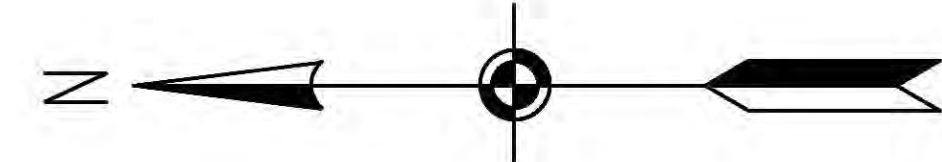




ARROWSIC ISLAND

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-28	5/19/11	N 383001.87 E 3047274.01	43° - 53' - 00.8"N 69° - 48' - 29.3"W
GC-29	5/19/11	N 383343.74 E 3046359.46	43° - 53' - 04.3"N 69° - 48' - 41.8"W
GC-31	5/19/11	N 384343.63 E 3046905.43	43° - 53' - 14.1"N 69° - 48' - 34.3"W
GC-33	5/19/11	N 387860.92 E 3046481.29	43° - 53' - 48.9"N 69° - 48' - 39.9"W



FIDDLER REACH

DOUBLING POINT

DOUBLING POINT LIGHT

DREDGING AREA LIMIT

N 385,910.08  
E 3,046,951.53

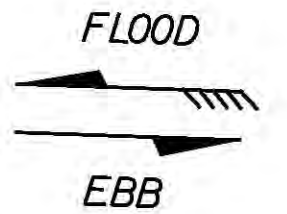
N 383,541.27  
E 3,046,876.53

N 385,925.91  
E 3,046,451.78  
27-FOOT CHANNEL  
(MAINTAINED TO 30-FEET  
UNDER OPTION ITEM NO. 0002)

N 383,557.09  
E 3,046,376.78

UPSTREAM LIMIT OF DREDGING

DOWNSTREAM LIMIT OF DREDGING



KENNEBEC RIVER

LINCOLN LEDGE

LONG REACH

HOSPITAL POINT

APPROXIMATE LOCATION OF  
BM 7227 C (2005)

KENNEBEC RIVER  
BATH, MAINE  
VICINITY OF DOUBLING POINT  
27-FOOT CHANNEL  
STATE PLANE NAD 1983 WEST ZONE

#	EASTING	NORTHING
1	3046537.93	382564.64
2	3046360.09	383029.97
3	3046513.40	387871.97
4	3047013.15	387856.15
5	3046871.21	383373.27
6	3047073.40	382844.29

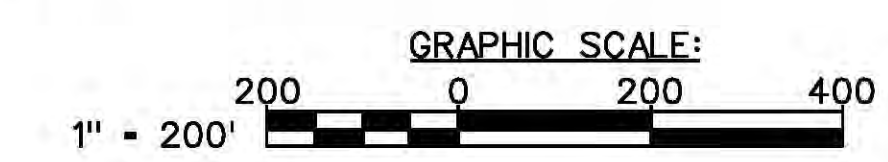
PLAN - DOUBLING POINT - OPTION ITEM NO. 0002

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 7/27 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. Survey was performed using a Reson BI24 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 SHORLEST soundings of those obtained from hydrographic surveys conducted during May 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 Book: R&H 4540
- 30-foot contour shown thus:  
Survey performed by Jeffrey W. Preston and crew  
Refer to Survey No. 11-1114



