GENERAL NOTES:

1. SOUNDINGS ARE IN FEET AND TENTHS. THE REFERENCE PLANE IS MEAN LOWER LOW WATER (MLLW) AND IS BASED ON THE 1983-2001 TIDAL EPOCH. SOUNDINGS NOTED WITH A (+) ARE ABOVE THE REFERENCE PLANE OF MLLW. SOUNDINGS WITHOUT A SIGN ARE BELOW THE REFERENCE PLANE OF MLLW, AND SHOULD BE CONSIDERED NEGATIVE.

2. TOPOGRAPHY SHOWN IS FROM PREVIOUS SURVEYS, AERIAL IMAGERY AND/OR NOAA CHART NO. 13275. ALL TOPOGRAPHY, INCLUDING SHORELINE, BRIDGES, PIERS, ETC., IS LOCATED APPROXIMATE UNLESS OTHERWISE NOTED AND SHOULD BE USED AS A GENERAL REFERENCE ONLY.

3. BENCH MARK DATA: TIDES WERE RECORDED USING RTK GPS. THE MLLW TO NAVD88 CORRECTION FOR THIS PROJECT IS 5.47 FEET. THIS CORRECTION WAS ESTABLISHED IN THE VICINITY OF NOAA BENCH MARKS AT LYNN, MASSACHUSETTS (STATION ID 8443187, 04/21/2003).THE REFERENCE POINT ESTABLISHED FOR THE CORRECTION IS STATION HBRMSTR (2017). NAVD88 IS ABOVE MLLW; THEREFORE THE CORRECTION SHOULD BE ADDED TO NAVD88 TO CONVERT TO MLLW. NO TIDE GAUGES WERE USED ON THIS PROJECT.

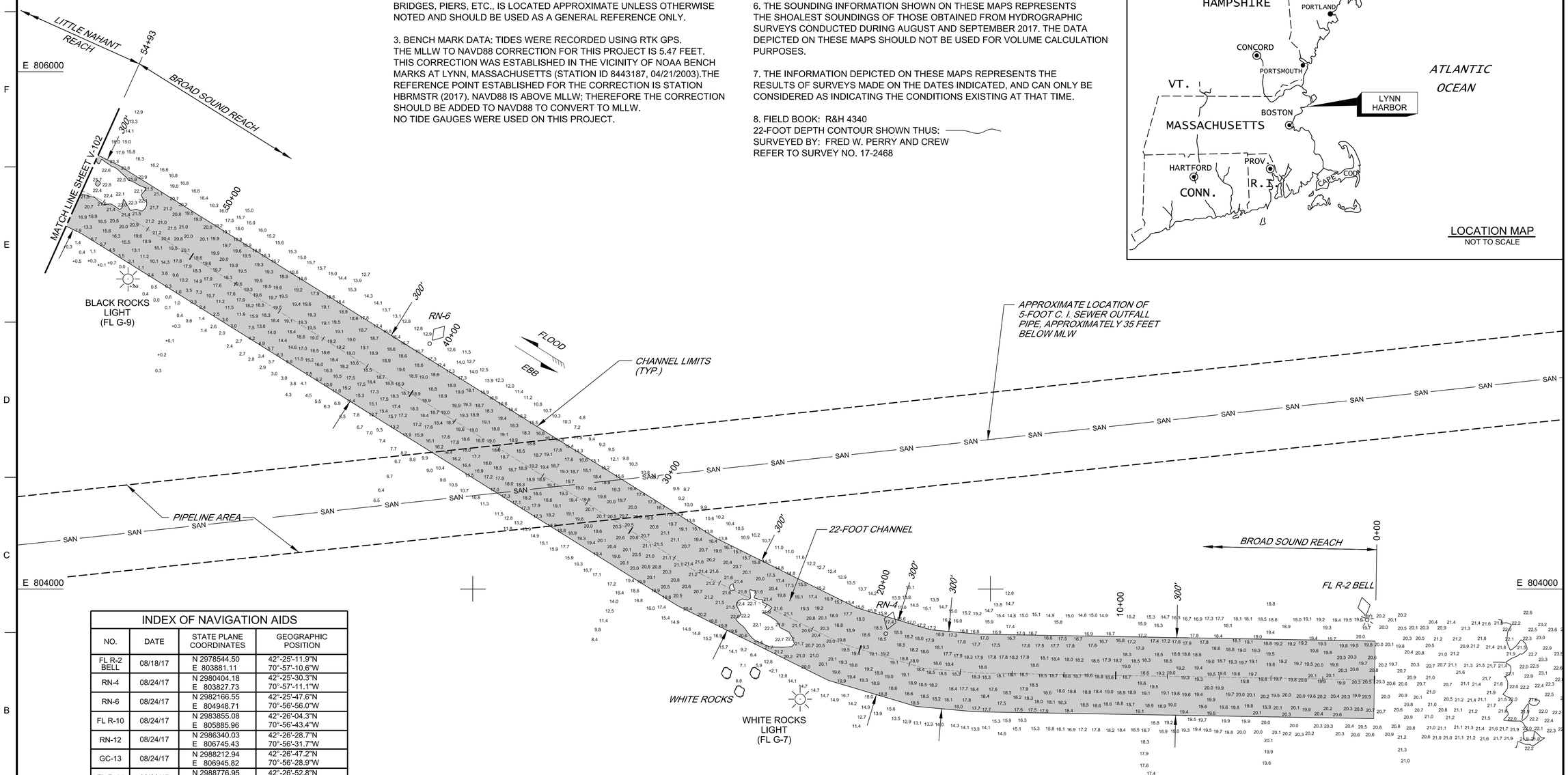
4. COORDINATES SHOWN ARE BASED ON THE LAMBERT GRID SYSTEM FOR THE COMMONWEALTH OF MASSACHUSETTS (MAINLAND ZONE 2001), NAD 1983 AND ARE BASED ON U.S. SURVEY FEET.

