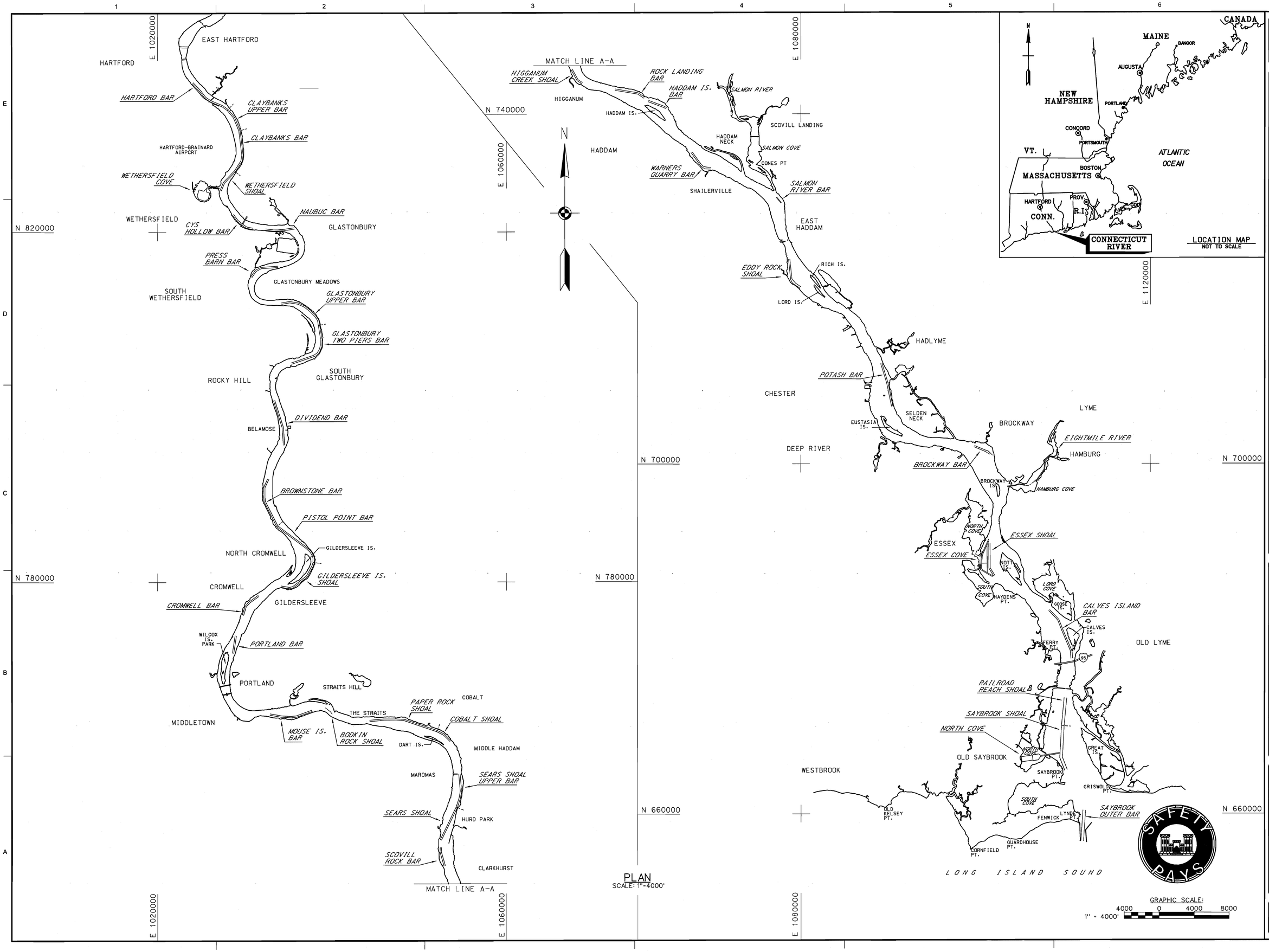


PLAN
SCALE: 1"=4000'

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

DATE: 3/30/2011
DWN BY: T. MAY
CKD BY: DAJ
DESIGN FILE: CRBISP3.DGN
DRAWING CODE: CRB-999
PLOT DATE: 03/30/2011
FILE NAME: CRBSBWV101.S01
SIZE: ANSI F

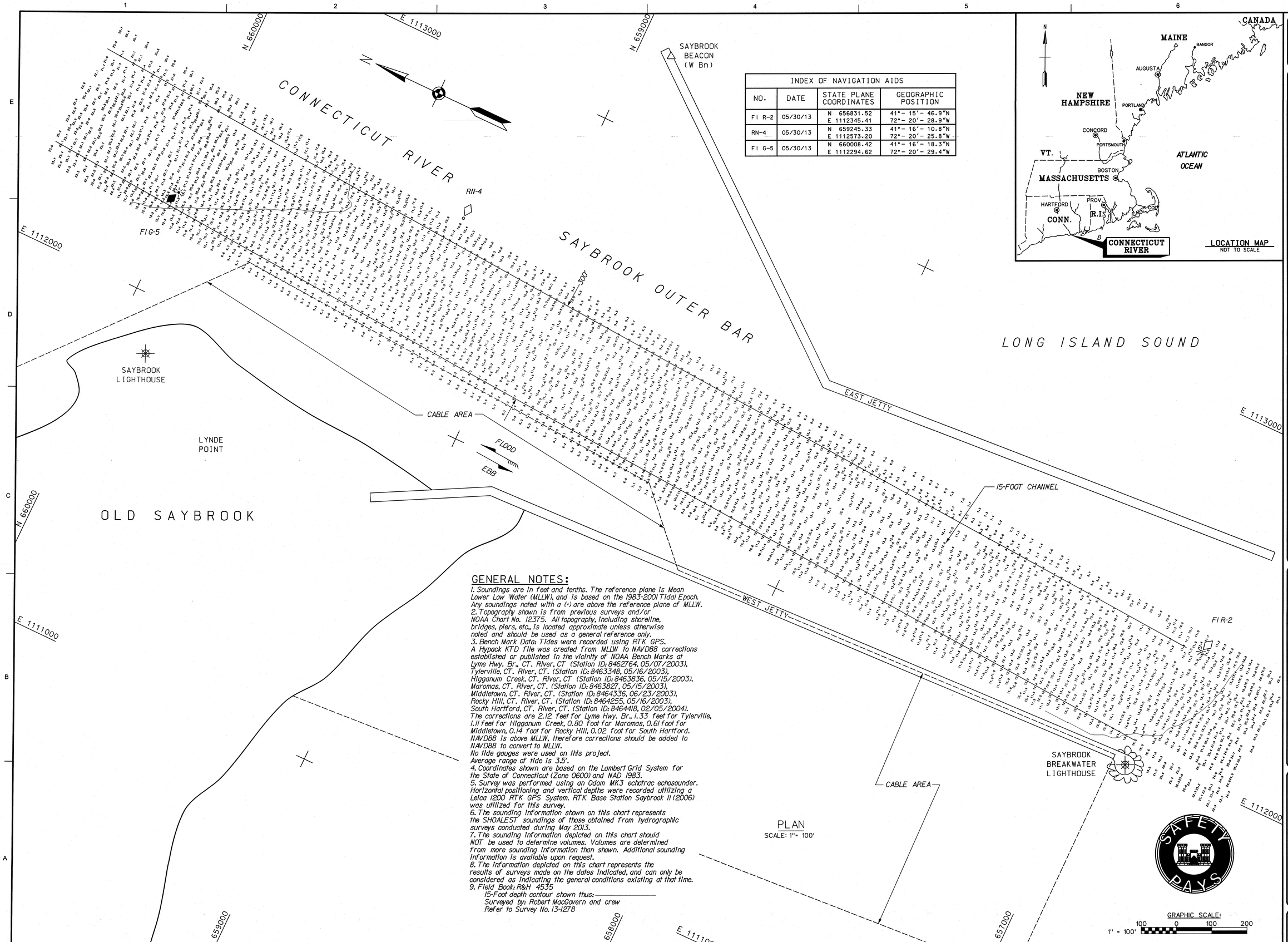
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section

U.S. ARMY CORPS OF ENGINEERS
696 VIRGINIA ROAD, STREET
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

GENERAL PURPOSE MAP

SHEET IDENTIFICATION
V-101
SHEET 1 OF 1



INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
FI R-2	05/30/13	N 656831.52 E 1112345.41	41°- 15′- 46.9″N 72°- 20′- 28.9″W
RN-4	05/30/13	N 659245.33 E 1112573.20	41°- 16′- 10.8″N 72°- 20′- 25.8″W
FI G-5	05/30/13	N 660008.42 E 1112294.62	41°- 16′- 18.3″N 72°- 20′- 29.4″W

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. Any soundings noted with a (+) are above the reference plane of MLLW.
2. Topography shown is from previous surveys and/or NOAA Chart No. 12375. 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. A Hypack KTD file was created from MLLW to NAVD88 corrections established or published in the vicinity of NOAA Bench Marks at Lyme Hwy. Br., CT. River, CT (Station ID: 8462764, 05/07/2003), Tylerville, CT. River, CT (Station ID: 8463348, 05/16/2003), Higganum Creek, CT. River, CT (Station ID: 8463836, 05/15/2003), Maromas, CT. River, CT. (Station ID: 8463827, 05/15/2003), Middletown, CT. River, CT. (Station ID: 8464336, 06/23/2003), Rocky Hill, CT. River, CT. (Station ID: 8464255, 05/16/2003), South Hartford, CT. River, CT. (Station ID: 8464418, 02/05/2004). The corrections are 2.12 feet for Lyme Hwy. Br., 1.33 feet for Tylerville, 1.11 feet for Higganum Creek, 0.80 foot for Maromas, 0.61 foot for Middletown, 0.14 foot for Rocky Hill, 0.02 foot for South Hartford. NAVD88 is above MLLW, therefore corrections should be added to NAVD88 to convert to MLLW.
   No tide gauges were used on this project.
   Average range of tide is 3.5′.
4. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
5. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were recorded utilizing a Leica 1200 RTK GPS System. RTK Base Station Saybrook II (2006) was utilized for this survey.
6. The sounding information shown on this chart represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during May 2013.
7. The sounding information depicted on this chart 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 chart 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 4535
   15-Foot depth contour shown thus: ————————
   Surveyed by: Robert MacGovern and crew
   Refer to Survey No. 13-1278

PLAN
SCALE: 1"= 100'

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: Richard Rocco
Asst. Chief, Survey Section
SUBMITTED BY: Richard Rocco
Chief, Survey Section

