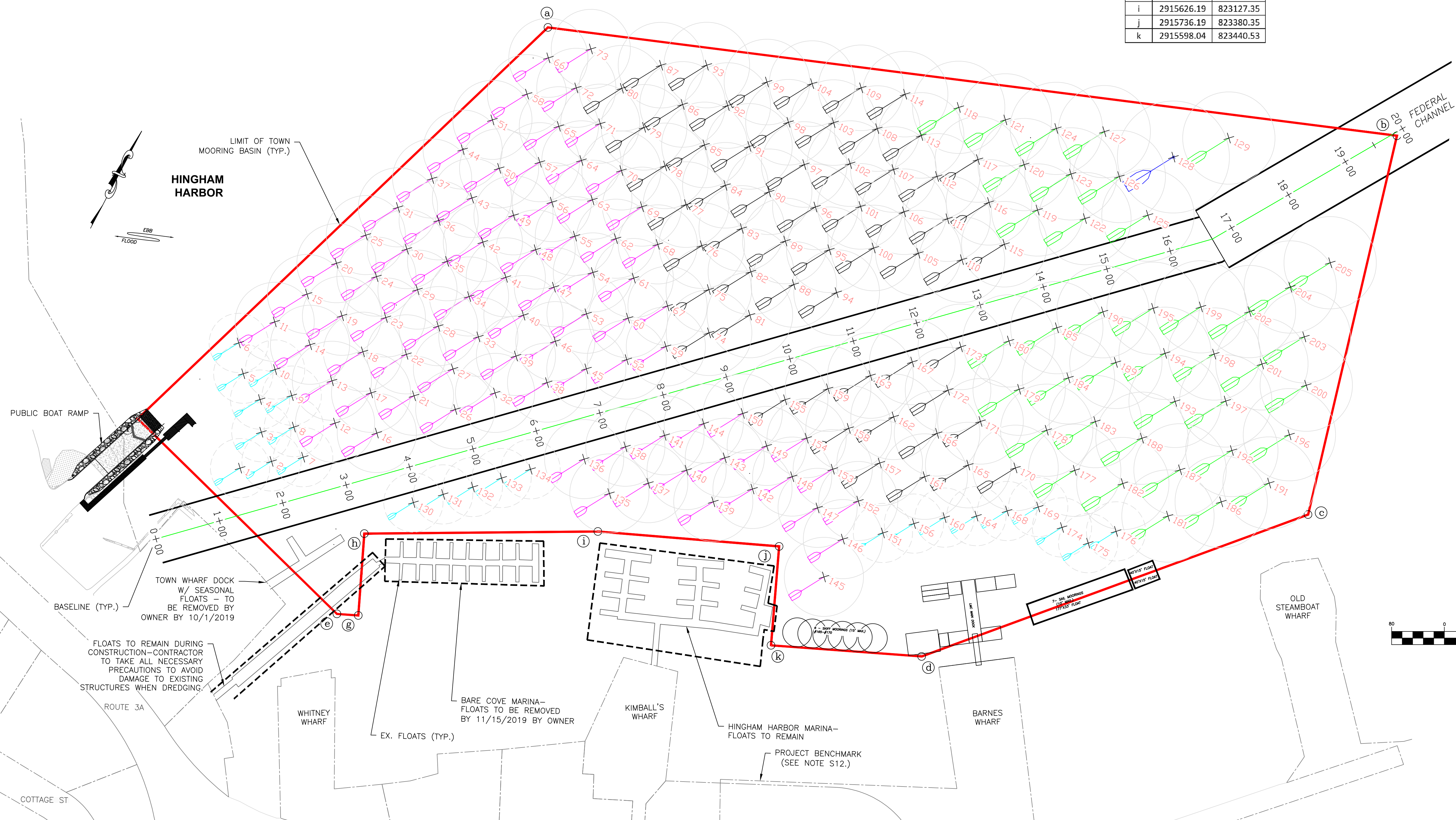
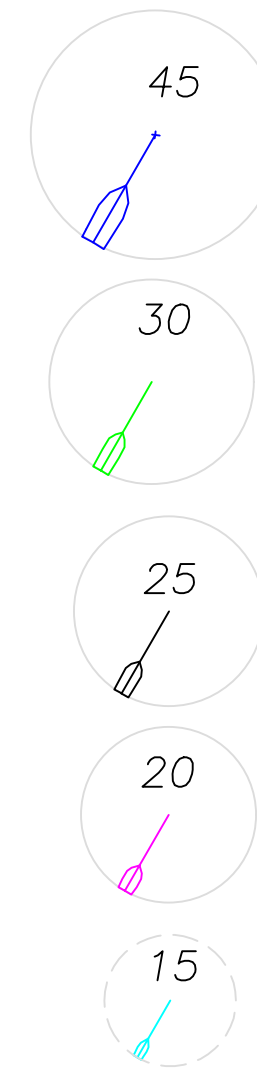