5. SURVEY WAS PERFORMED USING AN ODOM MK 3 ECHO SOUNDER OPERATING AT 200 KHZ. HORIZONTAL POSITIONING AND REAL TIME TIDE READINGS WERE RECORDED UTILIZING A TRIMBLE SPS 855 RTK GPS SYSTEM. THE RTK BASE STATION USED WAS STATION HBRMSTR (2017).

6. THE SOUNDING INFORMATION SHOWN ON THESE MAPS REPRESENTS THE SHOALEST SOUNDINGS OF THOSE OBTAINED FROM HYDROGRAPHIC SURVEYS CONDUCTED DURING AUGUST AND SEPTEMBER 2017. THE DATA DEPICTED ON THESE MAPS SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.

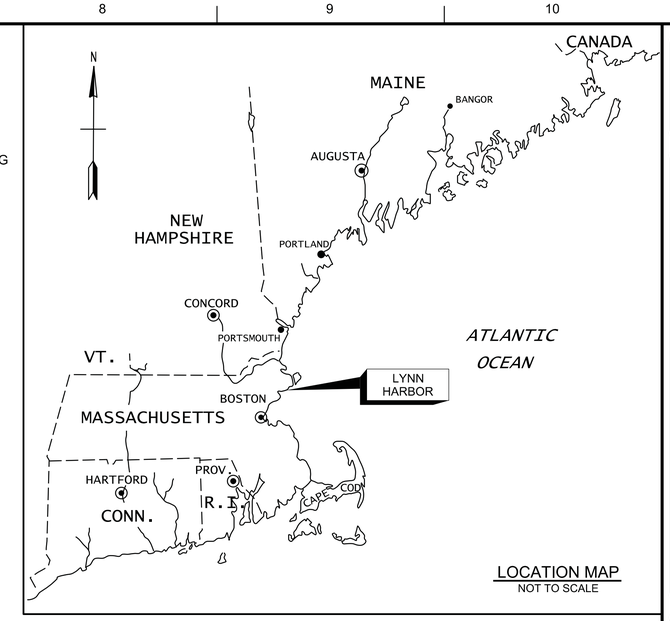
7. THE INFORMATION DEPICTED ON THESE MAPS REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED, AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.

