



**US Army Corps
of Engineers**®
New England District
696 Virginia Road
Concord, MA 01742-2751

PUBLIC NOTICE

Comment Period Begins: October 21, 2014
Comment Period Ends: November 19, 2014
File Number: NAE-2011-2017
In Reply Refer To: Kevin R. Kotelly, P.E.
Phone: (978) 318-8703
E-mail: kevin.r.kotelly@usace.army.mil

The District Engineer has received a permit application to conduct work in waters of the United States from the Massachusetts Electric Company d/b/a National Grid, 40 Sylvan Road, Waltham, Massachusetts 02451. This work is proposed in Gloucester Harbor at Harbor Loop, Gloucester, Massachusetts 01930. The site coordinates are: Latitude 42.610776° N, Longitude -70.658763°W.

The work involves work, structures, and the placement of fill material below the high tide line of waters of the United States in order to perform the former Gloucester Gas Light Company Manufactured Gas Plant Remediation Project. The work includes the mechanical dredging of a 7 acre area to depths of 3 to 27 feet below mean low water. Up to 30,000 cubic yards of sediment will be dredged and disposed of at an upland disposal facility. The material will be dewatered and mixed with a stabilizing agent prior to disposal. Water collected from the material will be pumped to temporary storage tanks located within the water processing and storage area or on support barges. These liquids will either be transported to an off-site disposal facility or treated on site on support barges or within the water processing and storage area and discharged to either a water treatment facility or to surface water. Select structures in the nearshore may be removed and replaced in kind to facilitate dredging. A portion of the dredging will take place within the limits of the Gloucester Harbor Federal Navigation Project.

Following dredging, clean backfill material will be placed within a portion of the dredge footprint to restore some of the areas to existing grade and re-establish habitat. A porewater cap will be constructed in the nearshore area adjacent to the US Coast Guard property, Solomon Jacobs Park, and the National Grid property to address impacted sediment porewater that has the potential to present a future risk to ecological receptors. Additionally, construction of a section of new seawall will be located seaward of the existing seawall in order to place fill necessary for source control as well as to provide seawall stability associated with dredging activities. Construction of a section of new seawall will also be located landward of an existing seawall to prevent further migration of coal tar contamination to the harbor, as well as to provide seawall stability associated with dredging activities. The removal of fill landward of another portion of the existing seawall will result in a net increase of waters of the United States.

The project is intended to implement remedial actions that satisfy Massachusetts Contingency Plan required cleanup objectives for both upland and marine areas of the Site. The work is shown on the attached plans entitled, "Former Gloucester Gas Light Company MGP Facility, Gloucester, Massachusetts," on 13 sheets, and dated August, 2014.

In designing the Project, the Applicant attempted to avoid and minimize impacts as much as possible through the use of fisheries time of year restrictions and siltation booms. The Applicant is proposing compensatory mitigation for unavoidable impacts such as creation of compensatory tidal areas, increased subtidal habitat area,

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FILE NO. NAE-2011-2017

and habitat enhancement in existing areas. Options for compensatory mitigation are being considered by the Corps of Engineers.

AUTHORITY

Permits are required pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899
- Section 404 of the Clean Water Act
- Section 103 of the Marine Protection, Research and Sanctuaries Act.

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972, as amended.

ESSENTIAL FISH HABITAT

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-267), requires all federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH).

This project will impact approximately 7 acres of Essential Fish Habitat (EFH) for Atlantic cod (*Gadus morhua*), haddock (*Melanogrammus aeglefinus*), whiting (*Merluccius bilinearis*), red hake (*Urophycis chuss*), white hake (*Urophycis tenuis*), redfish (*Sebastes fasciatus*), witch flounder (*Glyptocephalus cynoglossus*), winter flounder (*Pseudopleuronectes americanus*), yellowtail flounder (*Limanda ferruginea*), American plaice (*Hippoglossoides platessoides*), ocean pout (*Macrozoarces americanus*), Atlantic halibut (*Hippoglossus hippoglossus*), Atlantic sea scallop (*Placopecten magellanicus*), Atlantic sea herring (*Clupea harengus*),

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FILE NO. NAE-2011-2017

monkfish (*Lophius americanus*), long finned squid (*Loligo pealeii*), short finned squid (*Illex illecebrosus*), Atlantic butterfish (*Peprilus triacanthus*), Atlantic mackerel (*Scomber scombrus*), summer flounder (*Paralichthys dentatus*), scup (*Stenotomus chrysops*), black sea bass (*Centropristis striata*), surf clam (*Spisula solidissima*), ocean quahog (*Artica islandica*), and bluefin tuna (*Thunnus thynnus*). Habitat at this site can be described as unvegetated substrate with some debris.

Loss of this habitat may adversely affect the species listed above. However the District Engineer has made a preliminary determination that the site-specific adverse effect will not be substantial. Further consultation with the National Marine Fisheries Service regarding EFH conservation recommendations is being conducted and will be concluded prior to the final decision.

NATIONAL HISTORIC PRESERVATION ACT

Based on his initial review, the District Engineer has determined that the proposed work may impact properties listed in, or eligible for listing in, the National Register of Historic Places. Additional review and consultation to fulfill requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

ENDANGERED SPECIES CONSULTATION

The New England District, Army Corps of Engineers has reviewed the list of species protected under the Endangered Species Act of 1973, as amended, which might occur at the project site. It is our preliminary determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect any Federally listed endangered or threatened species or their designated critical habitat. By this Public Notice, we are requesting that the appropriate Federal Agency concur with our determination.

COASTAL ZONE MANAGEMENT

The States of Connecticut, Maine, Massachusetts, New Hampshire and Rhode Island have approved **Coastal Zone Management Programs**. Where applicable, the applicant states that any proposed activity will comply with and will be conducted in a manner that is consistent with the approved Coastal Zone Management Program. By this Public Notice, we are requesting the State concurrence or objection to the applicant's consistency statement.

The following authorizations have been applied for, or have been, or will be obtained:


- (X) Permit, License or Assent from State.
- (X) Permit from Local Wetland Agency or Conservation Commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. Comments should be submitted in writing by the above date. If you have any questions, please contact Kevin Kotelly at (978) 318-8703, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

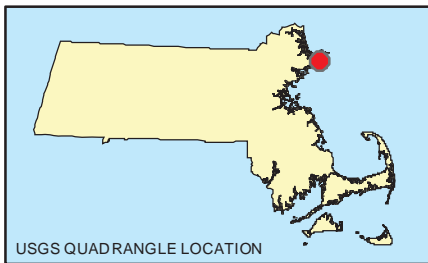
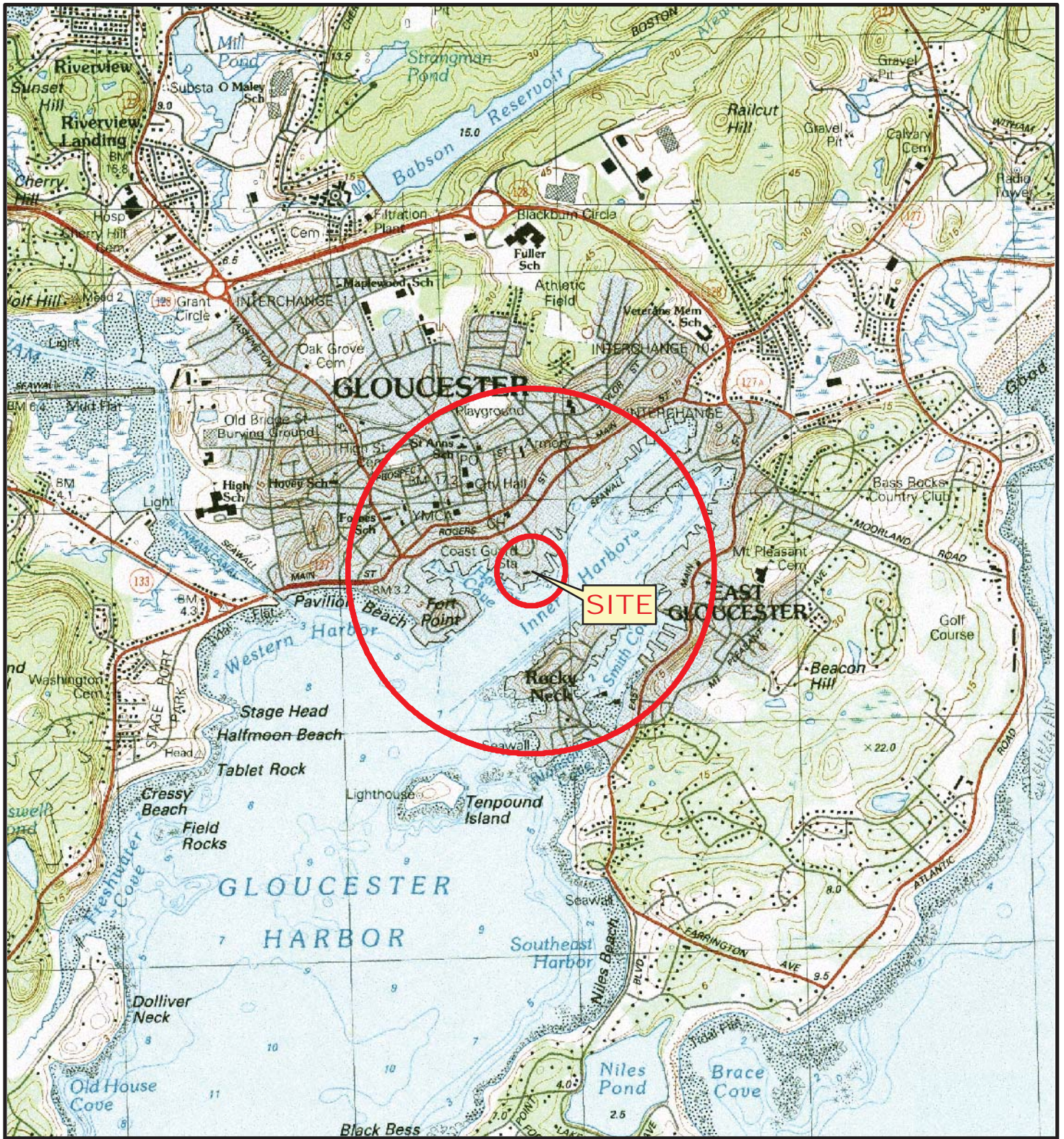
THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.



Karen K. Adams
Chief, Permits and Enforcement Branch
Regulatory Division

If you would prefer not to continue receiving Public Notices by email, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at bettina.m.chaisson@usace.army.mil. You may also check here () and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: _____
ADDRESS: _____
PHONE: _____



SOURCE : SCANNED USGS TOPOGRAPHIC QUADRANGLES
 SCANNED BY THE MASSACHUSETTS EXECUTIVE OFFICE OF
 ENVIRONMENTAL AFFAIRS, MASSGIS. DISTRIBUTED JUNE, 2001.

Data Supplied by :



PROJ. MGR.: JAC
 DESIGNED BY: KL
 REVIEWED BY: MJB
 OPERATOR: EMD
 DATE: 08-2014

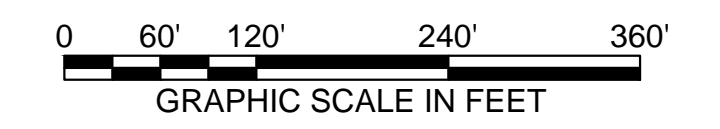
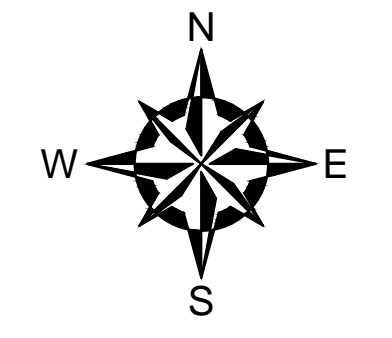
LOCUS PLAN
SHOWING 500 FOOT & 1/2 MILE RADII
FORMER GLOUCESTER GAS LIGHT COMPANY
MGP FACILITY
GLOUCESTER, MASSACHUSETTS

JOB NO.
 09.0025623.00
 FIGURE NO.
1A

GZA-A-100 - Boston Projects 0327-National Grid Former Gloucester MGP 100 PERCENT DESIGN SUBMITTAL PERMITTING CORP0327-001 (FIG 2).dwg [2] August 04, 2014 - 8:31am psc10b



- LEGEND**
- PROPOSED PROJECT AREA (LIMIT OF WORK AREA)
 - PROPERTY TO BE UTILIZED FOR REMEDIATION SUPPORT AREA
 - NAVIGATION CHANNEL LINE
 - BOUNDARIES OF PROPERTIES ENCOMPASSING PROJECT AREA
 - ASSESSOR'S LINE
 - GLOUCESTER INNER HARBOR DESIGNATED PORT AREA (DPA)
 - CITY OF GLOUCESTER ASSESSOR'S MAP AND LOT NUMBER



- NOTES:**
- SOURCE : THIS MAP CONTAINS THE ESRI ARCGIS ONLINE WORLD IMAGERY MAP SERVICE, PUBLISHED FEBRUARY 2011 BY ESRI ARCGIS SERVICES. THE SERVICE WAS COMPILED TO UNIFORM CARTOGRAPHY USING A VARIETY OF AVAILABLE SOURCES FROM SEVERAL DATA PROVIDERS.
 - THE SITE COORDINATES FOR THIS PROJECT DEFINE A LOCATION WITHIN THE SOLOMON JACOBS PARK, GLOUCESTER, MASSACHUSETTS WITH : LATITUDE N 42.610782, LONGITUDE W 70.659008.
 - THESE PLANS ARE INTENDED ONLY FOR ACCOMPANYING ENVIRONMENTAL PERMIT APPLICATIONS AND ARE NOT TO BE USED FOR CONSTRUCTION.
 - NAVIGATION CHANNEL BOUNDARY AND 2004 GLOUCESTER HARBOR LINE PREPARED FROM COORDINATES INCLUDED ON PLAN PREPARED BY THE BSC GROUP FOR THE CITY OF GLOUCESTER TITLED "2004 GLOUCESTER HARBORLINE." THE PRE-2004 GLOUCESTER HARBOR LINE IS FROM ELECTRONIC FILES PROVIDED BY HANCOCK ASSOCIATES ENTITLED "EXISTING CONDITIONS PLAN OF LAND IN GLOUCESTER, MA", DATED 5/22/09.

NO.	ISSUE/DESCRIPTION	BY	DATE

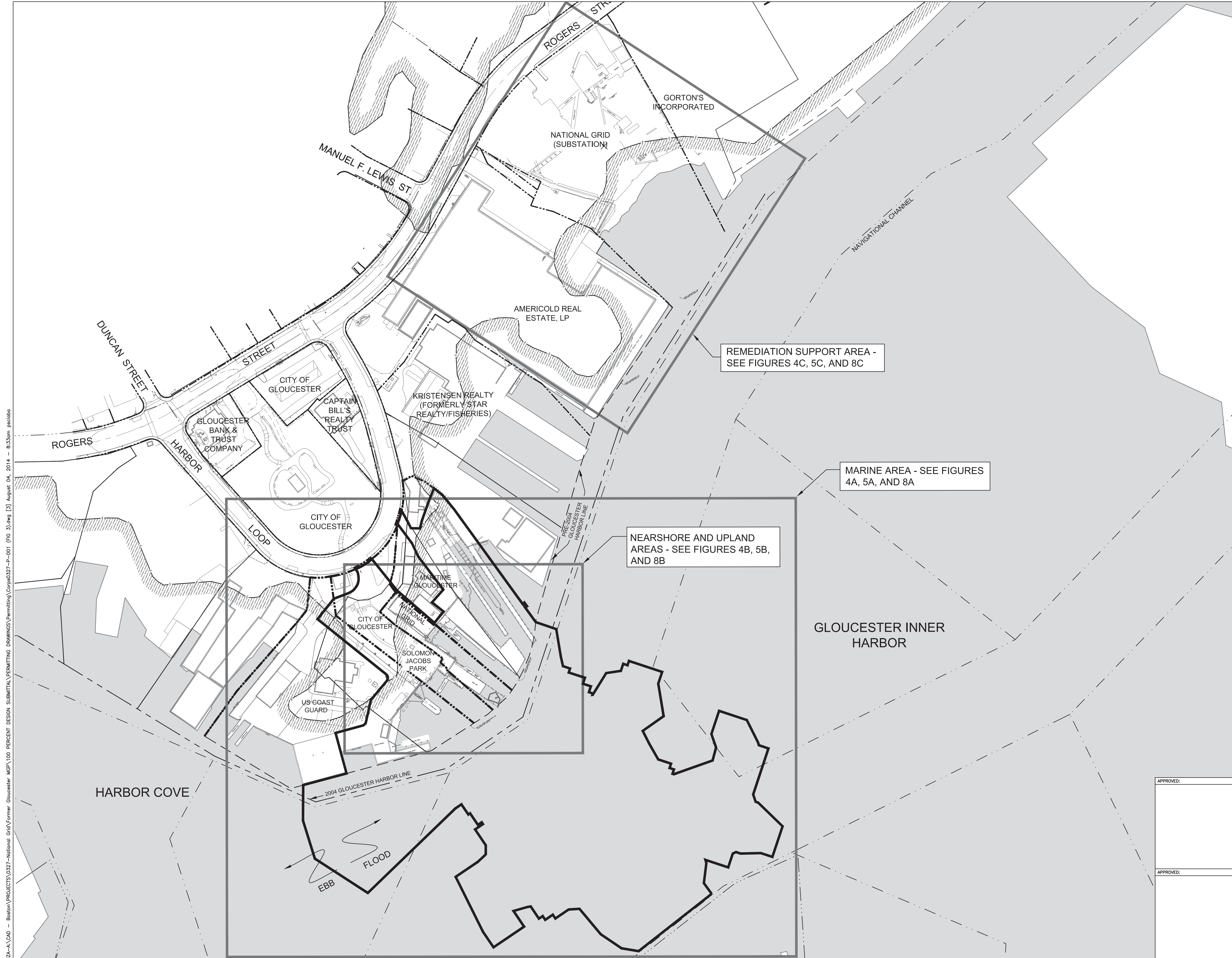
APPROVED: _____
THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY NATIONAL GRID OR THE NATIONAL GRID'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA AND NATIONAL GRID. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA AND NATIONAL GRID, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA AND NATIONAL GRID.

