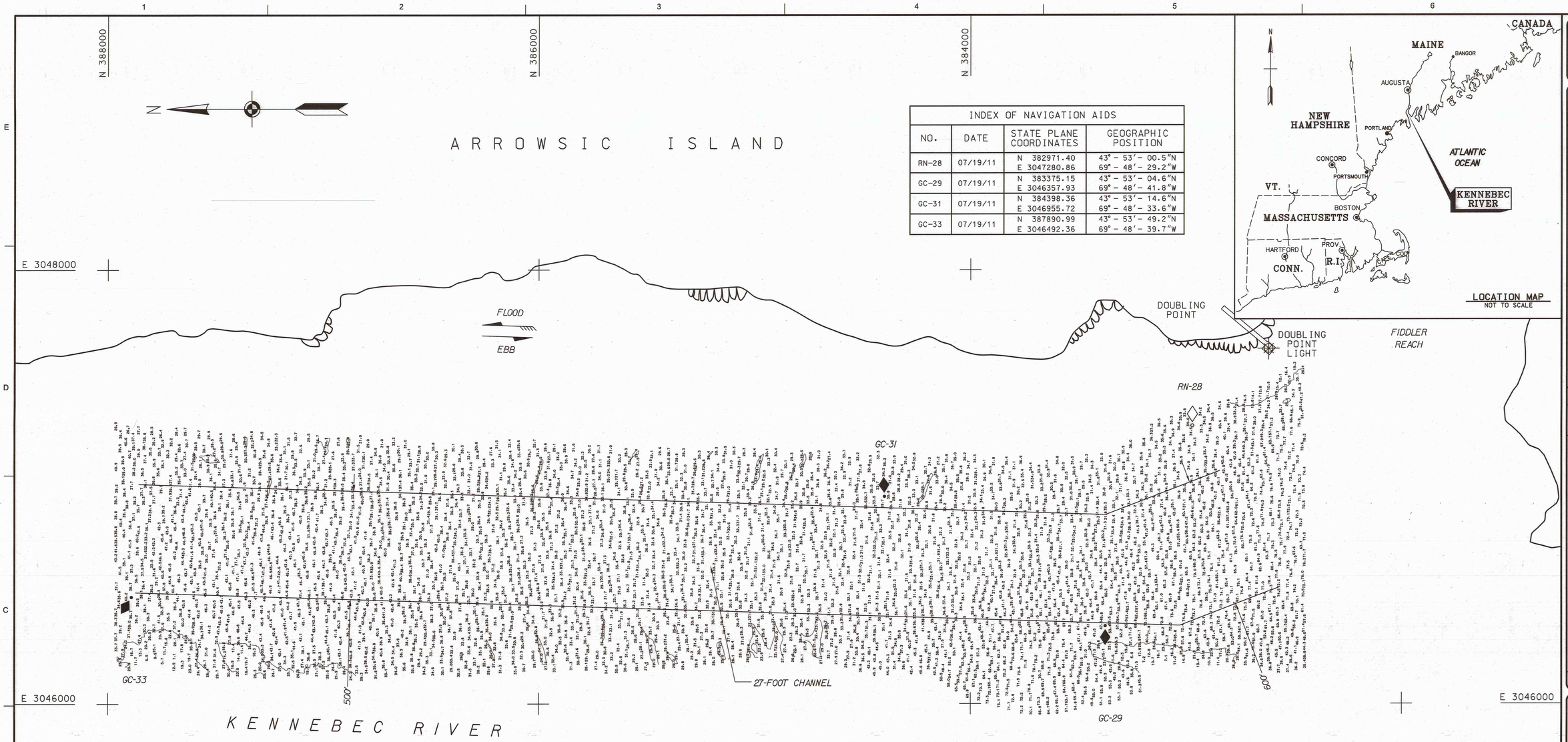
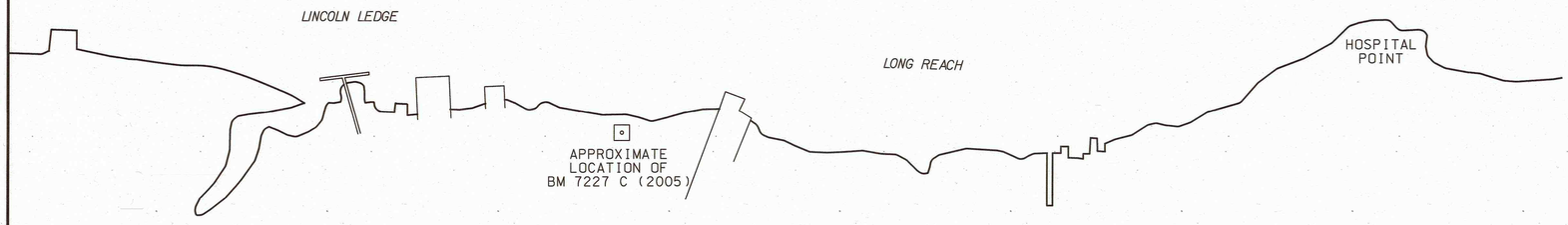


INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-28	07/19/11	N 382971.40 E 3047280.86	43° - 53′ - 00.5″N 69° - 48′ - 29.2″W
GC-29	07/19/11	N 383375.15 E 3046357.93	43° - 53′ - 04.6″N 69° - 48′ - 41.8″W
GC-31	07/19/11	N 384398.36 E 3046955.72	43° - 53′ - 14.6″N 69° - 48′ - 33.6″W
GC-33	07/19/11	N 387890.99 E 3046492.36	43° - 53′ - 49.2″N 69° - 48′ - 39.7″W

LOCATION MAP
NOT TO SCALE



PLAN
SCALE: 1" = 200'

BATH

GENERAL NOTES:

1. Soundings are in feet and tenths and refer to the plane of Mean Lower Low Water (MLLW) 1983-2001 Tidal Epoch.
2. Topography shown is from previous surveys and/or NOAA Chart No. 13296. 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: BM 7227 C (2005) is a standard NOS disk stamped "7227 C 2005", set in a rock outcrop just west of the Deering Pier, 175.5 feet west-southwest of the northwest corner of Deering Pier, 86.6 feet west of the west edge of the Deering Pier Monument and 21.7 feet south of the centerline of the dirt road leading to the pier.
Elevation is 17.53 feet above MLLW.
4. Coordinates shown are based on the Transverse Mercator Grid System for the State of Maine (West Zone 1802) and NAD 1983.
5. Survey was performed using a Reson 7125 multibeam echosounder system with a 200 kHz transducer. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS Receiver. An RTK base station was set up on Sta. Snow (2009) using a NAVD88 to MLLW correction of 3.55 feet.
6. The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during August 2011.
7. The sounding information depicted on this map should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
8. The information depicted on this map represents the results of surveys made on the dates indicated, and can only be considered as indicating the general conditions existing at that time.
9. Field Books: R&H 4540 & 4541
27-foot contour shown thus: ———
Survey performed by Jeff Preston and crew
Refer to Survey No. 11-1159