8. FIELD BOOK: R&H 4340
22-FOOT DEPTH CONTOUR SHOWN THUS:
SURVEYED BY: FRED W. PERRY AND CREW
REFER TO SURVEY NO. 17-2468



INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
FL R-2 BELL	08/18/17	N 2978544.50 E 803881.11	42°-25'-11.9"N 70°-57'-10.6"W
RN-4	08/24/17	N 2980404.18 E 803827.73	42°-25'-30.3"N 70°-57'-11.1"W
RN-6	08/24/17	N 2982166.55 E 804948.71	42°-25'-47.6"N 70°-56'-56.0"W
FL R-10	08/24/17	N 2983855.08 E 805885.96	42°-26'-04.3"N 70°-56'-43.4"W
RN-12	08/24/17	N 2986340.03 E 806745.43	42°-26'-28.7"N 70°-56'-31.7"W
GC-13	08/24/17	N 2988212.94 E 806945.82	42°-26'-47.2"N 70°-56'-28.9"W
FL R-14	08/23/17	N 2988776.95 E 807149.37	42°-26'-52.8"N 70°-56'-26.1"W
FL G-17	08/23/17	N 2990963.65 E 806183.34	42°-27'-14.5"N 70°-56'-38.8"W
RN-18	08/23/17	N 2991368.61 E 806023.17	42°-27'-18.5"N 70°-56'-40.9"W

A4 PLAN - STA. 0+00 - STA. 54+93
SCALE: 1" = 200'
0 200' 400'



LOCATION MAP
NOT TO SCALE

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: OCTOBER 17, 2017
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE: LYN-200
SHEET 1 OF 3
DSIZE: 22"X34"
SCALE: 1:1
ANSI D

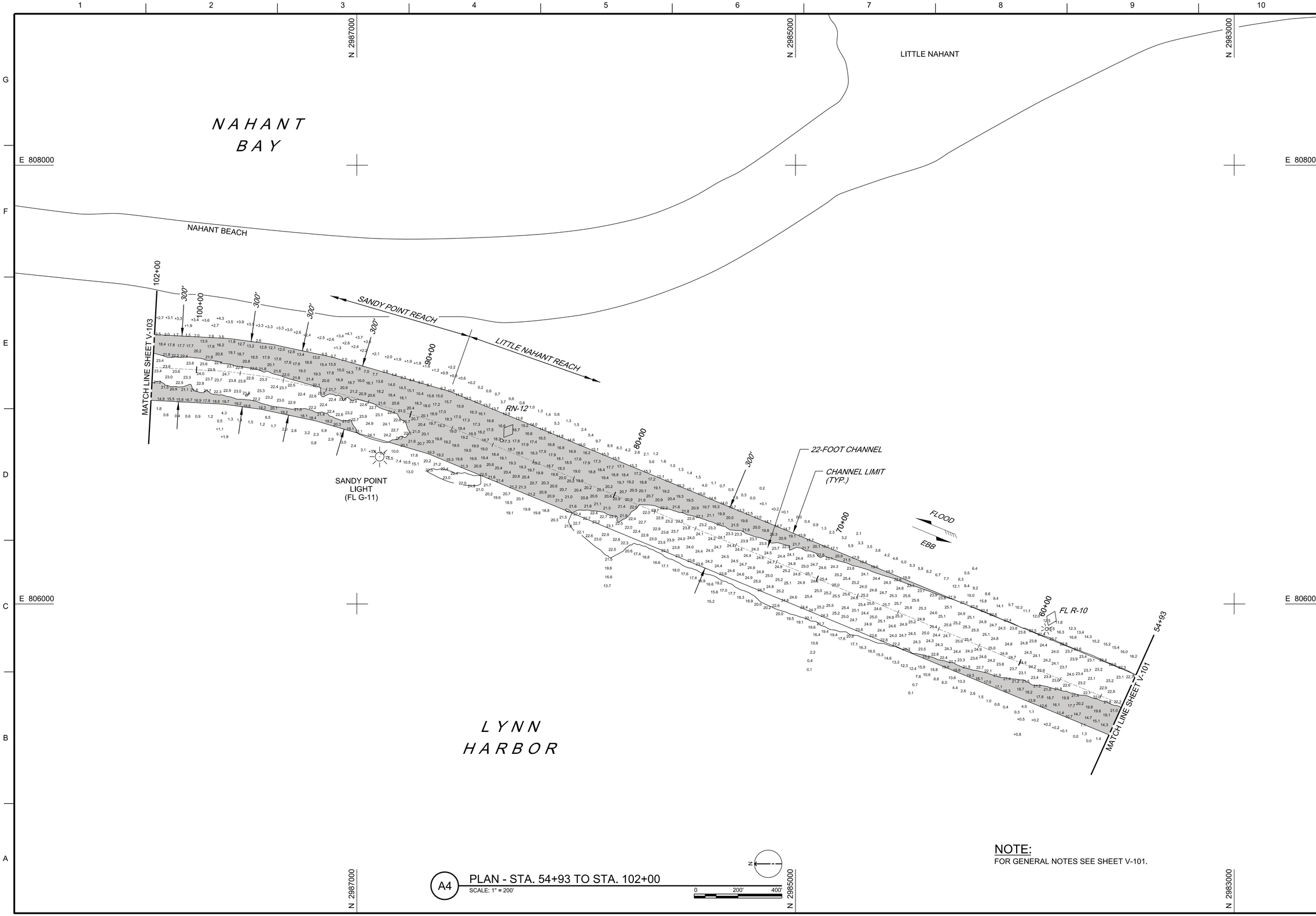
DWN BY: AEB
CHK BY: DJB
REVIEWED BY: KATRINA R. WYLLIE /S/ Asst. Chief, Survey Sec.
APPROVED BY: WILLIAM J. ROSS /S/ Chief, Survey Section

