
Rev	Description	Date	Appr.

Designed by:	DLP	Date:	12/03/15
Drawn by:	TEQ	Design file no.:	282015 SK-02
Reviewed by:	DLP	Scale:	3/16"=1'-0"

SQUIBNOCKET BRIDGE  
 H&A  
 CHELMARK, MA  
 PROPOSED BRIDGE  
 DESIGN CONCEPT  
 12' WIDE BRIDGE

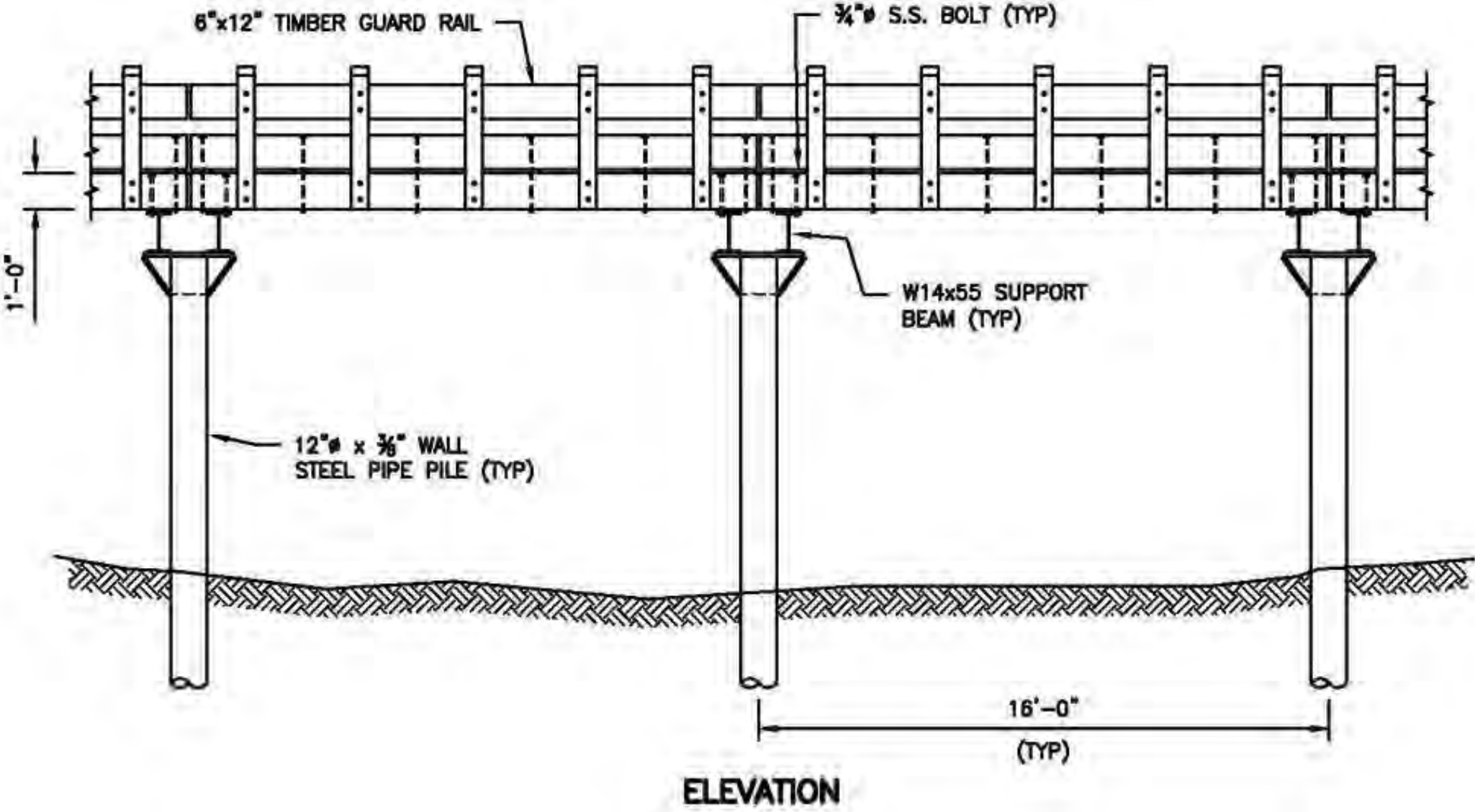
Sheet reference number:  
**SK-02**  
 Sheet 1 of 1