US Army Corps of Engineers  
New England District

DATE	DESCRIPTION
6/22/2011	ATM
	UPPR
	MARK

AMENDMENT #1 EXISTING CONDITION SURVEY UPDATED

DATE	DESCRIPTION

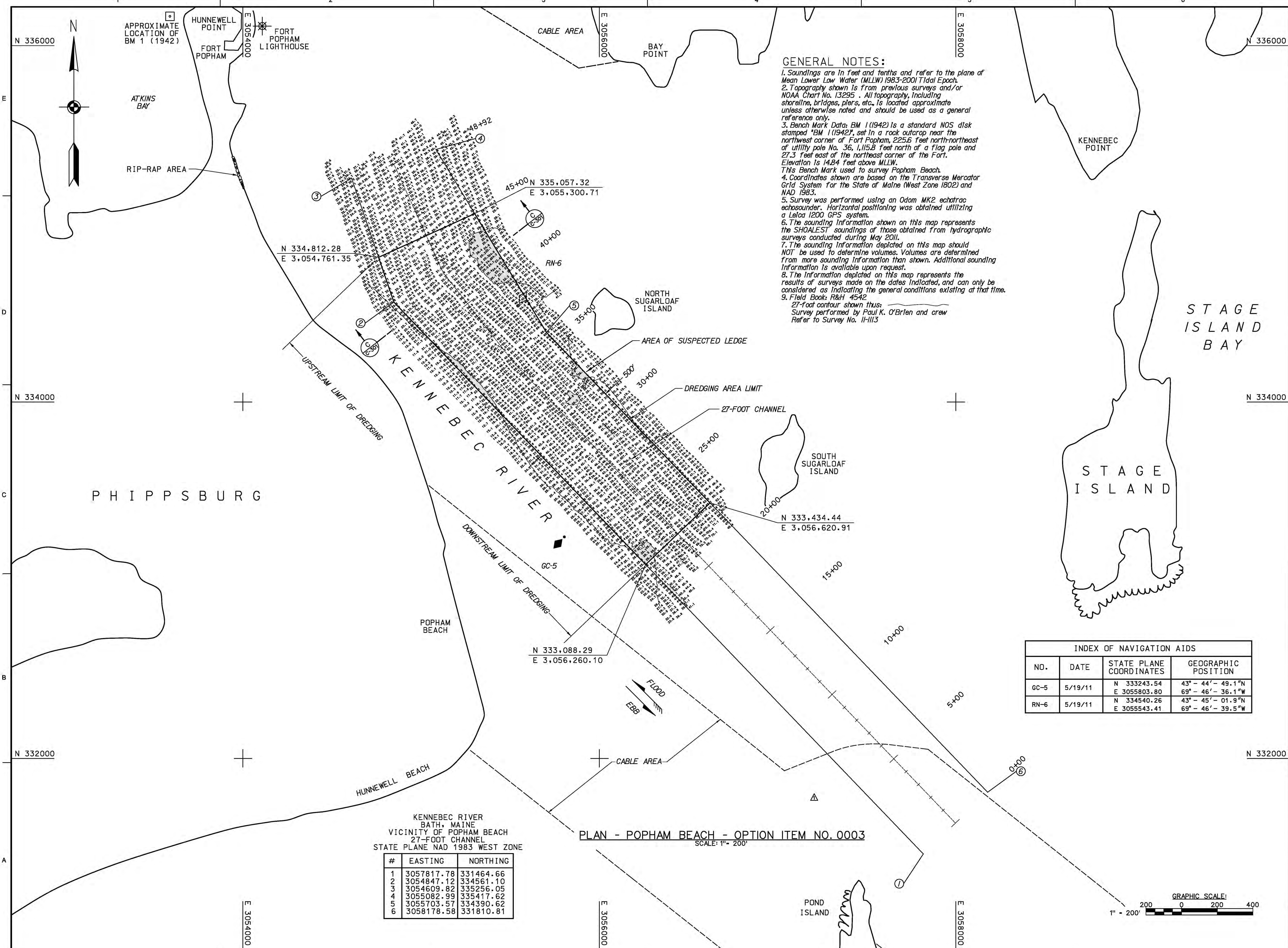
U.S. ARMY CORPS OF ENGINEERS  
NEW ENGLAND DISTRICT  
CONCORD, MASSACHUSETTS

DESIGNED BY: Robert M. Moore  
DRAWN BY: VAS  
CHECKED BY: Benjamin A. Chubb, Jr.  
PLOT SCALE: 1" = 200'  
PLOT DATE: 02/20/11  
BASE: FIDUCIARY