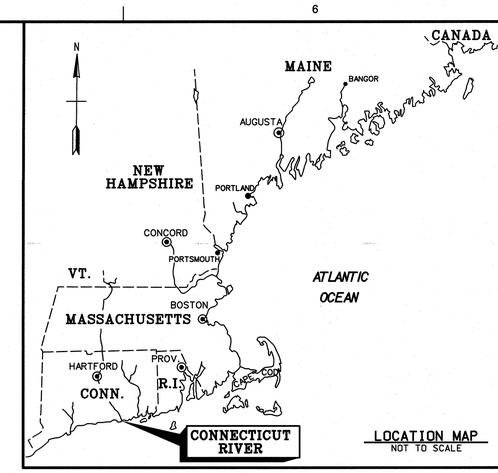
DATE: 4/25/2014
DWN BY: CKD BY:
DESIGN FILE: ESRIKJWP
PLOT SCALE: PLOT DATE: DRAWING CODE: DRBHSPN DON
SIZE: ANSI F FILE NAME: CBB1021V101.S01

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

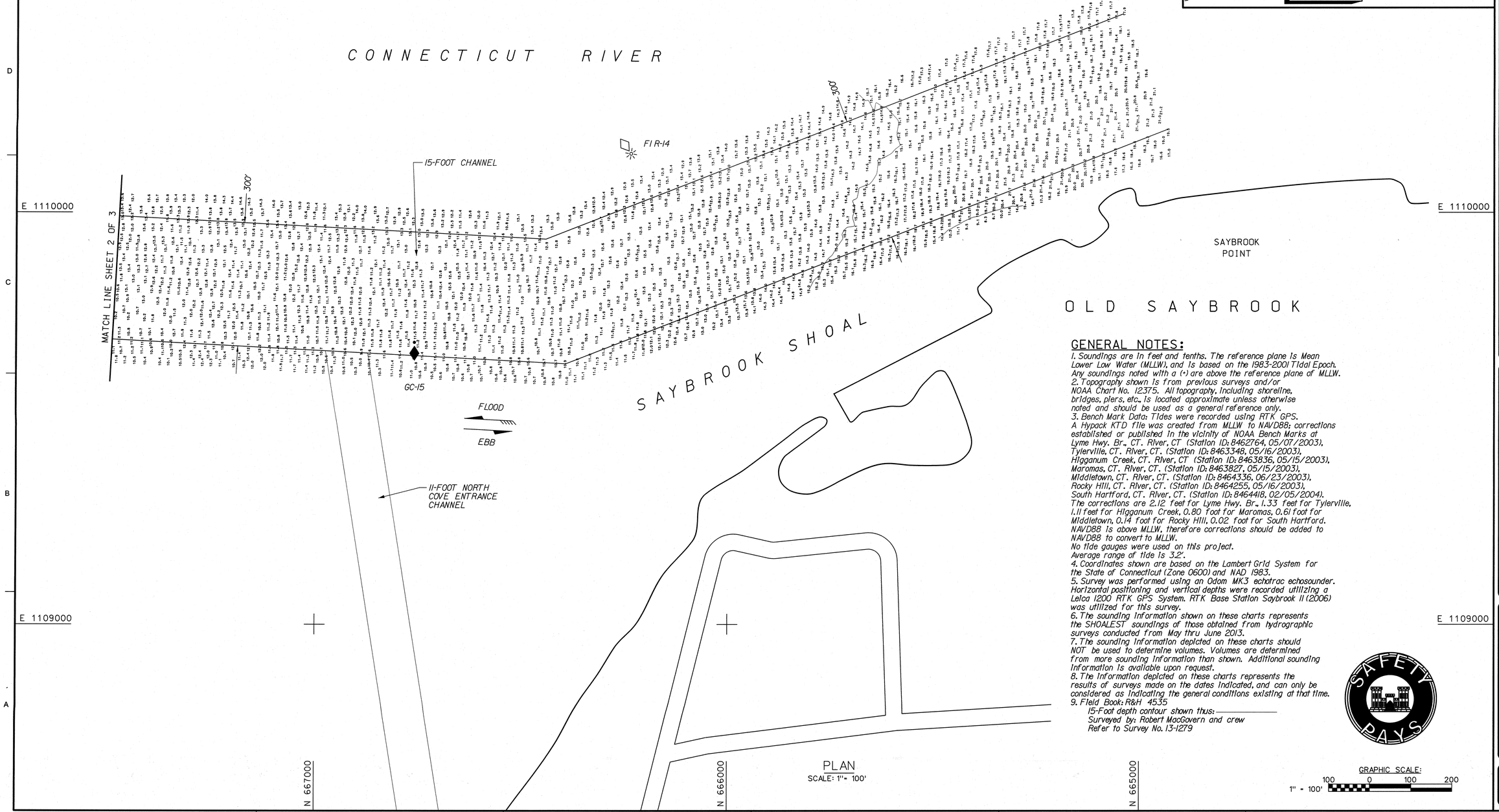
SAYBROOK OUTER SHOAL
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
Fl R-14	05/31/13	N 666233.64 E 1110142.64	41°- 17′- 19.9″N 72°- 20′- 57.2″W
GC-15	05/31/13	N 666758.45 E 1109684.19	41°- 17′- 25.1″N 72°- 21′- 03.2″W
GC-17	05/31/13	N 667689.68 E 1109757.38	41°- 17′- 34.3″N 72°- 21′- 02.2″W
Fl G-19	05/31/13	N 669490.57 E 1109783.42	41°- 17′- 52.1″N 72°- 21′- 01.7″W



LOCATION MAP
NOT TO SCALE



PLAN
SCALE: 1" = 100'

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. Any soundings noted with a (+) are above the reference plane of MLLW.
2. Topography shown is from previous surveys and/or NOAA Chart No. 12375. 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. A Hypack KTD file was created from MLLW to NAVD88; corrections established or published in the vicinity of NOAA Bench Marks at Lyme Hwy. Br., CT. River, CT (Station ID: 8462764, 05/07/2003), Tylerville, CT. River, CT. (Station ID: 8463348, 05/16/2003), Higganum Creek, CT. River, CT (Station ID: 8463836, 05/15/2003), Maromas, CT. River, CT. (Station ID: 8463827, 05/15/2003), Middletown, CT. River, CT. (Station ID: 8464336, 06/23/2003), Rocky Hill, CT. River, CT. (Station ID: 8464255, 05/16/2003), South Hartford, CT. River, CT. (Station ID: 8464418, 02/05/2004). The corrections are 2.12 feet for Lyme Hwy. Br., 1.33 feet for Tylerville, 1.11 feet for Higganum Creek, 0.80 foot for Maromas, 0.61 foot for Middletown, 0.14 foot for Rocky Hill, 0.02 foot for South Hartford. NAVD88 is above MLLW, therefore corrections should be added to NAVD88 to convert to MLLW.
   No tide gauges were used on this project.
   Average range of tide is 3.2′.
4. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
5. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were recorded utilizing a Leica 1200 RTK GPS System. RTK Base Station Saybrook II (2006) was utilized for this survey.
6. The sounding information shown on these charts represents the SHOALEST soundings of those obtained from hydrographic surveys conducted from May thru June 2013.
7. The sounding information depicted on these charts 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 these charts 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 4535
   15-Foot depth contour shown thus: ————
   Surveyed by: Robert MacGovern and crew
   Refer to Survey No. 13-1279

SAFETY PAYS

GRAPHIC SCALE:
100 0 100 200
1" = 100'

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

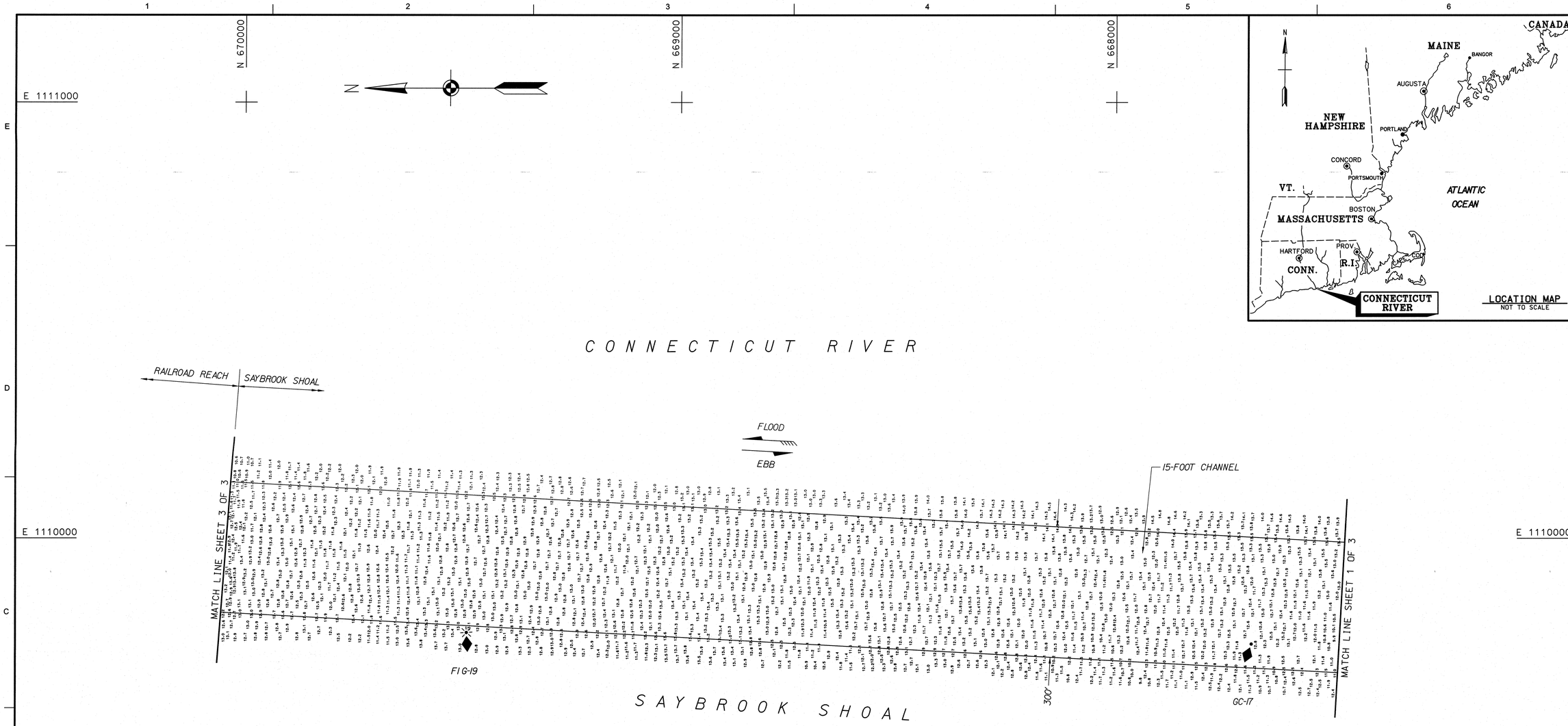
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Anthony Paolino, Chief, Survey Section
REVIEWED BY: T. Re, Chief, Survey Section
DATE: 4/15/2014
DWN BY: T. Re
CKD BY: LWW/JWP
DESIGN FILE: CRBHSP3.DGN
PLOT DATE: 4/15/2014
DRAWING CODE: CRB-1502
PLOT SCALE: 1:1
TITLE: CRB1502V101.501
SIZE: ANSI F
FILE NAME: CRB1502V101.501

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

SAYBROOK SHOAL
ADDITIONAL REACH
CONDITIONAL SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 3



PLAN
SCALE: 1" = 100'

NOTE:
For General Notes see sheet 1 of 3.

