



## Office of Long Island Sound Programs

### Pre-Application Questionnaire

A pre-application meeting is strongly recommended prior to the submittal of an application to authorize work within tidal wetlands, or in tidal, coastal, or navigable waters of the state. This meeting provides the prospective applicant and/or applicant's representative with an opportunity to meet with a Permitting & Enforcement Analyst to discuss the proposed project and any potential issues or impacts that the project may pose to public trust waters, navigation, and coastal resources. The meeting is designed as a tool to assist the prospective applicant with the application preparation and process and is strictly for **guidance purposes only**. The guidance provided by staff is given based on the amount of information provided at the time of the initial meeting. The pre-application meeting is not intended to provide a binding decision on whether the proposed project will or will not be approved. Any decision regarding the approvability of a project can only be made when a complete application has been submitted, reviewed, and evaluated for impacts through the appropriate permitting process.

Please note that once an application is submitted, no modifications to the proposal will be accepted. If the proposal submitted is inconsistent with the Connecticut General Statutes and Department of Environmental Protection (DEP) guidelines, the application will be denied. The application fee will not be refunded or transferred and the applicant will need to re-submit a new permit application and application fee.

Contact the Office of Long Island Sound Programs (OLISP) at 860-424-3034 to schedule a pre-application meeting with an analyst from OLISP. Please bring this completed questionnaire along with supporting documents to the pre-application meeting. If you have any questions regarding the information requested, please contact the analyst you are scheduled to meet with or contact OLISP at the phone number listed above.

#### Part I: General Information

1. Applicant Name: **Giants Neck Beach Association, c/o Mr. Wickliff Mallory**

Mailing Address: **7 South Lee Road**

City/Town: **Niantic**

State: **CT**

Zip Code: **06357**

Business Phone: **860-572-8939**

ext.

Fax: **860-572-7569**

Contact Person: **Keith B. Neilson, P.E.**

Title: **Agent**

Email: **permits@docko.com**

2. Consultant/Representative Name: **Docko, Inc.**

Mailing Address: **P. O.Box 421**

City/Town: **Mystic**

State: **CT**

Zip Code: **06355**

Business Phone: **860-572-8939**

ext.

Fax: **860-572-7569**

Project Contact Person: **Keith B. Neilson, P.E.**

Title: **Agent**

Email: **permits@docko.com**

## Part II: Site Location

Project Address (if known): **Two sites located on Giants Neck Road as shown on the application drawings.**

City/Town: **Niantic**

State: **CT**

Zip Code: **06357**

## Part III: Project Description

1. Project Type: (check every category which applies)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Commercial       | <input type="checkbox"/> Industrial        |
| <input type="checkbox"/> Mixed Use               | <input type="checkbox"/> New Construction | <input type="checkbox"/> Dock Modification |
| <input checked="" type="checkbox"/> Municipal    |   |  |
| <input type="checkbox"/> Other (please specify): |   |  |

2. Please provide a brief project description including: project purpose, description of the site as it exists, including what coastal resources are on-site, what changes would occur as a result of the project, and time constraints.

**The first part of this project is to excavate approximately 500 CY of sand from the lower inter-tidal zone landward of the mean low water line over an area of approximately 10,000 SF and placing this material on the beach above the high tide line in a windrow, the full length of "The Mother's Beach". The purpose of this project is to restore the quality and volume of sand on the beach for passive and active recreational purposes. Storm damage to the beach has manifested itself by transporting beach sand to the west, baring the stony substrate at the east end. The object is to recycle sand from the lower inter-tidal zone, where it is filling in the cove just off shore at the west end and replacing it to points along the beach from which it came. This will be a recurring sand recycling process; authorization is sought for a period of ten years. The second part of this project is to install articulated concrete mats (Armor-Flex) below the drainage pipe outlets on the beach south of Giants Neck Road for protection of the seawall and roadway foundation.**

**Facilities to be retained at this site are the mortared stone seawall, armoring and protecting the critical infrastructure at Giants Neck Beach, including the road between the "Mother's Beach" and the lower pond, and the concrete seawall installed by the U.S. Army Corps of Engineers after the Hurricane of 1938 to protect existing, pre-1980 (pre-1938) residential structures bordering the beach. Both of these structures qualify as infrastructure and so this project is consistent with provisions of the Coastal Management Act.**

**Continued on Page 2a of 5.**

3. Please discuss any alternatives to the proposed project.

**The purpose of this project is to recycle beach sand from the lower intertidal zone to the beach for nourishment and in support of active and passive waterfront recreation. This project supports high priority water dependent uses and complies with current DEP guidelines in this shallow water estuarine embayment.**

**Continued on Page 2b of 5.**

# **GIANT'S NECK BEACH ASSOCIATION PRE-APPLICATION QUESTIONNAIRE**

## **Part III: Project Description**

2. Please provide a brief project description including: project purpose, description of the site as it exists, including what coastal resources are on-site, what changes would occur as a result of the project, and time constraints.

**Continued from Page 2 of 5**

The area of the project is referred to as the "Mothers" Beach. It is a strip of land approximately a quarter of a mile long, running from the Beebe property at the west to the eastern point groin. The project site is a long-standing beach, as documented in the DEP record photographs going back to the 1930's. The shoreline is undeveloped until well north of high tide line, at which point there are a series of seawalls along the east half of the site and a mortared stone seawall bordering Giant's Neck Road at the westerly end. The area is zoned "open space" for public use. The properties adjacent to the site are, except for the road, all zoned for residential property and are used in that manner. Giant's Neck Road is municipal Town of East Lyme infrastructure providing access to the entire neighborhood.

The coastal resources in this area are identified on the DEP coastal resource maps attached. The cove is an estuarine embayment. The shoreline is a beach, pretty much devoid of rocks unless the sand is washed away which thus exposes the rocks. The area above the high tide line would be classified as shorelands.

Other resources at the site include shellfish concentration area, as designated on the resource maps, and submerged aquatic vegetation, which has been observed during several field visits although; it is not referenced on any known DEP inventory. This site is also classified as being subject to coastal hazards, including inundation by flooding, as well as exposure to waves. Attached is a letter from the DEP's National Data Diversity Base, highlighting that there are no flora or fauna species of concern at this site. Discussions on January 20, 2011 with the DEP fisheries office in Old Lyme seem to indicate that while Horseshoe Crab spawning activities might be a concern in the area, this scope of work will probably not be a factor for horseshoe crab spawning. The DEP Fisheries Office in Old Lyme was contacted and personally visited the site. They determined that the scope and location of the work would probably not require a seasonal limitation.

The climatological forces to which this site is exposed can be significant. Winds and storm driven waves from the southeast have usually proved destructive to the beach and the character, the sandy nature of the shoreline. Much of the sand is pushed in a westerly direction and ends up settling into the shallow subtidal zone or lower intertidal zone at the west end of the beach where the point property owned by the Beebe family, forms a trap. This sand loss leaves the upper reaches of the easterly beach bare and rocky. Some of the accumulation of sand at the westerly end of the site is then displaced out into the cove by the lower pond drainage structure creating a delta-like characteristic which could adversely affect the mooring field and threaten the eel grass (SAV) bed as well as the recreational boat mooring field. The purpose of this project is to take some of this sand that has ended up in the lower inter tidal zone, and put back on the beach, basically recycling it to a beneficial reuse area where it can be utilized for passive and active recreation.