# Plan View of Proposed Causeway

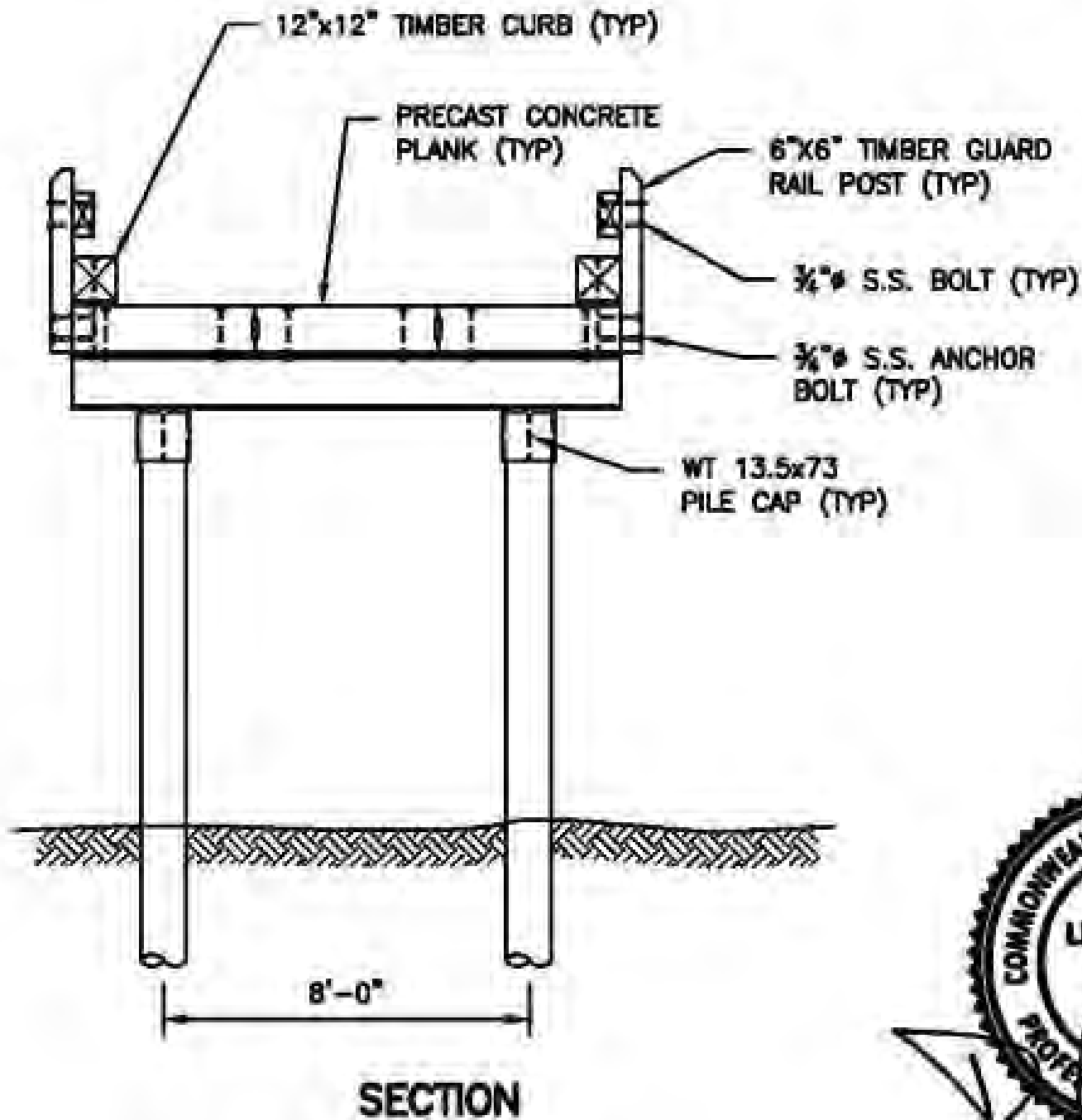




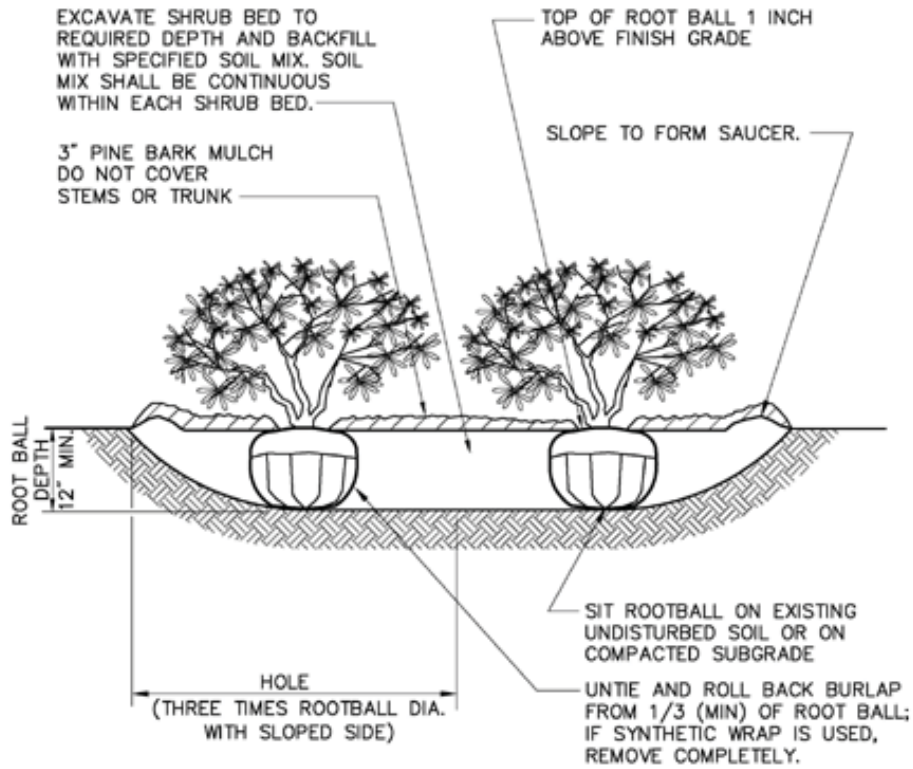
# Elevation of Proposed Causeway



# Section of Proposed Causeway

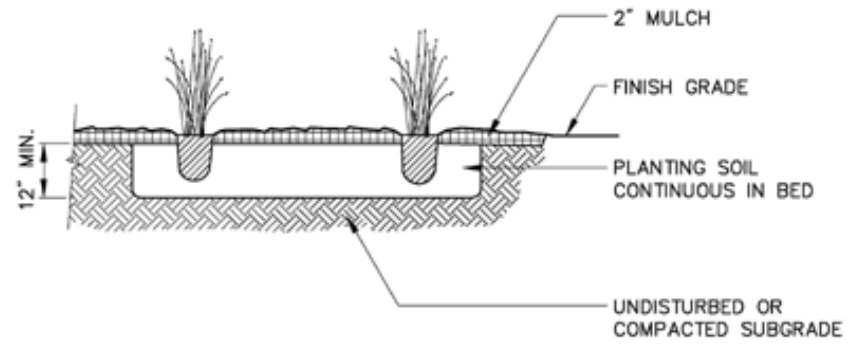
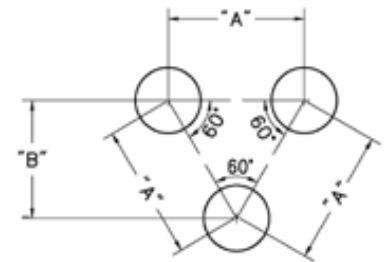






- Notes:**
1. LOOSEN ROOTS AT THE OUTER EDGE OF ROOTBALL OF CONTAINER GROWN SHRUBS.

PLANT SPACING ("A")	ROW SPACING ("B")
6 IN. O.C.	5 IN. O.C.
8 IN. O.C.	7 IN. O.C.
10 IN. O.C.	8-1/2 IN. O.C.
12 IN. O.C.	10-1/2 IN. O.C.
15 IN. O.C.	13 IN. O.C.
18 IN. O.C.	16 IN. O.C.