GRAPHIC SCALE:
1" = 100'
100 0 100 200

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

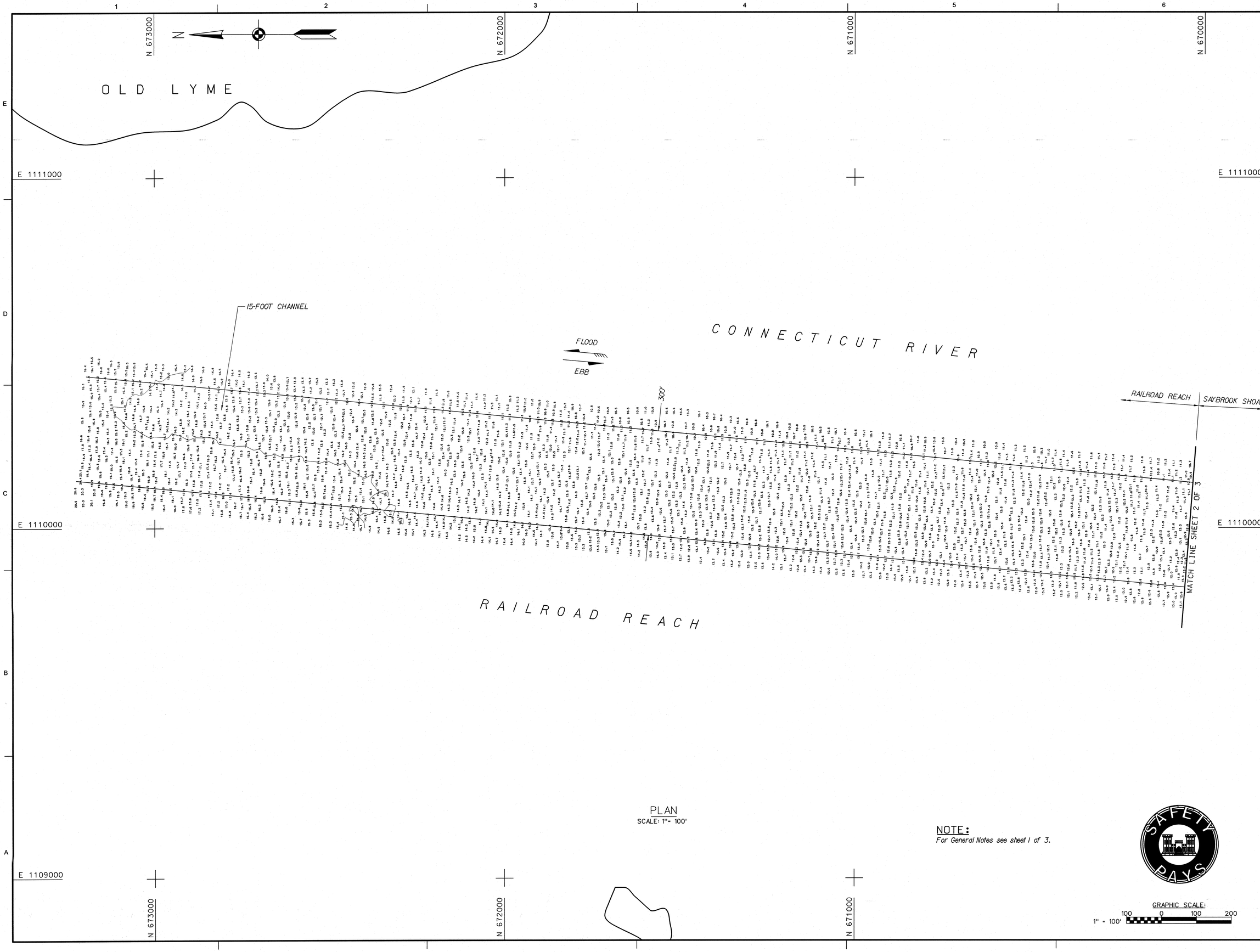
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Jeffrey Paden
Chief, Survey Section
SUBMITTED BY: [illegible]
Chief, Survey Section
DATE: 4/25/2014
DWN BY: CAD BY:
DESIGN FILE: DRBMSP3.DGN
DATE: 4/22/2014
DRAWING CODE: DRB-V102
FILE NAME: CRB1922V102.SO2
SCALE: 1" = 100'
SIZE: ANSI F

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

SAYBROOK SHOAL
AND RAILROAD REACH
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-102
SHEET 2 OF 3



PLAN
SCALE: 1"= 100'

NOTE:
For General Notes see sheet 1 of 3.

GRAPHIC SCALE:
1" = 100'
100 0 100 200

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

PREPARED BY: Jeffrey Porter, Coastal Survey Section
DATE: 4/25/2014
SUBMITTED BY: Chief, Survey Section
DWN BY: VJG
CKD BY: SWK/JWP
PLOT SCALE: 1" = 100'
PLOT DATE: 4/25/2014
VERSION FILE: CRBS1022.DGN
DRAWING CODE: CRBS-1022
SIZE: ANSI F
FILENAME: CRB1022V103.S03

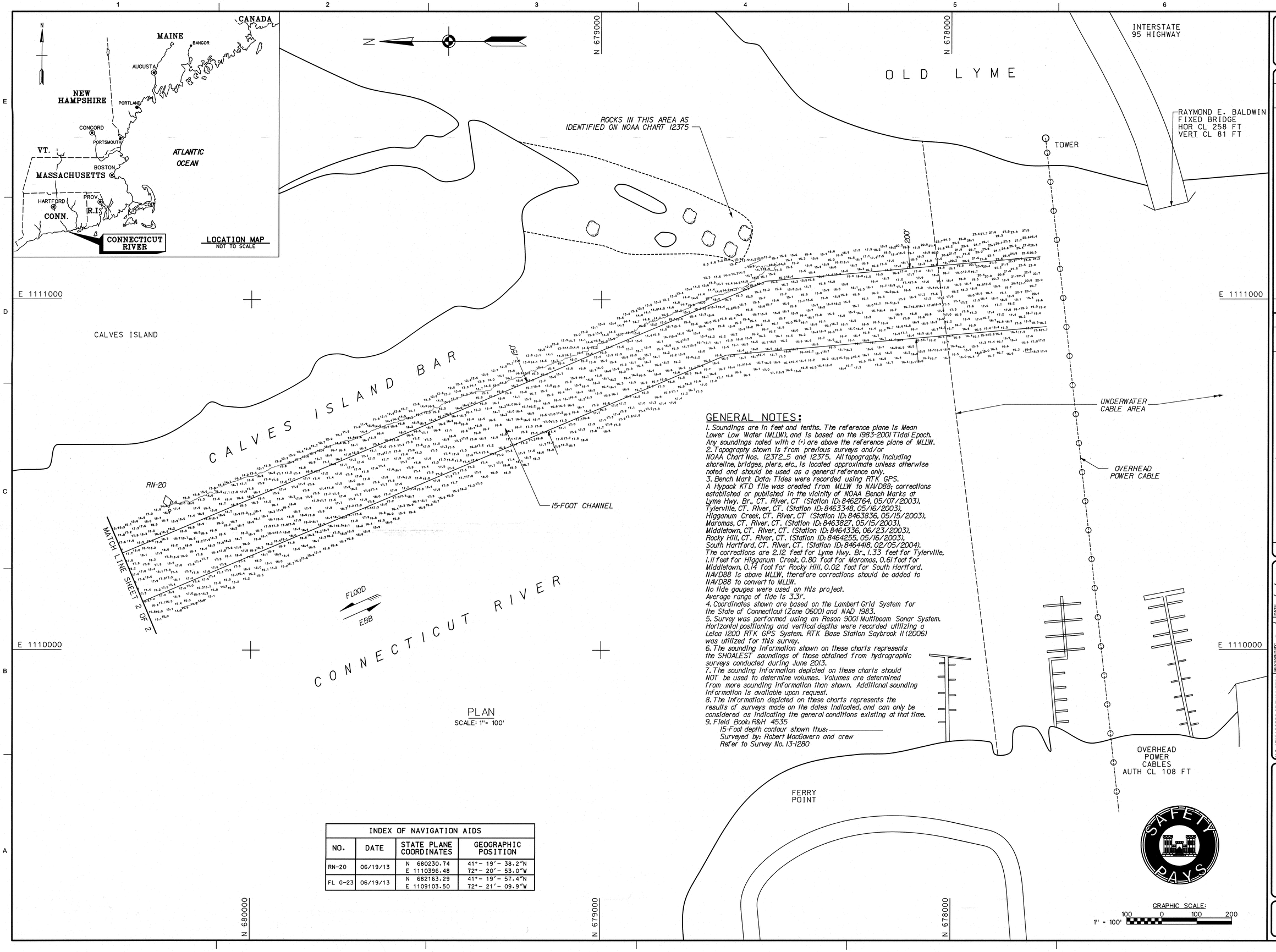
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONVERSE & RAILROAD STREETS
www.nae.usace.army.mil

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

SAYBROOK SHOAL
AND RAILROAD REACH
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-103
SHEET 3 OF 3

LOCATION MAP
NOT TO SCALE



PLAN
SCALE: 1"= 100'