SAFETY PAYS

GRAPHIC SCALE:
1" = 200'
200 0 200 400

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

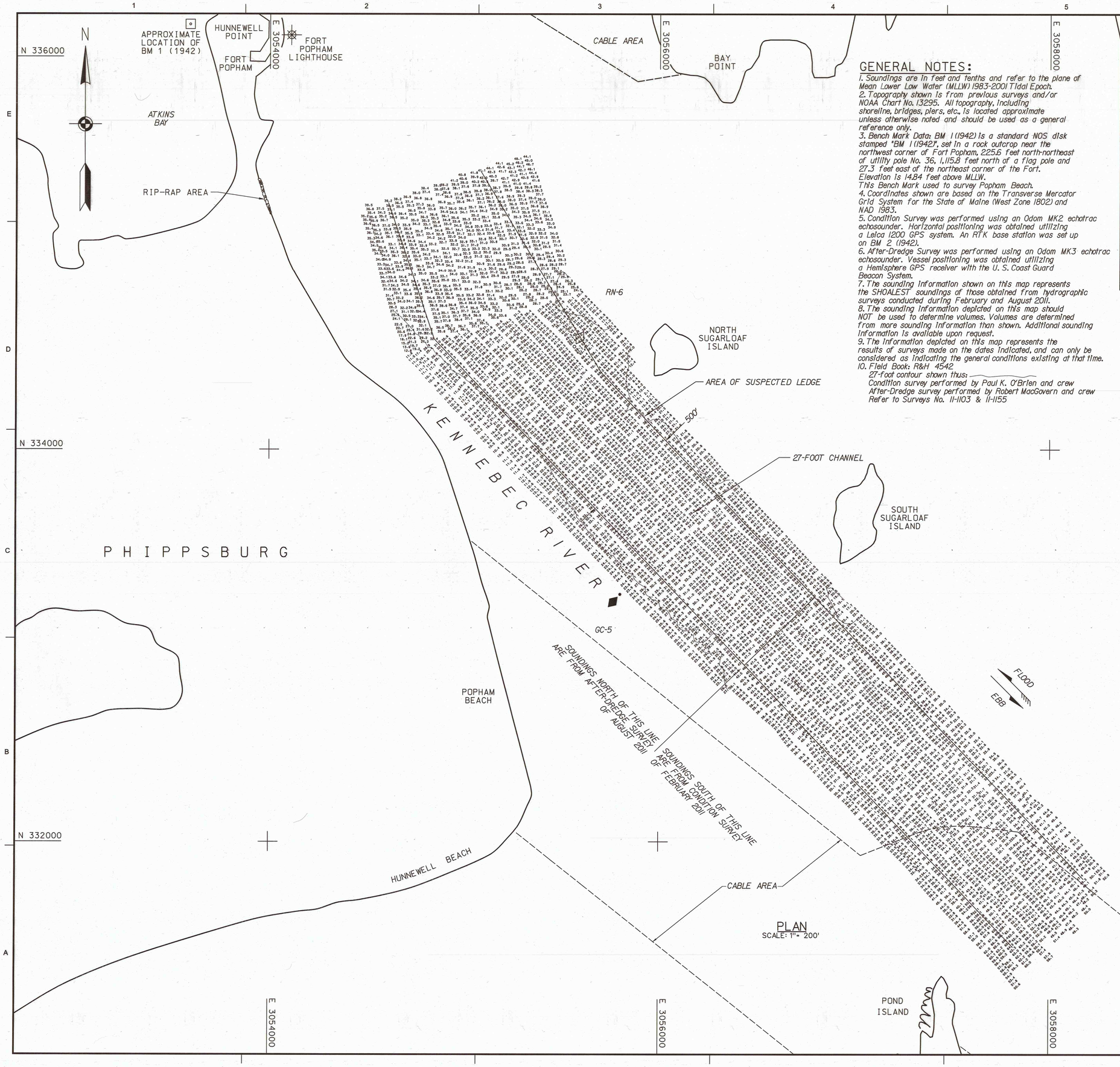
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Mark Sidney, Project Manager
SUBMITTED BY: Alan Dennison, Chief, Survey Section
DATE: 9/14/11
DWN BY: VAS
CKD BY: MTM
DESIGN FILE: KENNEBEC-27-DBL
PLOT DATE: 9/14/2011
PLOT SCALE: 1" = 200'
SIZE: ANSI F
FORMING CODE: 2892
FILE NAME: H2EN10.DGN

KENNEBEC RIVER
BATH, MAINE
CONDITION SURVEY
27-FOOT DOUBLING POINT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

SCANNED RECORD SEPT. 2011

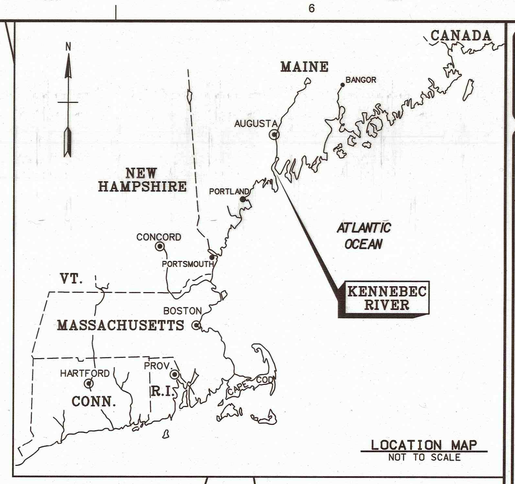


GENERAL NOTES:

1. Soundings are in feet and tenths and refer to the plane of Mean Lower Low Water (MLLW) 1983-2001 Tidal Epoch.
2. Topography shown is from previous surveys and/or NOAA Chart No. 13295. 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: BM 1 (1942) is a standard NOS disk stamped "BM 1 (1942)", set in a rock outcrop near the northwest corner of Fort Popham, 225.6 feet north-northeast of utility pole No. 36, 1,115.8 feet north of a flag pole and 27.3 feet east of the northeast corner of the Fort. Elevation is 14.84 feet above MLLW. This Bench Mark used to survey Popham Beach.
4. Coordinates shown are based on the Transverse Mercator Grid System for the State of Maine (West Zone 1802) and NAD 1983.
5. Condition Survey was performed using an Odom MK2 echotrac echosounder. Horizontal positioning was obtained utilizing a Leica 1200 GPS system. An RTK base station was set up on BM 2 (1942).
6. After-Dredge Survey was performed using an Odom MK3 echotrac echosounder. Vessel positioning was obtained utilizing a Hemisphere GPS receiver with the U. S. Coast Guard Beacon System.
7. The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during February and August 2011.
8. The sounding information depicted on this map should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
9. The information depicted on this map represents the results of surveys made on the dates indicated, and can only be considered as indicating the general conditions existing at that time.
10. Field Book: R&H 4542