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

LYNN HARBOR
LYNN, MASSACHUSETTS
CONDITION SURVEY

22-FOOT CHANNEL AND TURNING BASIN

SHEET ID
V-101



NOTE:
FOR GENERAL NOTES SEE SHEET V-101.

A4 PLAN - STA. 54+93 TO STA. 102+00
SCALE: 1" = 200'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DWN BY: AEB
CHK BY: DJB
ISSUE DATE: OCTOBER 17, 2017
REVIEWED BY: KATRINA R. WYLLIE /S/ Asst. Chief, Survey Sec.
SOLICITATION NO.:
CONTRACT NO.:
APPROVED BY: WALKER WILLIS
DRAWING CODE: LYN-200
For: Chief, Survey Section
SHEET 2 OF 3
SIZE: ANSI D
SCALE: 1:1

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

LYNN HARBOR
LYNN, MASSACHUSETTS
CONDITION SURVEY

22-FOOT CHANNEL AND TURNING BASIN

SHEET ID
V-102

pw://COE-NAEPWP01CON.nae.ds.usace.army.mil:coe-naepwp01con.nae.ds.usace.army.mil/Documents/Civil Works/Navigation/Massachusetts/Lynn Harbor/Oct. 2017 Project Condition Survey/ProjectData/CAD_BIM/_Sheets/Sheet Seed File ANSI D