# **GIANT'S NECK BEACH ASSOCIATION**

## **PRE-APPLICATION QUESTIONNAIRE**

### **Part III: Project Description**

3. Please discuss any alternatives to the proposed work. **Continued from Page 2 of 5**

The alternatives really boil down to two options: To do nothing and let the beach continue to erode sand, as it has through recent seasonal storms and climatic conditions, or to take an active part in restoring the beach sand quantity and quality by this permit. It is the choice of the Giants Neck Beach Association to pursue the beach sand replenishment option. This could also have a couple of variations; importing sands from local sand quarries, or recycling sand from the shallow inter tidal zone and placing it on the beach for sand replenishment. The latter option again is the preference of the GNBA.

Many alternatives have been studied with regard to this project. The location and configuration of the beach are fixed and cannot be altered. The source of sand, however, has been a major consideration and source of discussion for years at this site. It is felt that only three real options exist.

While it is possible to alter the beach and shoreline characteristics, permitting those changes would be time consuming and would probably not be successful. Such options include the installation of new groins to hold sand in its current locations. However, the DEP indicated that they very likely will not approve this approach. Other options included the installation of the breakwater or other wave attenuation devices to still waves before reaching the site. These schemes however, were considered unpermittable based on initial discussions with the Connecticut DEP.

The first viable and productive option is to re-grade existing sand and make the best of those conditions. A General Permit for that work is in effect and a copy is attached to this pre-application. With this option however, sand still migrates west and out into the cove and sand is progressively lost into the cove as evidenced by the long-term loss of sand from the beach. The amount of sand stockpiled this last year was 100 to 200 CY which will not cover extensive parts of the beach. This process could be even more effective if the quantity of sand could be supplemented.

The second option is to re-nourish the beach with materials from other areas. One way to accomplish this alternative is to import sand to the site. The primary disadvantage with "importing" sand is the quality of the sand particles. Currently, beach sand at the site is silica sand. Imported sand from local "bank run" gravel sources is almost always a decomposed granite material, which particles are angular in nature. This characteristic causes the sand to be uncomfortable to walk on and typically abrasive. While the "bank run" gravel sand particles maintain better stability in rain, they are still subject to being dislodged by wave action, and thus, not of a significant benefit to the site. Importing sand, over a long period of time will eventually fill in the cove, encroaching into the SAV beds and the mooring field, thus degrading the resource and the highly desirable use of this desirable, unique stretch of shoreline and coastal waters.

The third option is thus to recycle and re-utilize existing beach sand that becomes trapped at the westerly end of the "Mother's Beach", and re-spread it at the easterly end so that it stays in the same cyclic transport system on the beach. This process will supplement the existing General Permit beach re-grading process with sand from on site. This will allow economical and beneficial re-use of existing sand from the inter-tidal zone and keep the sand on the beach where it can provide maximum use and enjoyment for recreation. The cost of this course of action will be less than utilizing offsite sources of sand repeatedly. The important benefit is that this recycling process helps to forestall filling in the small cove off shore at Mother's Beach. It is anticipated that it will be necessary to repeat this sand recycling on an annual basis, in accordance with seasonal sand loss or as dictated by storm damage.

# **GIANT'S NECK BEACH ASSOCIATION PRE-APPLICATION QUESTIONNAIRE**

## **Part III: Project Description**

4. Please discuss any alternatives to the proposed work.

**Continued from page 2b of 5**

**As a supplemental consideration, snow fencing can be placed and will be placed on the upper reaches of the beach, landward of the high tide line, so that sands stored there during the winter months will tend to stay there rather than being blown from end to end and washed out into the cove. This option could be done without permits because the snow fencing would remain above the high tide line. The application drawings nonetheless, show snow fencing being installed seasonally above the high tide line for this sand retention purpose. This process will also compliment the existing General Permit beach grading process.**

**Options for the "Armor-Flex" seawall scour protection included several possibilities including stone work, a cast-in place concrete splash pad, a stair stepped waterfall stilling basin(s), drainage pipe extensions or rerouting and modifications to the upstream drainage and storm water detention pond drainage and overflow system. All of these were rejected because they incrementally segmented the beach or took up more precious beach frontage than could be considered acceptable by GNBA or could be consistent with the DEP program guidelines through the Coastal Management Act.**

**This latter option also considered the installation of a sub-surface drainage pipe system from the existing pond discharge pipes and out into the cove, either hugging the shoreline or set back into the Beebe property. This option has been discussed in detail with the DEP. There are several issues to be resolved in this case.**

**The piped system would have to discharge out beyond the delta-like accumulations of sand in the shallow sub-tidal zone so it would be deep enough so as not to restrict or interfere with beach usage or be plugged by littoral sand migration. The discharge point must be 500 feet from the tidal wetlands / peat bog along the Beebe's shoreline. This resource buffer puts the discharge point almost out to, if not in the eel grass bed. Because this piping system would be located in the shifting sands environment, it should be cradled, or structurally supported to keep it intact and in alignment. This will be a considerable expense. It may also cause the pipe to become exposed when sands erode.**

**Alternative routing for the pipe across the Beebe property can be done but the shoreline sediments become more rocky out near the point and construction costs would certainly reflect the more significant length and work effort. Costs of more than \$100, possibly \$200 per foot would have to be anticipated. The discharge point would still have to be 500 feet from the tidal wetlands bog and thus still be a considerable distance out into the cove. The DEP would probably have trouble accepting either of these options as minimally intrusive or consistent with their least environmental impact preferences.**

**A major concern about an underwater pipe discharge end is the inevitability of plugging by sand. If plugging were to occur, and this is believed to be inevitable, the head required to push water through the pipe would probably cause the lower pond to overflow its southwesterly bank. The waters would thus flow overland across the road and probably erode the beach substantially at the west end.**

**For all of these reasons, a piped drainage system is not considered to be the best option. The "Armor Flex" option is considered to be the best option for several reasons.**

**Armor Flex mats are heavy, approximately 10,000 pounds, perhaps more, which means they will not be easily moved by waves that are typically seen in the cove.**

# **GIANT'S NECK BEACH ASSOCIATION PRE-APPLICATION QUESTIONNAIRE**

## **Part III: Project Description**

2. Please discuss any alternatives to the proposed work.

**Continued from page 2c of 5**

**Installation involves minimum excavation effort which means fairly quick and easy installation with minimal adverse impacts and delay.**

**Armor Flex mats are flexible which means that if the beach in front of the drainage pipes is scoured, the edges of the mats can settle with the changing contours.**

**If the beach contours change too much or if excessive scour occurs, the mats can be removed, foundation base work can be re-established and the mats can be re-set. This by itself is a tremendous advantage over any fixed or cast-in-place structure.**

## Part IV: Construction Activities

1. Will you be constructing, altering, rebuilding, or substantially repairing any dam, dike or flood and erosion control structure or similar structure?