## Shrub Bed Planting

## Perennial & Native Grass Planting

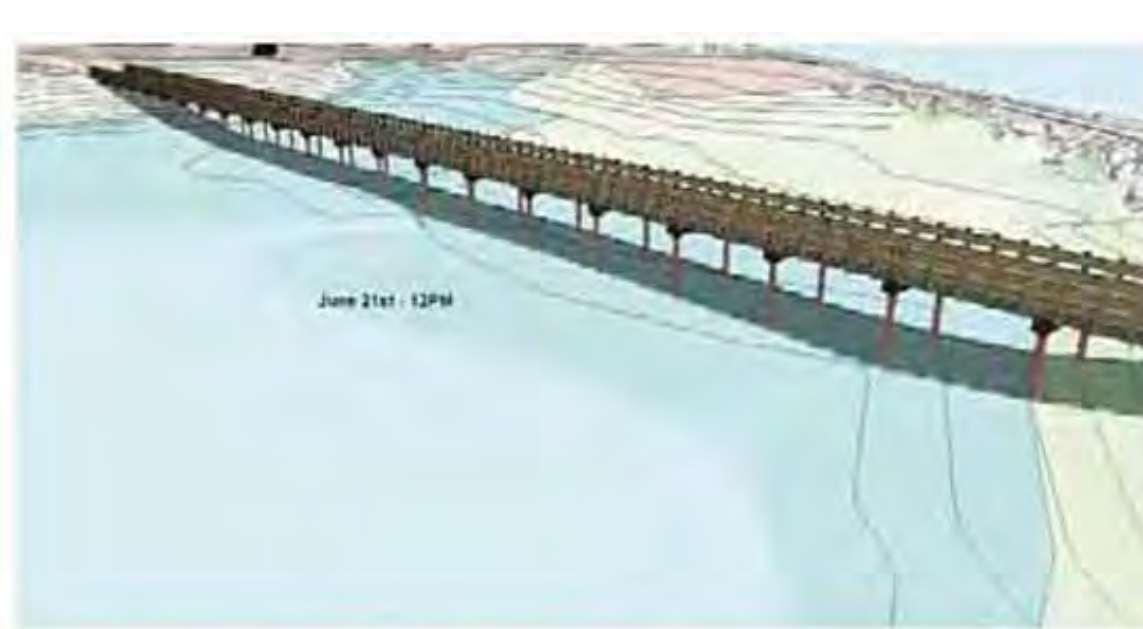
## Shadow Study of Causeway



Time	10:00 AM
Sun	1,522 SF (36%)
Shade	2,649 SF
Total	4,171 SF



Time	11:00 AM
Sun	582 SF (14%)
Shade	3,589 SF
Total	4,171 SF



Time	12:00 PM
Sun	0 SF (0%)
Shade	4,171 SF
Total	4,171 SF

## Shadow Study of Causeway



Time	1:00 PM
Sun	1,139 SF (27%)
Shade	1,032 SF
Total	4,171 SF



Figure 12 - Shadow Study - June 21st  
Squibnocket Beach, Chilmark, MA



Time	6:00 AM
Sun	4,171 SF (100%)
Shade	0 SF
Total	4,171 SF



Time	7:00 AM
Sun	4,171 SF (100%)
Shade	0 SF
Total	4,171 SF



Time	8:00 AM
Sun	3,966 SF (95%)
Shade	205 SF
Total	4,171 SF



Time	9:00 AM
Sun	2,668 SF (64%)
Shade	1,503 SF
Total	4,171 SF



**Figure 11 - Shadow Study - June 21st  
Squibnocket Beach, Chilmark, MA**



# Before



# After



Proposed

# Before



# After



Proposed



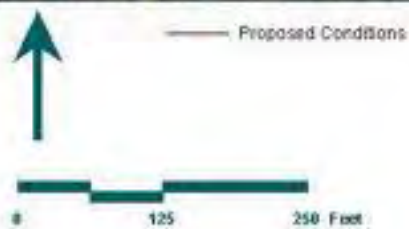


Figure 2 – Aerial Map  
Squibnocket Beach, Chilmark, MA

Source: MassGIS, VHB




- Proposed Conditions
- 
 NHESP Priority & Estimated Habitat Polygon EH79/PH15 Northern Harrier (*Circus cyaneus*)



Figure 3 - Natural Heritage Atlas  
Squibnocket Beach, Chilmark, MA

Source: MassGIS, VHB



Figure 4 - Wetland Resource Areas  
Squibnocket Beach, Chilmark, MA

Source: MassGIS, VHB



# SQUIBNOCKET POND



TOP OF COASTAL BANK  
LIMIT OF LAND  
SUBJECT TO COASTAL  
STORM FLOWAGE

100' 82'

BORDERING  
VEGETATED  
WETLANDS

EDGE OF POND-1999

COASTAL  
DUNE

BARRIER  
BEACH

TOP OF COASTAL BANK  
BOTTOM OF COASTAL BANK

COASTAL BEACH

MEAN LOW WATER (-1.40)

MEAN HIGH WATER OBSERVED 7-10-2013

COASTAL BEACH

MEAN LOW WATER OBSERVED 11-20-2013

LAND SUBJECT TO  
COASTAL STORM  
FLOWAGE (LSCSF)

