



NOTES:

- SOURCE: THE TOPOGRAPHIC SURVEY BASE MAP WAS DEVELOPED FROM ELECTRONIC FILES PROVIDED BY HANCOCK SURVEY ASSOCIATES ON 10-09-2012. CAD FILE: 150735VMB.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.
- 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 (NGVD29).
- 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 TG&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, L.L.C. 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.
- 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.
- RESOURCE AREAS DELINEATED BASED ON DEFINITIONS IN 310 CMR 10.00.

LEGEND

- PROPERTY LINE
- PROPOSED TRUCK ROUTE PLAN
- PROPOSED BARGE TRAFFIC ROUTE PLAN
- LAND UNDER THE OCEANWATERS OF THE UNITED STATES
- COASTAL BANK
- COASTAL BEACH
- LAND SUBJECT TO TIDAL ACTION
- AREA TO BE DREDGED
- LIMITS OF DREDGING
- EROSION AND SEDIMENTATION CONTROL BARRIER
- TOP OF COASTAL BANK
- 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)
- INFERRED HIGH WATER MARK (MASSGIS) (CHAPTER 91 JURISDICTION)
- HISTORIC HIGH WATER MARK (MASSGIS) (CHAPTER 91 JURISDICTION)
- 100 FT. BUFFER ZONE (TOP OF COASTAL BANK)
- 200 FT. BUFFER ZONE (TOP OF COASTAL BANK)
- 100 FT. BUFFER (COASTAL BEACH)
- 200 FT. BUFFER (COASTAL BEACH)
- 100 FT. BUFFER (LAND UNDER THE OCEAN)
- 200 FT. BUFFER (LAND UNDER THE OCEAN)
- PRE-2004 GLOUCESTER HARBOR LINE
- 2004 GLOUCESTER HARBOR LINE
- POTENTIAL DOLPHIN/PILE GROUP LOCATION FOR BARGE ANCHORING

0 15' 30' 60' 90'
SCALE IN FEET

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 OEA	REVIEWED BY: MJB
PROJ. NO. 25623.00	PROJ. MGR: JAC
SCALE: 1"=30'	DESIGNED BY: MS
DATE: MARCH 2013	DRAWN BY: EMO/CRB

FIGURE 5C

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