Yes       No

*If yes, please describe.*

2. Will the project involve the use of any heavy equipment?       Yes       No

*If yes, please describe what type.*

**Continued on Page 3a of 5**

3. Will any wetlands and/or watercourses be altered or disturbed during construction?       Yes       No

*If yes, what is the extent of the area to be altered (in acres) and what restoration is proposed?*

4. Will any watercourse be filled, excavated, dredged, relocated, piped, rip rapped, or channelized at any time during construction?       Yes       No

*If yes, please describe.*

5. Will construction involve any of the following (check all that apply)?

Site dewatering       Construction of any temporary structures

Fill, dredging and/or excavation

*If yes, please describe.*

**This project will recycle beach sand from it's location in the delta down stream of the lower pond level control discharge pipes to its rightful place on the high beach to restore conditions damaged by storms.**

6. Are there any erosion/turbidity control devices proposed?       Yes       No

*If yes, please describe.*

**The excavation will be done at low tide and stockpiled on the upper reach of the west beach where it will be picked up by a loader and deposited on the easterly beach, windrowed so as to be re-spread by a prevailing high tide waves down the beach to the low water line.**

# **GIANT'S NECK BEACH ASSOCIATION PRE-APPLICATION QUESTIONNAIRE**

## **Part IV: Construction Activities**

2. Will the project involve the use of any heavy equipment?

**Continued from Page 3 of 5**

**It is anticipated that heavy equipment will be utilized in this construction process for both beach sand recycling and the seawall / drainage pipe protection. It will be necessary for an excavator or crane sitting on the high part of the beach at the west end of the site to excavate sand from lower tidal zone about 40 to 70 feet out. Sand will be stockpiled on the upper beach at that site where it will be picked up by a loader and transported down the beach to the easterly end, placed in a "windrow" along the high beach. From this point the sand will naturally disperse down gradient during exposure to high tides and waves. It is envisioned that no formal grading will be required on the high beach sand as a part of the initial phase of the work.**

**The flexible concrete erosion and scour protection mats, which are to protect the drainage outflow pipes and the granite stone sea wall which retains and protects the roadway base, will be placed by the same heavy equipment. The first step in that process will be to grade the sand below the pipes into a smooth sloping surface. The slope would be fairly steep, at approximately a 1 to 4 slope, so that 15 feet out from the drain pipes the grade will be four feet lower than the pipes. This will put the lowest end of the matting approximately at or just below the mean low water elevation. The two mats will be placed with a slight overlap, but more or less end to end, forming a square splash pad approximately 16 feet square. The filter fabric on the bottom of the articulated slabs will protect the bedding materials from being scoured during breaking wave action at the site. It is anticipated that a gravel or crushed stone bedding will be placed to form a firm work surface and foundation for the mats. Again, this foundation stone will not easily be disturbed by wave action because it will be protected by the filter fabric on the bottom of the concrete slab mats. These "articulated" concrete mats weigh several tons and so their mass will be beneficial in resisting displacement forces from wave energy from the cove.**

## Part V: Miscellaneous Project Planning Information

1. Will the project utilize any public funds?  Yes  No  
If yes, check type.  Federal  State

If there is a state agency other than the DEP involved in the project and/or managing federal funds related to this project, please list the agency, and a project contact at that agency.

2. What other permits - federal and municipal - does the project require?

**Municipal – The Town of East Lyme – Special Permit and Coastal Site Plan**  
**Federal – US Army Corp. of Engineers**

**Planning and Zoning Commission must approve a Coastal Erosion Control Permit for this project.**

3. Please include any other information that you believe will help accurately describe the project.

**The purpose of this project is to recycle existing sand which has been lost from the beach, and do it an effective way that restores the desirability of the Mother's Beach for public use and access without adverse filling or creation of extensive drainage structures. This project is consistent with standards and criteria set for in the coastal management act and the structures and dredging act. This project requires no mitigative measures in order to be consistent with statutory criteria of the OLISP.**

**Attached with this pre-application are copies of the extensive topographic and hydrographic survey prepared for the Beach Association in 2009. There are no tidal wetlands or submerged aquatic vegetation in the work area, and this has been confirmed by Richard Snarski, Certified Soil Scientist #1975 and Wetland Scientist #1391. The survey has been based upon the National Geodetic Vertical Datum of 1929 (NGVD'29).**

**This project has been configured so as to be consistent with Office of Long Island Sound Programs standards and criteria for approval and has undergone extensive coordination with the Office of Long Island Sound Programs DEP Fisheries and the DEP NDDB prior to preparation of this document.**

**There are no known or foreseeable adverse impacts which might induce erosion or loss of soil at the beach. This project is intended recycle beach sand from the low beach to high beach to rectify erosion and loss of sand from the beach that historically occurs during prevailing climatic and tidal conditions. There should be no adverse sedimentation or erosion characteristics produced as a result of this beach sand recycling project.**

**Continued on Page 4a of 5**

# **GIANT'S NECK BEACH ASSOCIATION PRE-APPLICATION QUESTIONNAIRE**

## **Part V: Miscellaneous Project Planning Information**

**Continued from Page 4 of 5**

3. Please include any other information that you believe will help accurately describe the project.

**This project will not have a significant adverse environmental impact on coastal shoreline resources and hopefully will help to reduce or forestall adverse impacts to the eel grass beds and mooring field in the cove, thus being beneficial to coastal resources and coastal uses. The work will be done at low tide so as not to induce a sediment or significant turbidity in the water. There will be no impediment to longshore pedestrian access except during the actual process of the work, which should be of limited duration. This project is intended to restore the desirability of pedestrian access along shore as well as in the shallow sub-tidal waters. The project will not adversely effect water flow and circulation patterns along the "Mother's Beach". The area from which sand is excavated will quickly fill in with sand from the shallow sub-tidal zone just off shore and some subsidence of the upland sand. This project will not have an adverse impact on longshore sediment transport and will not change drainage patterns in the area. The DEP Fisheries staff has reviewed the project firsthand and agrees that project impact should be minimal and not adverse. There may be a seasonal restriction to prevent impact to Horseshoe crab spawning if they are observed in the area. This would require work to be done prior to the end of April each year but the latest communications with fisheries seemed to indicate that seasonal restructures would not be required.**

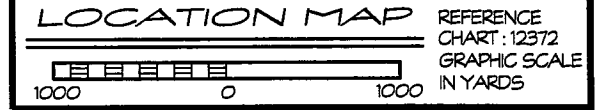
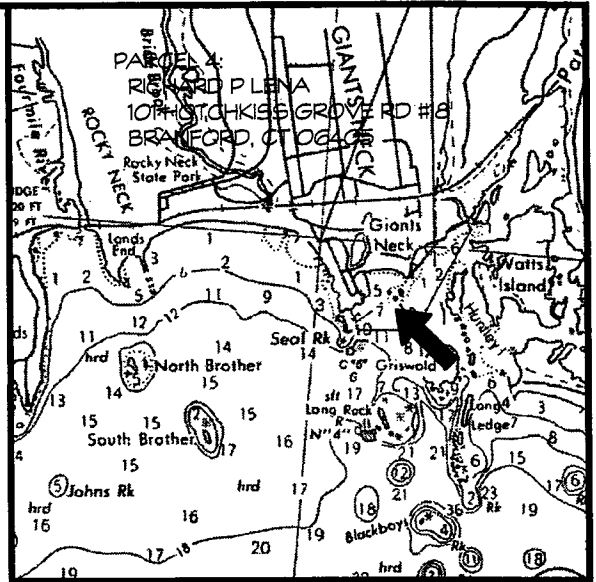
## Part VI: Supporting Documents

Please submit one copy of the following with this form:

1. An 8.5" x 11" copy of the relevant portion of a United States Geological Survey topographic map with an arrow marking the location of the site.
2. A site plan showing:
  - the project's footprint;
  - the location of environmentally sensitive areas, e.g., coastal resources, stream channel encroachment lines, aquifer protection zones, floodplains, wetlands, watercourses, etc.;
  - a notation of the scale used;
  - existing versus proposed conditions;
  - tidal elevations, including datum used (MLW or NGVD 1929)
3. Photographs of the site at low tide and high tide (If tidal wetlands are present, photographs must be taken during the growing season).
4. For dredging projects, please provide the following:
  - plans showing the lowest predicted tide
  - If dredged sediment will go upland, plans must show upland disposal areas, groundwater sources, dewatering areas. Please indicate if you have coordinated with the Remediation Division (860-424-3705) for upland disposal.
  - If any previous dredging permits have been issued, plan view showing previously authorized areas versus current proposed dredging footprints. *(This is important to determine if any areas of the dredging project could be COP eligible)*
5. Any previous authorizations/enforcement actions for the site.