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. Any soundings noted with a (+) are above the reference plane of MLLW.
2. Topography shown is from previous surveys and/or NOAA Chart Nos. 12372_5 and 12375. 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. A Hypack KTD file was created from MLLW to NAVD88; corrections established or published in the vicinity of NOAA Bench Marks at Lyme Hwy. Br., CT. River, CT (Station ID: 8462764, 05/07/2003), Tylerville, CT. River, CT. (Station ID: 8463348, 05/16/2003), Higganum Creek, CT. River, CT (Station ID: 8463836, 05/15/2003), Maromas, CT. River, CT. (Station ID: 8463827, 05/15/2003), Middletown, CT. River, CT. (Station ID: 8464336, 06/23/2003), Rocky Hill, CT. River, CT. (Station ID: 8464255, 05/16/2003), South Hartford, CT. River, CT. (Station ID: 8464418, 02/05/2004). The corrections are 2.12 feet for Lyme Hwy. Br., 1.33 feet for Tylerville, 1.11 feet for Higganum Creek, 0.80 foot for Maromas, 0.61 foot for Middletown, 0.14 foot for Rocky Hill, 0.02 foot for South Hartford. NAVD88 is above MLLW, therefore corrections should be added to NAVD88 to convert to MLLW.
   No tide gauges were used on this project.
   Average range of tide is 3.31'.
4. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
5. Survey was performed using an Reson 9001 Multibeam Sonar System. Horizontal positioning and vertical depths were recorded utilizing a Leica 1200 RTK GPS System. RTK Base Station Saybrook II (2006) was utilized for this survey.
6. The sounding information shown on these charts represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during June 2013.
7. The sounding information depicted on these charts 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 these charts 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 4535
   15-Foot depth contour shown thus: _____
   Surveyed by: Robert MacGovern and crew
   Refer to Survey No. 13-1280

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-20	06/19/13	N 680230.74 E 1110396.48	41°- 19'- 38.2"N 72°- 20'- 53.0"W
FL G-23	06/19/13	N 682163.29 E 1109103.50	41°- 19'- 57.4"N 72°- 21'- 09.9"W

GRAPHIC SCALE:
100 0 100 200
1" = 100'

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

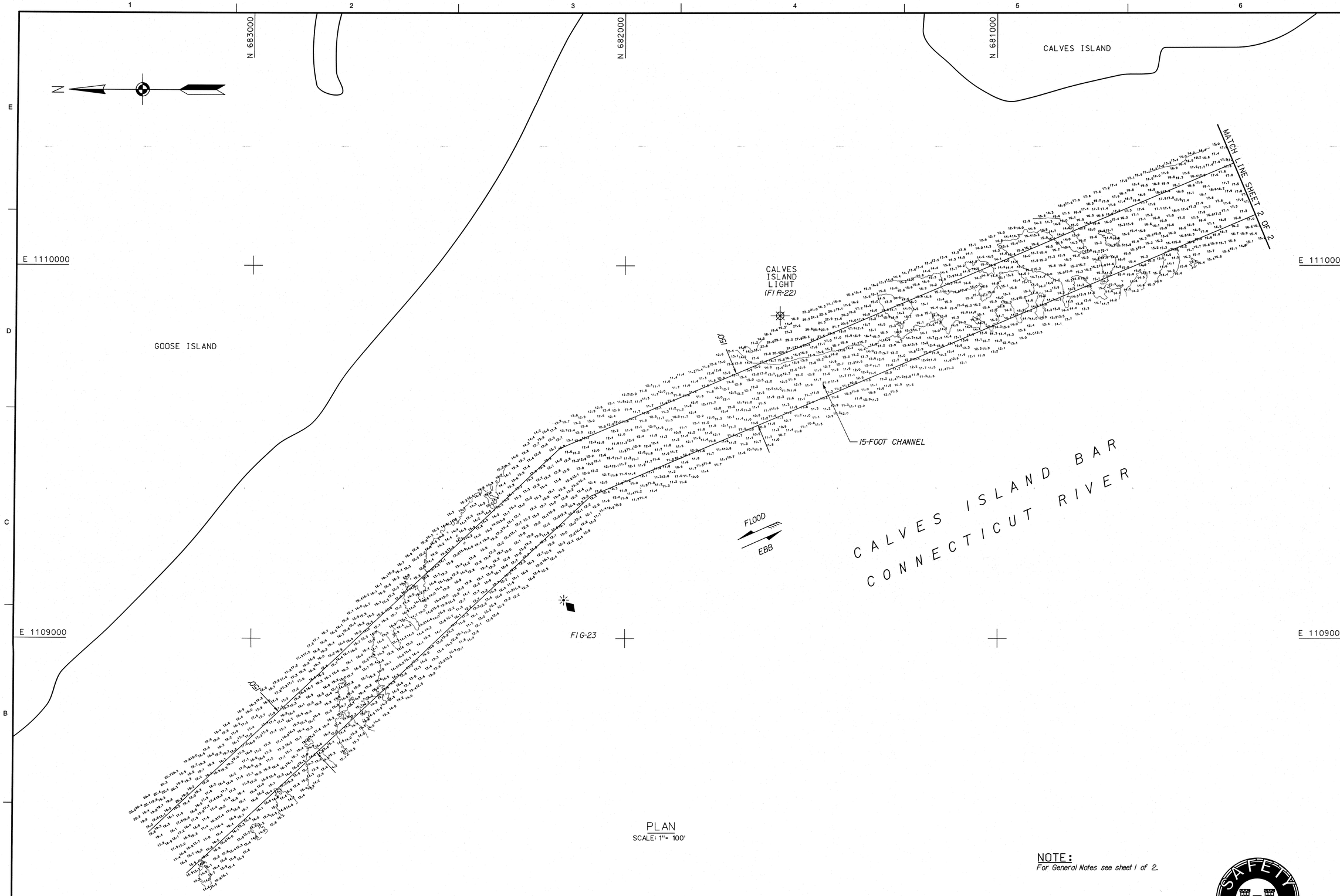
REVIEWED BY: Jeffrey Porter
Asst. Chief, Survey Section
DATE: 7/25/2013
DWN BY: J.L. Gaudet
CKD BY: SWM/JWP
DESIGN FILE: CRBHSP3.DGN
DRAWING CODE: CRB-1033
PLOT DATE: 7/24/2013
PLOT SCALE: 1" = 100'
PLOT DRIVER: HPGL2.PMD
SIZE: ANSI F
FILE NAME: CRB1033V101.S01

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

CALVES ISLAND BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 2

SAFETY PAYS



PLAN
SCALE: 1" = 100'

NOTE:
For General Notes see sheet 1 of 2.

GRAPHIC SCALE:
100 0 100 200
1" = 100'

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

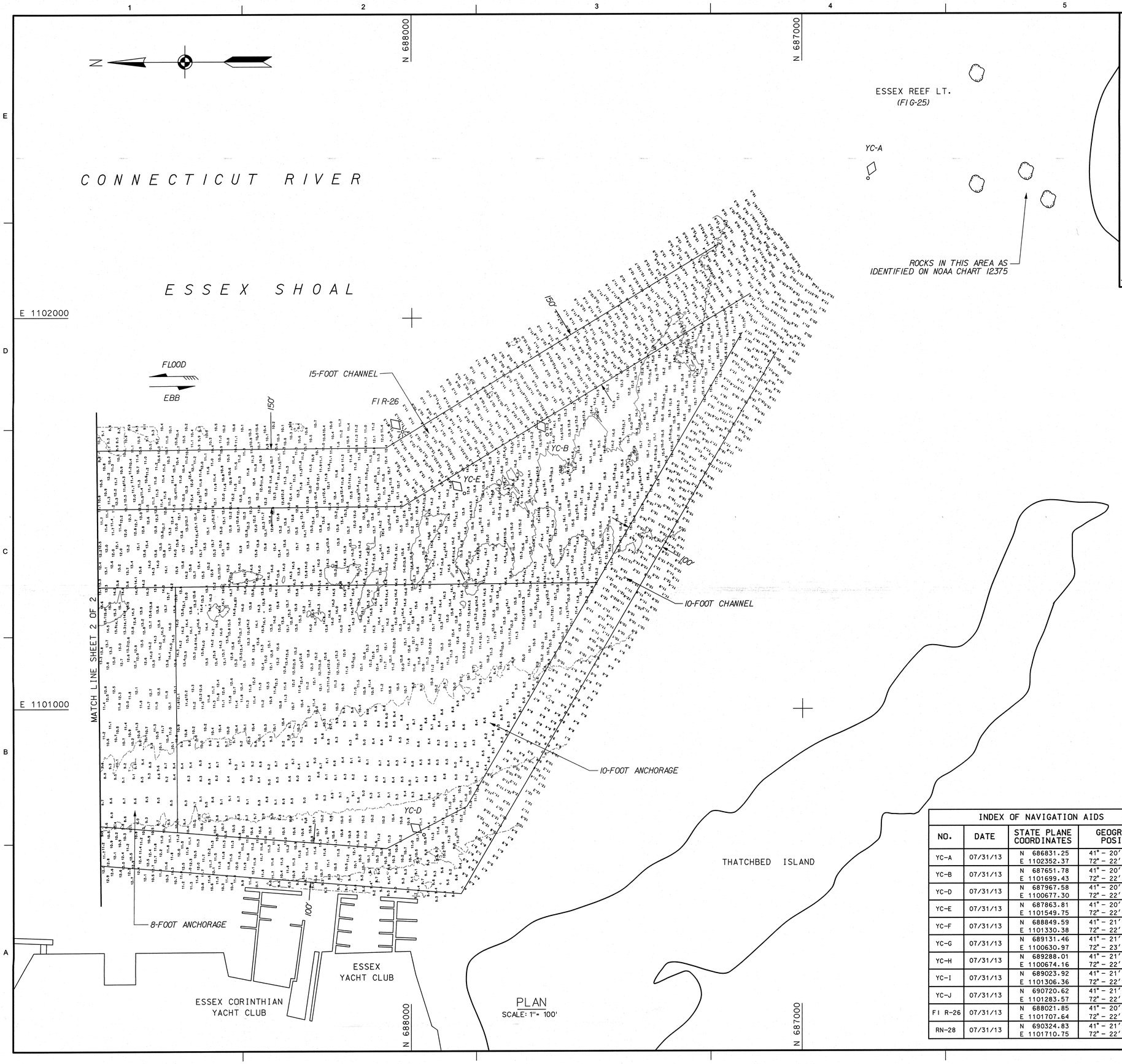
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