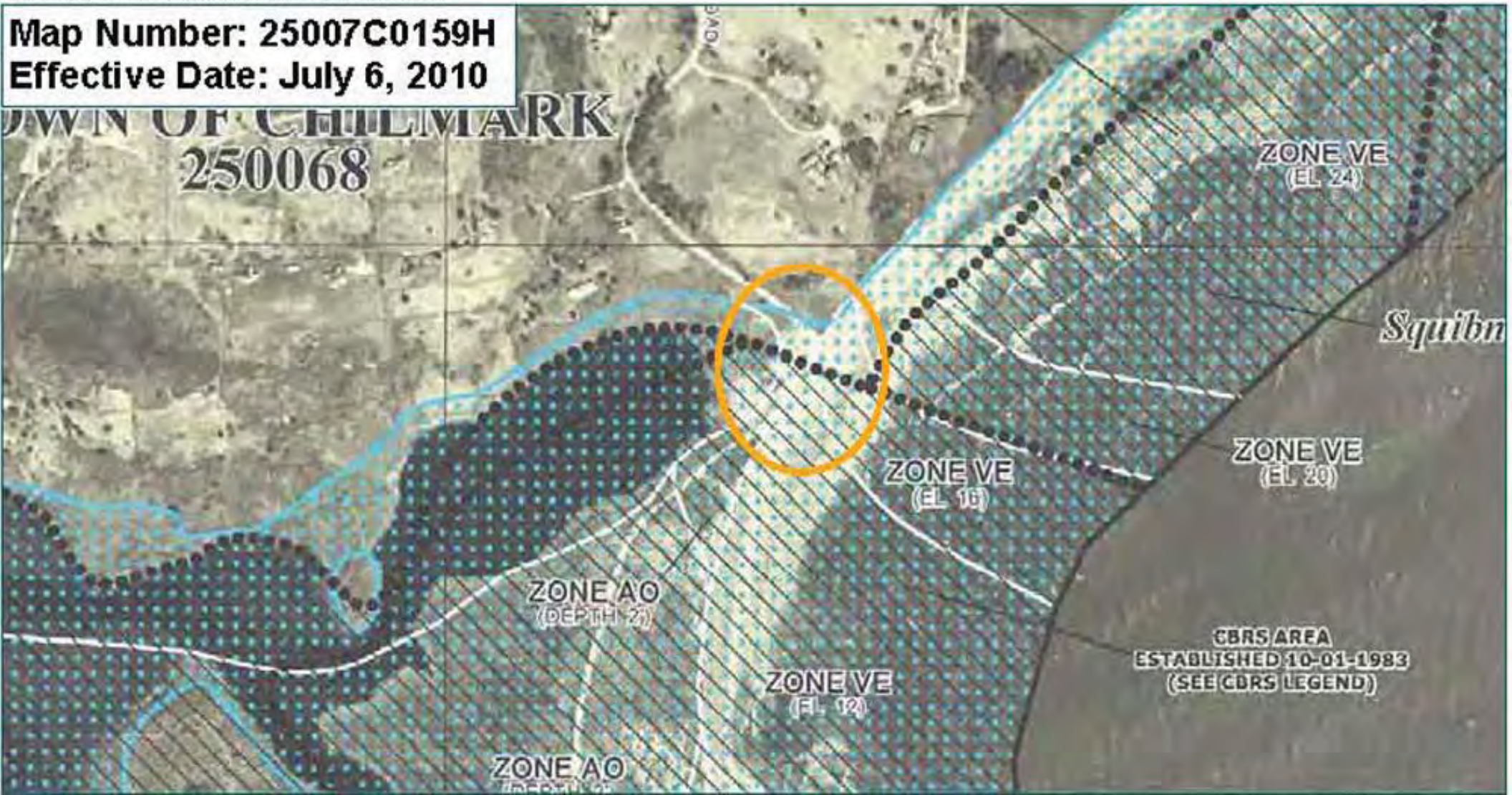
COASTAL BANK

TOP OF COASTAL BANK  
BOTTOM OF COASTAL BANK



**Map Number: 25007C0159H**  
**Effective Date: July 6, 2010**

**TOWN OF CHILMARK**  
**250068**



Map Number: 25007C0159J  
Revised Preliminary Date: April 27, 2015

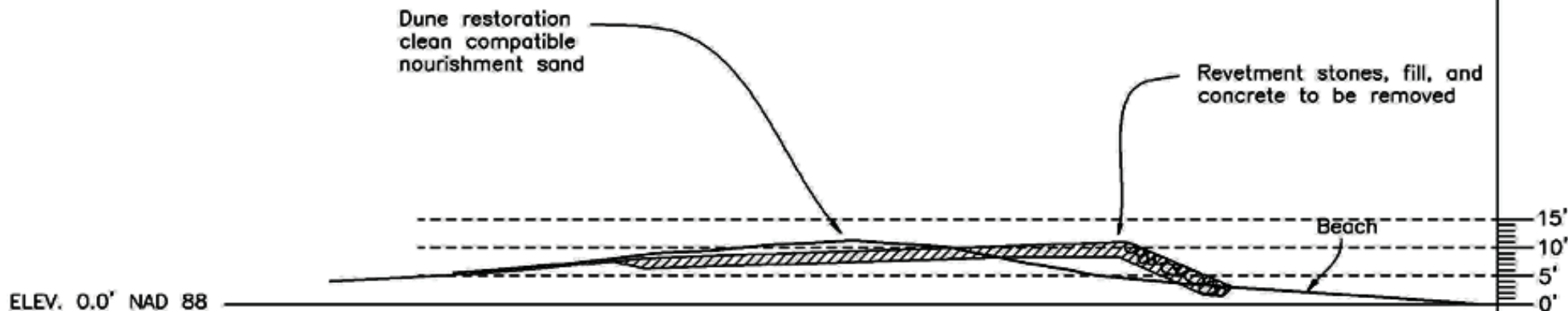


Project Site

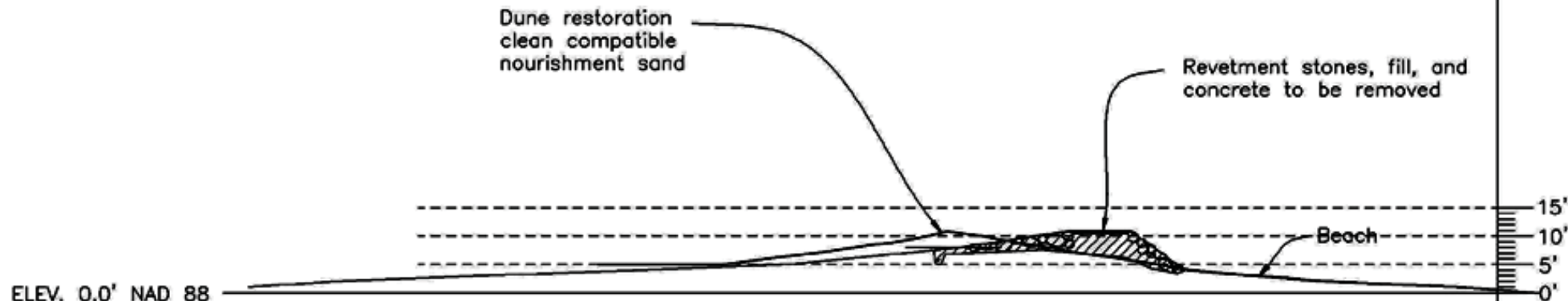


Figure 5- FEMA Flood Insurance Rate Maps Squibnocket Beach, Chilmark, MA





SECTION 2  
Scale: 1" = 20'



SECTION 1  
Scale: 1" = 20'