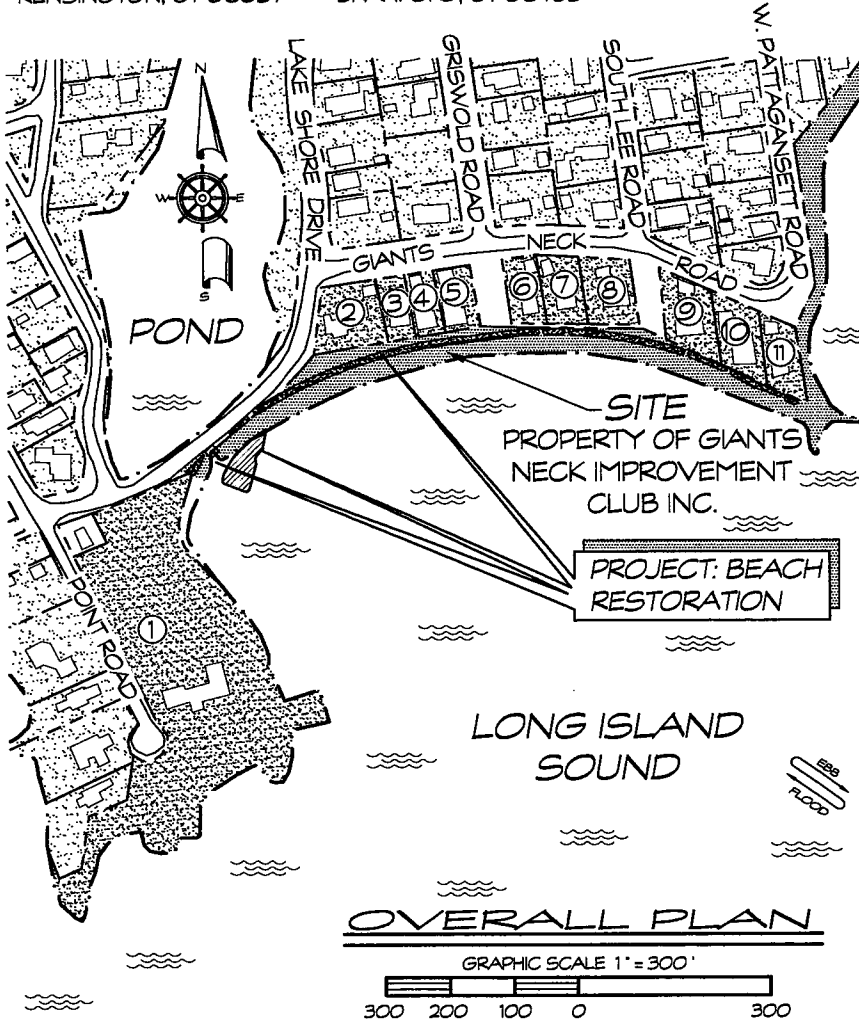
6. ADJOINING PROPERTY OWNERS:

- |   |  |
|---|--|
| <p>PARCEL 1:<br/>HORSE HILL REALTY LLC<br/>231 INGHAM HILL RD.<br/>OLD SAYBROOK, CT 06475</p> | <p>PARCEL 2:<br/>CHRISTOPHER J &amp; GLORY M LENA<br/>289 GIANTS NECK RD<br/>NIANTIC, CT 06357</p> |
| <p>PARCEL 3:<br/>JANET R KNAUS et al<br/>222 HILLSIDE RD<br/>KENSINGTON, CT 06037</p>         | <p>PARCEL 4:<br/>RICHARD P. LENA<br/>101 HOTCHKISS GROVE ROAD<br/>BRANFORD, CT 06405</p>           |



NOTES:

- ELEVATION DATUM IS NGVD 1929.
- TIDE DATA IS TAKEN FROM 2010 NOAA TIDE TABLES REFERENCE : MILLSTONE POINT/NEW LONDON.
- PROJECT DESCRIPTION:  
INSTALL 256±SF OF "ARMOR FLEX" CONCRETE MAT SCOUR PROTECTION WITH 15±CY OF ASSOCIATED CRUSHED STONE BASE OVER 260±SF LANDWARD OF THE HIGH TIDE LINE. EXCAVATE 500±CY OF CLEAN SAND OVER 3,500±SF LANDWARD OF THE MEAN LOW WATER LINE AND PLACE IN BERMS OVER 8,500±SF LANDWARD OF THE HIGH TIDE LINE FOR BEACH SAND RENOURISHMENT.
- PROJECT PURPOSE:  
THIS IS A PRIVATE BEACH USED FOR FOR RECREATIONAL WATERFRONT ACCESS.
- THESE APPLICATION DRAWINGS REPRESENT A COMPILATION OF SURVEYS FOR ENVIRONMENTAL PERMIT PURPOSES. THEY ARE NOT CONSTRUCTION CONTRACT DOCUMENTS. A TOWN BUILDING PERMIT MAY BE REQUIRED.



6. ADJOINING PROPERTY OWNERS CONTINUED:

- |  |   |  |  |
|--|---|--|--|
| <p>PARCEL 5:<br/>IRENE DASCO MADDEN et al<br/>765 LAUREL ST<br/>LONG MEADOW, MA 61106</p>              | <p>PARCEL 6:<br/>LEON H. &amp; ANNE S. CALANQUIN<br/>299 GIANTS NECK ROAD<br/>NIANTIC, CT 06357</p> | <p>PARCEL 7:<br/>ROBERT G. &amp; MARY L. JOHNSON<br/>3737 WONDERLAND HILL AVENUE<br/>BOULDER, CO 80304</p> | <p>PARCEL 8:<br/>ARTHUR H. HOUSE<br/>137 WEATOGUE<br/>SIMSBURY, CT 06070</p> |
| <p>PARCEL 9:<br/>PETER W. &amp; ROSALIND B. SHOEMAKER<br/>16624 SEDONIA DEVILA<br/>TAMPA, FL 33613</p> | <p>PARCEL 10:<br/>VICTOR J. DOWLING JR<br/>168 WEST LEDGE ROAD<br/>WEST SIMSBURY, CT 06092</p>      | <p>PARCEL 11:<br/>GERARD A. TRAMONTOZZI<br/>166 MIDDLE BEACH ROAD<br/>MADISON, CT 06443</p>                |  |