FORMER GLOUCESTER GAS LIGHT COMPANY
MGP FACILITY
GLOUCESTER, MASSACHUSETTS

ANNOTATED AERIAL PHOTOGRAPH OF
PROPOSED WORK AREAS

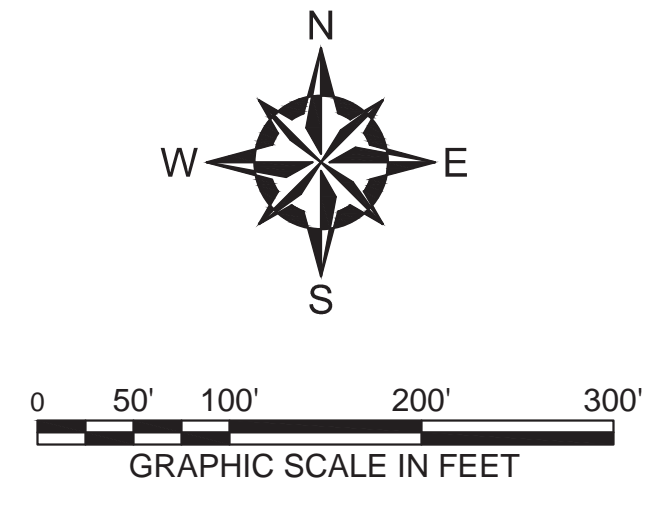
APPROVED: _____

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: nationalgrid
PREPARED BY: ANCHOR OEA	REVIEWED BY: MJB PROJ MGR: JAC DESIGNED BY: MS DRAWN BY: EMD/CRB
PROJ. NO. 25623.00 SCALE: 1"=120'	DATE: AUGUST 2014



LEGEND

	100 YEAR FLOOD ZONE (9.85' NGVD29) (FIRM PANEL 0456F, EFFECTIVE DATE JULY 3, 2012 US GOV WEB SITE)
	GLOUCESTER INNER HARBOR DESIGNATED PORT AREA (DPA)
	NAVIGATION CHANNEL LINE
	PROPOSED PROJECT AREA (LIMIT OF WORK)
	PRE-2004 GLOUCESTER HARBOR LINE
	2004 GLOUCESTER HARBOR LINE
	PROPERTY LINE



- NOTES:**
1. SOURCE: THE TOPOGRAPHIC SURVEY BASE MAP WAS DEVELOPED FROM ELECTRONIC FILES PROVIDED BY HANCOCK SURVEY ASSOCIATES ON 10-09-2012, CAD FILE: 15927SVWB.DWG AND THE BATHYMETRIC SURVEY WAS FROM ELECTRONIC FILES PROVIDED BY ANCHOR QEA ENTITLED "COMBINED TOPOGRAPHIC AND BATHYMETRIC SURVEYS", DATED: 10-29-2012, CAD FILE: EG-COMBINED-BATHY-TOPO-NGVD29.DWG.
 2. THESE PLANS ARE INTENDED ONLY FOR ACCOMPANYING ENVIRONMENTAL PERMIT APPLICATIONS AND ARE NOT TO BE USED FOR CONSTRUCTION.
 3. HORIZONTAL DATUM: MA STATE PLANE MAINLAND, NAD83, U.S. SURVEY FEET. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
 4. NAVIGATION CHANNEL BOUNDARY AND 2004 GLOUCESTER HARBOR LINE PREPARED FROM COORDINATES INCLUDED ON PLAN PREPARED BY THE BSC GROUP FOR THE CITY OF GLOUCESTER TITLED "2004 GLOUCESTER HARBORLINE." THE PRE-2004 GLOUCESTER HARBOR LINE IS FROM ELECTRONIC FILES PROVIDED BY HANCOCK ASSOCIATES ENTITLED "EXISTING CONDITIONS PLAN OF LAND IN GLOUCESTER, MA", DATED 5/22/09.

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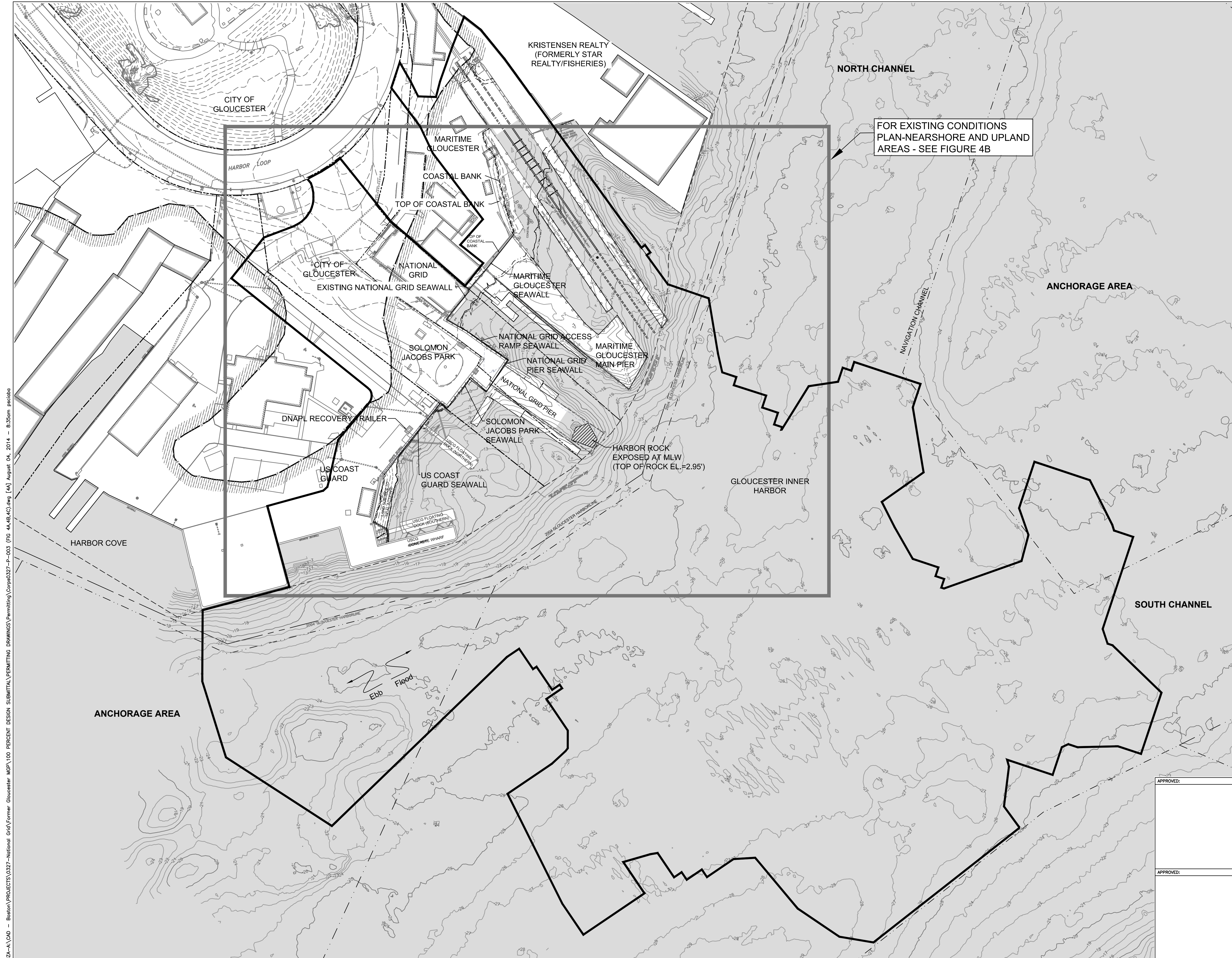
APPROVED: _____
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**FORMER GLOUCESTER GAS LIGHT COMPANY
 MGP FACILITY
 GLOUCESTER, MASSACHUSETTS**

FIGURE KEY

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:
PREPARED BY: 	REVIEWED BY: MJB PROJ MGR: JAC DESIGNED BY: MS DRAWN BY: EMD/CRB
PROJ. NO. 25623.00	SCALE: 1"=100'
DATE: AUGUST 2014	FIGURE 3

GZA-A-100 - Boston\PROJECTS\0327-National Grid\Former Gloucester MGP\100 PERCENT DESIGN SUBMITTAL\PERMITTING\Comps\0327-P-001 (FIG 3).dwg [3] August 04, 2014 - 8:35am pscibob



LEGEND

- EXISTING CONTOURS (FEET NGVD29)
- MEAN HIGHER HIGH WATER (5.45' NGVD29)
- MEAN HIGH WATER (5.0' NGVD29)
- MEAN LOW WATER (-3.79' NGVD29)
- MEAN LOWER LOW WATER (-4.12' NGVD29)
- 100 YEAR FLOOD ZONE (9.85' NGVD29) (FIRM PANEL 0456F, EFFECTIVE DATE JULY 3, 2012 US GOV WEB SITE)
- PROPOSED PROJECT AREA
- PRE-2004 GLOUCESTER HARBOR LINE
- 2004 GLOUCESTER HARBOR LINE
- NAVIGATION CHANNEL LINE
- PROPERTY LINE

0 25' 50' 100' 150'
 SCALE IN FEET

- NOTES:**
1. SOURCE: THE TOPOGRAPHIC SURVEY BASE MAP WAS DEVELOPED FROM ELECTRONIC FILES PROVIDED BY HANCOCK SURVEY ASSOCIATES ON 10-09-2012. CAD FILE: 159275VWB.DWG AND THE BATHYMETRIC SURVEY WAS FROM ELECTRONIC FILES PROVIDED BY ANCHOR OEA ENTITLED "COMBINED TOPOGRAPHIC AND BATHYMETRIC SURVEYS", DATED: 10-29-2012. CAD FILE: EG-COMBINED-BATHY-TOPO-NGVD29.DWG.
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 4. EXISTING BATHYMETRY IS A COMPILATION OF TWO BATHYMETRIC SURVEYS AND A NEARSHORE TOPOGRAPHIC SURVEY. THE TWO BATHYMETRIC SURVEYS WERE A MULTI-BEAM SURVEY PERFORMED BY CLE ENGINEERING, INC. ON MAY 18, 2012, AND SINGLE-BEAM SURVEY PERFORMED BY T&B MARINE SERVICES ON JULY 3, 2012 WITH RAW BATHYMETRIC SURVEY DATA REFERENCED TO MEAN LOWER LOW WATER AND CONVERSION TO NGVD29 PERFORMED BY ANCHOR OEA, LLC. A NEARSHORE TOPOGRAPHIC SURVEY PERFORMED BY HANCOCK ASSOCIATES, ON JULY 12, JULY 24-25, AND AUGUST 21-22, 2012 WAS USED TO COMPLETE A SURVEY OF THE IN-WATER WORK AREA. THE NEARSHORE TOPOGRAPHIC SURVEY RAW DATA IS REFERENCED TO NGVD29.
 5. NAVIGATION CHANNEL BOUNDARY AND 2004 GLOUCESTER HARBOR LINE PREPARED FROM COORDINATES INCLUDED ON PLAN PREPARED BY THE BSC GROUP FOR THE CITY OF GLOUCESTER TITLED "2004 GLOUCESTER HARBORLINE." THE PRE-2004 GLOUCESTER HARBOR LINE IS FROM ELECTRONIC FILES PROVIDED BY HANCOCK ASSOCIATES ENTITLED "EXISTING CONDITIONS PLAN OF LAND IN GLOUCESTER, MA", DATED 5/22/09.
 6. RESOURCE AREAS DELINEATED BASED ON DEFINITIONS IN 310 CMR 10.00.

NO.	ISSUE/DESCRIPTION	BY	DATE

APPROVED: _____
 THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY NATIONAL GRID OR THE NATIONAL GRID'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA AND NATIONAL GRID. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA AND NATIONAL GRID, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA AND NATIONAL GRID.