MAINTENANCE DREDGING  
27-FOOT DOUBLING POINT CHANNEL  
27-FOOT FIDUCIARY BEACH CHANNEL  
BATH AND PHIPPSBURG, MAINE

PLAN - DOUBLING POINT  
OPTION ITEM NO. 0002

SHEET IDENTIFICATION  
C-102  
SHEET 4 OF 8



**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 shorelines, 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. Survey was performed using an Odom MK2 echotrac echosounder. Horizontal positioning was obtained utilizing a Leica 1200 GPS system.
6. The sounding information shown on this map represents the SHORLEST soundings of those obtained from hydrographic surveys conducted during May 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 Book: R&H 4542

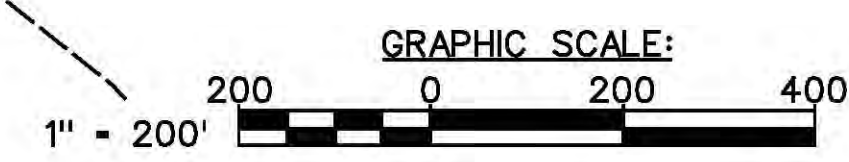
27-foot contour shown thus:  
 Survey performed by Paul K. O'Brien and crew  
 Refer to Survey No. 11-113

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-5	5/19/11	N 333243.54 E 3055803.80	43° - 44' - 49.1"N 69° - 46' - 36.1"W
RN-6	5/19/11	N 334540.26 E 3055543.41	43° - 45' - 01.9"N 69° - 46' - 39.5"W

KENNEBEC RIVER  
 BATH, MAINE  
 VICINITY OF POPHAM BEACH  
 27-FOOT CHANNEL  
 STATE PLANE NAD 1983 WEST ZONE

#	EASTING	NORTHING
1	3057817.78	331464.66
2	3054847.12	334561.10
3	3054609.82	335256.05
4	3055082.99	335417.62
5	3055703.57	334390.62
6	3058178.58	331810.81

PLAN - POPHAM BEACH - OPTION ITEM NO. 0003  
 SCALE: 1" = 200'