PROJECT: BEACH RESTORATION

LOCATION: GIANTS NECK - TOWN OF EAST LYME  
NEW LONDON COUNTY, CONNECTICUT

WATERWAY: LONG ISLAND SOUND

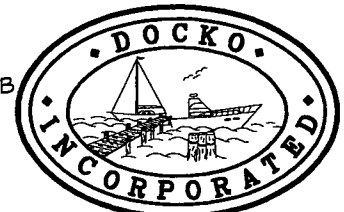
DATE: JANUARY 20, 2011

APPLICANT: GIANTS NECK BEACH  
ASSOCIATION & IMPROVEMENT CLUB

AGENT: SHEET 1 OF 7

**DOCKO, INC.**

Keith B. Nellson, PE  
Mystic, CT 06355  
860 572 8939 FAX 860 572 7569  
EMAIL: permits@docko.com

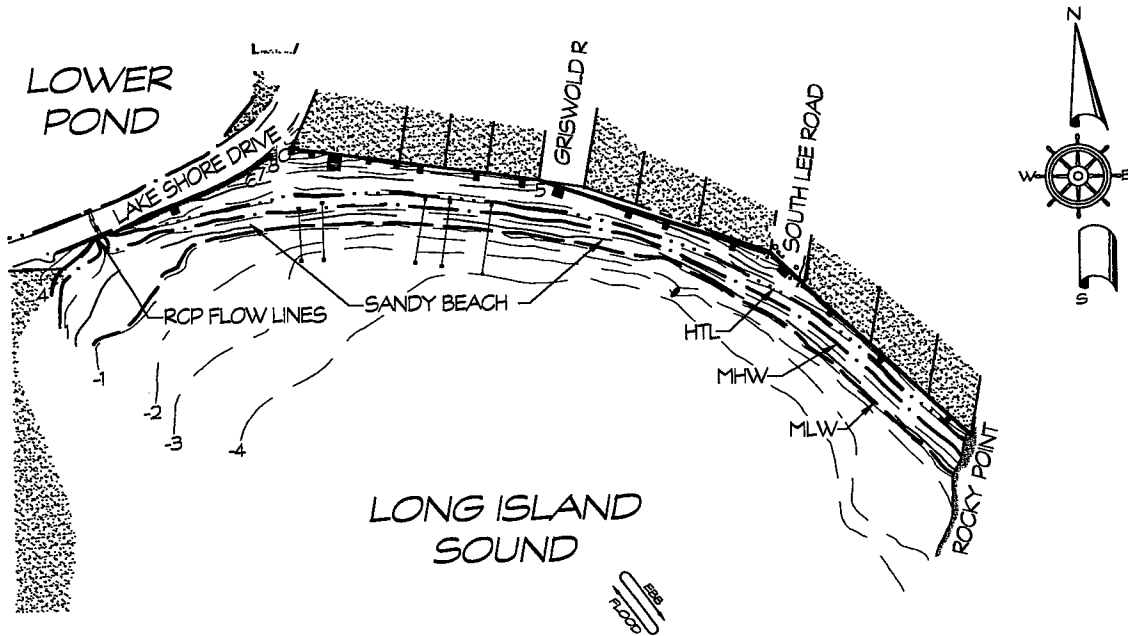


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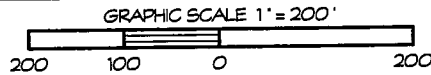
**DRAFT**

NOTE:  
NO OSPREY POLES WERE OBSERVED  
WITHIN 500-FT OF THE SITE

DEP RESOURCES  
BEACHES AND DUNES  
ROCKY SHOREFRONTS  
NEARSHORE WATERS  
MODIFIED BLUFFS/ESCARPMENTS  
COASTAL FLOOD HAZARD  
SHELLFISH CONCENTRATION AREAS



**EXISTING CONDITIONS**



SURVEY : by ROBERT BARON

**DRAFT**

PROJECT: **BEACH RESTORATION**

LOCATION: GIANTS NECK - TOWN of EAST LYME  
NEW LONDON COUNTY, CONNECTICUT

WATERWAY: LONG ISLAND SOUND

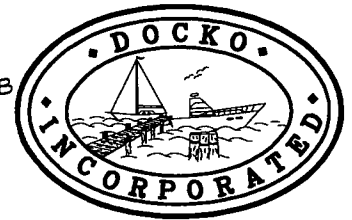
DATE: JANUARY 20, 2011

APPLICANT: GIANTS NECK BEACH  
ASSOCIATION & IMP. CLUB

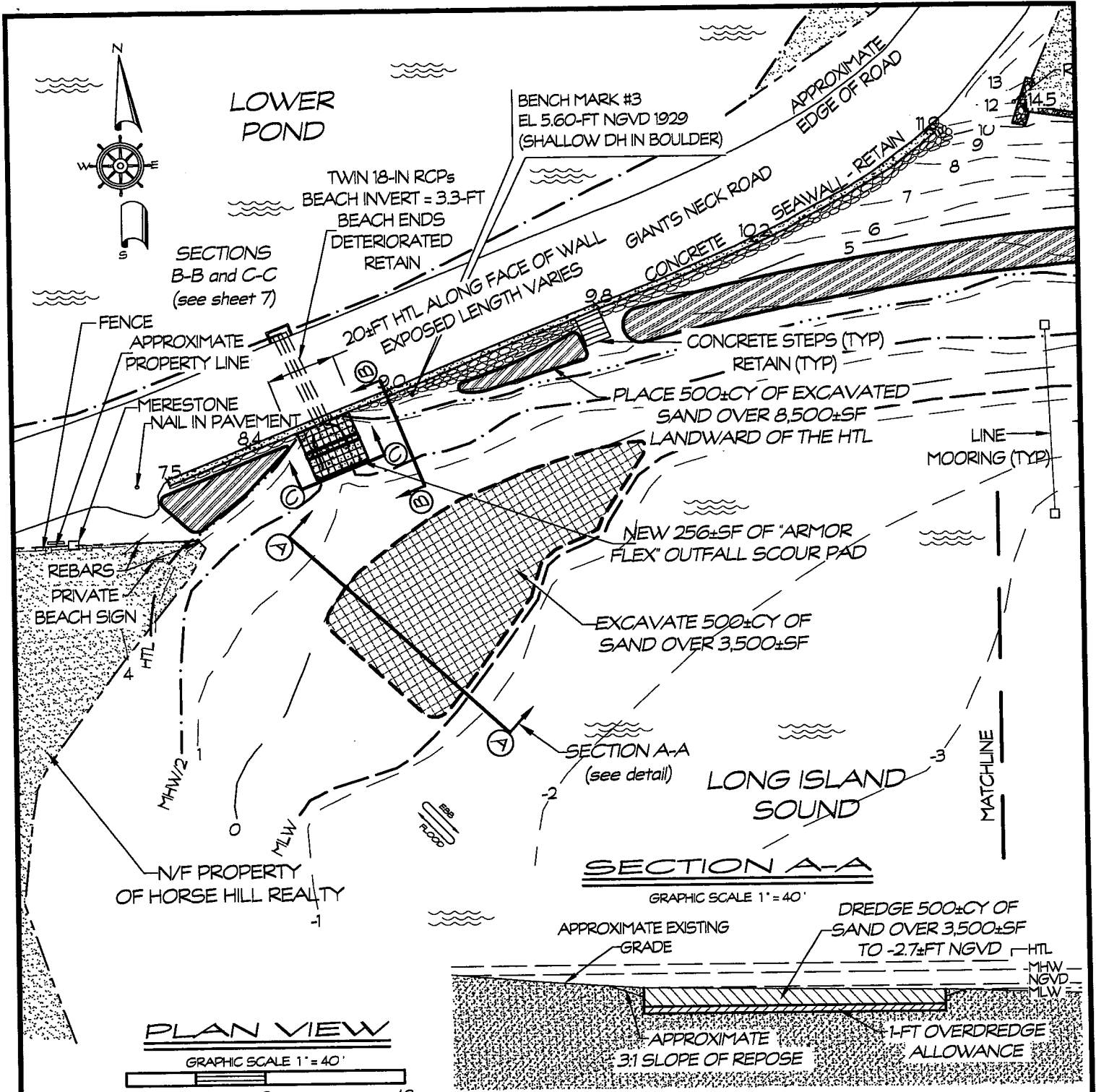
AGENT: SHEET 2 OF 7

**DOCKO, INC.**

Keith B. Nelson, PE  
Mystic, CT 06355  
860 572 8939 FAX 860 572 7569  
EMAIL: permits@docko.com