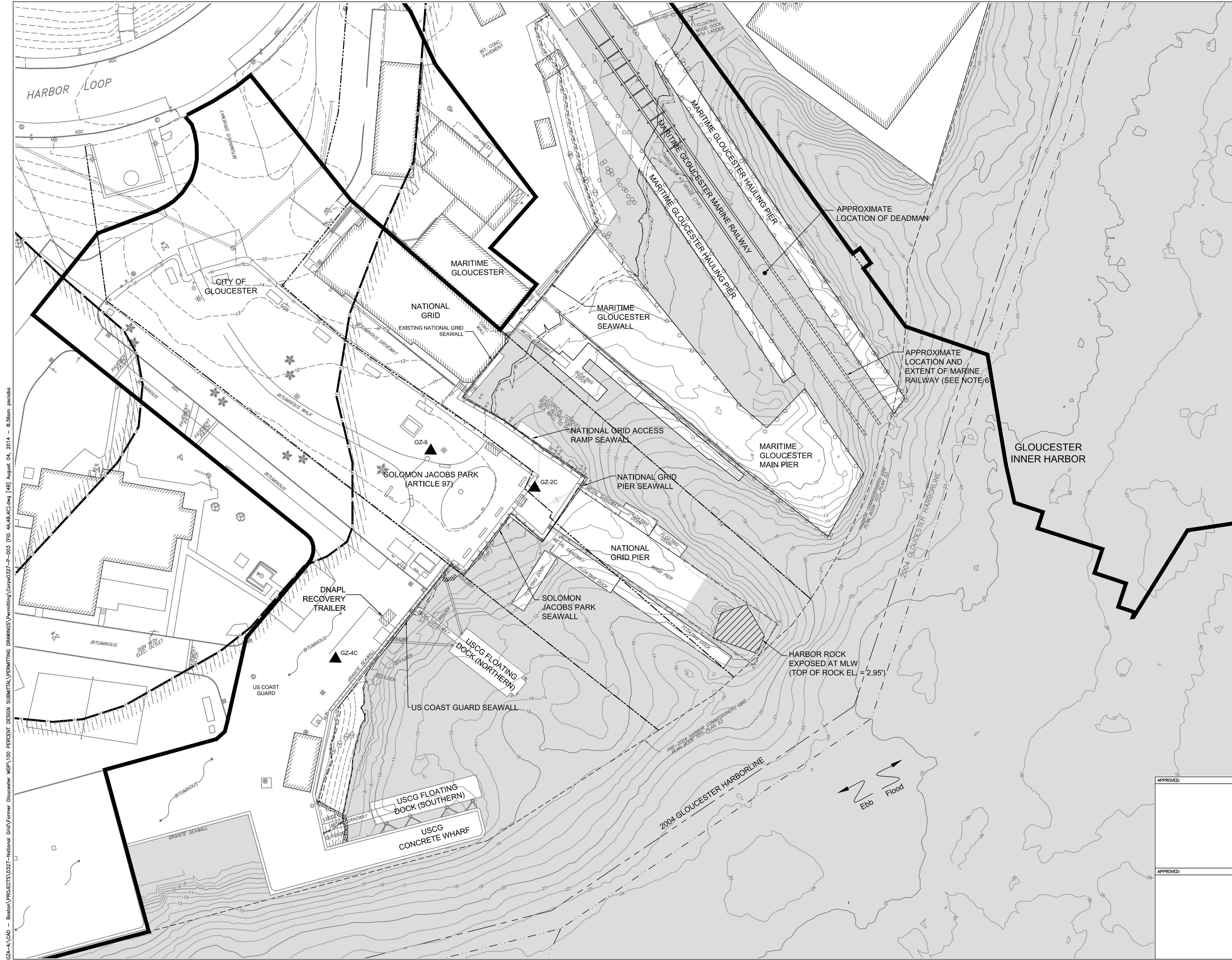
**FORMER GLOUCESTER GAS LIGHT COMPANY
MGP FACILITY**
GLOUCESTER, MASSACHUSETTS

APPROVED: _____

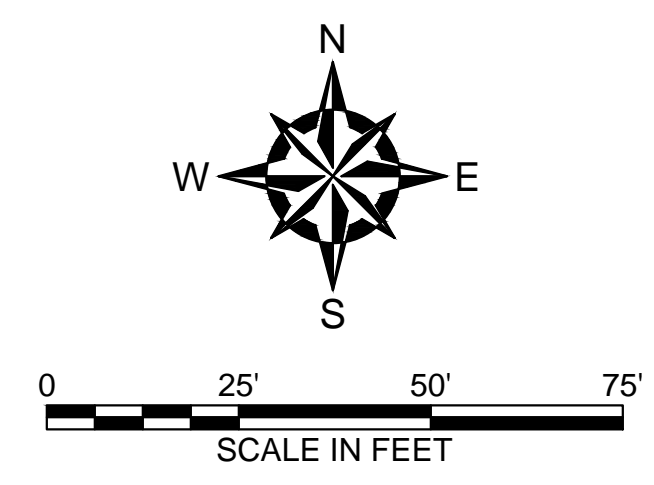
EXISTING CONDITIONS PLAN-MARINE AREA

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:
PREPARED BY: ANCHOR OEA	REVIEWED BY: MJB PROJ MGR: JAC DESIGNED BY: MS DRAWN BY: EMD/CRB DATE: AUGUST 2014
PROJ. NO. 25623.00 SCALE: 1"=50'	FIGURE 4A

GZA-A:\CAD - Boston\PROJECTS\0327-National Grid\Former Gloucester MGP\100 PERCENT SUBMITTAL\PERMITTING\Drawings\Permitting\0327-003 (FG 4A,4B,4C).dwg [A] August 04, 2014 - 8:35am pccibco



- LEGEND**
- EXISTING CONTOURS (FEET NGVD29)
 - MEAN HIGHER HIGH WATER (5.45' NGVD29)
 - MEAN HIGH WATER (5.0' NGVD29)
 - MEAN LOW WATER (-3.79' NGVD29)
 - MEAN LOWER LOW WATER (-4.12' NGVD29)
 - ~ FLOOD ZONE ~ 100 YEAR FLOOD ZONE (9.85' NGVD29) (FIRM PANEL 0456F, EFFECTIVE DATE JULY 3, 2012 US GOV WEB SITE)
 - PROPOSED PROJECT AREA
 - PRE-2004 GLOUCESTER HARBOR LINE
 - 2004 GLOUCESTER HARBOR LINE
 - NAVIGATION CHANNEL LINE
 - PROPERTY LINE
 - ▲ ACTIVE DNAPL RECOVERY LOCATION



- NOTES:**
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 - RESOURCE AREAS DELINEATED BASED ON DEFINITIONS IN 310 CMR 10.00.
 - LOCATION AND EXTENT OF MARINE RAILWAY TO BE VERIFIED PRIOR TO PERFORMING MARINE ACTIVITIES.

NO.	ISSUE/DESCRIPTION	BY	DATE

APPROVED: _____
THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY NATIONAL GRID OR THE NATIONAL GRID'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA AND NATIONAL GRID. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA AND NATIONAL GRID, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA AND NATIONAL GRID.

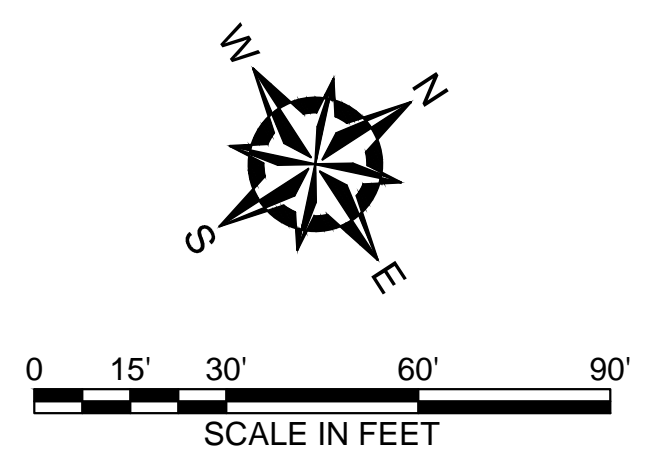
**FORMER GLOUCESTER GAS LIGHT COMPANY
MGP FACILITY**
 GLOUCESTER, MASSACHUSETTS
**EXISTING CONDITIONS PLAN
NEARSHORE AND UPLAND AREAS**

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: nationalgrid
PREPARED BY: ANCHOR QEA	REVIEWED BY: MJB PROJ MGR: JAC DESIGNED BY: MS DRAWN BY: EMD/CRB
PROJ. NO. 25623.00 SCALE: 1"=20'	DATE: AUGUST 2014 FIGURE 4B

GZA-A-1-00 - Boston\PROJECTS\0327-National Grid\Footer Gloucester MSP\100 PERCENT DESIGN SUBMITTAL\PERMITTING\CONSTRUCTION\0327-003 (FG 44-48-4C).dwg [48] August 04, 2014 - 8:35am pscibbo



- LEGEND**
- AUL AREA
 - EXISTING CONTOURS (FEET NGVD29)
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 - 2004 GLOUCESTER HARBOR LINE
 - NAVIGATION CHANNEL LINE
 - PROPERTY LINE



- NOTES:**
- SOURCE: THE TOPOGRAPHIC SURVEY BASE MAP WAS DEVELOPED FROM ELECTRONIC FILES PROVIDED BY HANCOCK SURVEY ASSOCIATES ON 10-09-2012, CAD FILE: 15927SVWB.DWG AND THE BATHYMETRIC SURVEY WAS FROM ELECTRONIC FILES PROVIDED BY ANCHOR QEA ENTITLED "COMBINED TOPOGRAPHIC AND BATHYMETRIC SURVEYS", DATED: 10-29-2012, CAD FILE: EG-COMBINED-BATHY-TOPO-NGVD29.DWG.
 - THESE PLANS ARE INTENDED ONLY FOR ACCOMPANYING ENVIRONMENTAL PERMIT APPLICATIONS AND ARE NOT TO BE USED FOR CONSTRUCTION
 - HORIZONTAL DATUM: MA STATE PLANE MAINLAND, NAD83, U.S. SURVEY FEET. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
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 - RESOURCE AREAS DELINEATED BASED ON DEFINITIONS IN 310 CMR 10.00.

NO.	ISSUE/DESCRIPTION	BY	DATE

APPROVED: _____

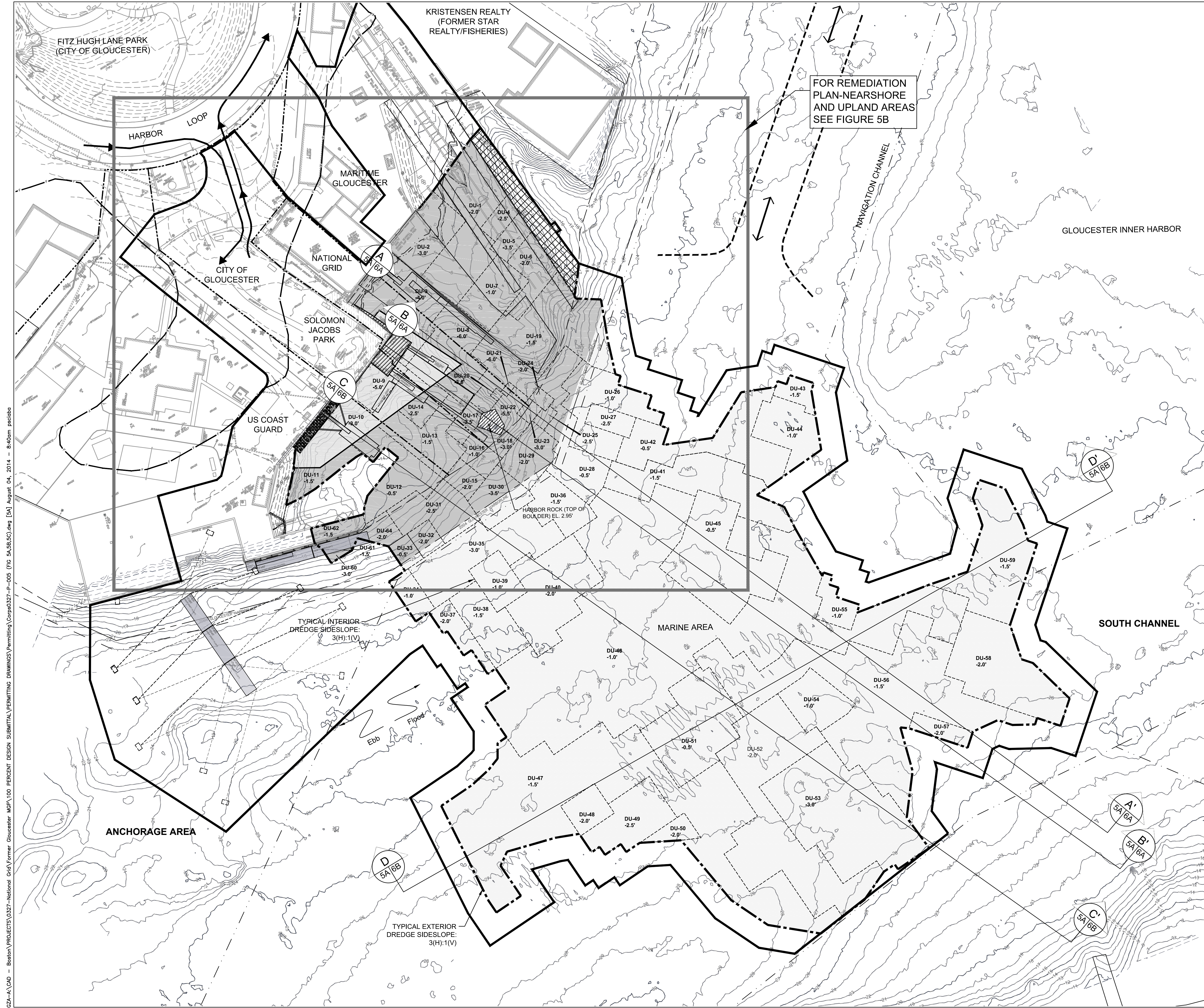
FORMER GLOUCESTER GAS LIGHT COMPANY
MGP FACILITY
GLOUCESTER, MASSACHUSETTS

EXISTING CONDITIONS PLAN
REMEDATION SUPPORT AREA

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: nationalgrid
PREPARED BY: ANCHOR QEA	REVIEWED BY: MJB PROJ MGR: JAC DESIGNED BY: MS DRAWN BY: EMD/CRB
PROJ. NO. 25623.00 SCALE: 1"=30'	DATE: AUGUST 2014

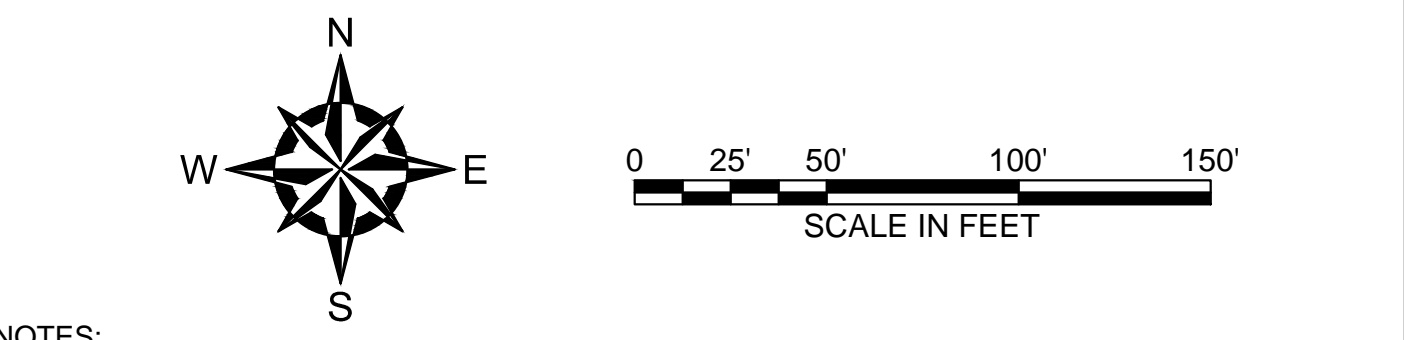
FIGURE
4C

GZA-A-1-100 - Boston PROJECTS 0327-National Grid\Former Gloucester MGP\100 PERCENT DESIGN SUBMITTAL\PERMITTING\Comp\0327-P-003 (FG 44-48-40).dwg [C] August 04, 2014 - 8:37am pscibbo



LEGEND

	PROPOSED PROJECT AREA
	PROPERTY LINES
	PROPOSED TRAFFIC TRUCK ROUTE PLAN
	PROPOSED BARGE TRAFFIC ROUTE PLAN
	AREA TO BE DREDGED AND FOREWATER CAP PLACEMENT (DREDGE UNIT NUMBER & DEPTH)
	AREA TO BE DREDGED (DREDGE UNIT NUMBER & DEPTH)
	AREA TO BE DREDGED AND POST-DREDGE BACKFILL PLACEMENT (DREDGE UNIT NUMBER & DEPTH)
	LIMITS OF DREDGING
	EXISTING CONTOURS (FEET NGVD29)
	MEAN HIGHER HIGH WATER (5.45' NGVD29)
	MEAN HIGH WATER (5.0' NGVD29)
	MEAN LOW WATER (-3.79' NGVD29)
	MEAN LOWER LOW WATER (-4.12' NGVD29)
	100 YEAR FLOOD ZONE (9.85' NGVD29) (FIRM PANEL 0456F, EFFECTIVE DATE JULY 3, 2012 US GOV WEB SITE)
	PRE-2004 GLOUCESTER HARBOR LINE
	2004 GLOUCESTER HARBOR LINE
	NAVIGATION CHANNEL LINE
	PROPOSED SOURCE EXCAVATION WITH LAND AND SEAWALL REMOVAL
	AREA OF SELECTED SPOT DREDGING (AS REQUIRED)
	STABILITY WEDGE



- NOTES:**
- SOURCE: THE TOPOGRAPHIC SURVEY BASE MAP WAS DEVELOPED FROM ELECTRONIC FILES PROVIDED BY HANCOCK SURVEY ASSOCIATES ON 10-09-2012. CAD FILE: 15927SWWB.DWG AND THE BATHYMETRIC SURVEY WAS FROM ELECTRONIC FILES PROVIDED BY ANCHOR QEA ENTITLED "COMBINED TOPOGRAPHIC AND BATHYMETRIC SURVEYS", DATED: 10-29-2012. CAD FILE: EG-COMBINED-BATHY-TOPO-NGVD29.DWG.
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 - NAVIGATION CHANNEL BOUNDARY AND 2004 GLOUCESTER HARBOR LINE PREPARED FROM COORDINATES INCLUDED ON PLAN PREPARED BY THE BSC GROUP FOR THE CITY OF GLOUCESTER TITLED "2004 GLOUCESTER HARBORLINE". THE PRE-2004 GLOUCESTER HARBOR LINE IS FROM ELECTRONIC FILES PROVIDED BY HANCOCK ASSOCIATES ENTITLED "EXISTING CONDITIONS PLAN OF LAND IN GLOUCESTER, MA", DATED 5/22/09.
 - TURBIDITY AND SHEEN CONTROLS WILL BE USED DURING IN-WATER WORK, INCLUDING SEAWALL REHABILITATION AND DREDGING ACTIVITIES. TURBIDITY AND SHEEN CONTROLS WILL BE PLACED AROUND LIMIT OF ACTIVE AREAS AND WILL BE RELOCATED AS NECESSARY. SEE FIGURE 7 FOR DETAILS.