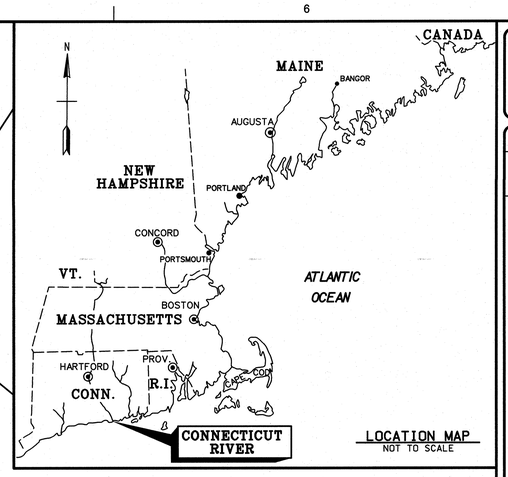
REVIEWED BY: Jeffrey Porter, Asst. Chief, Survey Section
SUBMITTED BY: Jeffrey Porter, Chief, Survey Section
DATE: 4/23/2014
DWN BY: VGS
CKD BY: SWK/JWP
VERSION FILE: CRBHFD.DGN
PLOT SCALE: 1" = 100'
PLOT DATE: 4/23/2014
DRAWING CODE: CRB-1023
SIZE: ANSI F
FILE NAME: CRB1023V102.SS2

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

CALVES ISLAND BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-102
SHEET 2 OF 2





US Army Corps of Engineers®
New England District

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. Any soundings noted with a (+) are above the reference plane of MLLW.
2. Topography shown is from previous surveys and/or NOAA Chart Nos. 12372_5 and 12375. 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. A Hypack KTD file was created from MLLW to NAVD88; corrections established or published in the vicinity of NOAA Bench Marks at
Lyme Hwy. Br., CT. River, CT (Station ID: 8462764, 05/07/2003),
Tylerville, CT. River, CT. (Station ID: 8463348, 05/16/2003),
Higganum Creek, CT. River, CT (Station ID: 8463836, 05/15/2003),
Haddam, CT. River, CT. (Station ID: 8463827, 05/15/2003),
Middletown, CT. River, CT. (Station ID: 8464336, 06/23/2003),
Rocky Hill, CT. River, CT. (Station ID: 8464255, 05/16/2003),
South Hartford, CT. River, CT. (Station ID: 8464418, 02/05/2004).
The corrections are 2.12 feet for Lyme Hwy. Br., 1.33 feet for Tylerville, 1.11 feet for Higganum Creek, 0.80 foot for Haddam, 0.61 foot for Middletown, 0.14 foot for Rocky Hill, 0.02 foot for South Hartford. NAVD88 is above MLLW, therefore corrections should be added to NAVD88 to convert to MLLW.
No tide gauges were used on this project.
Average range of tide is 3.0'.
4. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
5. Survey was performed using an Reson 9001 Multibeam Sonar System. Horizontal positioning and vertical depths were recorded utilizing a Leica 1200 RTK GPS System. RTK Base Station Saybrook II (2006) was utilized for this survey.
6. The sounding information shown on these charts represents the SHOALEST soundings of those obtained from hydrographic surveys conducted from July thru August 2013.
7. The sounding information depicted on these charts 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 these charts 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 4535
10-Foot depth contour shown thus: -·-·-·-·-·-·-·-
15-Foot depth contour shown thus: ————————
Surveyed by: Robert MacGovern and crew
Refer to Survey No. 13-1281

INDEX OF NAVIGATION AIDS

NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
YC-A	07/31/13	N 686831.25 E 1102352.37	41° - 20′ - 43.8″N 72° - 22′ - 38.1″W
YC-B	07/31/13	N 687651.78 E 1101699.43	41° - 20′ - 51.9″N 72° - 22′ - 46.6″W
YC-D	07/31/13	N 687967.58 E 1100677.30	41° - 20′ - 55.1″N 72° - 22′ - 60.0″W
YC-E	07/31/13	N 687863.81 E 1101549.75	41° - 20′ - 54.0″N 72° - 22′ - 48.5″W
YC-F	07/31/13	N 688849.59 E 1101330.38	41° - 21′ - 03.8″N 72° - 22′ - 51.4″W
YC-G	07/31/13	N 689131.46 E 1100630.97	41° - 21′ - 06.6″N 72° - 23′ - 00.5″W
YC-H	07/31/13	N 689288.01 E 1100674.16	41° - 21′ - 08.1″N 72° - 22′ - 59.9″W
YC-I	07/31/13	N 689023.92 E 1101306.36	41° - 21′ - 05.5″N 72° - 22′ - 51.7″W
YC-J	07/31/13	N 690720.62 E 1101283.57	41° - 21′ - 22.2″N 72° - 22′ - 51.9″W
FI R-26	07/31/13	N 688021.85 E 1101707.64	41° - 20′ - 55.6″N 72° - 22′ - 46.5″W
RN-28	07/31/13	N 690324.83 E 1101710.75	41° - 21′ - 18.3″N 72° - 22′ - 46.3″W

SAFETY PAYS

U.S. ARMY CORPS OF ENGINEERS
696 VIRGINIA ROAD
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Jeffrey Paden, Chief, Survey Section
SUBMITTED BY: Robert MacGovern, Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 7/25/2014
DATE: 7/25/2014
DWN BY: TJG
CKD BY: SWK/JWP
DESIGN FILE: CRBISH.DGN
DRAWING CODE: CRB-1034
SIZE: ANSI F
FILE NAME: CRB1524V101.S01

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

ESSEX SHOAL
CONDITION SURVEY
10 AND 15-FOOT CHANNELS,
8 AND 10-FOOT ANCHORAGES

SHEET IDENTIFICATION
V-101
SHEET 1 OF 2

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

PLAN
SCALE: 1" = 100'

NOTE:
For General Notes see sheet 1 of 2.

GRAPHIC SCALE:
1" = 100'
100 0 100 200

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
696 VIRGINIA ROAD, BLDG. 2
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

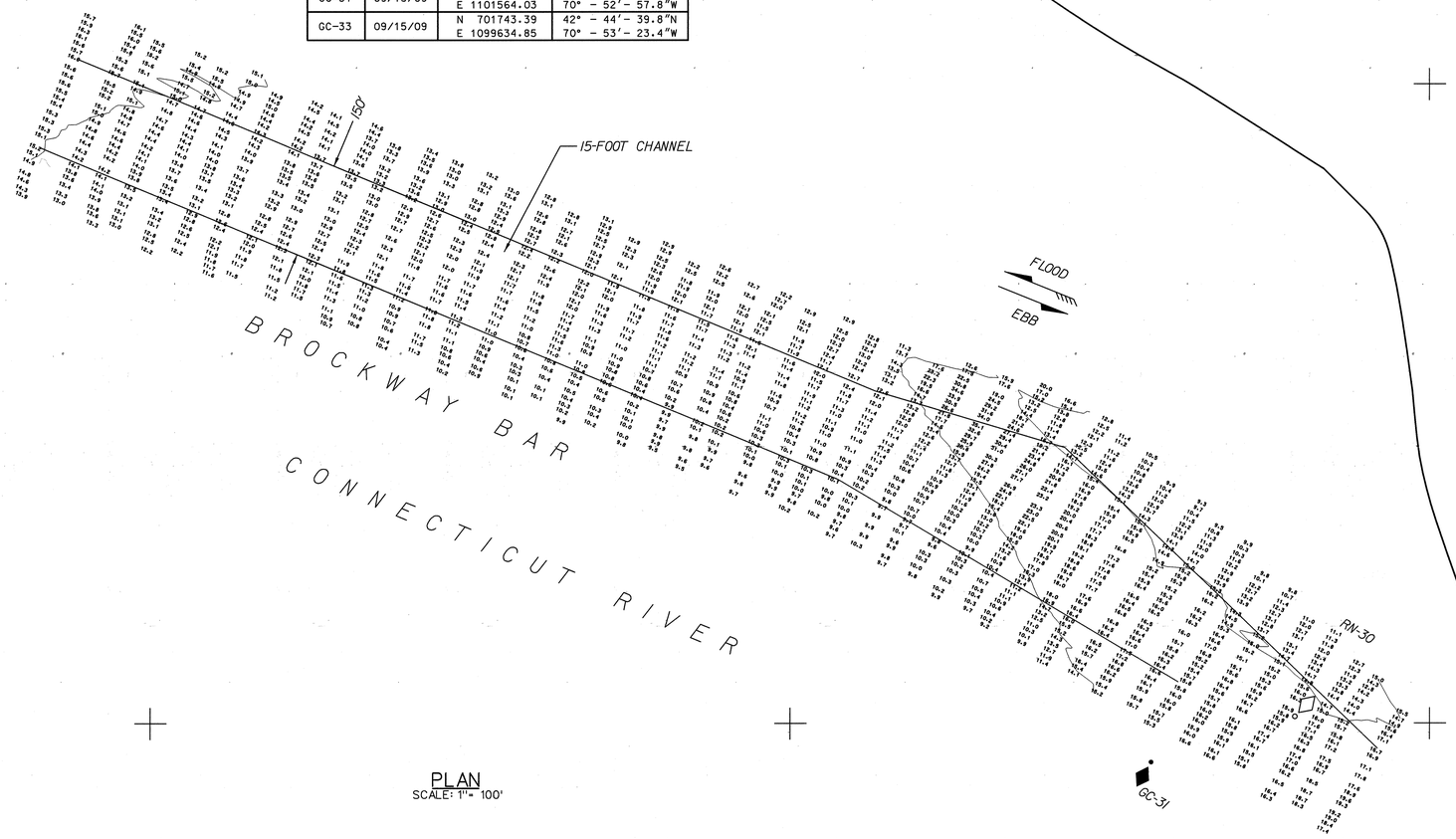
REVIEWED BY: Jeffrey Porter DATE: 4/25/2012
Acting Chief, Survey Section
SUBMITTED BY: DATE:
Chief, Survey Section
PLOT SCALE: 1" = 100' PLOT DATE: 4/25/2012
PLOT SIZE: ANSI F DWN BY: TJGS CKD BY: EWK/JWP
VERSION FILE: CRBSHSLDGN
DRAWING CODE: CRB-1024
FILE NAME: CRB1024V102.SXZ

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

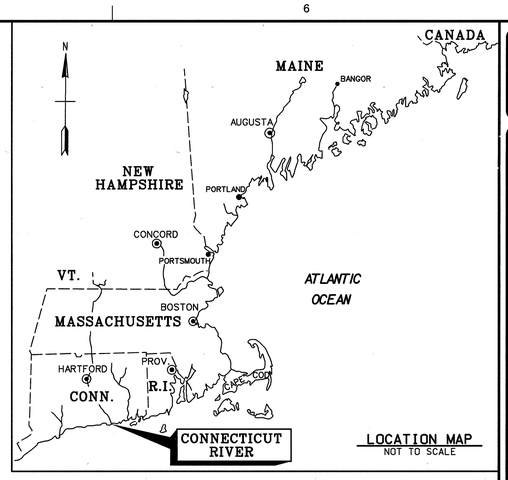
ESSEX SHOAL
CONDITION SURVEY
10 AND 15-FOOT CHANNELS
8 AND 10-FOOT ANCHORAGES

SHEET IDENTIFICATION
V-102
SHEET 2 OF 2

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-30	09/15/09	N 701010.14 E 1101789.22	42° - 44′- 32.1″N 70° - 52′- 54.8″W
GC-31	09/15/09	N 700938.78 E 1101564.03	42° - 44′- 31.4″N 70° - 52′- 57.8″W
GC-33	09/15/09	N 701743.39 E 1099634.85	42° - 44′- 39.8″N 70° - 53′- 23.4″W