27-foot contour shown thus: ———

Condition survey performed by Paul K. O'Brien and crew
After-Dredge survey performed by Robert MacGovern and crew
Refer to Surveys No. 11-1103 & 11-1155



LOCATION MAP
NOT TO SCALE

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-5	7/25/11	N 333261.16 E 3055801.24	43° - 44′ - 49.2″N 69° - 46′ - 36.1″W
RN-6	7/25/11	N 334522.95 E 3055565.23	43° - 45′ - 01.7″N 69° - 46′ - 39.2″W

PLAN
SCALE: 1" = 200'

GRAPHIC SCALE:
1" = 200'
200 0 200 400

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

DATE: 8/23/11
DWN BY: V.G. Vito
CKD BY: MTM
DESIGN FILE: 0000-00-00
DRAWING CODE: 2691
REVIEWED BY: Paul K. O'Brien, Chief, Survey Section
SUBMITTED BY: Robert A. MacGovern, Chief, Survey Section
PLOT SCALE: 1" = 200'
PLOT DATE: 8/22/2011
SIZE: ANSI F
FILE NAME: H0001V101.DGN

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
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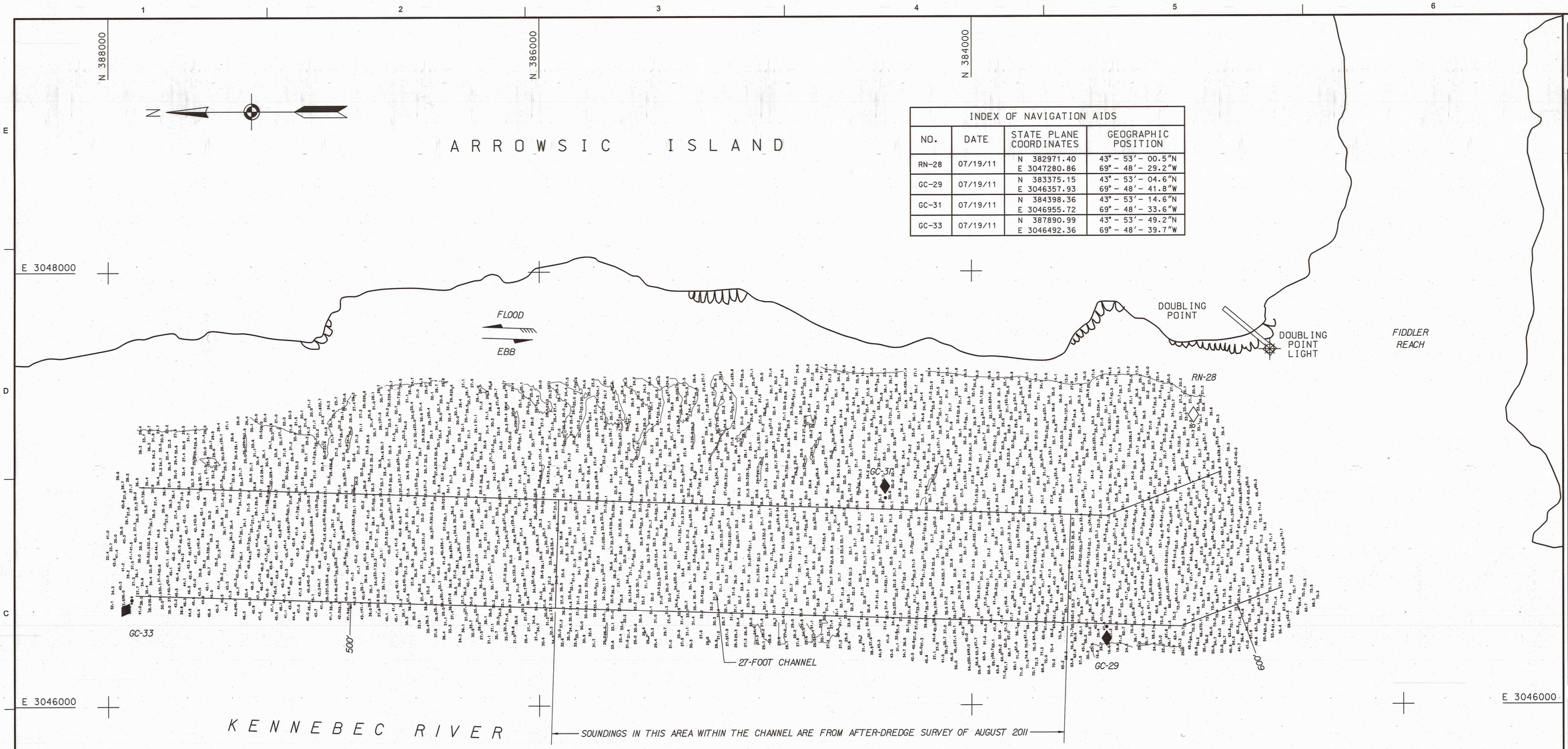
KENNEBEC RIVER
PHIPPSBURG AND BATH, MAINE
AFTER-DREDGE / CONDITION SURVEY
27-FOOT POPHAM BEACH CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 2