NO.	ISSUE/DESCRIPTION	BY	DATE

APPROVED: _____

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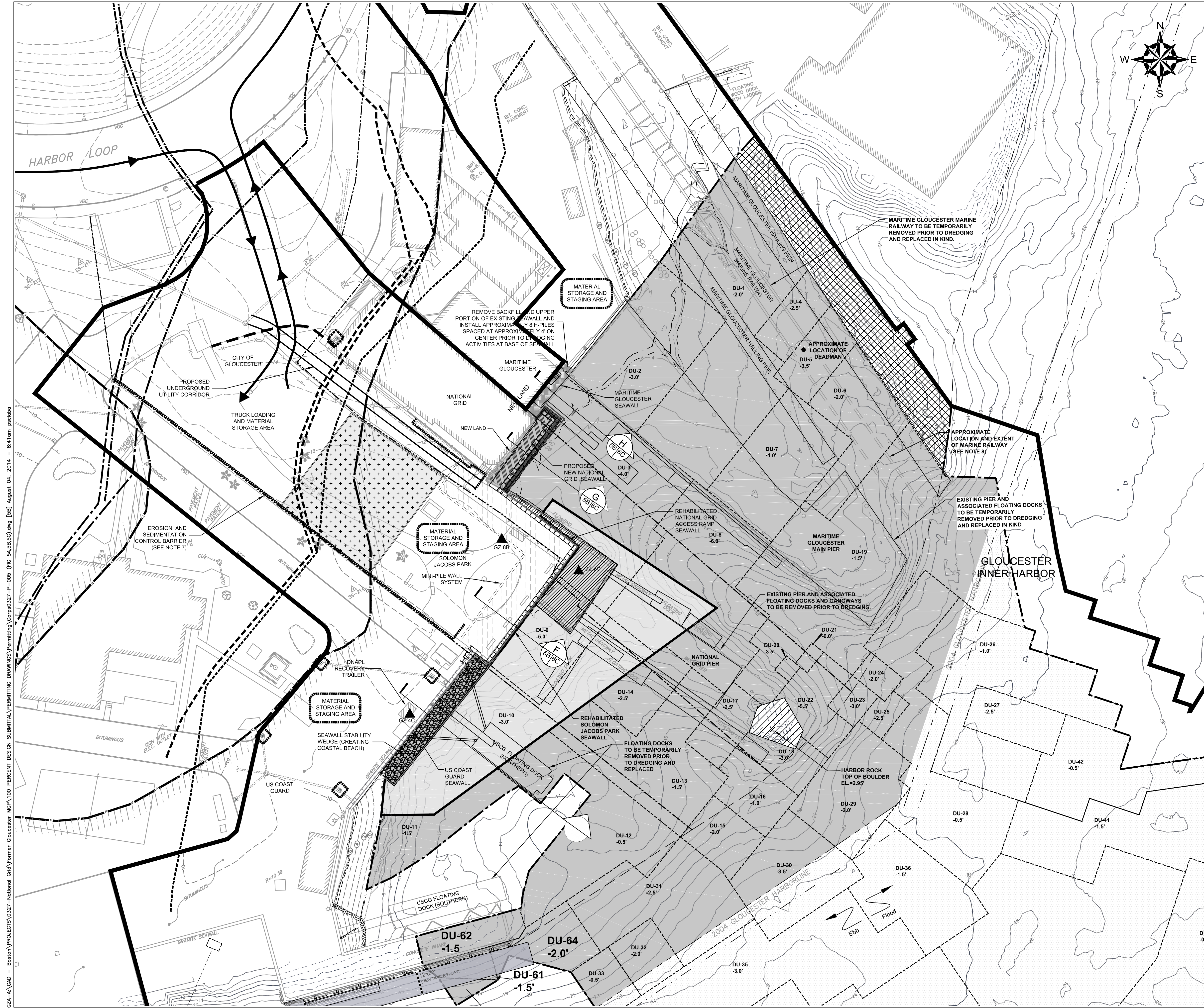
**FORMER GLOUCESTER GAS LIGHT COMPANY
MGP FACILITY
GLOUCESTER, MASSACHUSETTS**

REMIEDIATION PLAN-MARINE AREA

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: nationalgrid
PREPARED BY: ANCHOR QEA	REVIEWED BY: MJB PROJ MGR: JAC DESIGNED BY: MS DRAWN BY: EMD/CRB
PROJ. NO. 25623.00 SCALE: 1"=50'	DATE: AUGUST 2014

FIGURE 5A

GZA-A-100 - Boston PROJECTS 0327-National Grid Former Gloucester MGP 100 PERCENT DESIGN SUBMITTAL PERMITTING DRAWINGS (Permitting) 0327-005 (PG 5A-5B-5C).dwg [5A] August 04, 2014 - 8:40am pscibbo



LEGEND

- PROPOSED PROJECT AREA
- PROPERTY LINES
- PROPOSED TRUCK TRUCK ROUTE PLAN
- PROPOSED BARGE TRAFFIC ROUTE PLAN
- AREA TO BE DREDGED AND POREWATER CAP PLACEMENT (DREDGE UNIT NUMBER & DEPTH)
- AREA TO BE DREDGED (DREDGE UNIT NUMBER & DEPTH)
- AREA TO BE DREDGED AND POST-DREDGE BACKFILL PLACEMENT (DREDGE UNIT NUMBER & DEPTH)
- LIMITS OF DREDGING
- EXISTING CONTOURS (FEET NGVD29)
- MEAN HIGHER HIGH WATER (6.45' NGVD29)
- MEAN HIGH WATER (5.0' NGVD29)
- MEAN LOW WATER (-3.79' NGVD29)
- MEAN LOWER LOW WATER (-4.12' NGVD29)
- 100 YEAR FLOOD ZONE (9.85' NGVD29) (FIRM PANEL 0456F, EFFECTIVE DATE JULY 3, 2012 US GOV WEB SITE)
- PRE-2004 GLOUCESTER HARBOR LINE
- 2004 GLOUCESTER HARBOR LINE
- NAVIGATION CHANNEL LINE
- AREA OF SELECTED SPOT DREDGING (AS REQUIRED)
- ACTIVE DNAPL RECOVERY LOCATION
- EROSION AND SEDIMENTATION CONTROL BARRIER
- STORMWATER DIVERSION BERM
- PROPOSED SOURCE EXCAVATION AREA WITH NEW SEAWALL AND BACKFILL
- PROPOSED VERTICAL BARRIER (NEW SEAWALL) AND NEW LAND CREATED
- AREA OF SOIL EXCAVATION FOR PROPOSED ENGINEERED BARRIER
- PROPOSED SOURCE EXCAVATION AREA WITH LAND AND SEAWALL REMOVAL
- AREA OF BACKFILL AND TOP PORTION OF SEAWALL TO BE REMOVED PRIOR TO DREDGING
- STABILITY WEDGE

0 25' 50' 75'
SCALE IN FEET

- NOTES:**
- SOURCE: THE TOPOGRAPHIC SURVEY BASE MAP WAS DEVELOPED FROM ELECTRONIC FILES PROVIDED BY HANCOCK SURVEY ASSOCIATES ON 10-09-2012. CAD FILE: 159273VWB.DWG AND THE BATHYMETRIC SURVEY WAS FROM ELECTRONIC FILES PROVIDED BY ANCHOR OEA ENTITLED "COMBINED TOPOGRAPHIC AND BATHYMETRIC SURVEYS", DATED: 10-29-2012. CAD FILE: EG-COMBINED-BATHY-TOPO-NGVD29.DWG.
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 - RESOURCE AREAS DELINEATED BASED ON DEFINITIONS IN 310 CMR 10.00.
 - ADDITIONAL EROSION AND SEDIMENTATION CONTROL BARRIERS WILL BE DEPLOYED AND RELOCATED AS REQUIRED TO ENCOMPASS ACTIVE AREAS OF REMEDIATION.
 - LOCATION AND EXTENT OF MARINE RAILWAY TO BE VERIFIED PRIOR TO PERFORMING MARINE ACTIVITIES.

NO.	ISSUE/DESCRIPTION	BY	DATE

APPROVED: _____

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**FORMER GLOUCESTER GAS LIGHT COMPANY
MGP FACILITY**

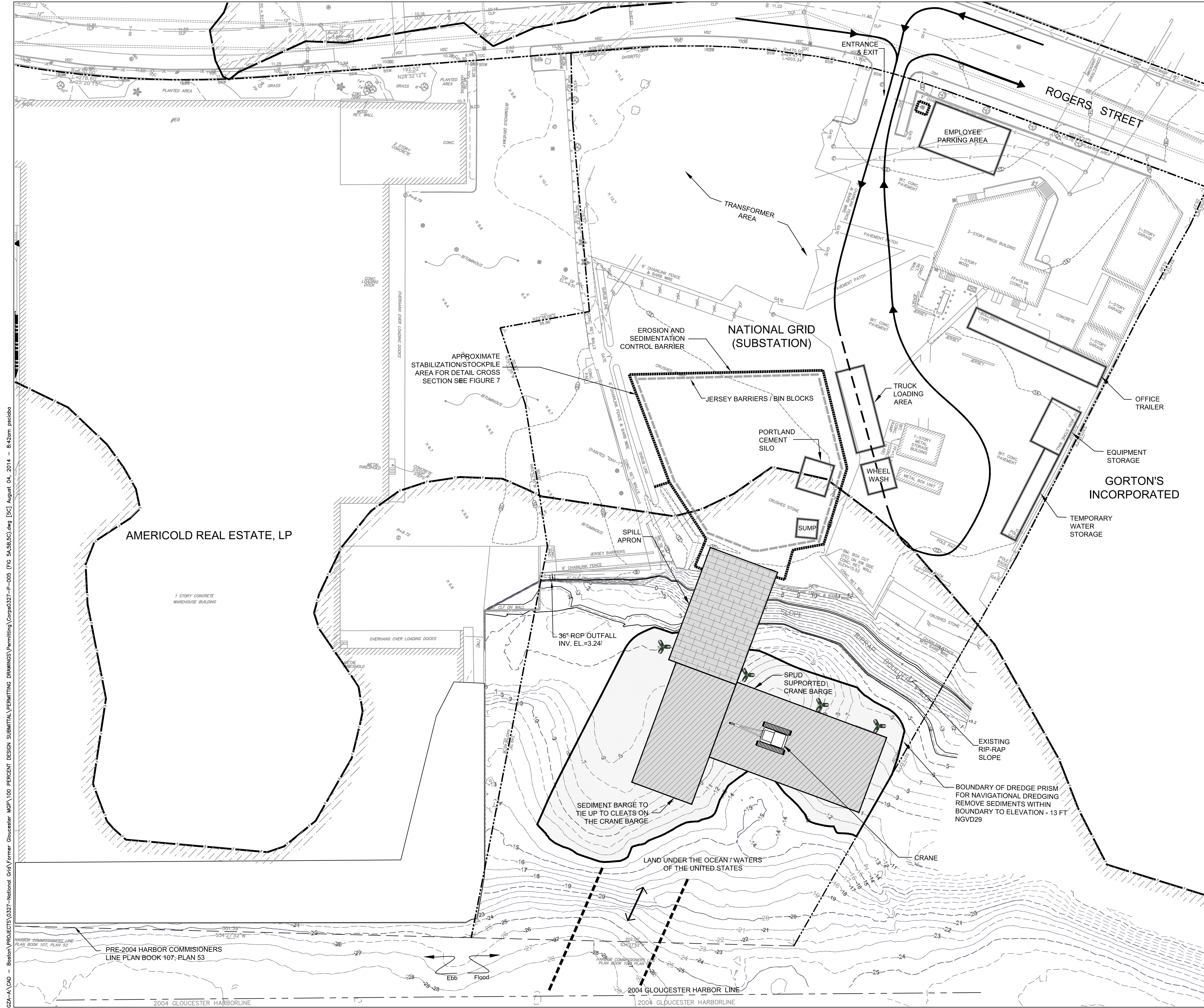
GLOUCESTER, MASSACHUSETTS

**REMEDATION PLAN
NEARSHORE AND UPLAND AREAS**

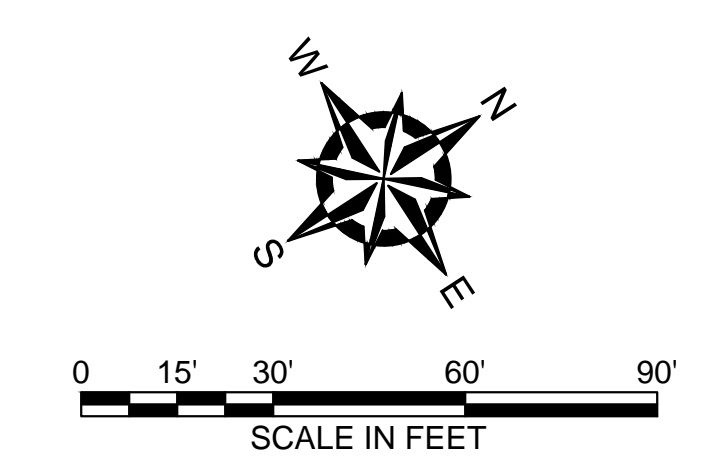
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:
PREPARED BY: ANCHOR OEA	REVIEWED BY: MJB PROJ MGR: JAC DESIGNED BY: MS DRAWN BY: EMD/CRB
PROJ. NO. 25623.00 SCALE: 1"=20'	DATE: AUGUST 2014

**FIGURE
5B**

GZA-A-100 - Boston PROJECTS 0327-National Grid\Former Gloucester MGP\100 PERCENT DESIGN SUBMITTAL\PERMITTING\Drawings\Permitting\0327-005 (FG 04-05-03).dwg [S] August 04, 2014 - 8:41 am psdcib



- LEGEND**
- PROPERTY LINE
 - PROPOSED TRUCK TRUCK ROUTE PLAN
 - ↔ PROPOSED BARGE TRAFFIC ROUTE PLAN
 - ▭ AREA TO BE DREDGED
 - ▬ EROSION AND SEDIMENTATION CONTROL BARRIER
 - LIMITS OF DREDGING
 - - - - - EXISTING CONTOURS (FEET NGVD29)
 - - - - - MEAN HIGHER HIGH WATER (5.45' NGVD29)
 - - - - - MEAN HIGH WATER (5.0' NGVD29)
 - - - - - MEAN LOW WATER (-3.79' NGVD29)
 - - - - - MEAN LOWER LOW WATER (-4.12' NGVD29)
 - ~ FLOOD ZONE ~ 100 YEAR FLOOD ZONE (9.85' NGVD29) (FIRM PANEL 0456F, EFFECTIVE DATE JULY 3, 2012 US GOV WEB SITE)
 - - - - - PRE-2004 GLOUCESTER HARBOR LINE
 - - - - - 2004 GLOUCESTER HARBOR LINE
 - 🌿 POTENTIAL DOLPHIN/PILE GROUP LOCATION FOR BARGE ANCHORING



- NOTES:**
- SOURCE: THE TOPOGRAPHIC SURVEY BASE MAP WAS DEVELOPED FROM ELECTRONIC FILES PROVIDED BY HANCOCK SURVEY ASSOCIATES ON 10-09-2012, CAD FILE: 15927SVWB.DWG AND THE BATHYMETRIC SURVEY WAS FROM ELECTRONIC FILES PROVIDED BY ANCHOR QEA ENTITLED "COMBINED TOPOGRAPHIC AND BATHYMETRIC SURVEYS", DATED: 10-29-2012, CAD FILE: EG-COMBINED-BATHY-TOPO-NGVD29.DWG.
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 - RESOURCE AREAS DELINEATED BASED ON DEFINITIONS IN 310 CMR 10.00.