US Army Corps of Engineers  
 New England District

DATE	DESCRIPTION
6/02/2011	AMENDMENT #1 EXISTING CONDITION SURVEY UPDATED

DATE	DESCRIPTION
5/19/11	HYDROGRAPHIC SURVEY

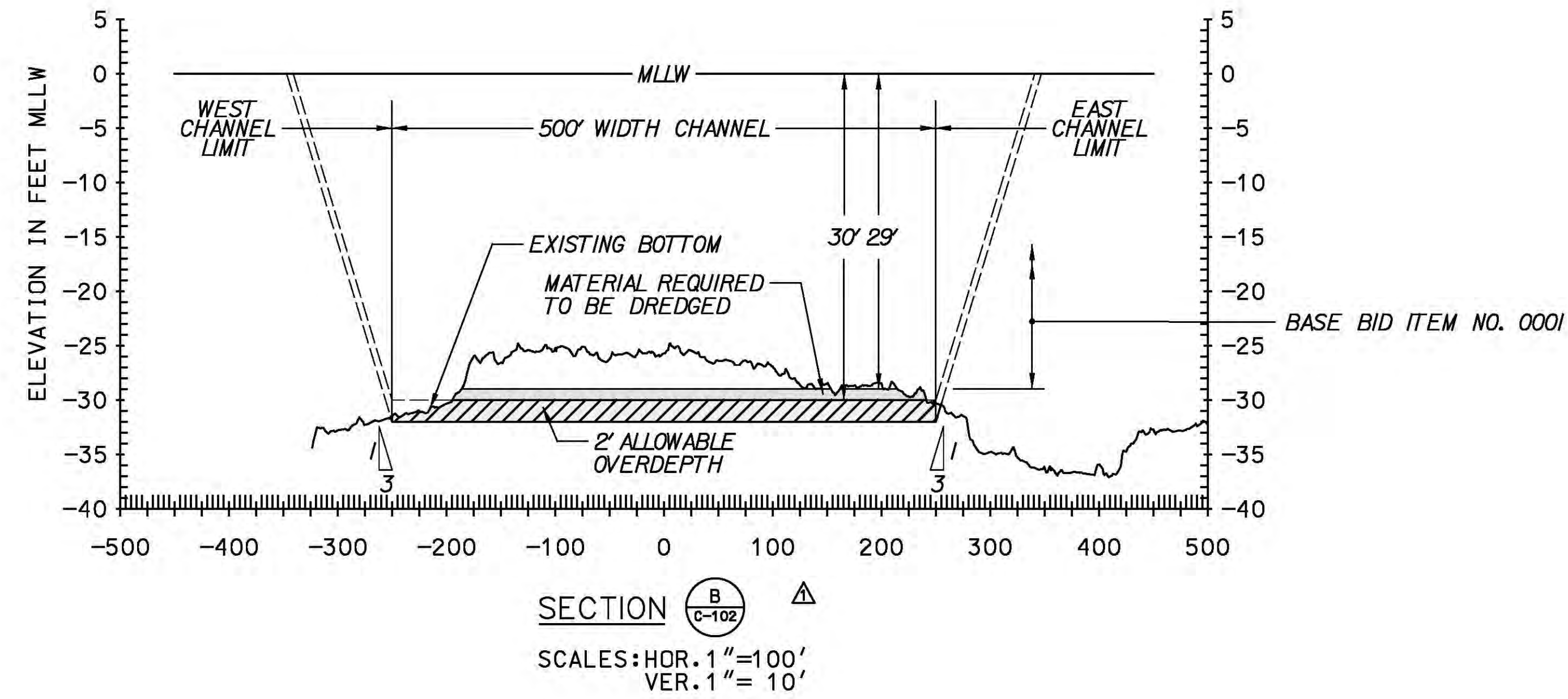
U.S. ARMY CORPS OF ENGINEERS  