PLAN
SCALE: 1" = 100'



LOCATION MAP
NOT TO SCALE

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. 12375. 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: TBM COOPER (2009) is a ½" re-rod driven flush with the ground on a stone stacked earthen pier located at the end of a partially paved dirt road, Elys Ferry Road on the property of Coopers on the south side of Eight Mile River, 6.10 feet (1.86 m) southwest of a pile on the northeast face of the wooden bulkhead, and 9.44 feet (2.88 m) east of a pile on the southeast end from face of wooden bulkhead.
Elevation is 5.36 feet above MLLW.
4. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
5. Survey was performed using an Odom MK3 echotrac echosounder. Positioning was obtained utilizing a Leica 1200 GPS System. An RTK base station was setup on TBM Cooper using a 2.08 NAVD88 to MLLW correction at this location.
6. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during September 2009.
7. The sounding information depicted on these maps 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 these maps 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 4535
15-foot depth contour shown thus: ————
Surveyed by: Robert MacGovern and Crew
Refer to Survey No. 09-1022/01

SAFETY PAYS

GRAPHIC SCALE:
100 0 100 200
1" = 100'

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

DATE: 3/19/10
DWN BY: MAB
CKD BY: MAB
DESIGN FILE: CRBHSP1.DGN
DRAWING CODE: DRB-003
FILE NAME: CRBBSV101.S01
SIZE: ANSI F
PLOT SCALE: 1" = 100'
PLOT DATE: 3/19/2010

REVIEWED BY: Asst Chief, Survey Section
SUBMITTED BY: Chief, Survey Section

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

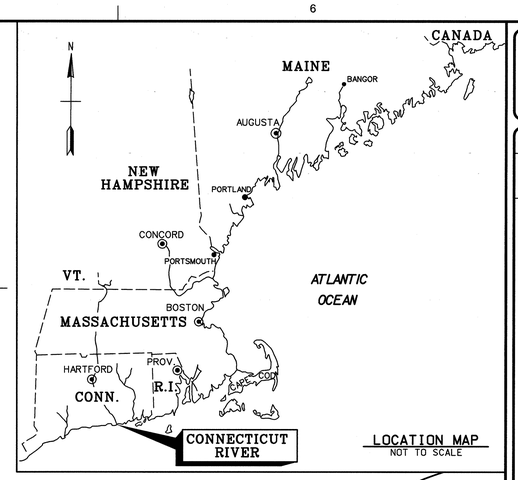
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

BROCKWAY BAR
CONDITION SURVEY
15-FOOT CHANNEL

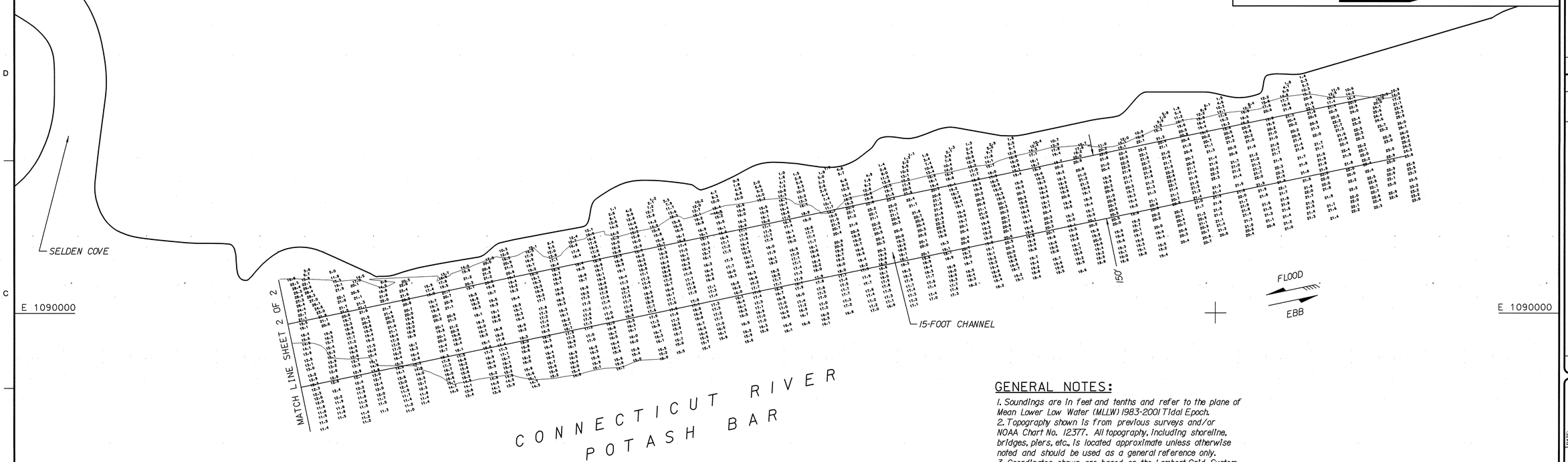
SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

Scanned Record Mar - 2010

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-39	03/11/10	N 710968.72 E 1089040.43	41° - 24′- 42.8″N 72° - 25′- 31.4″W
GC-37	03/11/10	N 709439.59 E 1089675.27	41° - 24′- 27.6″N 72° - 25′- 23.2″W



LOCATION MAP
NOT TO SCALE



PLAN
SCALE: 1"= 100'

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. 12377. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford. Similar results can be obtained using a NAVD88 to MLLW correction of 1.55′ local to this area.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during March 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4535

15-foot depth contour shown thus: ————

Surveyed by: Robert MacGovern and Crew

Refer to Survey No. 10-1050/01

SAFETY PAYS

GRAPHIC SCALE:
1" - 100′
100 0 100 200

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
696 VIRGINIA ROAD, DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

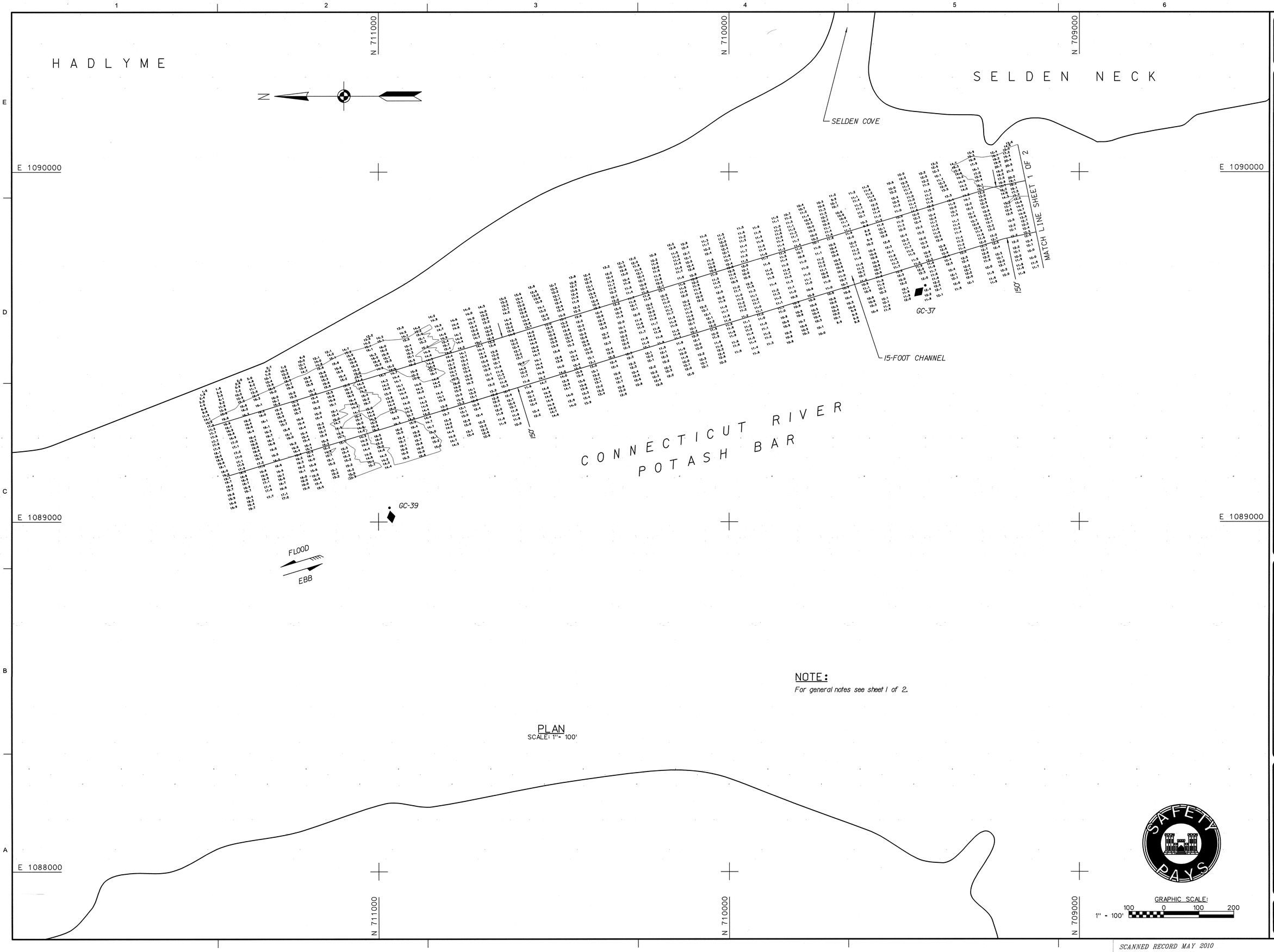
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE:
DWN BY: MTB
CKD BY: MTB
DESIGN FILE: CRBHSPX.DGN
DRAWING CODE: CRB-997
PLOT SCALE: 1" = 100'
PLOT DATE: 1-1-2010
SIZE: ANSI F
FILE NAME: CRBSPX701-S01

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

POTASH BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 2

SCANNED RECORD MAY 2010



NOTE:
For general notes see sheet 1 of 2.