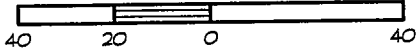


DWG 09-08-2149



**PLAN VIEW**

GRAPHIC SCALE 1" = 40'



SURVEY: by ROBERT BARON

**DRAFT**

PROJECT: BEACH RESTORATION

LOCATION: GIANTS NECK - TOWN of EAST LYME  
NEW LONDON COUNTY, CONNECTICUT

WATERWAY: LONG ISLAND SOUND

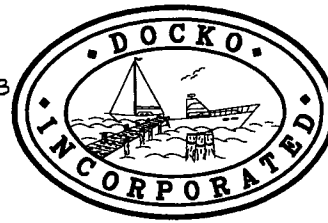
DATE: JANUARY 20, 2011

APPLICANT: GIANTS NECK BEACH  
ASSOCIATION & IMP. CLUB

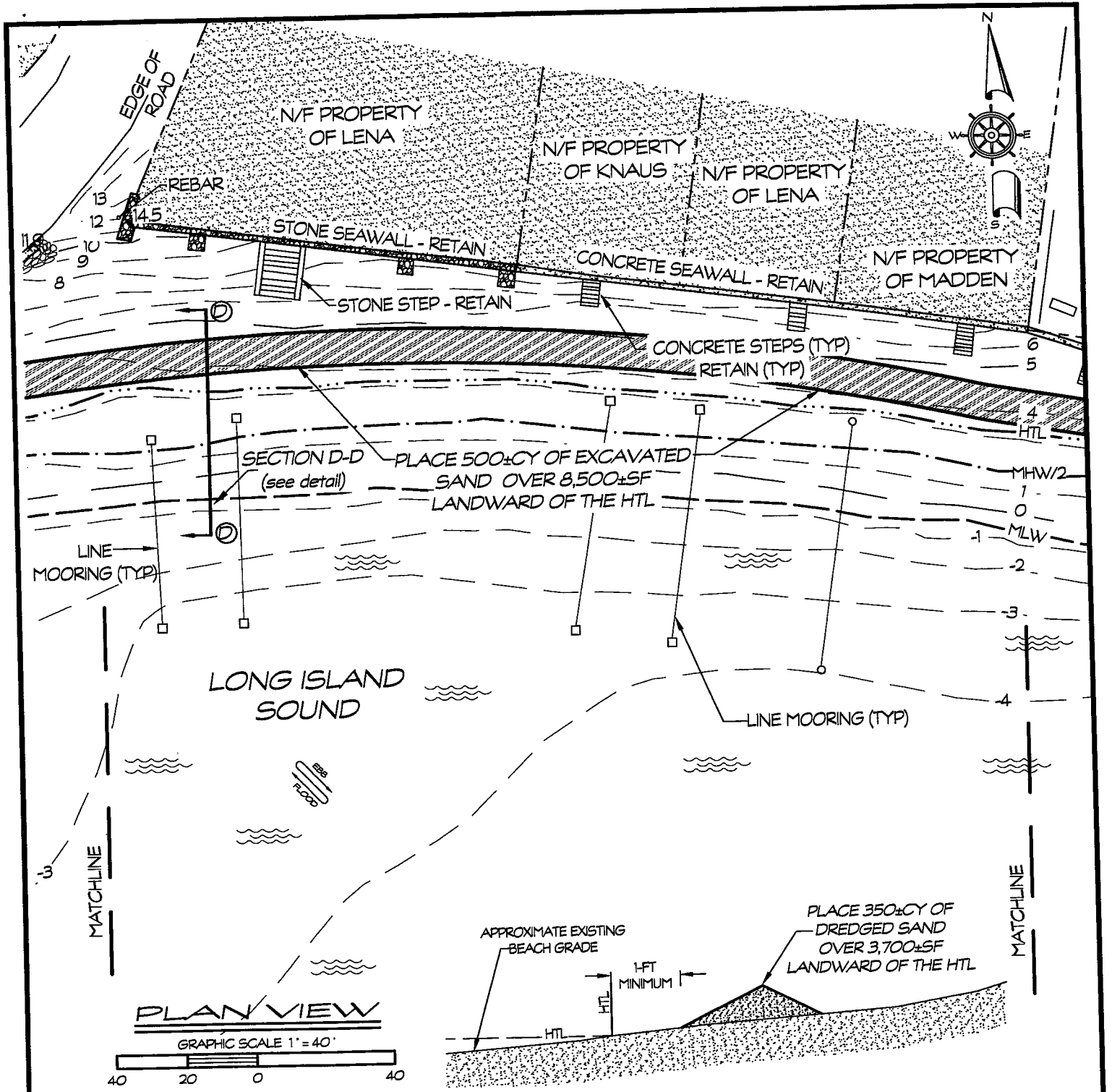
AGENT: SHEET 3 OF 7

**DOCKO, INC.**

Keith B. Nellson, PE  
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EMAIL: permits@docko.com