NO.	ISSUE/DESCRIPTION	BY	DATE

APPROVED: _____

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**FORMER GLOUCESTER GAS LIGHT COMPANY
MGP FACILITY
GLOUCESTER, MASSACHUSETTS**

REMEDIATION SUPPORT AREA

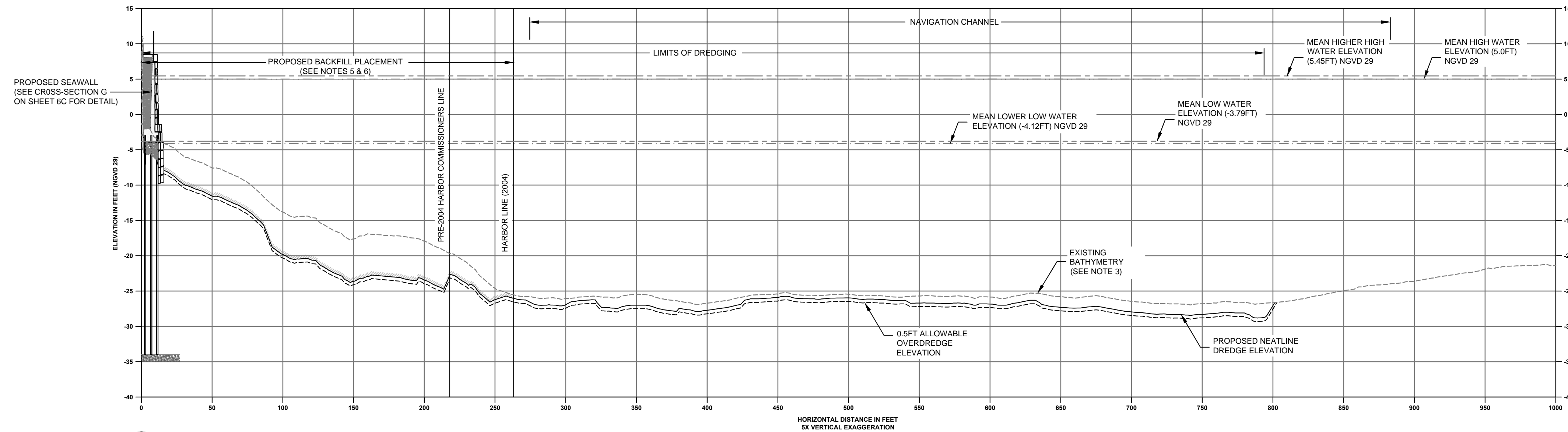
APPROVED: _____

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: nationalgrid
PREPARED BY: ANCHOR QEA	REVIEWED BY: MJB PROJ MGR: JAC DESIGNED BY: MS DRAWN BY: EMO/CRB
PROJ. NO. 25623.00 SCALE: 1"=30'	DATE: AUGUST 2014

**FIGURE
5C**

GZA-A-100 - Boston PROJECTS 0327-National Grid\Former Gloucester MGP 100 PERCENT SUBMITTAL\PERMITTING\Drawings\Permitting\0327-005 (FG 04-05-03).dwg [S] August 04, 2014 - 8:42am pscibbo

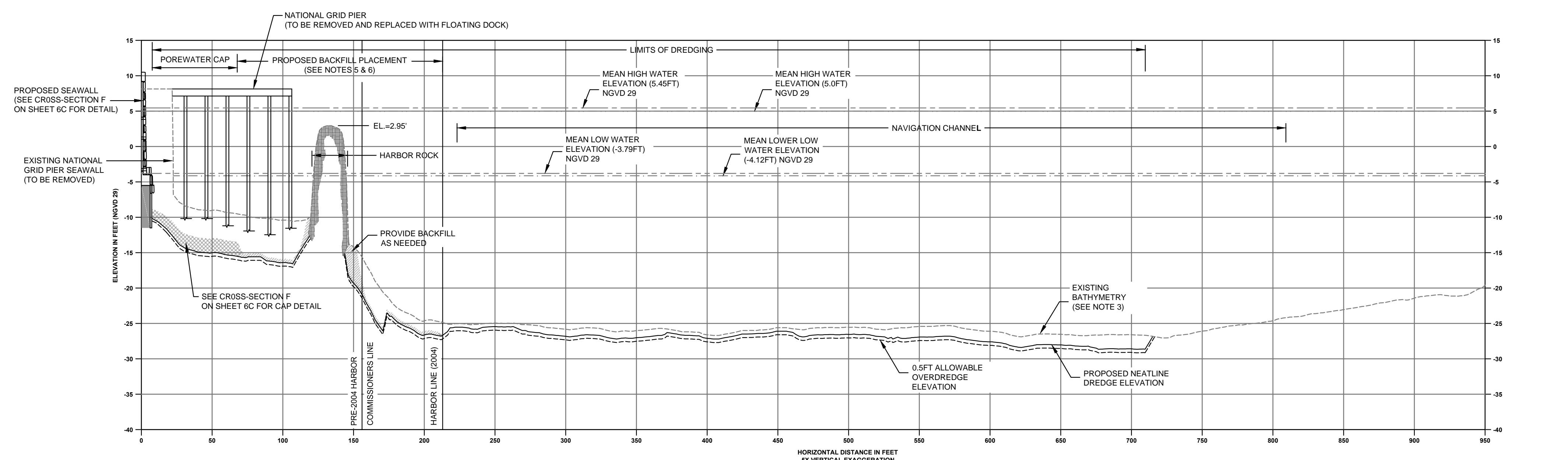
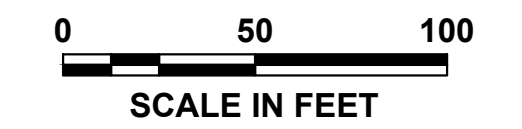
GZA-A:\CAD - Boston\PROJECTS\327-National Grid\Footer - Goussier MSP\100 PERCENT DESIGN SUBMITTAL\PERMITTING DRAWINGS\327-P-006 (FIG. 6A-6B).dwg [Figure 6A] August 04, 2014 - 8:45am psicbba



A SECTION
 5A 6A HORIZ. SCALE: 1"=50'
 VERT. SCALE: 1"=10'

- NOTES:**
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 - DREDGE SIDE SLOPES ARE 3H:1V UNLESS NOTED.
 - IN THE NEARSHORE AREA, A 6-INCH BACKFILL LAYER WILL BE PLACED IN THE POST-DREDGE SURFACE OUTSIDE OF THE CAP FOOTPRINT. IN AREAS DIRECTLY UNDER PIERS AND THE MARINE RAILWAY, BACKFILL WILL BE PLACED TO GRADE FOR STRUCTURAL PURPOSES. IF, THROUGH FURTHER DESIGN, IT IS FOUND THAT BACKFILL IS NOT REQUIRED FOR STRUCTURAL PURPOSES, A 6-INCH BACKFILL LAYER WILL BE PLACED UNDER THE STRUCTURES.
 - BACKFILL WILL NOT BE IMMEDIATELY PLACED IN THE OFFSHORE AREA TO AVOID PLACING FILL IN THE FEDERAL NAVIGATION CHANNEL. A SYSTEMATIC PILOT-TEST APPROACH WILL BE EMPLOYED IN THE OFFSHORE AREA TO DETERMINE THE NEED FOR BACKFILL, IF ANY, IN THIS AREA.
 - FOR MORE DETAILED SECTIONS OF THE SEAWALLS SEE SHEET 6C.

- LEGEND:**
- EXISTING BATHYMETRY (2012)
 - PROPOSED NEATLINE DREDGE ELEVATION
 - - - - PROPOSED 0.5FT ALLOWABLE OVERDREDGE ELEVATION
 - [Hatched Box] BACKFILL
 - [Cross-hatched Box] POREWATER CAP



B SECTION
 5A 6A HORIZ. SCALE: 1"=50'
 VERT. SCALE: 1"=10'

NO.	ISSUE/DESCRIPTION	BY	DATE

APPROVED: _____
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**FORMER GLOUCESTER GAS LIGHT COMPANY
 MGP FACILITY
 GLOUCESTER, MASSACHUSETTS**

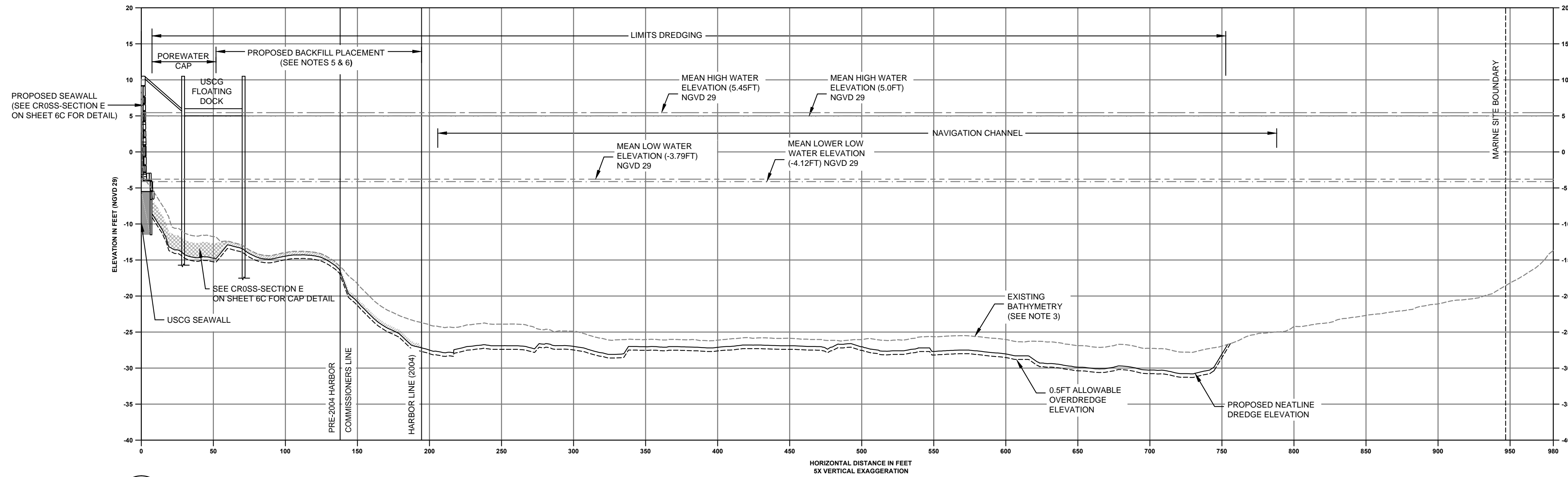
GENERAL CROSS-SECTIONS A-A' AND B-B'

APPROVED: _____

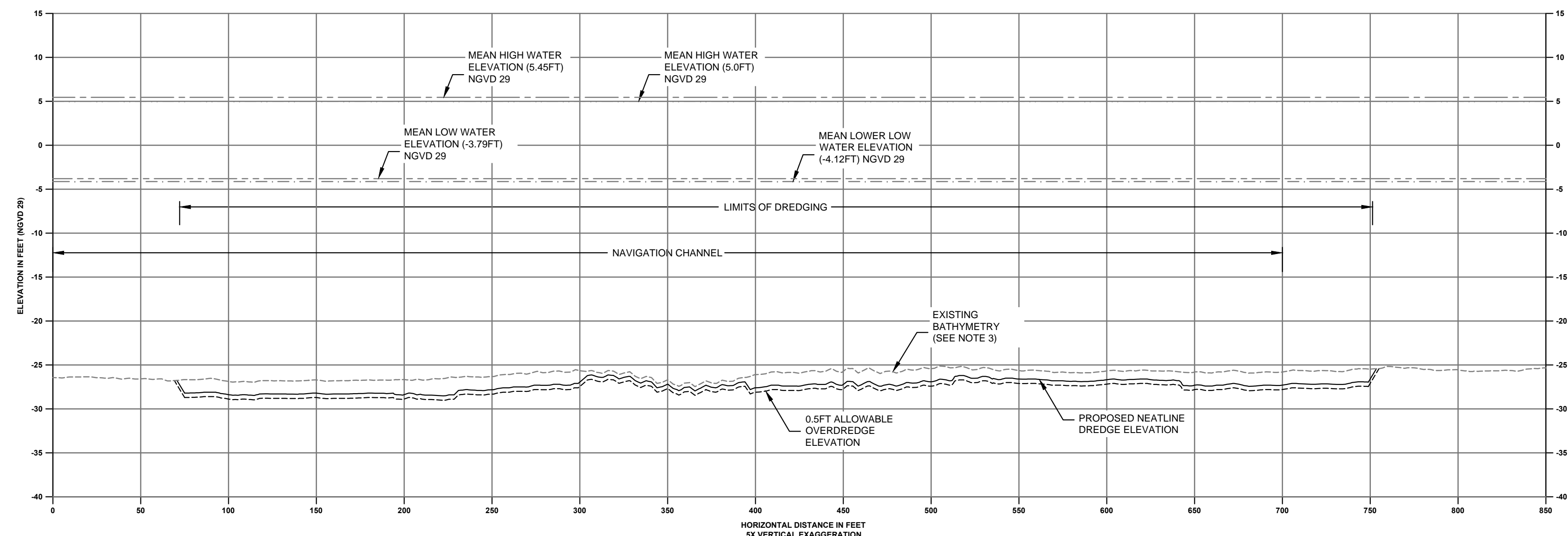
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:
PREPARED BY: ANCHOR OEA	REVIEWED BY:
PROJ. NO. 25623.00	DESIGNED BY:
SCALE: 1"=50 FEET	DRAWN BY:
	DATE: AUGUST 2014

FIGURE
6A

GZA-A:\CAD - Boston\PROJECTS\327-National Grid\Footer\oboussier MSP\100 PERCENT DESIGN SUBMITTAL\PERMITTING DRAWINGS\Permitting\Comp\327-P-006 (FIG. 6A,6B).dwg [Figure 6B] August 04, 2014 - 8:47am psicibab



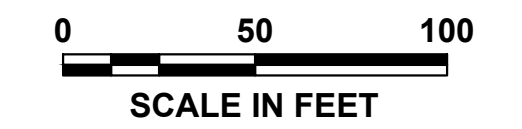
C SECTION
 5A 6A HORIZ. SCALE: 1"=50'
 VERT. SCALE: 1"=10'



D SECTION
 5A 6A HORIZ. SCALE: 1"=50'
 VERT. SCALE: 1"=10'

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 - EXISTING BATHYMETRY IS A COMPILATION OF TWO BATHYMETRIC SURVEYS AND A NEARSHORE TOPOGRAPHIC SURVEY. THE TWO BATHYMETRIC SURVEYS WERE A MULT-BEAM SURVEY PERFORMED BY CLE ENGINEERING, INC. ON MAY 18, 2012, AND SINGLE-BEAM SURVEY PERFORMED BY TG&S MARINE SERVICES ON JULY 3, 2012. WITH RAW BATHYMETRIC SURVEY DATA REFERENCED TO MLLW AND CONVERSION TO NGVD29 PERFORMED BY ANCHOR OEA, LLC. A NEARSHORE TOPOGRAPHIC SURVEY PERFORMED BY HANCOCK ASSOCIATES, ON JULY 12, JULY 24-25, AND AUGUST 21-22, 2012 WAS USED TO COMPLETE A SURVEY OF THE IN-WATER WORK AREA. THE NEARSHORE TOPOGRAPHIC SURVEY RAW DATA IS REFERENCED TO NGVD29.
 - DREDGE SIDE SLOPES ARE 3H:1V UNLESS NOTED.
 - IN THE NEARSHORE AREA, A 6-INCH BACKFILL LAYER WILL BE PLACED IN THE POST-DREDGE SURFACE OUTSIDE OF THE CAP FOOTPRINT. IN AREAS DIRECTLY UNDER PIERS AND THE MARINE RAILWAY, BACKFILL WILL BE PLACED TO GRADE FOR STRUCTURAL PURPOSES. IF, THROUGH FURTHER DESIGN, IT IS FOUND THAT BACKFILL IS NOT REQUIRED FOR STRUCTURAL PURPOSES, A 6-INCH BACKFILL LAYER WILL BE PLACED UNDER THE STRUCTURES.
 - BACKFILL WILL NOT BE IMMEDIATELY PLACED IN THE OFFSHORE AREA TO AVOID PLACING FILL IN THE FEDERAL NAVIGATION CHANNEL. A SYSTEMATIC PILOT-TEST APPROACH WILL BE EMPLOYED IN THE OFFSHORE AREA TO DETERMINE THE NEED FOR BACKFILL, IF ANY, IN THIS AREA.
 - FOR MORE DETAILED SECTIONS OF THE SEAWALLS SEE SHEET 6C.