PLAN
SCALE: 1"= 100'

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: Kathleen A. Cullen
Asst. Chief, Survey Section
SUBMITTED BY: Michael T. Fitzpatrick
Chief, Survey Section
DATE: 5/11/10

DWN BY: WWW	CKD BY: MTM
DESIGN FILE: CRBS1FD.DGN	
PLOT SCALE: 1" = 100'	PLOT DATE: 3/31/2010
SIZE: ANSI F	FILE NAME: CRBS1FV02.S02
DRAWING CODE: CRB-997	

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

POTASH BAR
CONDITION SURVEY
15-FOOT CHANNEL

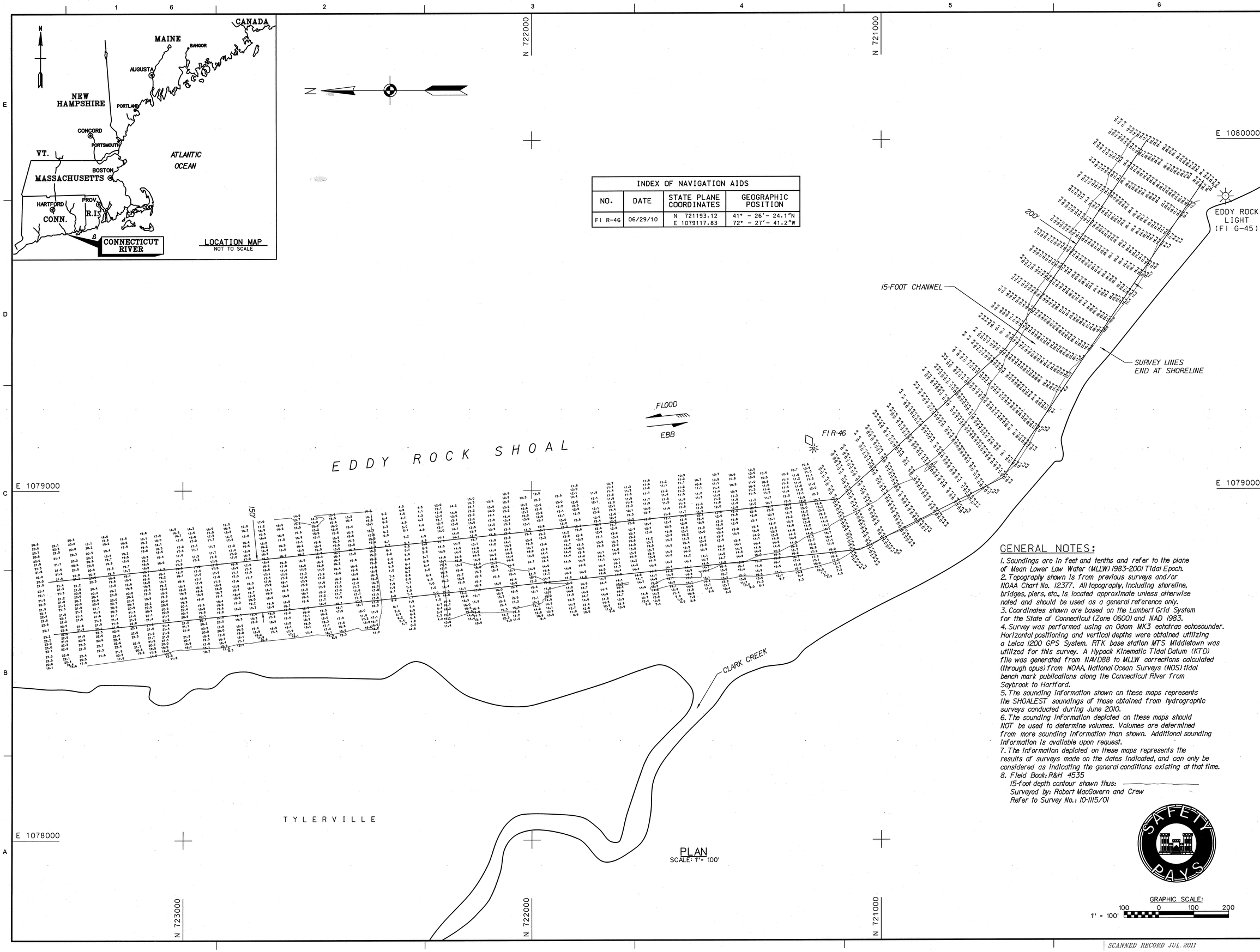
SHEET IDENTIFICATION
V-102
SHEET 2 OF 2

SAFETY PAYS

SCANNED RECORD MAY 2010

LOCATION MAP
NOT TO SCALE

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
Fl R-46	06/29/10	N 721193.12 E 1079117.83	41° - 26′- 24.1″N 72° - 27′- 41.2″W



PLAN
SCALE: 1" = 100'

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. 12377. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during June 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4535
   15-foot depth contour shown thus: ————
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1115/01

SAFETY PAYS

GRAPHIC SCALE:
1" = 100'
100 0 100 200

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MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

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CONCORD, MASSACHUSETTS
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REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE:
DWN BY: WWW
CKD BY: MTM
SCALE: 1" = 100'
PLOT SCALE: 1" = 100'
PLOT DATE: 7/12/2011
DRAWING CODE: CRBSBR-888
DWG NAME: CRBSBRV101.S01
SIZE: ANSI F
FILE NAME: CRBSBRV101.S01

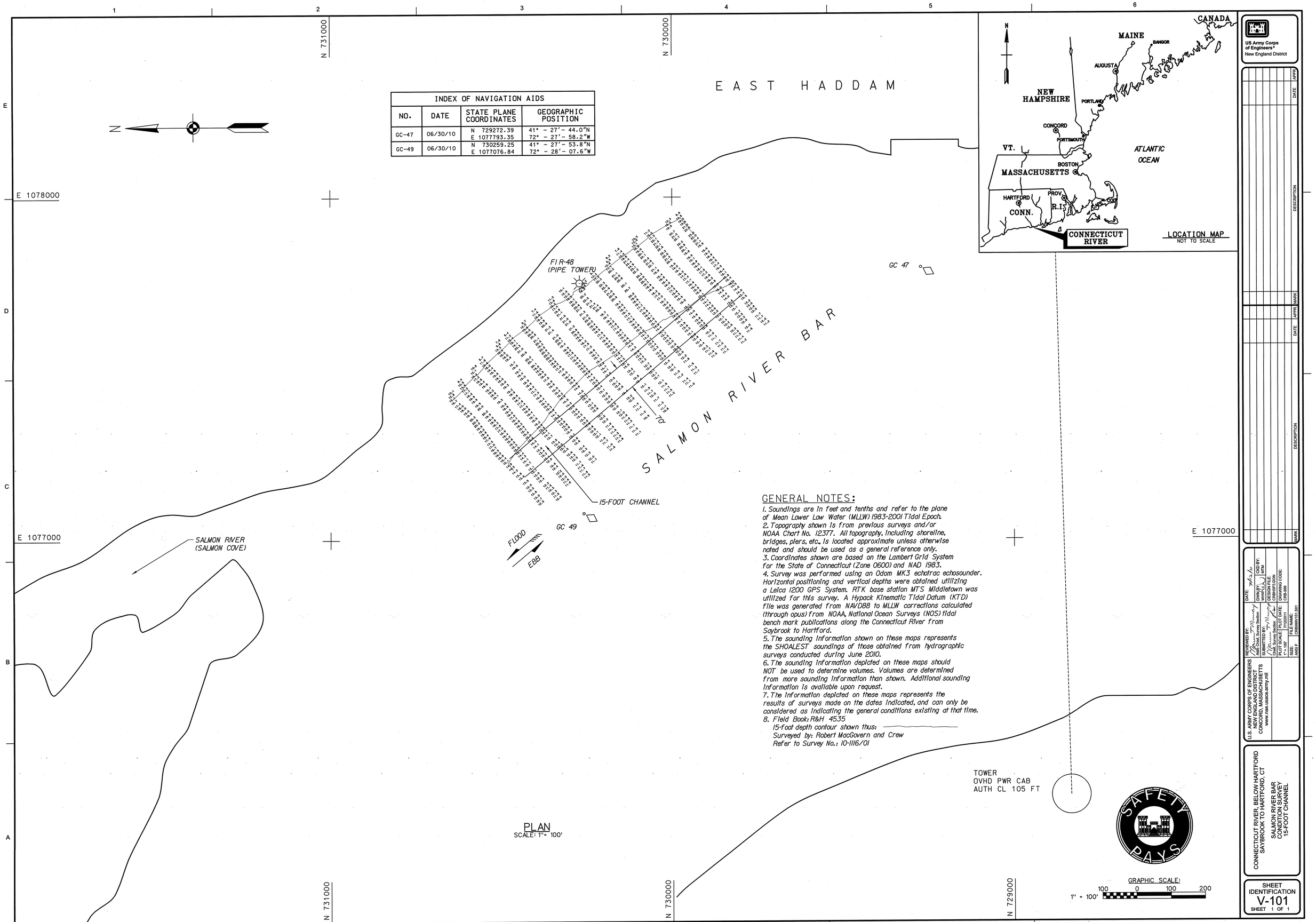
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

EDDY ROCK SHOAL
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

SCANNED RECORD JUL. 2011

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-47	06/30/10	N 729272.39 E 1077793.35	41° - 27′- 44.0″N 72° - 27′- 58.2″W
GC-49	06/30/10	N 730259.25 E 1077076.84	41° - 27′- 53.8″N 72° - 28′- 07.6″W



PLAN
SCALE: 1" = 100'

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. 12377. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during June 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4535
   15-foot depth contour shown thus: ————————
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1116/01

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New England District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

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NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