DWG 09-08-2149



SURVEY : by ROBERT BARON

PROJECT: BEACH RESTORATION

LOCATION: GIANTS NECK - TOWN of EAST LYME  
NEW LONDON COUNTY, CONNECTICUT

WATERWAY: LONG ISLAND SOUND

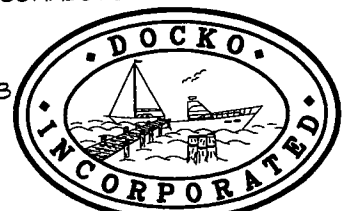
DATE: JANUARY 20, 2011

APPLICANT: GIANTS NECK BEACH  
ASSOCIATION & IMP. CLUB

AGENT: SHEET 4 OF 7

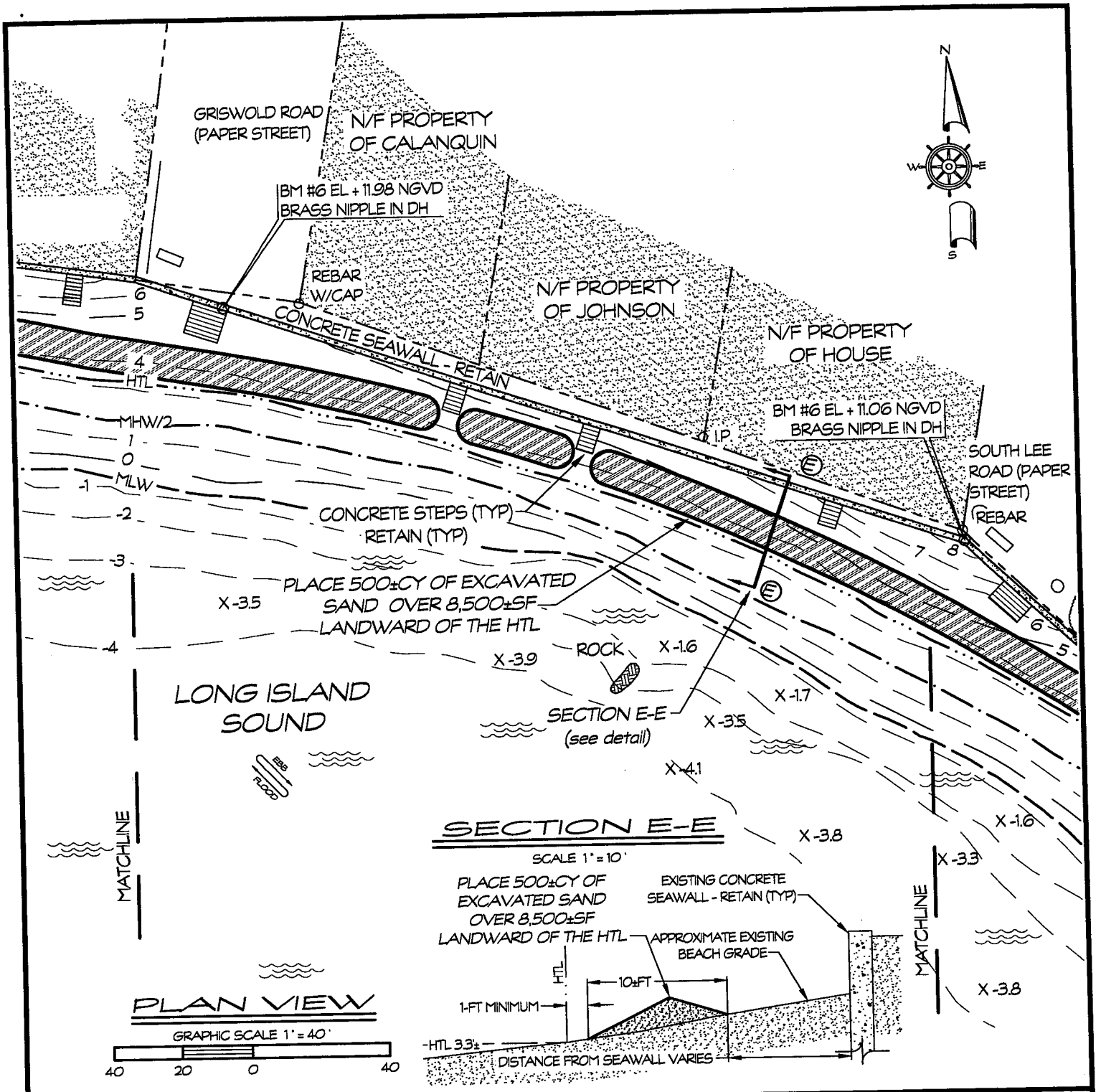
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DWG 09-08-2149

**DRAFT**



SURVEY : by ROBERT BARON

PROJECT: BEACH RESTORATION

LOCATION: GIANTS NECK - TOWN of EAST LYME  
NEW LONDON COUNTY, CONNECTICUT

WATERWAY: LONG ISLAND SOUND

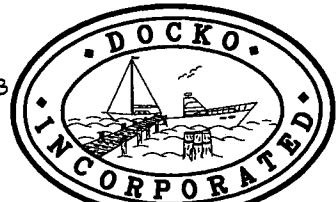
DATE: JANUARY 20, 2011

APPLICANT: GIANTS NECK BEACH  
ASSOCIATION & IMP. CLUB

AGENT: SHEET 5 OF 7

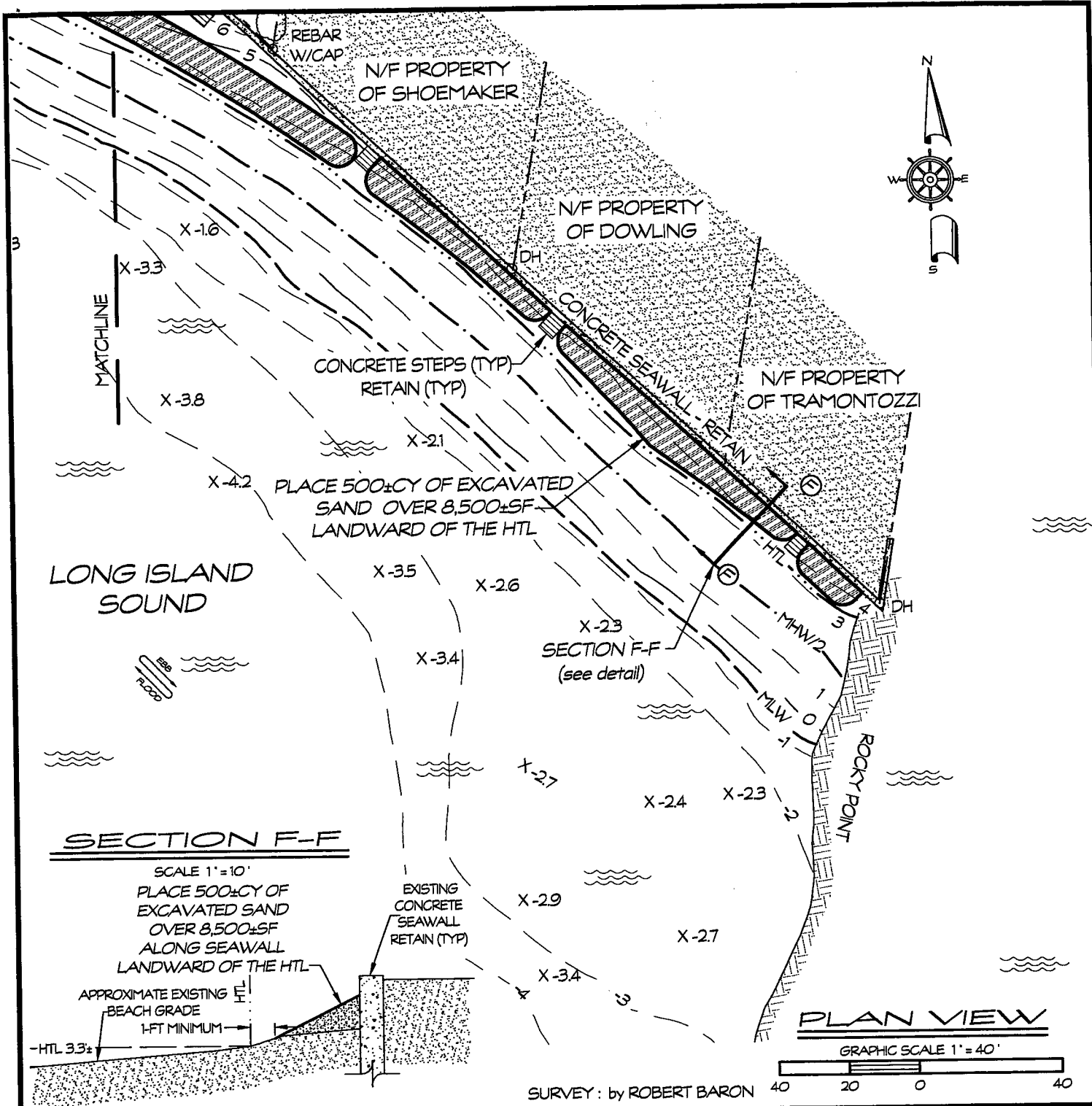
**DOCKO, INC.**

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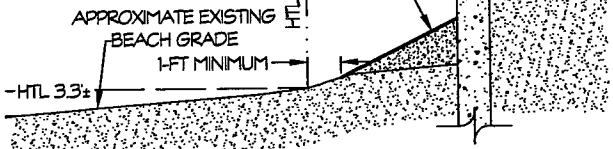
DWG 09-08-2149