# Proposed Parking Lot Retaining Wall and Swale Section

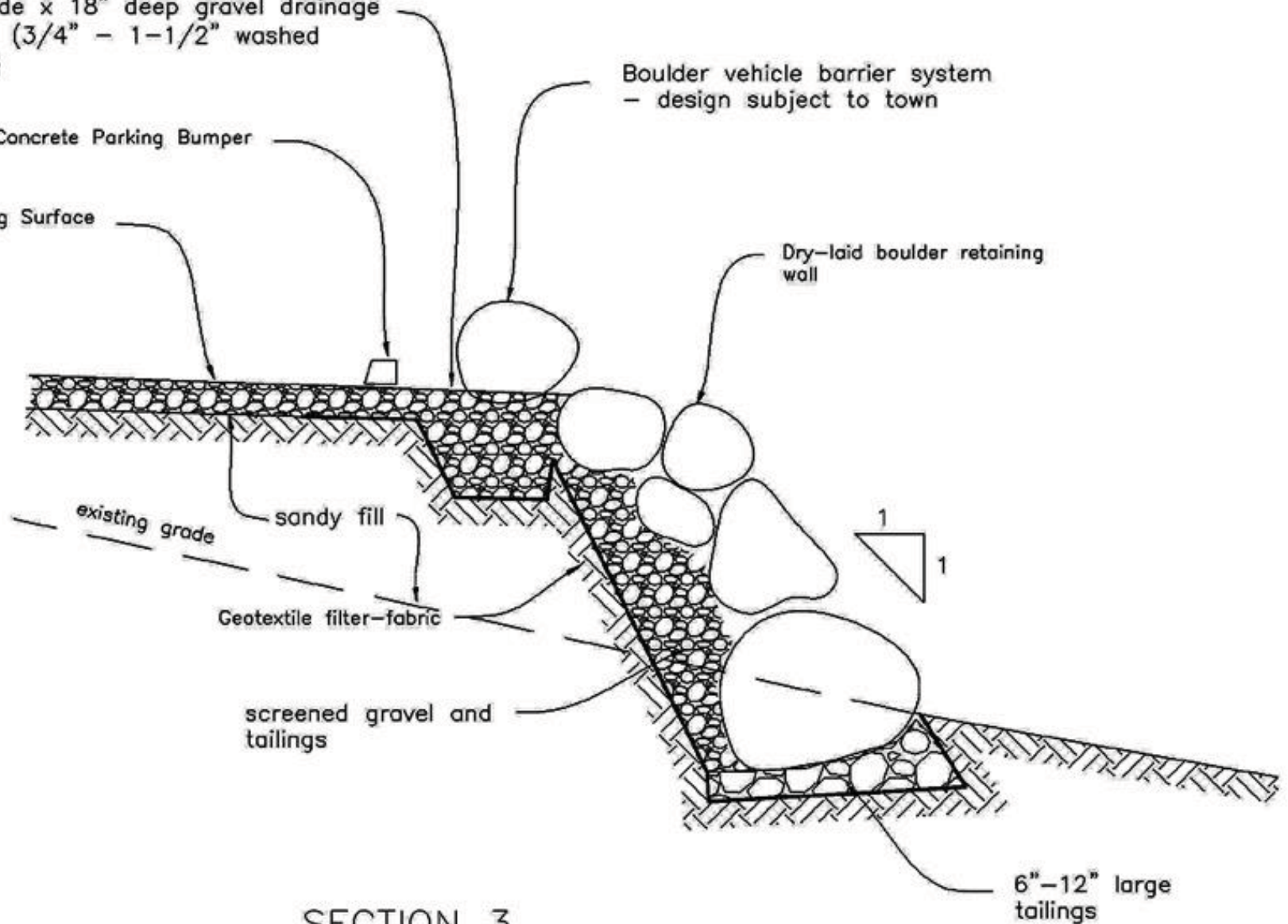
18" wide x 18" deep gravel drainage trench (3/4" - 1-1/2" washed gravel)

