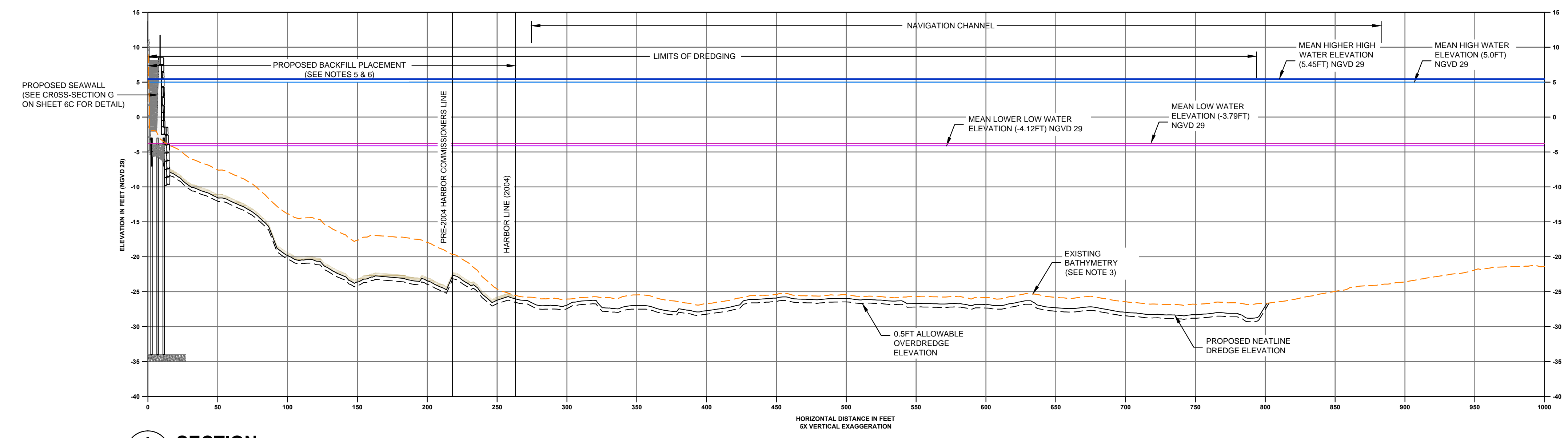
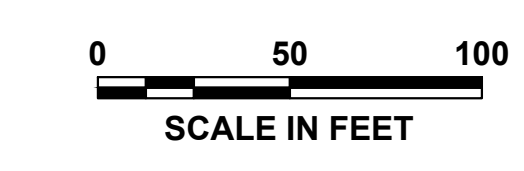
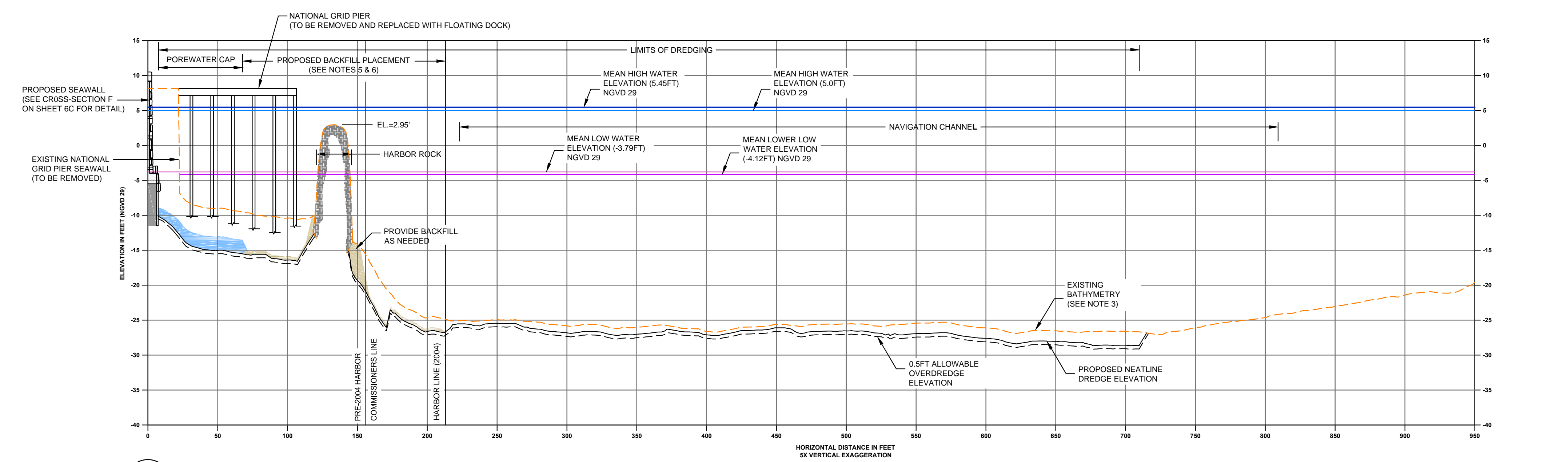


- NOTES:**
- THESE PLANS ARE INTENDED ONLY FOR ACCOMPANYING ENVIRONMENTAL PERMIT APPLICATIONS AND ARE NOT TO BE USED FOR CONSTRUCTION.
  - HORIZONTAL DATUM: MA STATE PLANE MAINLAND ZONE, NAD83, U.S. SURVEY FEET. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
  - EXISTING BATHYMETRY 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 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
  - BACKFILL
  - POREWATER CAP



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



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

NO.	ISSUE/DESCRIPTION	BY	DATE

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

APPROVED:

PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:
PREPARED BY: <b>ANCHOR OEA</b>	REVIEWED BY:
PROJ. NO. 25623.00	PROJ. MGR.:
SCALE: 1"=50 FEET	DESIGNED BY:
DATE: 02-12-2013	DRAWN BY:

FIGURE  
**6A**

GZA-A:\CAD - Boston\PROJECTS\0327-National Grid\Footer Gloucester MGP\2013\0327-EP-006.dwg [Figure 6A] March 15, 2013 - 4:41 pm psabba