**DRAFT**

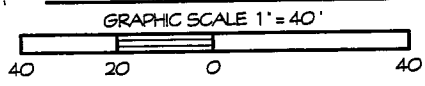


**SECTION F-F**

SCALE 1" = 10'  
 PLACE 500±CY OF EXCAVATED SAND OVER 8,500±SF ALONG SEAWALL LANDWARD OF THE HTL



**PLAN VIEW**

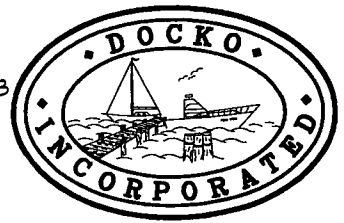


SURVEY : by ROBERT BARON

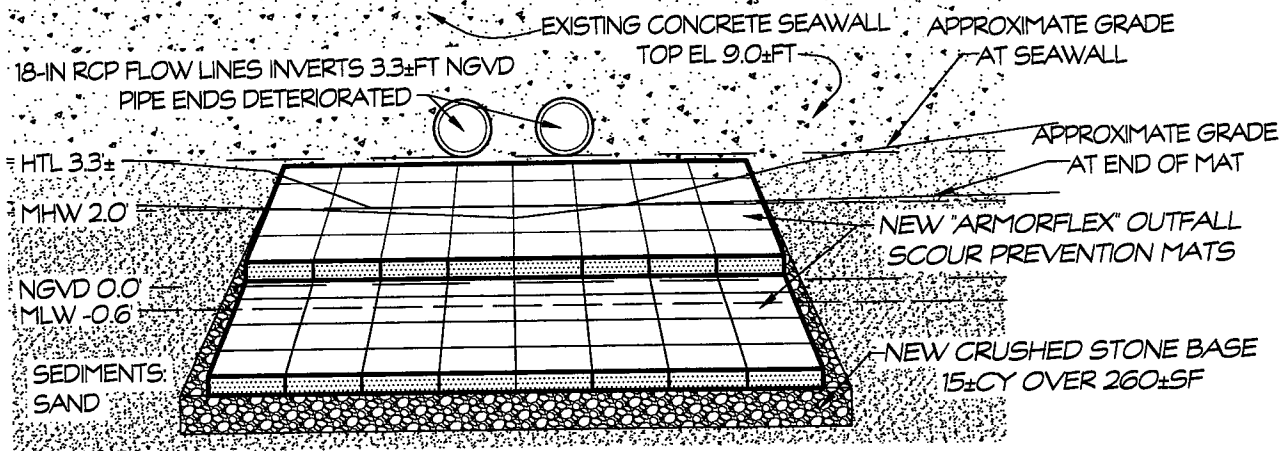
**DRAFT**

PROJECT: BEACH RESTORATION  
 LOCATION: GIANTS NECK - TOWN of EAST LYME  
 NEW LONDON COUNTY, CONNECTICUT  
 WATERWAY: LONG ISLAND SOUND  
 DATE: JANUARY 20, 2011  
 APPLICANT: GIANTS NECK BEACH ASSOCIATION & IMP. CLUB  
 AGENT: SHEET 6 OF 7

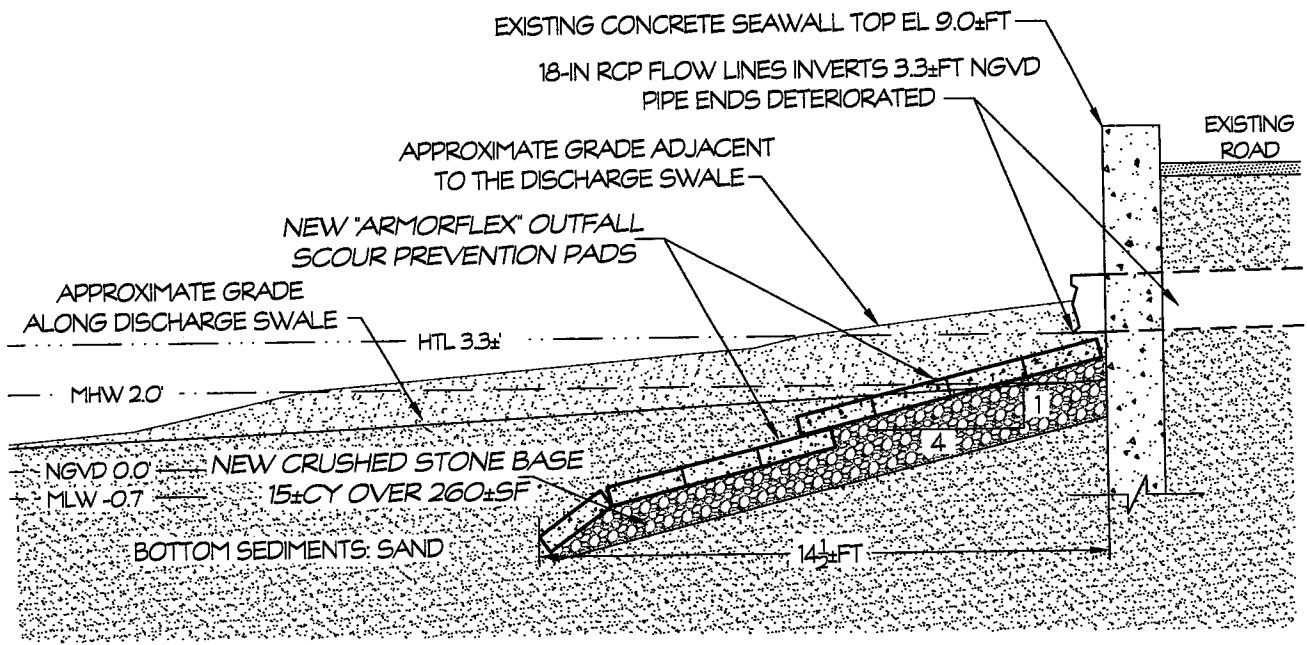
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**SECTION C-C**  
GRAPHIC SCALE 1" = 5'

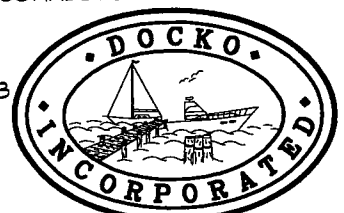


**SECTION B-B**  
GRAPHIC SCALE 1" = 5'

ELEVATIONS ARE BASED ON NGVD 1929

**DRAFT**

PROJECT: BEACH RESTORATION  
 LOCATION: GIANTS NECK - TOWN of EAST LYME  
 NEW LONDON COUNTY, CONNECTICUT  
 WATERWAY: LONG ISLAND SOUND  
 DATE: JANUARY 20, 2011  
 APPLICANT: GIANTS NECK BEACH  
 ASSOCIATION & IMP. CLUB  
 AGENT: SHEET 7 OF 7  
**DOCKO, INC.**  
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 Mystic, CT 06355  
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