**GENERAL NOTES:**  
 G1. THE BATHYMETRIC DATA SHOWN ON THIS PLAN WAS GATHERED ON NOVEMBER 11, 2019.  
 G2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO DEPTHS BELOW THE VERTICAL REFERENCE PLANE. THE VERTICAL REFERENCE PLANE FOR THIS PROJECT IS MLW.  
 G3. SOUNDINGS SHOWN AS NEGATIVE ARE ABOVE THE REFERENCE PLANE.  
 G4. COORDINATES ARE BASED ON NAD 83 STATE PLANE MASSACHUSETTS MAINLAND COORDINATE GRID.  
 G5. BENCHMARK / RTK TIDES: TIDES ARE RECORDED USING RTK TIDES IN HYPACK. ELEVATIONS FROM ELLIPSOID TO ORTHOMETRIC NAVD88 USE GEOID 12A. THE OFFSET BETWEEN THE ORTHOMETRIC HEIGHT AND THE LOCAL TIDAL DATUM (NAVD88) (K) = -5.28'  
 G6. RTK CORRECTIONS FOR THIS SURVEY PROVIDED BY KEYNET - VRS.  
 G7. THE SOUNDING INFORMATION SHOWN ON THIS PLAN REPRESENTS THE 10' MINIMUM VALUE SORTED SOUNDINGS OBTAINED FROM SINGLE BEAM HYDROGRAPHIC SURVEY.  
 G8. ORTHO-IMAGERY AND SCALED DATA IS APPROXIMATE UNLESS OTHERWISE NOTED AND SHOULD BE USED AS A GENERAL REFERENCE ONLY.  
 G9. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES SHOWN, AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. INTERPOLATED INFORMATION FROM BETWEEN SOUNDING RUNS IS NOT GUARANTEED. SHOALS, OBSTRUCTIONS OR OTHER DIFFERING CONDITIONS MAY EXIST BETWEEN THESE RUNS. CONSULT WITH CLE ENGINEERING FOR MORE DETAILED INFORMATION.  
 G10. POSSESSION AND USE OF THE MATERIAL CONTAINED ON THESE DRAWINGS IS GRANTED ONLY IN CONNECTION WITH ITS USE AS IT RELATES TO THE TITLED PROJECT, ANY OTHER USE, REPRODUCTION OR DISCLOSURE OF THE INFORMATION CONTAINED HEREON IS EXPRESSLY PROHIBITED WITHOUT THE WRITTEN CONSENT OF FOTH INFRASTRUCTURE & ENVIRONMENT, LLC.

**SURVEY NOTES:**  
 S1. PROJECT NAME: HINGHAM HARBOR MAINTENANCE DREDGING  
 S2. PROJECT NUMBER: 18H010.00  
 S3. PLOT SCALE: AS NOTED  
 S4. SURVEY DATE: NOVEMBER 11, 2019  
 S5. SURVEYOR: M.CAMPAGNONE, M.COUNT  
 S6. VESSEL: OLAF  
 S7. TRANS./FATH.: ODOM CVM, 200KHZ  
 RTK KEYNET CORRECTIONS  
 S8. WEATHER COND: SUNNY, 40 DEGREES, WIND SW 10-15, SEAS CALM  
 S9. PROJECT DATUM: MLW AS NOTED IN DATUM CONVERSION CHART  
 S10. COOR. SYSTEM: NAD-83, MASSACHUSETTS MAINLAND  
 S11. DATA REDUCTION: DATA SORTED 10' MINIMUM  
 NGS PID MY2164 DISK SET IN SEAWALL ELEVATION  
 S12. BENCHMARK: 9.82 NAVD88 (GEOID 12B)

Point	Northing	Easting
a	2916264.86	822698.81
b	2916728.74	823912.03
c	2916158.17	824064.92
d	2915691.17	823649.93
e	2915328.72	822837.40
f	2915447.14	822430.94
g	2915341.95	822867.14
h	2915455.87	822816.47
i	2915626.19	823127.35
j	2915736.19	823380.35
k	2915598.04	823440.53

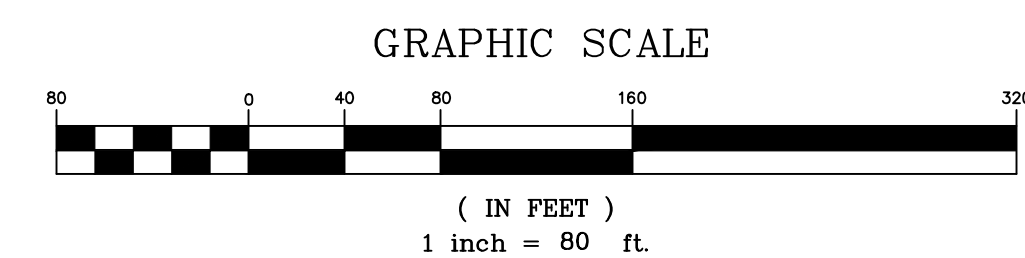
**LEGEND**



**DATUM OFFSETS**

MLW	NAVD88	MHW
9.96	4.68	MHW
9.51	4.23	MHW
5.28	0	NAVD88
0.0	-5.28	MLW
-0.35	-5.63	MLLW

OFFSETS TAKEN FROM VDATUM ONLINE 3/30/18



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**HINGHAM INNER HARBOR MOORING PLAN**  
 TOWN OF HINGHAM  
 210 CENTRAL STREET  
 HINGHAM, MA 02043

**REVISIONS**

NO.	BY	DATE	DESCRIPTION
1	A	A	A
2	A	A	A
3	A	A	A
4	A	A	A
5	A	A	A
6	A	A	A
7	A	A	A
8	A	A	A
9	A	A	A
10	A	A	A

**DATE OF PREPARATION**

BY	DATE
M.COUNT	11/11/2019
M.COUNT	3/11/2020

CHECKED: [ ]  
 ISSUED: CLIENT REVIEW PURPOSES

**INNER HARBOR PROPOSED MOORING PLAN**

**SHEET 1 OF 1**

PROJECT ID: 20A005.10

**DRAFT**