Boulder vehicle barrier system - design subject to town

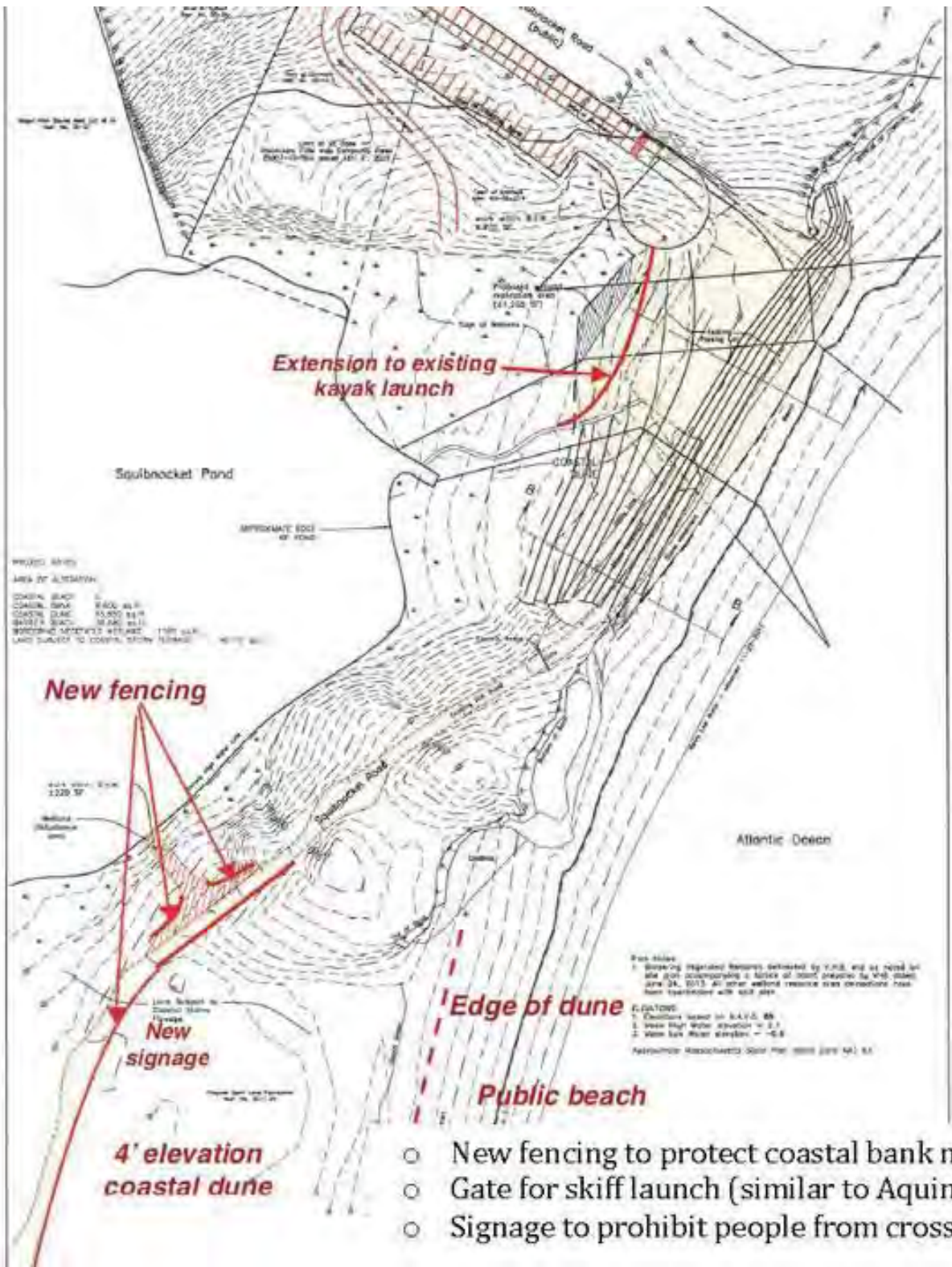
Concrete Parking Bumper

1/2" - 1" gravel Parking Surface

Dry-laid boulder retaining wall



SECTION 3  
Scale: no scale



Abutters Suggestions

- Lower Causeway 2'
- Different Railings (lower 2')
- Separate Skiff & Kayak Launch
- Fencing at Skiff Launch
- Signage to stay off dunes

- New fencing to protect coastal bank next to skiff launch (both sides)
- Gate for skiff launch (similar to Aquinnah)
- Signage to prohibit people from crossing coastal dune