- LEGEND:**
- EXISTING BATHYMETRY (2012)
 - PROPOSED NEATLINE DREDGE ELEVATION
 - - - PROPOSED 0.5FT ALLOWABLE OVERDREDGE ELEVATION
 - [Hatched Box] BACKFILL
 - [Cross-hatched Box] POREWATER CAP



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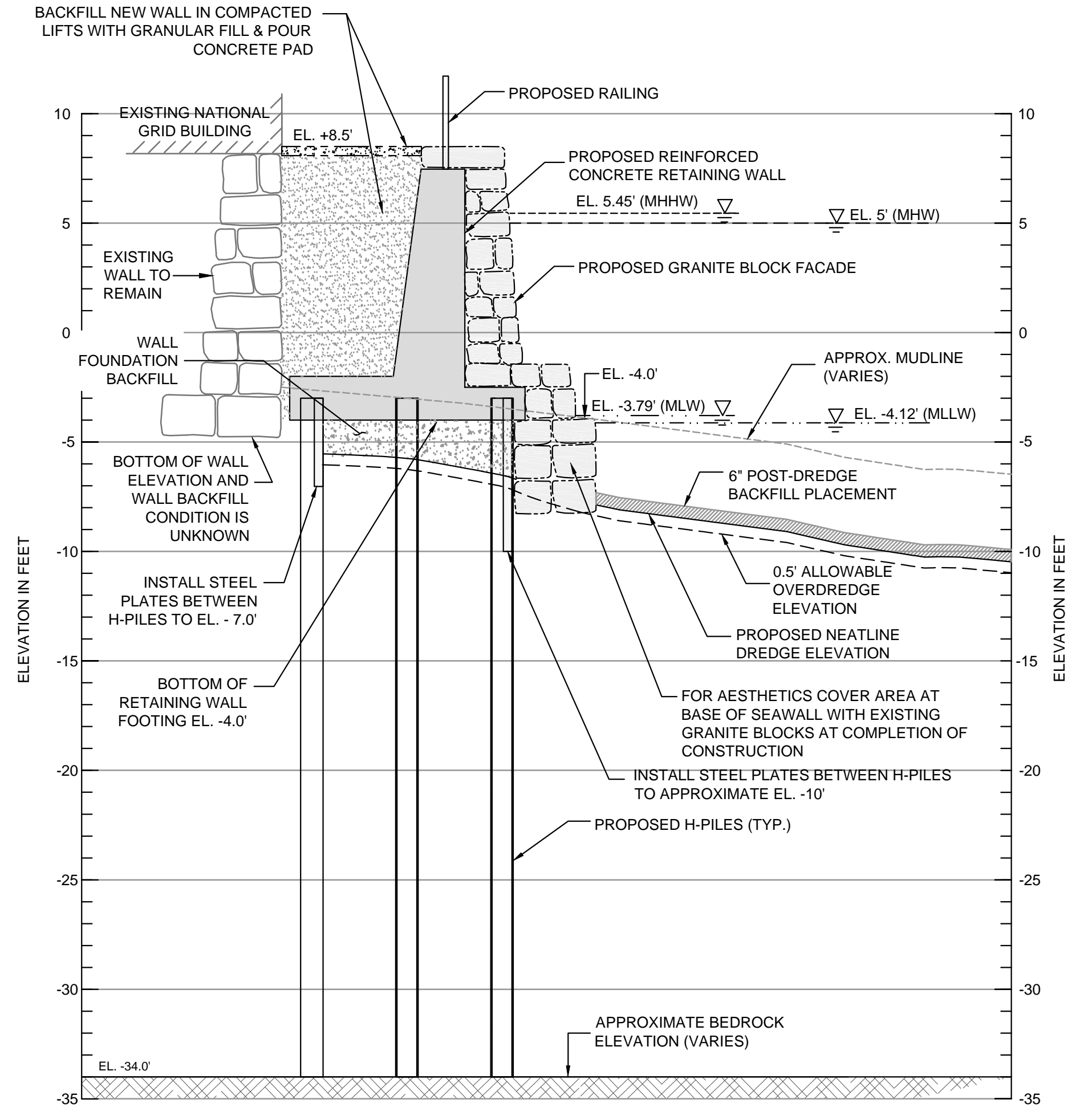
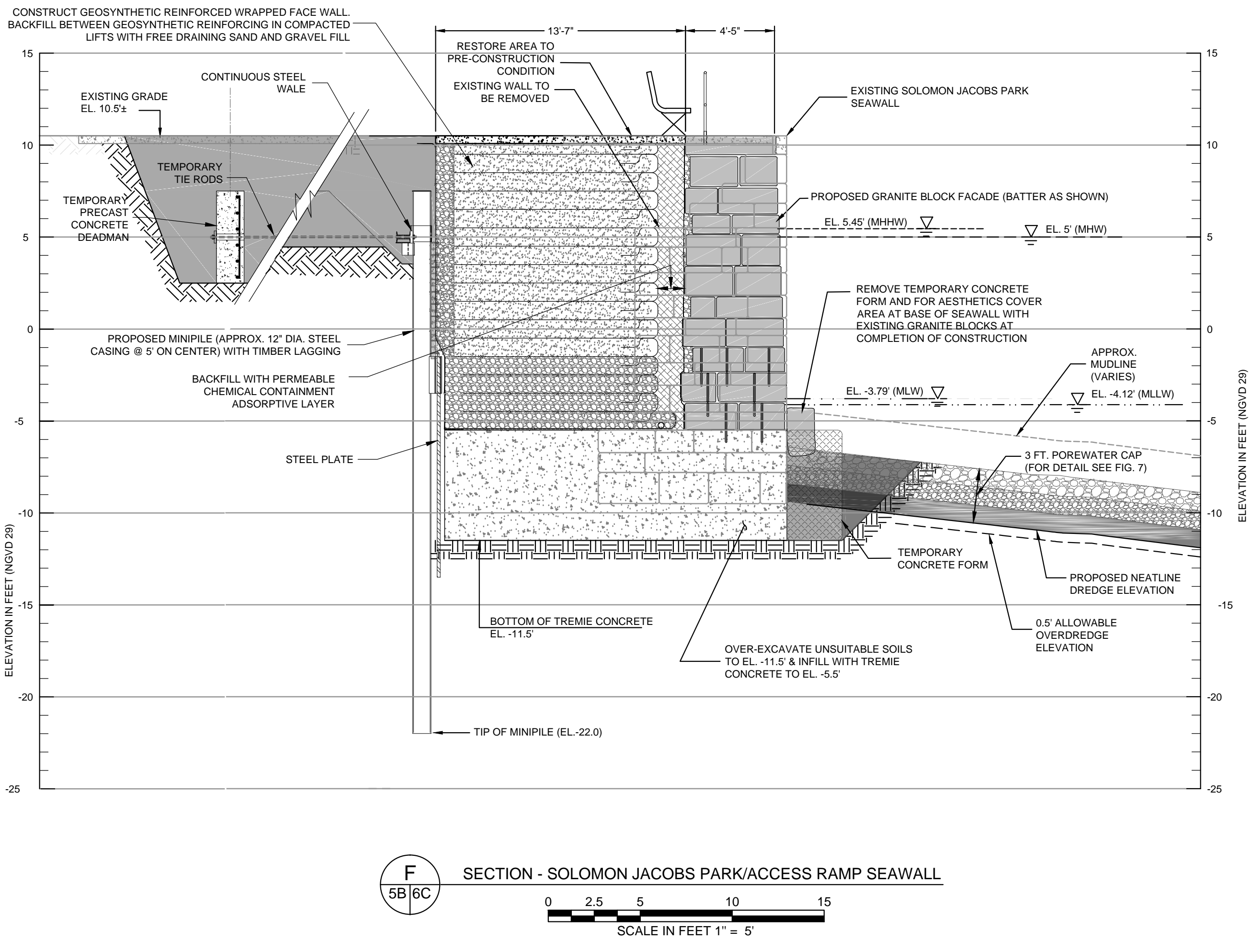
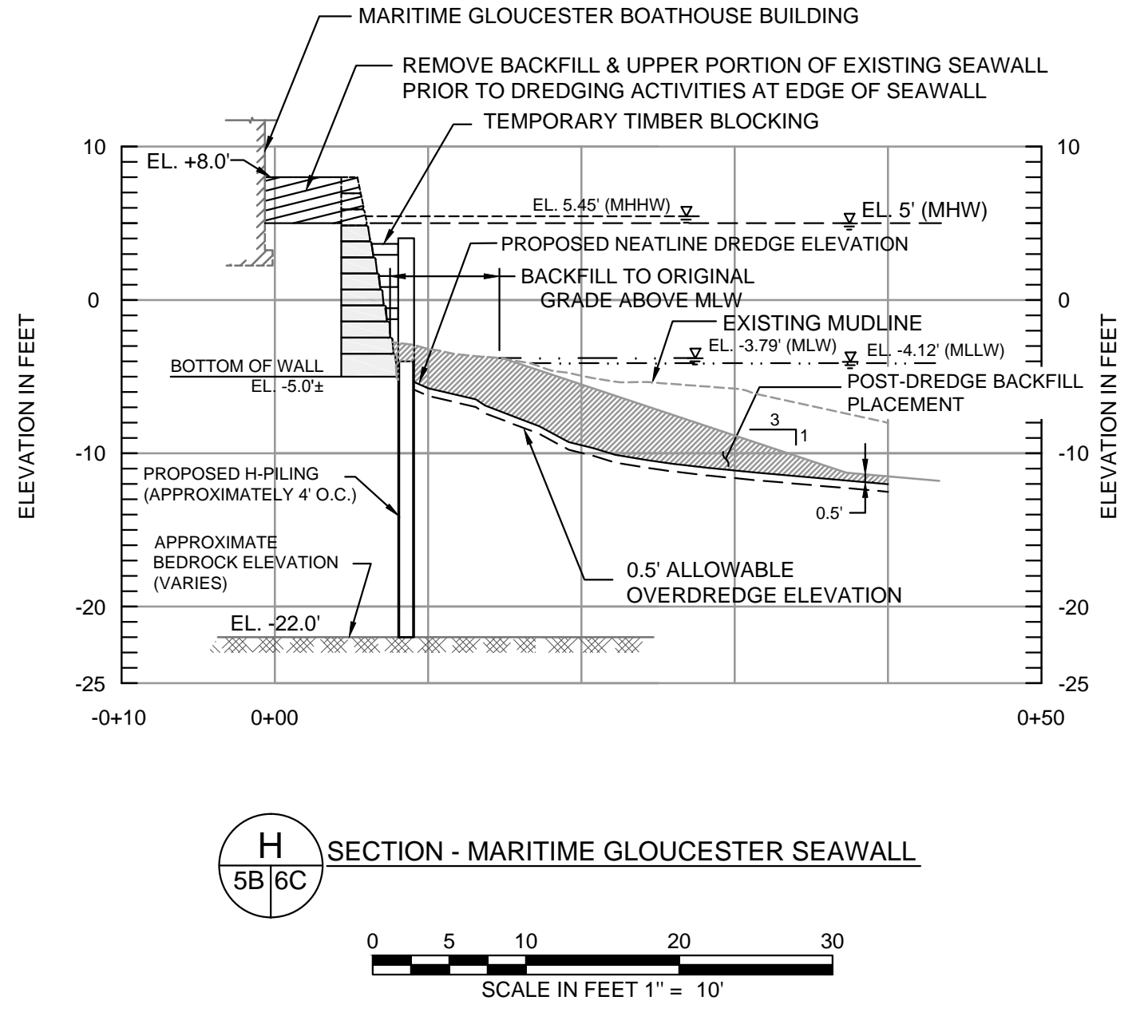
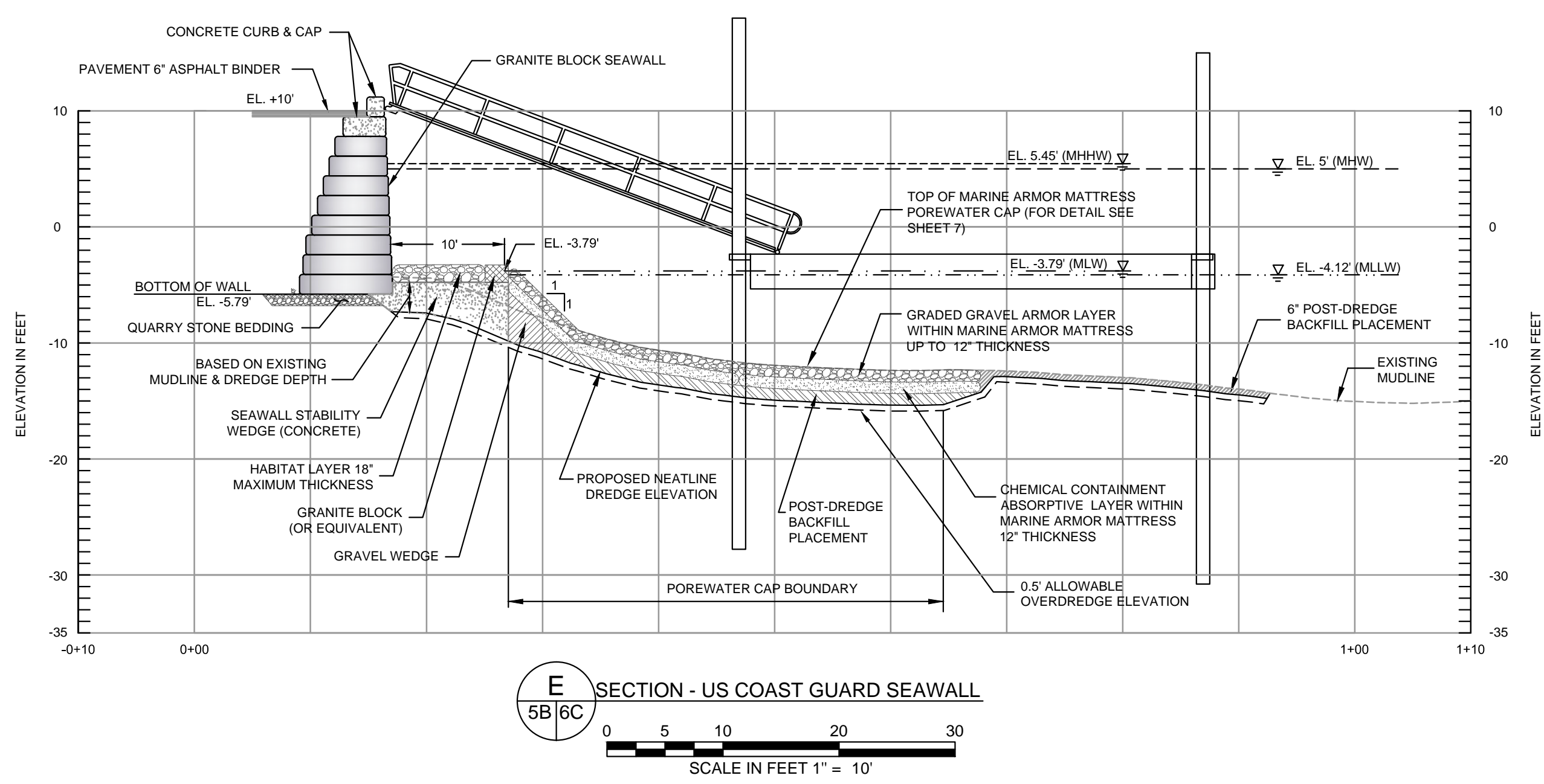
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 MGP FACILITY
 GLOUCESTER, MASSACHUSETTS**

GENERAL CROSS-SECTIONS C-C' AND D-D'

APPROVED: _____

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:
PREPARED BY: ANCHOR OEA	REVIEWED BY:
PROJ. NO. 25623.00	PROJ. MGR:
SCALE: 1"=50 FEET	DESIGNED BY:
	DRAWN BY:
	DATE: AUGUST 2014

FIGURE 6B



NOTES

1. THESE PLANS ARE INTENDED ONLY FOR ACCOMPANYING ENVIRONMENTAL PERMIT APPLICATIONS AND ARE NOT TO BE USED FOR CONSTRUCTION.
2. HORIZONTAL DATUM: MA STATE PLANE MAINLAND, NAD83, U.S. SURVEY FEET. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
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4. TURBIDITY AND SHEEN CONTROLS WILL BE USED DURING IN-WATER WORK INCLUDING SEAWALL REHABILITATION AND DREDGING ACTIVITIES. TURBIDITY CURTAIN AND OIL ABSORBENT BOOM WILL BE PLACED AROUND LIMIT OF ACTIVE AREAS AND WILL BE RELOCATED AS NECESSARY. SEE FIGURE 7 FOR DETAILS.