 NEW ENGLAND DISTRICT  
 CONCORD, MASSACHUSETTS

MAINTENANCE DREDGING  
 27-FOOT DOUBLING POINT CHANNEL  
 27-FOOT POPHAM BEACH CHANNEL  
 BATH AND PHIPPSBURG, MAINE

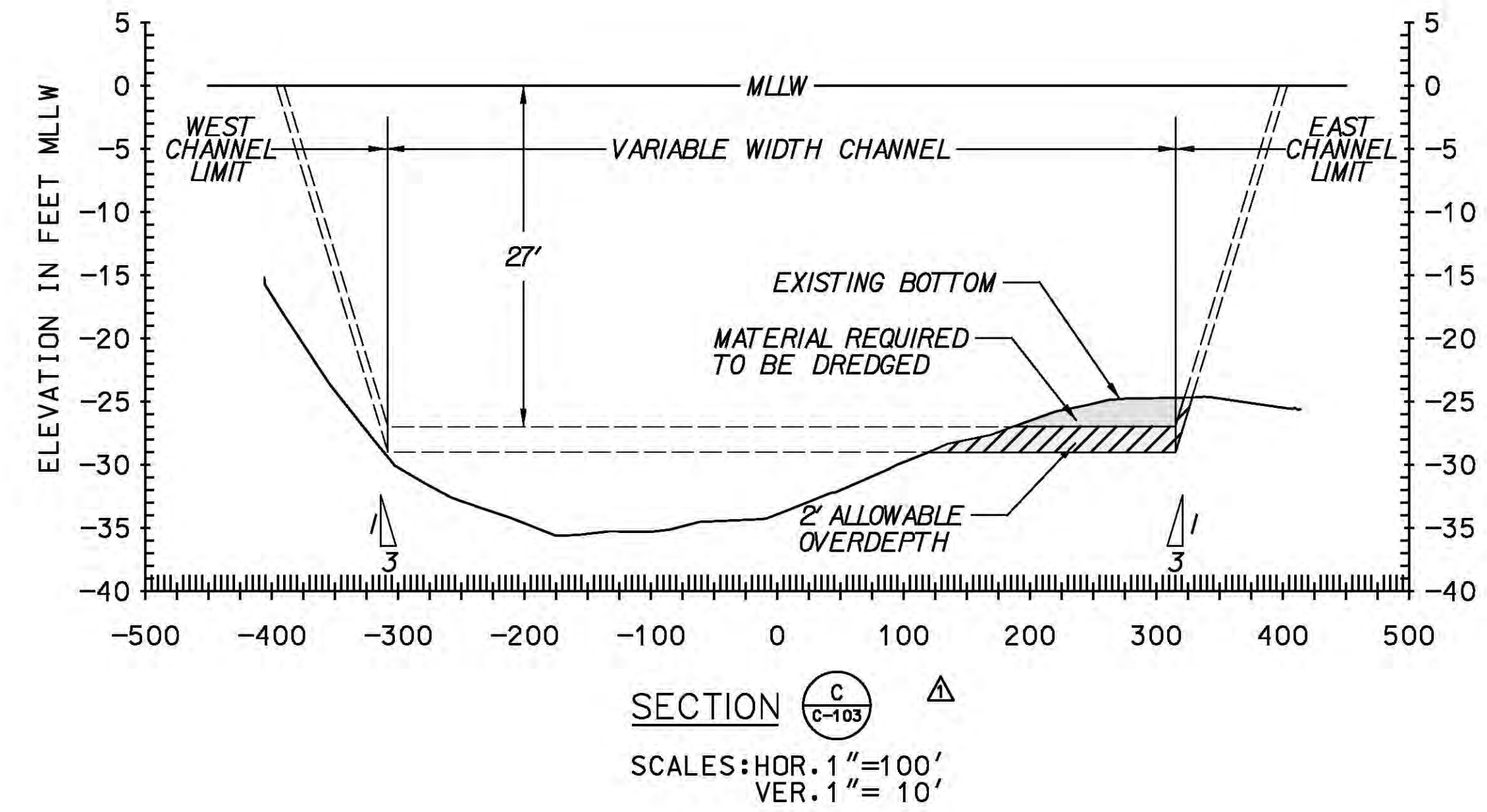
PLAN - POPHAM BEACH  
 OPTION ITEM NO. 0003