**Causeway Railing:** Existing railing adds significant mass to structure.

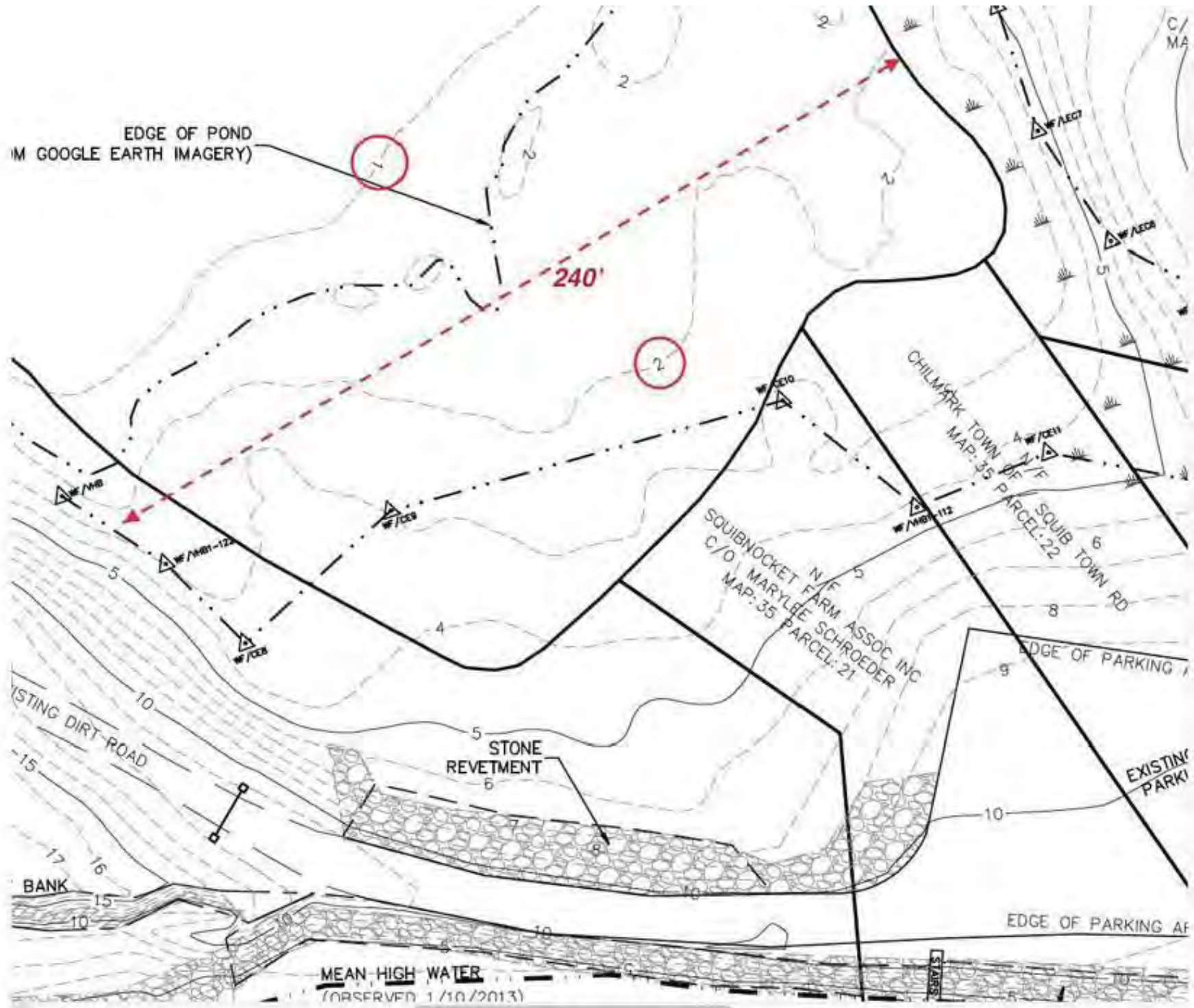


Menemsha railing on new causeway is lighter, more 'see through, and less obtrusive.

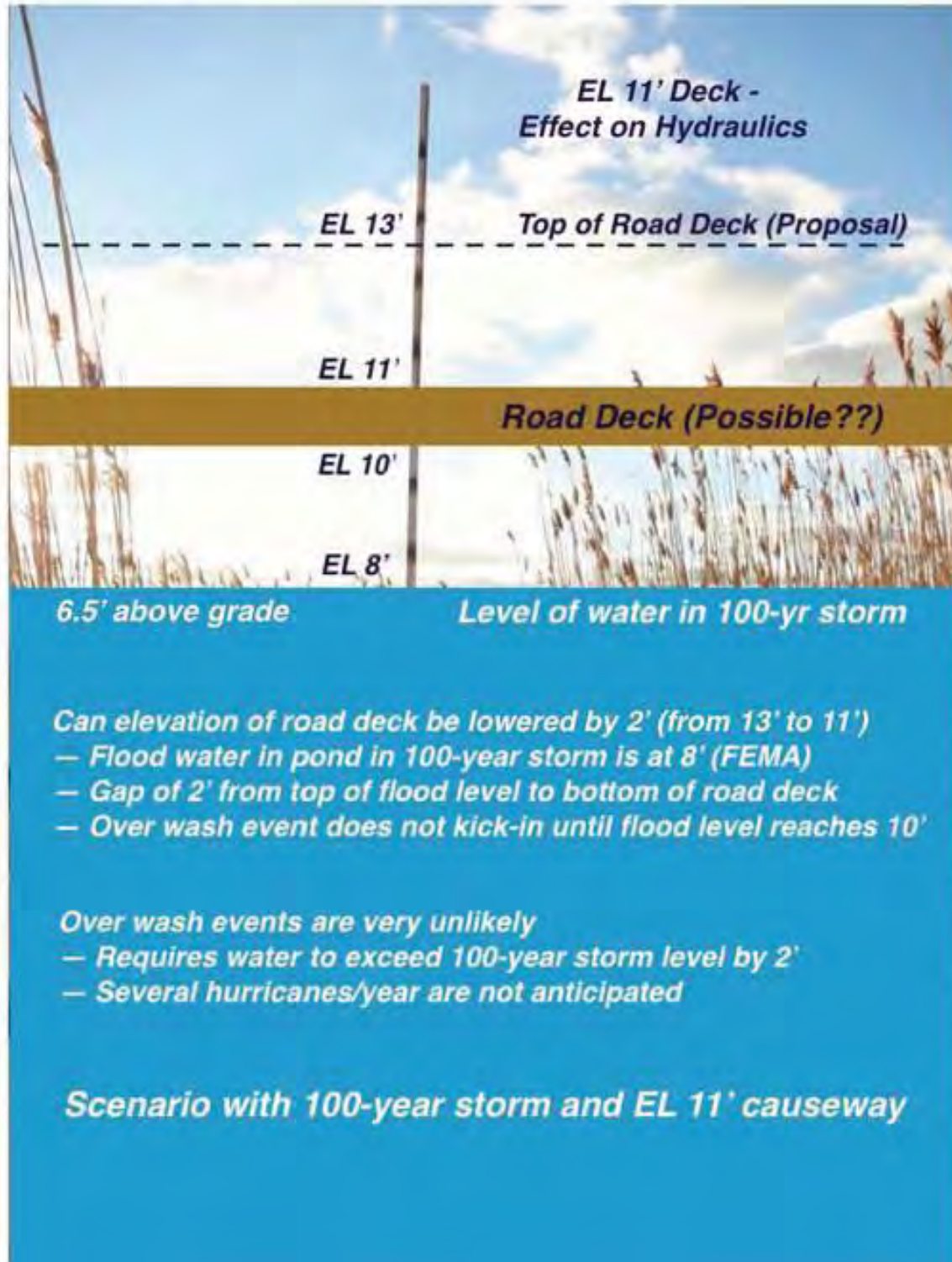


Abutters Image  
re: Railings

Abutters  
Image:  
Base  
Elevations



Abutters Image:



Abutters  
Image

