

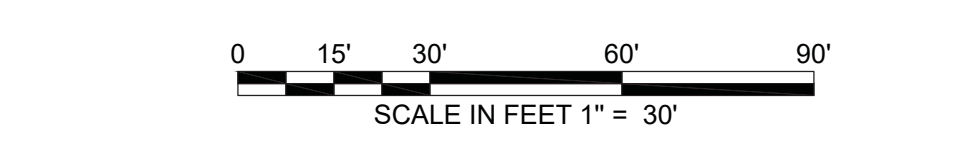
LEGEND:

DESCRIPTION	EXISTING
SURVEY STATION	△
SIGN	—
PROPERTY LINE	—
APPROXIMATE EXTERIOR PROPERTY LINE	—
FLOOD LINE	F
MEAN HIGH WATER LINE (MHW)	—
MEAN LOW WATER LINE (MLW)	—
EDGE OF PAVEMENT	—
EDGE OF GRAVEL	—
FENCE	—
MINOR FOOT CONTOUR	—
MAJOR FOOT CONTOUR	—
TREELINE	—
BATHYMETRY MINOR FOOT CONTOUR	—
BATHYMETRY MAJOR FOOT CONTOUR	—
STEEL PIPE PILE	○
TIMBER PILE	+
STEEL H-PILE	+
SEWER MANHOLE	⊙
DRAINAGE MANHOLE	⊙
COMMUNICATIONS MANHOLE	⊙
ELECTRICAL BOX	⊙
UTILITY POLE	⊙
GUY ANCHOR	⊙
CATCH BASIN	⊙
LIGHT POLE	⊙
WATER SHUTOFF	⊙
WATER VALVE	⊙
HYDRANT	⊙
SIGN	⊙
OVERHEAD UTILITY LINE	—
UNDERGROUND ELECTRICAL LINE	—
UNDERGROUND COMMUNICATIONS LINE	—
SEWER LINE	—
SEWER FORCE MAIN LINE	—
STORM DRAIN LINE	—
UNDERGROUND GAS LINE	—
UNDERGROUND WATER LINE	—

EXPLORATION LEGEND:

DESCRIPTION	SYMBOL
TEST BORINGS DRILLED BY MAINE TEST BORINGS OF BREWER, ME BETWEEN JULY 20 AND AUGUST 5, 1987 AND OBSERVED S.W. COLE PERSONNEL	B-101
TEST BORINGS DRILLED BY NORTHEAST DIAMOND DRILLING CO. OF UNION, ME BETWEEN SEPTEMBER 27 AND OCTOBER 13, 1988 AND OBSERVED BY S.W. COLE PERSONNEL	B-201
TEST BORINGS DRILLED BY MAINE TEST BORINGS OF BREWER, ME BETWEEN NOVEMBER 16 AND 18, 2005 AND OBSERVED S.W. COLE PERSONNEL	BH-B-1
TEST BORINGS DRILLED BY SUMMIT GEOENGINEERING SERVICES OF WASHINGTON, ME ON JUNE 1, 2010	B-1
PROPOSED WATER BORING	GZ-4
PROPOSED DREDGE SEDIMENT SAMPLE	DSS-1
DIG SAFE MARKING	●

- PLAN REFERENCES:**
- "BOUNDARY SURVEY OF THE MAINE MARITIME ACADEMY PROPERTY, WATER, MAIN & SEA STREETS, CASTINE, HANCOCK COUNTY, MAINE", PREPARED BY SAGE COLLINS SURVEYING, INC. AND DATED OCTOBER 25, 2018.
 - "EXITING WATER STREET (WEST & EAST) INFRASTRUCTURE PLAN & PROFILE", PREPARED BY OLVER ASSOCIATES, INC., MANDY HOLWAY OLVER, PE #5765, AND DATED DECEMBER 2016.
 - HISTORIC BULKHEAD SYSTEMS AND CRIB WALL ARE BASED ON LIMITED DESIGN AND RECORD DRAWINGS FROM 1963, 1987, 1990, 1991, AND 2010. INTERPRETATION AND APPROXIMATIONS WERE MADE FOR THE LAYOUT SHOWN. THE STRUCTURES MAY OR MAY NOT BE PRESENT, OR BE OF DIFFERENT CONFIGURATION OR LOCATION. OTHER STRUCTURES MAY BE POSSIBLE OR ENCOUNTERED.
 - CONCEPTUAL PROPOSED STRUCTURES ARE SHOWN FOR GENERAL BORING LAYOUT PURPOSES.



NOTE:

- THIS PLAN DEPICTS EXISTING TOPOGRAPHIC CONDITIONS AS FOUND AND SURVEYED BY HALEY WARD, INC. ON SEPTEMBER 1, 2022, SUPPLEMENTED BY LIMITED TOPOGRAPHIC CONDITIONS SURVEYED BY GZA GEOENVIRONMENTAL, INC. ON AUGUST 30 AND 31, 2022.
- HYDROGRAPHIC SURVEY PERFORMED BY GZA GEOENVIRONMENTAL, INC. ON AUGUST 30 AND 31, 2022 REPRESENTS THE CONDITIONS AT THE TIME OF THE SURVEYS. HYDROGRAPHIC SURVEY WAS PERFORMED FROM A GZA SURVEY VESSEL UTILIZING AN ODOM HYDROTRAC SINGLE FREQUENCY ECHO SOUNDER, 200KHZ TRANSDUCER WITH AN 8-DEGREE BEAM, ODOM DIGIBAR VELOCITY PROBE, LEICA VIVA SMARTWORX REAL-TIME KINEMATIC (RTK) DIFFERENTIAL GLOBAL POSITIONING UNIT (DGPS) FOR HORIZONTAL POSITIONING AND HYPACK ACQUISITION AND PROCESSING SOFTWARE.
- HORIZONTAL DATUM: MAINE STATE PLANE, EAST ZONE, NAD 83, US FEET (ME83-EF)
- VERTICAL DATUM: ELEVATIONS AS IN FEET AND REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

BORING I.D.	PROPOSED BORING COORDINATES		ACTUAL COORDINATES	
	EASTING	NORTHING	EASTING	NORTHING
GZ-1	906410.561	262522.342	906410.006	262522.267
GZ-2	906530.621	262574.190	906527.438	262571.755
GZ-3	906632.118	262533.591	906634.170	262540.665
GZ-4	906528.619	262147.174		
GZ-5	906604.706	262299.988		
GZ-6	906765.079	262313.476		
GZ-7	906882.687	262427.797		
GZ-8	906999.206	262545.324		

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REPRODUCED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

MAINE MARITIME ACADEMY WATERFRONT IMPROVEMENTS PROJECT
MAINE MARITIME ACADEMY WATERFRONT CAMPUS
CASTINE, MAINE

PROPOSED WATER BORING AND DREDGE SAMPLING LOCATION PLAN

PREPARED BY:	GZA	PREPARED FOR:	MAINE MARITIME ACADEMY CASTINE, ME
PROJ MGR:	RKC	REVIEWED BY:	CLS
DESIGNED BY:	CWC	DRAWN BY:	MEA
DATE:	APRIL 2023	CHECKED BY:	CLS
		SCALE:	AS NOTED
		PROJECT NO.:	35109.00
		REVISION NO.:	
		FIGURE	1
		SHEET NO.	