SHEET IDENTIFICATION  
**C-103**  
 SHEET 5 OF 6

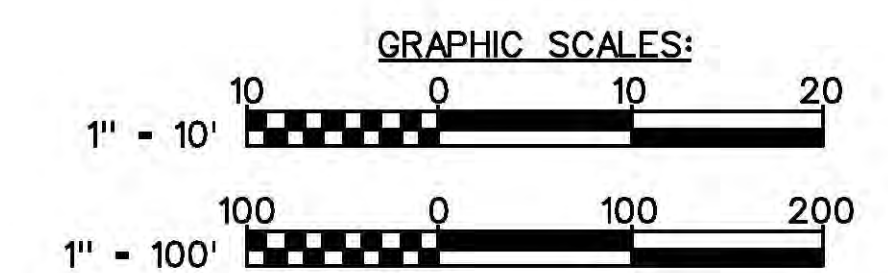
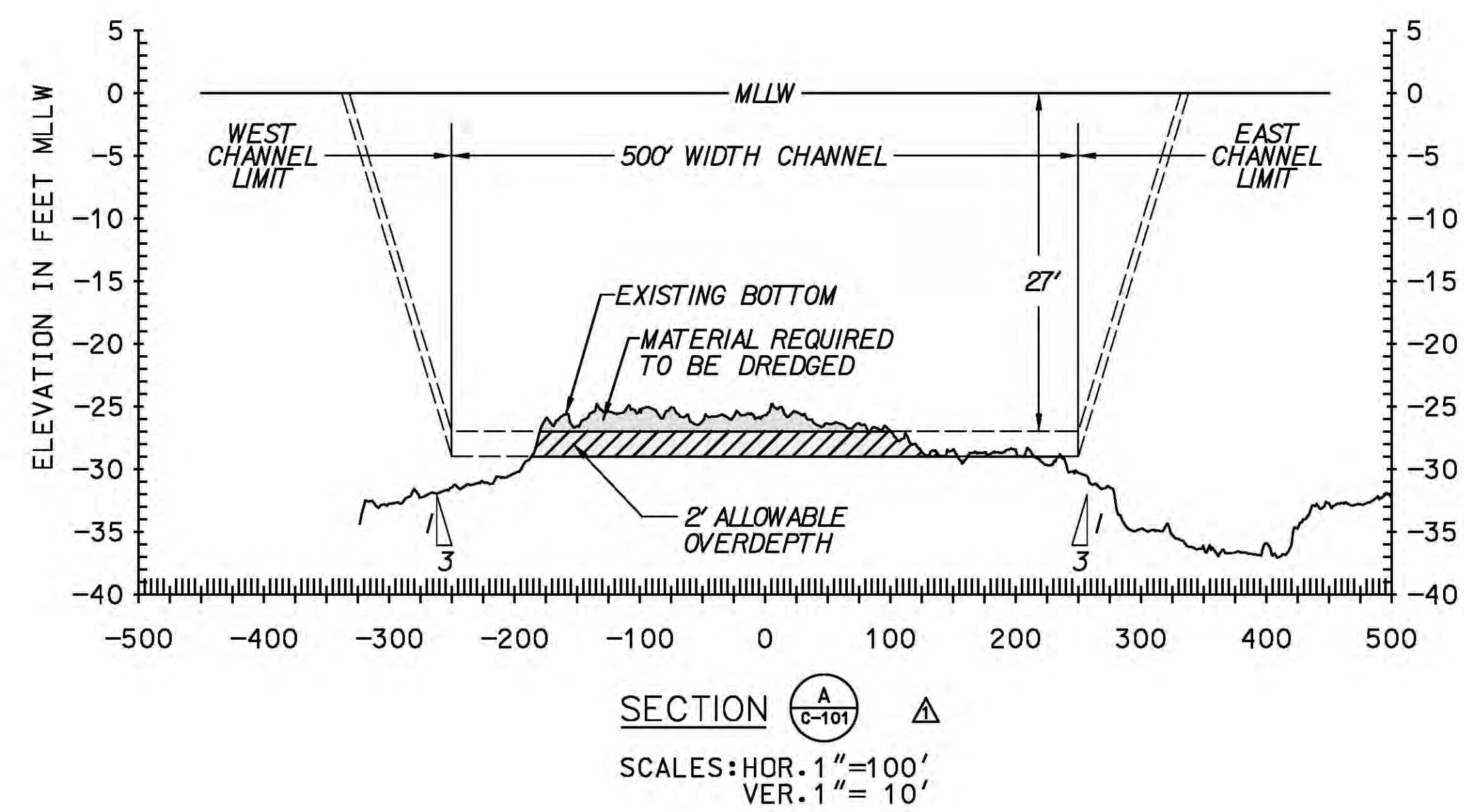
OPTION ITEM NO. 0002



OPTION ITEM NO. 0003



BASE BID ITEM NO. 0001



U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT CONCORD, MASSACHUSETTS	DATE: 6/20/2011	AMENDMENT #1 EXISTING CONDITION SURVEY/UPDATED
DESIGNED BY: Robert M. Wood	CONTRACT NO.: W19MC11A-0002	DATE: 6/20/2011
DRAWN BY: JRM	DRAWING CODE: 2483	DATE: 6/20/2011
CHECKED BY: JRM	SCALE: 1" = 100'	DATE: 6/20/2011
PROJECT NO.: 11-0002	DATE: 6/20/2011	DATE: 6/20/2011
PROJECT NAME: MAINTENANCE DREDGING 27-FOOT DOUBLING POINT CHANNEL 27-FOOT FOURHAM BEACH CHANNEL FOR BATH AND PHIPPSBURG, MAINE	SECTION: BATH AND PHIPPSBURG, MAINE	SECTION: BATH AND PHIPPSBURG, MAINE
SHEET IDENTIFICATION <b>C-301</b> SHEET 6 OF 6		