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MGP FACILITY**

GLOUCESTER, MASSACHUSETTS

SEAWALL CROSS - SECTIONS

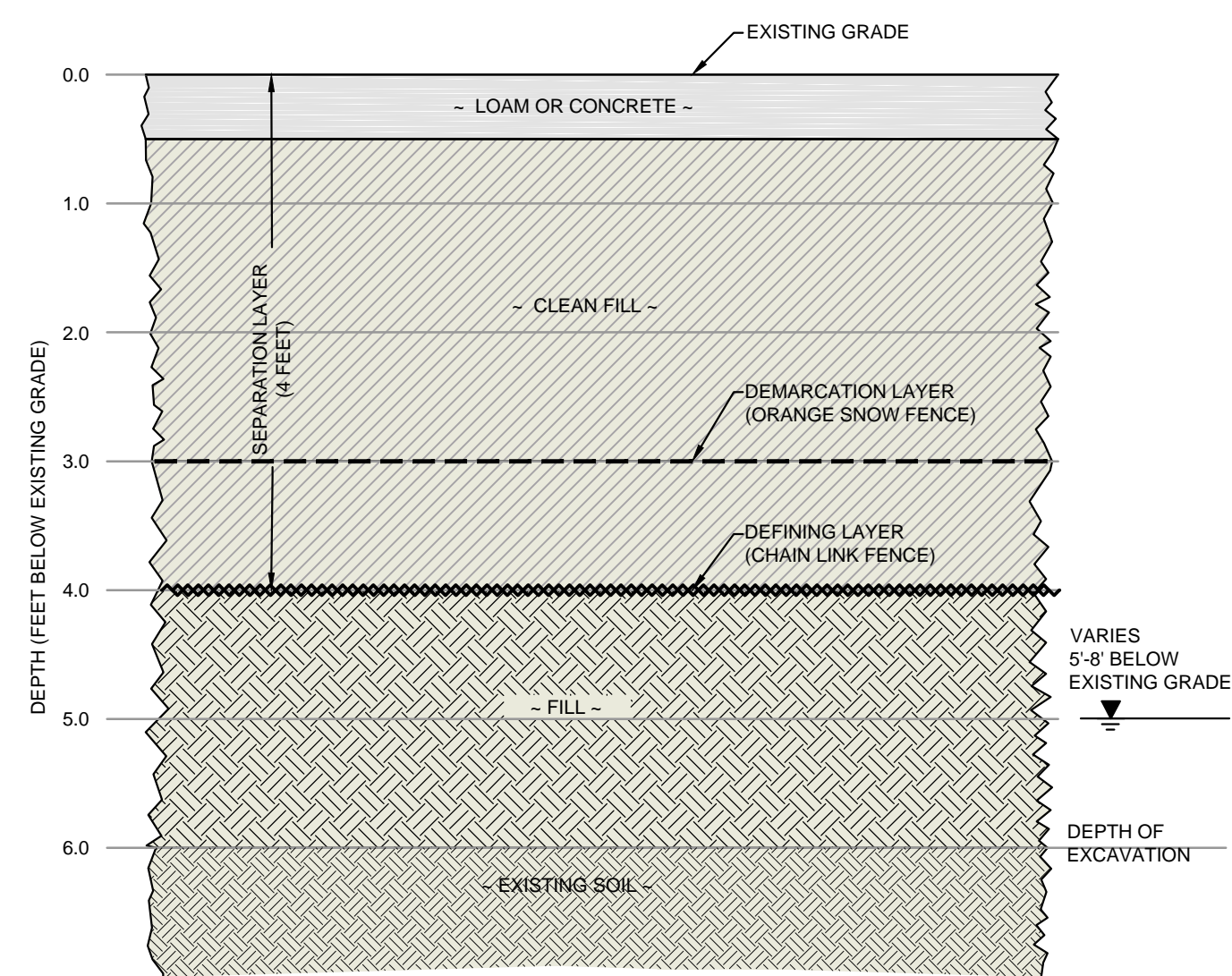
APPROVED: _____

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: nationalgrid
PREPARED BY: ANCHOR OEA	REVIEWED BY: MJB PROJ MGR: JAC DESIGNED BY: MS DRAWN BY: EMD/CRB
PROJ. NO. 25623.00	SCALE: AS NOTED

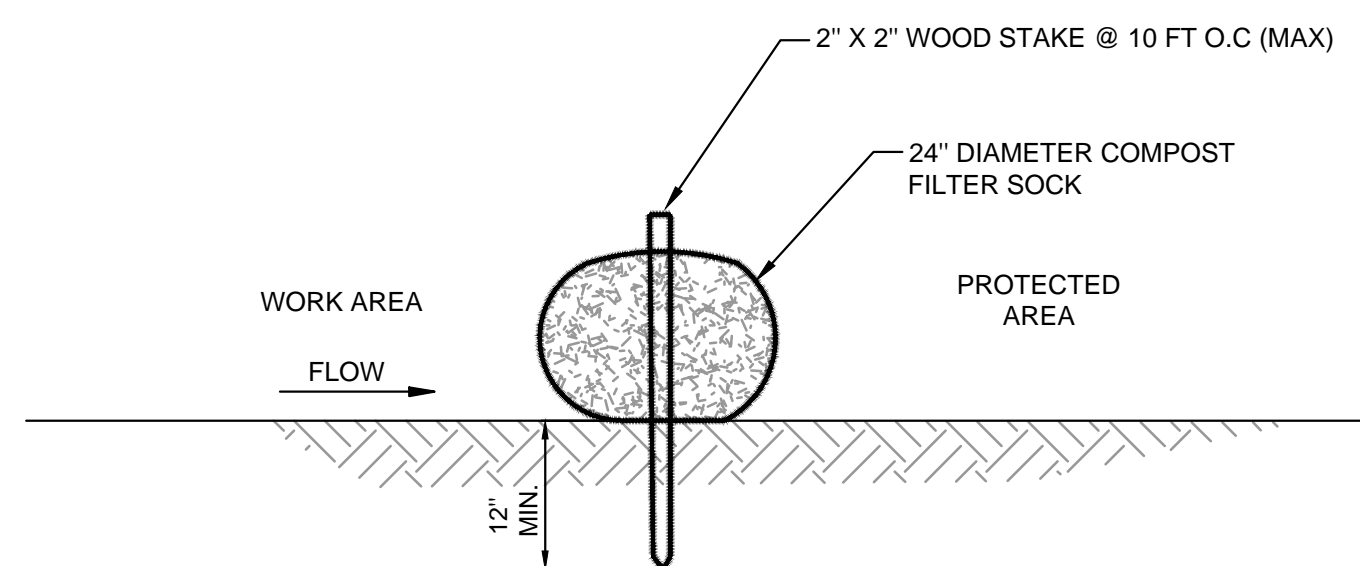
FIGURE 6C

GZA-A:\CAD - Boston\PROJECTS\0327-National Grid\Former Gloucester MGP\100 PERCENT SUBMITTAL\PERMITTING\Drawings\Comp\0327-F-006 (FIG 6C).dwg [6C] August 04, 2014 - 8:48am psl/bda

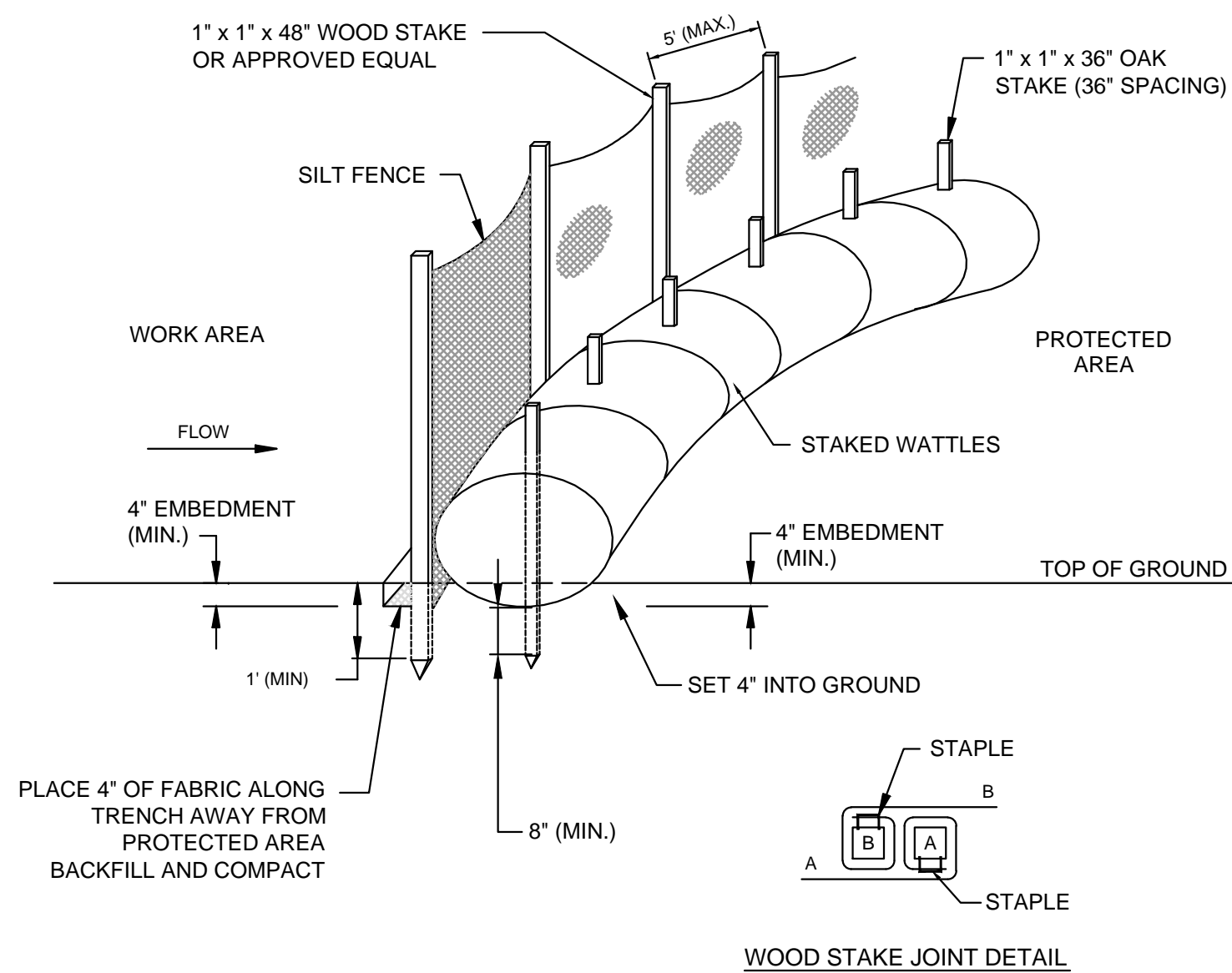
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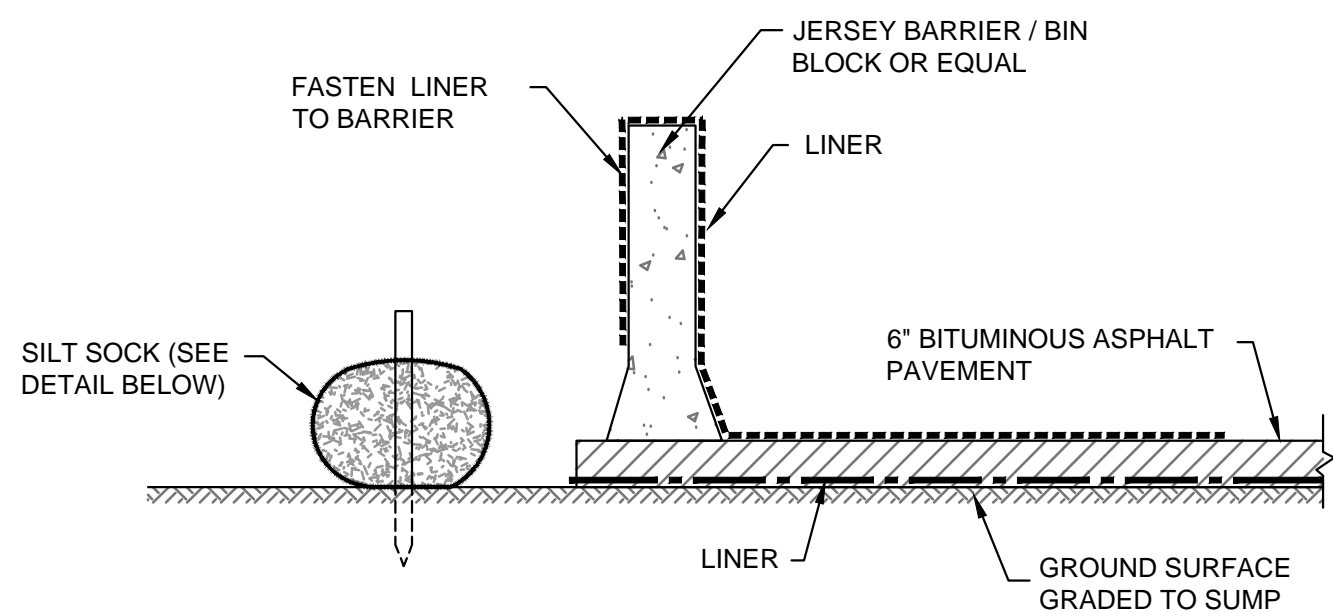
ENGINEERED BARRIER CROSS-SECTION
NOT TO SCALE



TYPICAL TEMPORARY SEDIMENTATION AND EROSION CONTROL BARRIER (SILT SOCK)
NOT TO SCALE



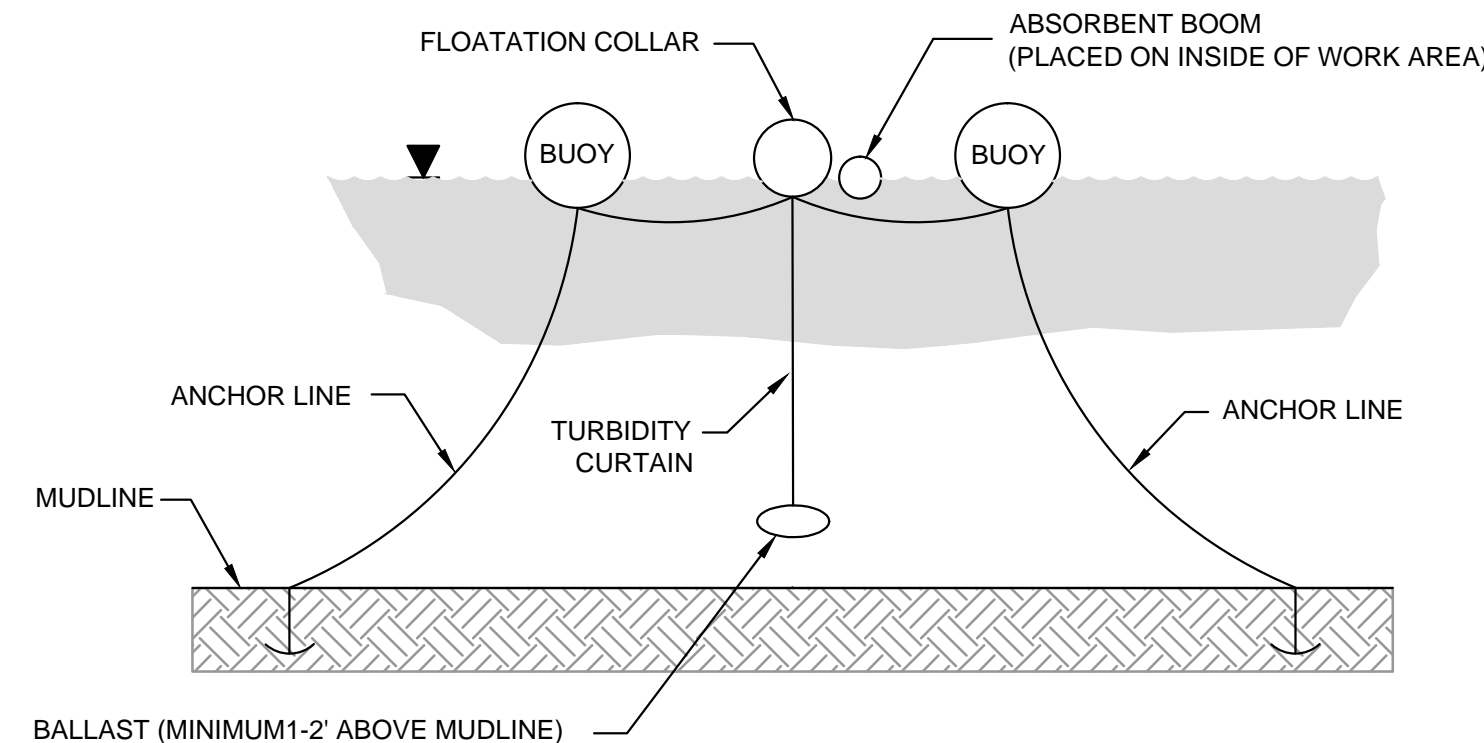
TYPICAL TEMPORARY SEDIMENTATION AND EROSION CONTROL BARRIER (STRAW WATTLES)
NOT TO SCALE