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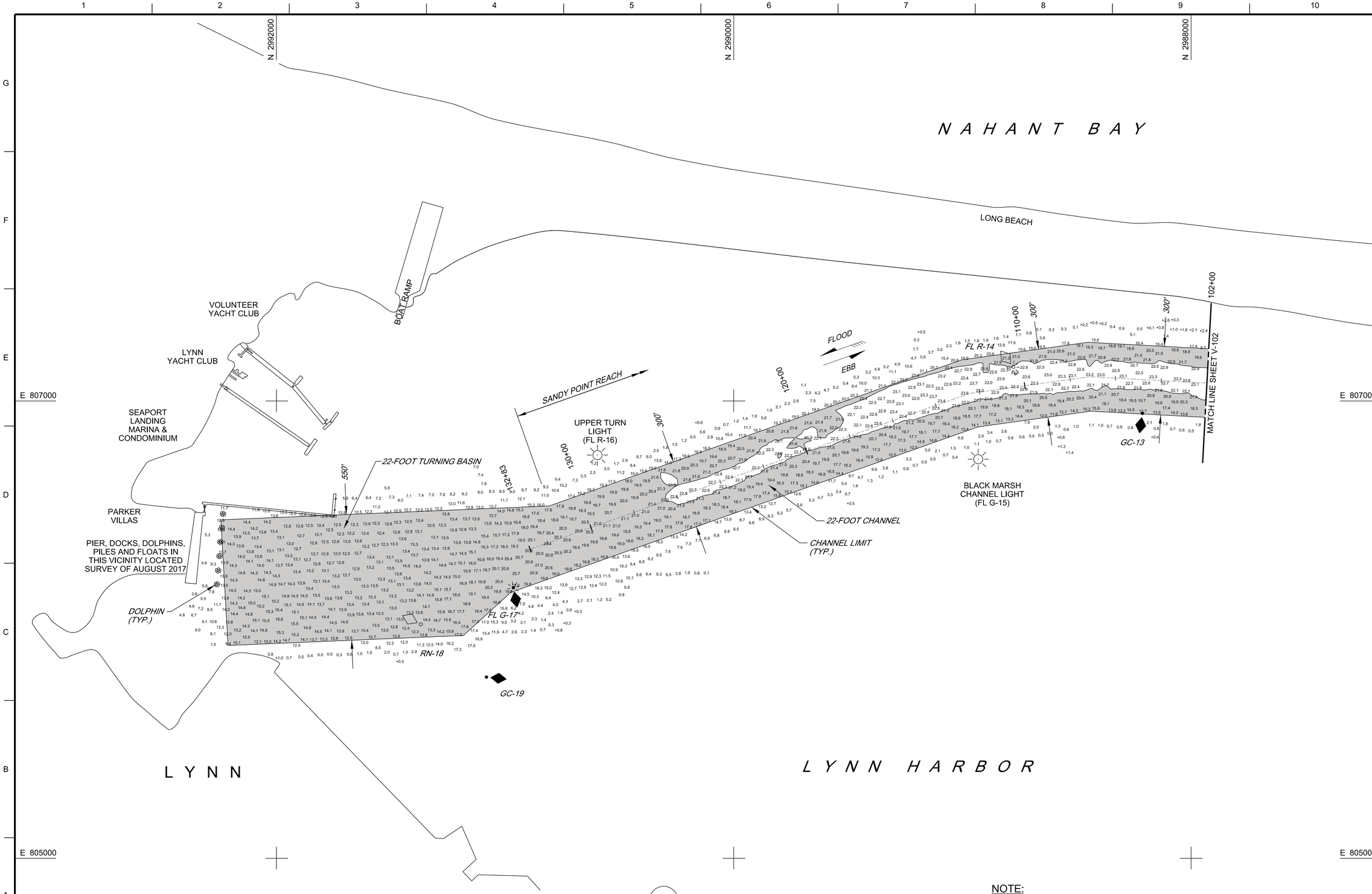

A3 PLAN - STA. 102+00 TO STA. 132+83

SCALE: 1" = 200'

0 200' 400'

NOTE:
FOR GENERAL NOTES SEE SHEET V-101.

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MARK	DESCRIPTION	DATE

DWN BY: AEB | CHK BY: DJB | REVIEWED BY: KATRINA R. WYLLIE /S/ Asst. Chief, Survey Sec.

ISSUE DATE: OCTOBER 17, 2017
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE: LYN-200
SHEET 3 OF 3
SCALE: 1:1
ANSI D

APPROVED BY: MICHAEL J. MUSTO
Chief, Survey Section
FOR: Chief, Engineering Division

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

LYNN HARBOR
LYNN, MASSACHUSETTS
CONDITION SURVEY

22-FOOT CHANNEL AND TURNING BASIN

SHEET ID
V-103