SAFETY PAYS

SCANNED RECORD AUG. 2011



INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-28	07/19/11	N 382971.40 E 3047280.86	43° - 53′ - 00.5″N 69° - 48′ - 29.2″W
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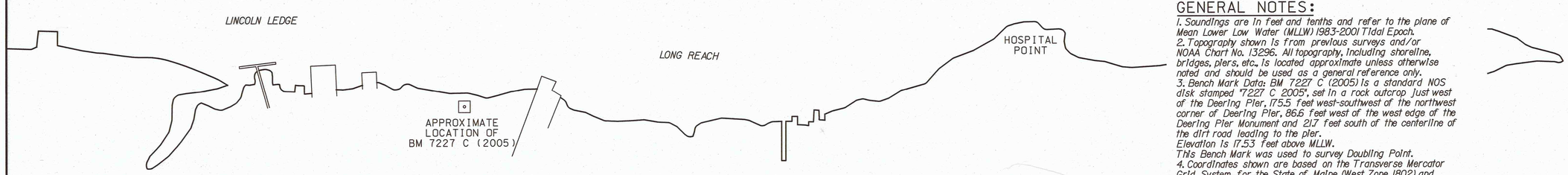

PLAN
SCALE: 1" = 200'

BATH

GENERAL NOTES:

1. Soundings are in feet and tenths and refer to the plane of Mean Lower Low Water (MLLW) 1983-2001 Tidal Epoch.
2. Topography shown is from previous surveys and/or NOAA Chart No. 13296. 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: BM 7227 C (2005) is a standard NOS disk stamped "7227 C 2005", set in a rock outcrop just west of the Deering Pier, 175.5 feet west-southwest of the northwest corner of Deering Pier, 86.6 feet west of the west edge of the Deering Pier Monument and 21.7 feet south of the centerline of the dirt road leading to the pier.
Elevation is 17.53 feet above MLLW.
This Bench Mark was used to survey Doubling Point.
4. Coordinates shown are based on the Transverse Mercator Grid System for the State of Maine (West Zone 1802) and NAD 1983.
5. Condition Survey was performed using a Reson 7125 multibeam echosounder system with a 200 kHz transducer. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS Receiver. An RTK base station was set up on Sta. Snow (2009) using a NAVD88 to MLLW correction of 3.55 feet.
6. After-Dredge Survey was performed using a Reson 9001 multibeam echosounder system with a 400 kHz transducer. Vessel positioning was obtained utilizing a Hemisphere GPS with the U. S. Coast Guard Beacon System.
7. The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during July and August 2011.
8. The sounding information depicted on this map should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
9. The information depicted on this map represents the results of surveys made on the dates indicated, and can only be considered as indicating the general conditions existing at that time.
10. Field Books: R&H 4540 & 4541
27-Foot contour shown thus:
Condition Survey performed by Jeff Preston and crew
After-Dredge Survey performed by Robert MacGovern and crew
Refer to Surveys No. 11-1151 & 11-1156

SAFETY PAYS

GRAPHIC SCALE:
1" = 200'
200 0 200 400

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Mark Wilson
SUBMITTED BY: Chief, Survey Section
DATE: 9/22/2011
SCALE: 1" = 200'
SIZE: ANSI F
DATE:
DWN BY: VAS
CKD BY: MTM
DESIGN FILE: KENHSP2.DGN
DRAWING CODE: 2691
FILE NAME: KEN102.502

KENNEBEC RIVER
PHIPPSBURG AND BATH, MAINE
AFTER-DREDGE / CONDITION SURVEY

27-FOOT DOUBLING POINT CHANNEL

SHEET IDENTIFICATION
V-102
SHEET 2 OF 2

SCANNED RECORD AUG. 2011