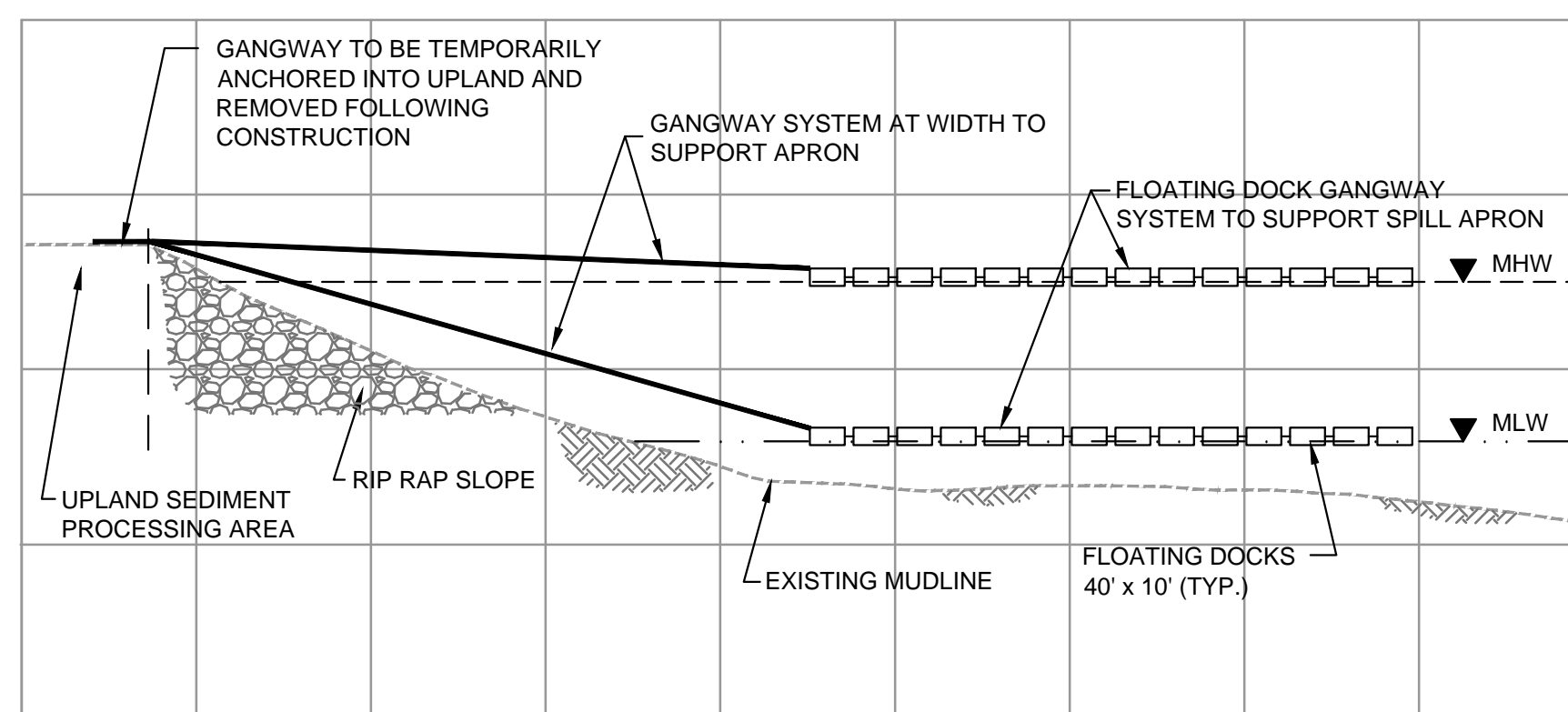
NOTES

1. THE EXISTING SURFACE WITHIN THE SEDIMENT PROCESSING AREA BOUNDARY WILL BE GRADED AND PAVED AS SHOWN IN THE DETAIL ABOVE. SURFACE WATER THAT FALLS ON THE ASPHALT PAD WILL DRAIN TO A SUMP, BE COLLECTED AND TEMPORARILY STORED ON-SITE, AND TRANSPORTED OFF-SITE FOR DISPOSAL. JERSEY BARRIERS/BIN BLOCKS OR EQUIVALENT WILL BE PLACED AROUND THE PAVED SEDIMENT PROCESSING WITH THE SPLASH EDGE DETAIL SHOWN TO CONTAIN SEDIMENT. STRAW WATTLES OR SILK SOCKS WILL BE COMBINED WITH SILT FENCES FOR EROSION CONTROL AND WILL BE PLACED OUTSIDE OF THE ASPHALT PAD BOUNDARY.

SEDIMENT PROCESSING AREA GENERAL CROSS-SECTION AND SPLASH CONTROL DETAIL
NOT TO SCALE



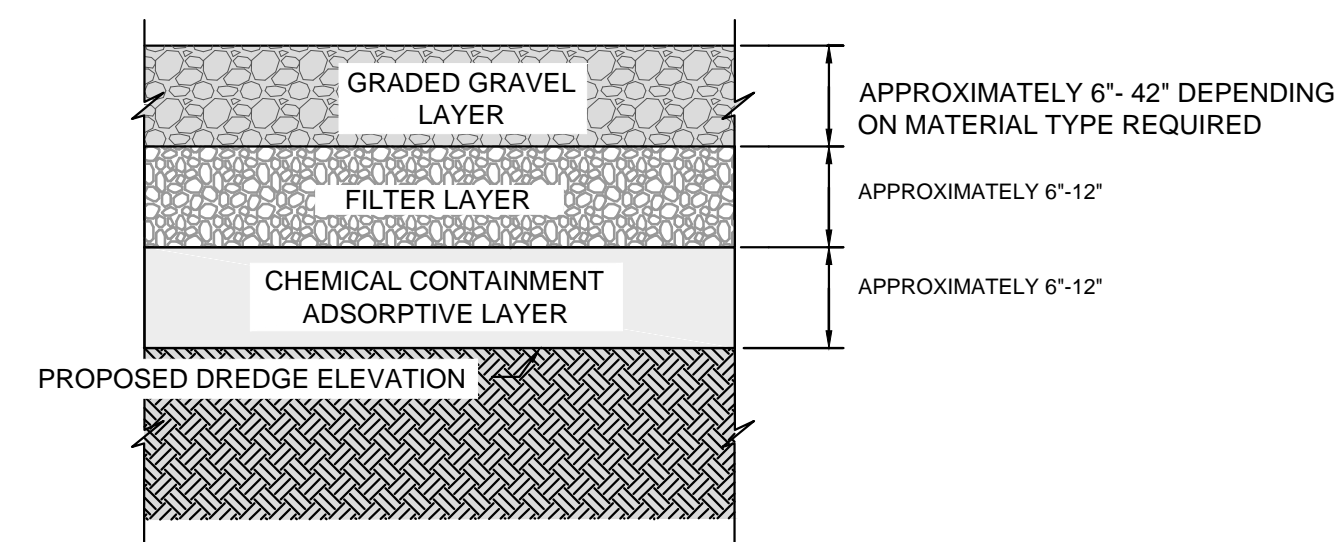
TYPICAL TURBIDITY AND SHEEN CONTROL
NOT TO SCALE



NOTE

1. SPILL APRON WITH COLLARED EDGES WILL BE PLACED ON THE FLOATING DOCK GANGWAY / SYSTEM. FLOATING DOCK GANGWAY SYSTEM WILL PROVIDE STRUCTURE BENEATH SPILL APRON AND WILL MOVE WITH THE TIDE. THE SYSTEM WILL BE TEMPORARILY ANCHORED INTO THE UPLAND AND WILL BE ATTACHED TO THE BARGES ON THE SEAWARD EXTENT OF THE SYSTEM.

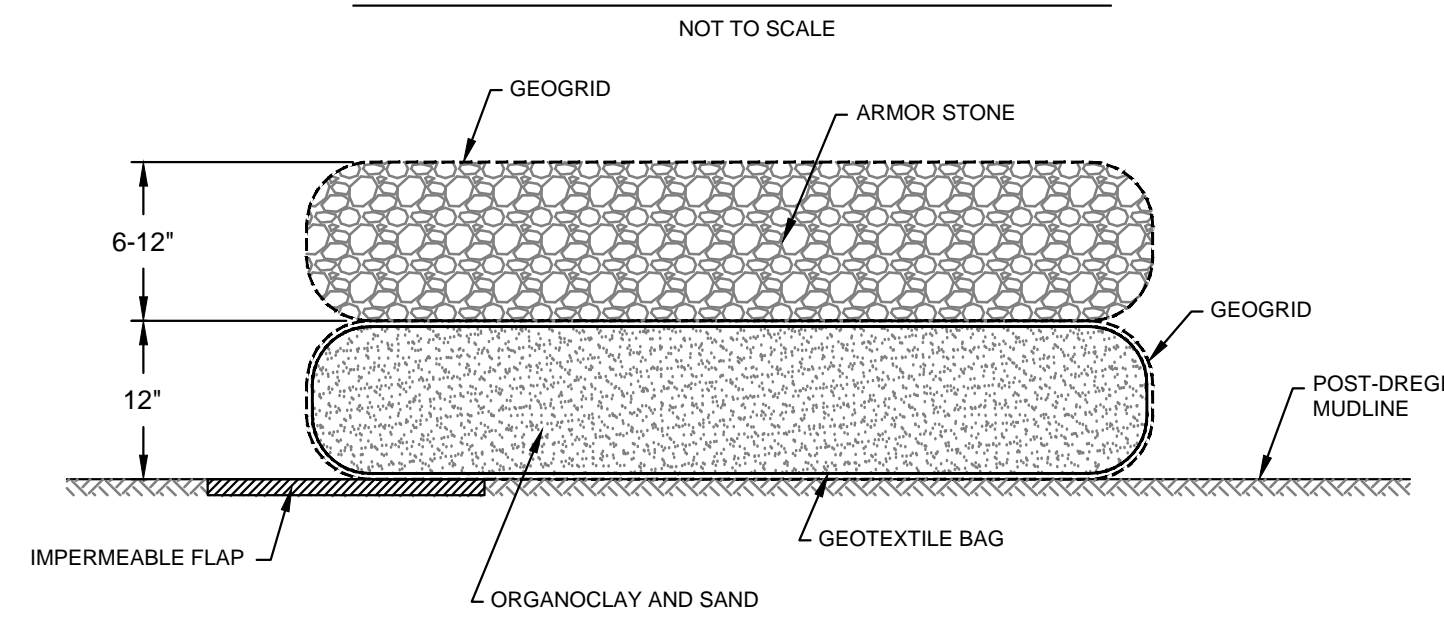
SPILL APRON SUPPORT SYSTEM
NOT TO SCALE



NOTES

1. LAYER THICKNESS ACCOUNTS FOR OVER PLACEMENT ALLOWANCE.
2. THE ARMOR LAYER MATERIAL MAY RANGE FROM A GRAVEL MATERIAL TO A LARGER COBBLE-SIZED MATERIAL PENDING FURTHER ANALYSIS. THE RANGE IN PLACEMENT THICKNESS SHOWN ACCOUNTS FOR THE RANGE IN MATERIAL SIZE.
3. THE TOP OF THE CAP ELEVATION SHALL NOT EXCEED EXISTING MUDLINE ELEVATION. ADDITIONAL DREDGING WILL BE CONDUCTED, IF REQUIRED, TO ACCOMMODATE THE CAP.

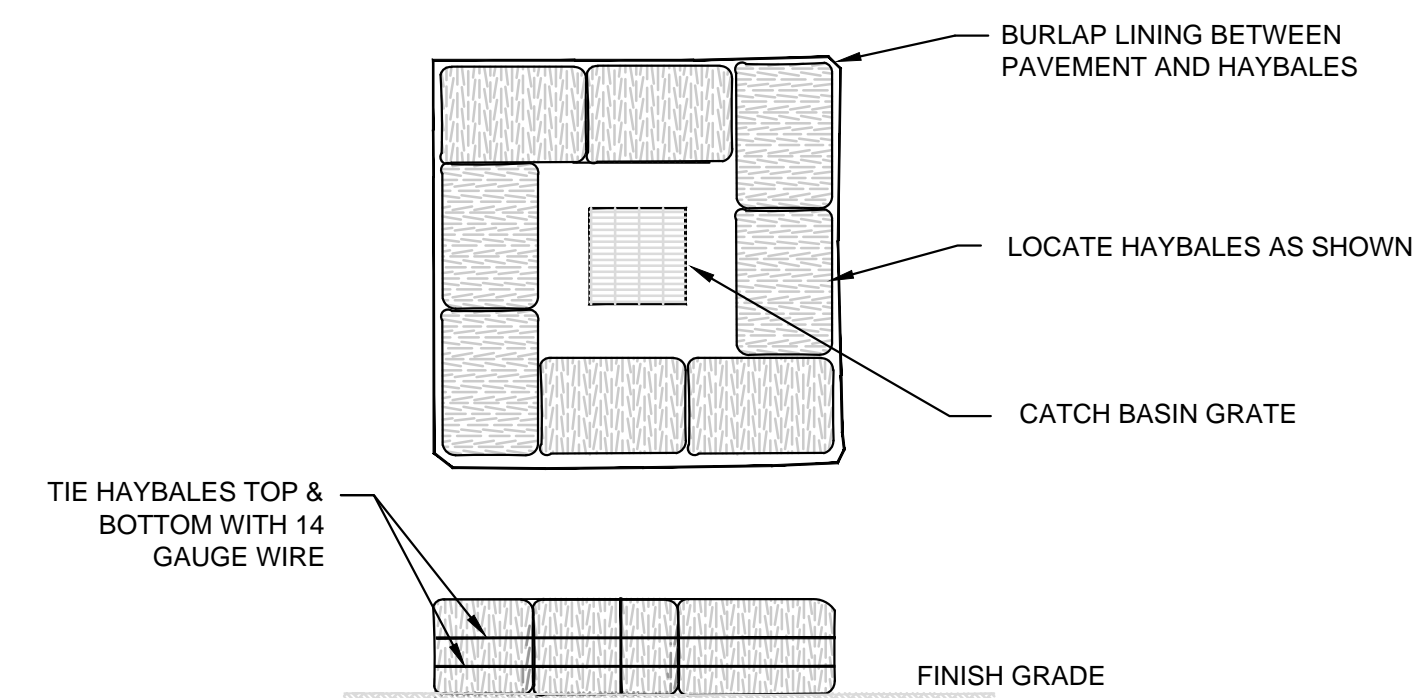
TYPICAL GRANULAR POREWATER CAP DETAIL



NOTES:

1. THE TOP OF THE CAP ELEVATION SHALL NOT EXCEED EXISTING MUDLINE ELEVATION. ADDITIONAL DREDGING WILL BE CONDUCTED, IF REQUIRED, TO ACCOMMODATE THE CAP.

TYPICAL MARINE ARMOR MATTRESS POREWATER CAP DETAIL



NOTES

1. SURROUND STREET DRAINAGE STRUCTURE INLET WITH HAYBALES PRIOR TO CONSTRUCTION AND MAINTAIN UNTIL CONSTRUCTION IS COMPLETED. ACCUMULATED SEDIMENTS SHALL BE REMOVED.
2. HAYBALES PLACED ON PAVEMENT SHALL HAVE BURLAP PLACED BETWEEN PAVEMENT AND HAYBALE.

CATCH BASIN INLET PROTECTION
NOT TO SCALE

NOTES

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	MISCELLANEOUS DETAILS		
	PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: nationalgrid	
	PREPARED BY: ANCHOR OEA	REVIEWED BY: MJB PROJ MGR: JAC DESIGNED BY: MS DRAWN BY: EMD/CRB	FIGURE 7
	PROJ. NO. 25623.00	SCALE: AS NOTED	DATE: AUGUST 2014