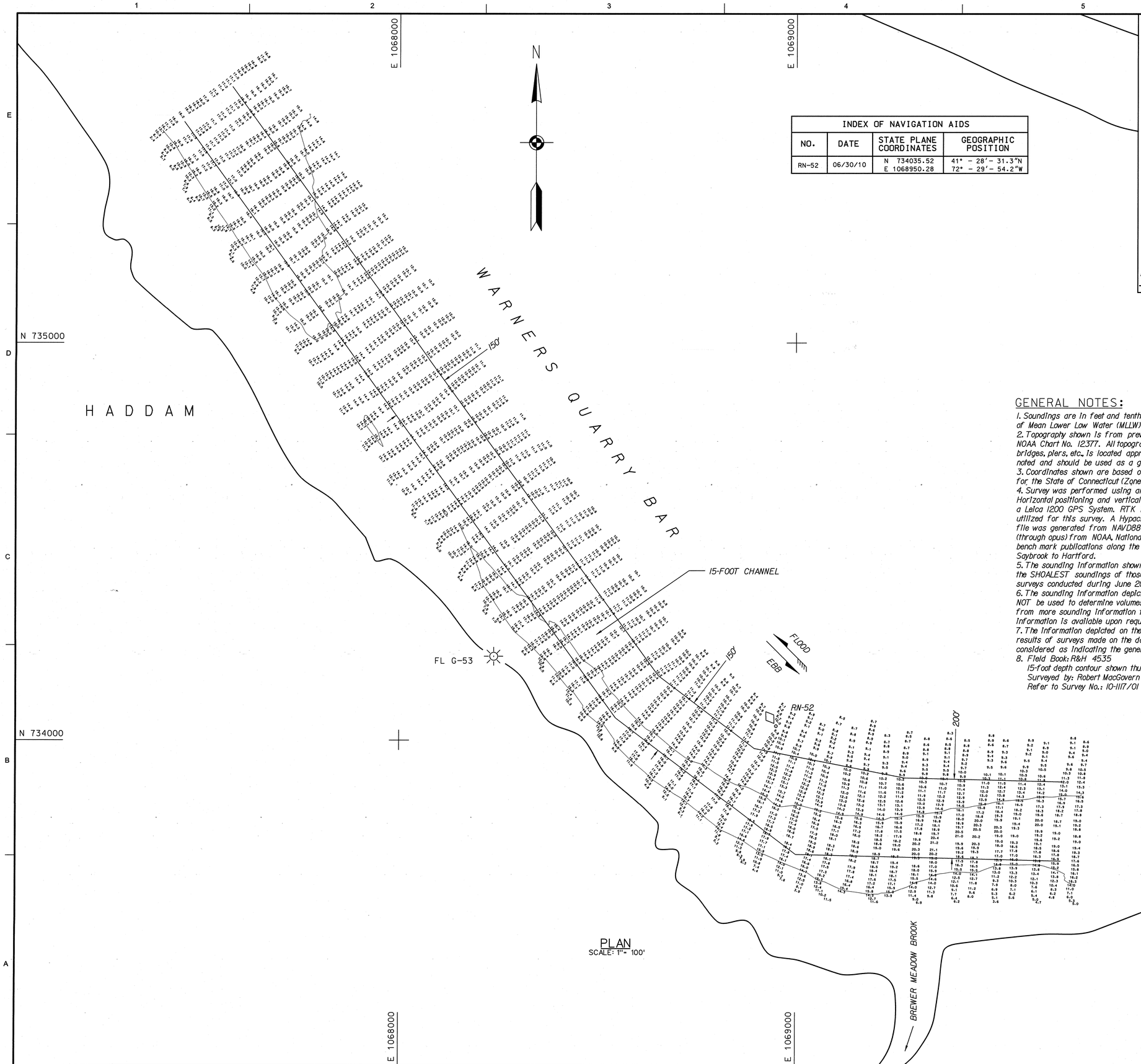
REVIEWED BY: Alfred C. Stiller, Jr. Acting Chief, Survey Section
SUBMITTED BY: Alfred C. Stiller, Jr. Chief, Survey Section
DATE: 7/15/11
DWN BY: WWH
CKD BY: MTM
DESIGN FILE: CONN0100.DGN
DRAWING CODE: CRB-999
PLOT SCALE: 1" = 100'
PLOT DATE: 7/15/2011
SIZE: ANSI F
FILE NAME: FILE NAME: 591

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

SALMON RIVER BAR
CONDITION SURVEY
15-FOOT CHANNEL

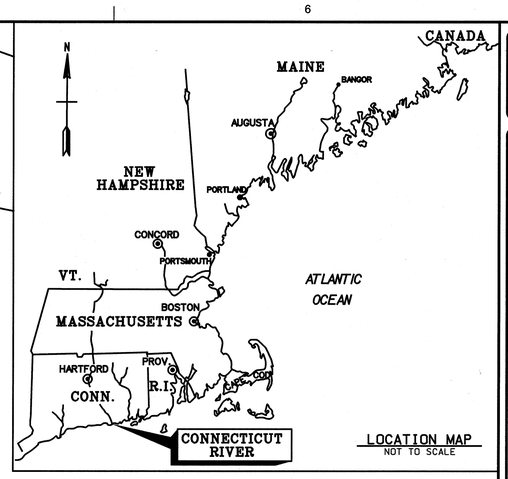
SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

SCANNED RECORD JUL. 2011



PLAN
SCALE: 1" = 100'

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-52	06/30/10	N 734035.52 E 1068950.28	41° - 28′ - 31.3″N 72° - 29′ - 54.2″W



LOCATION MAP
NOT TO SCALE

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. 12377. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during June 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4535
   15-foot depth contour shown thus: ————
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1117/01

GRAPHIC SCALE:
1" = 100'
100 0 100 200

SAFETY PAYS

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

DATE: 7/13/11
DWN BY: Wayne A. Wood
CKD BY: MTM
DESIGN SCALE: CRBHSP3.DGN
DRAWING CODE: CRB-1000
PLOT DATE: 7/12/2011
FILE NAME: CRB1000V101.S01
PLOT SCALE: 1=100'
SIZE: ANSI F

REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section

U.S. ARMY CORPS OF ENGINEERS
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CONCORD, MASSACHUSETTS
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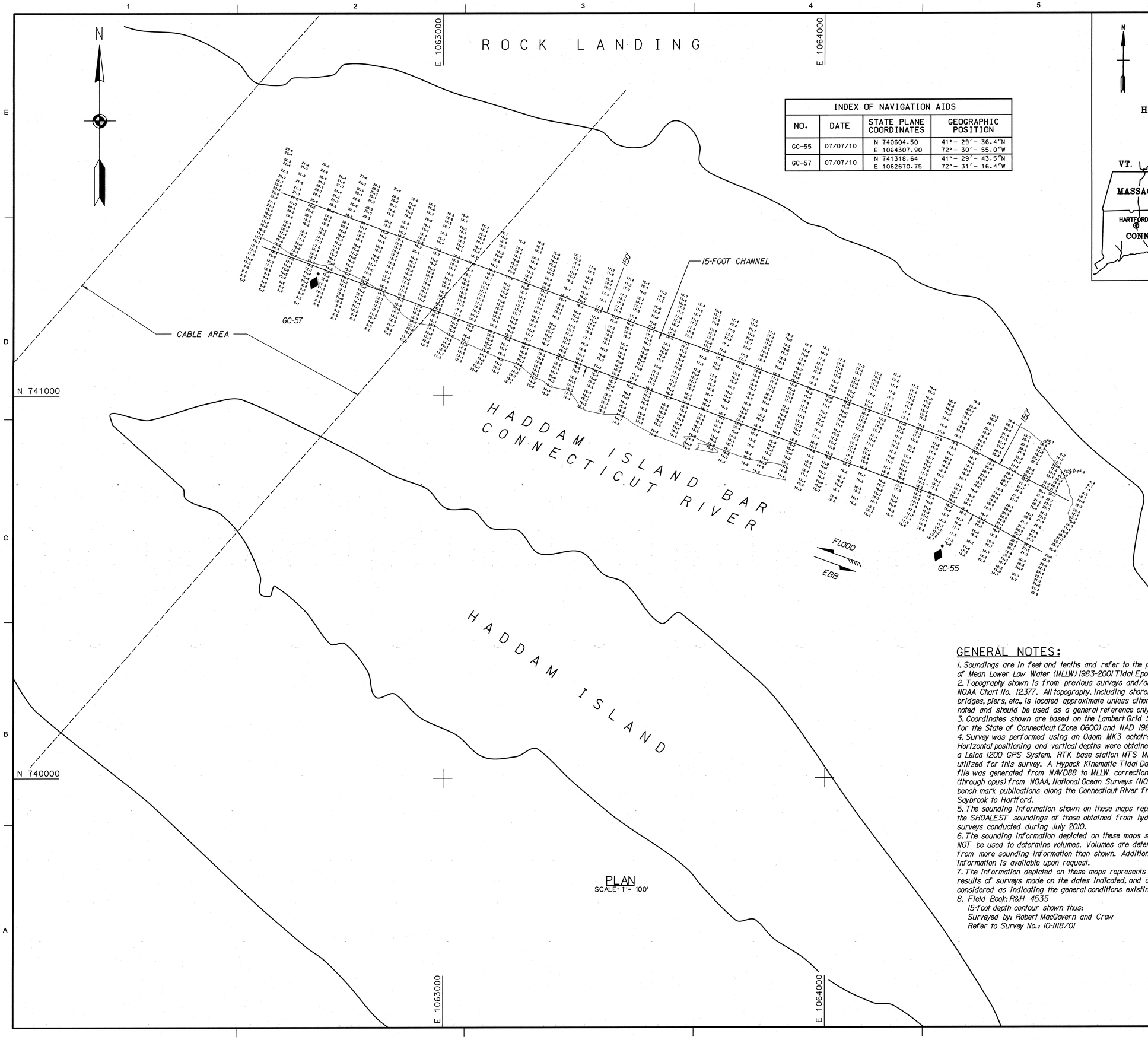
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

WARNERS QUARRY BAR
CONDITION SURVEY
15-FOOT CHANNEL

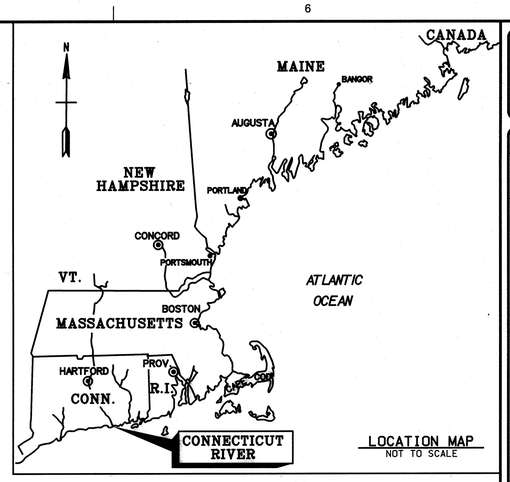
SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

SCANNED RECORD JUL. 2011



PLAN
SCALE: 1" = 100'

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-55	07/07/10	N 740604.50 E 1064307.90	41°- 29′- 36.4″N 72°- 30′- 55.0″W
GC-57	07/07/10	N 741318.64 E 1062670.75	41°- 29′- 43.5″N 72°- 31′- 16.4″W



LOCATION MAP
NOT TO SCALE

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. 12377. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during July 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4535
   15-foot depth contour shown thus:
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1118/01

GRAPHIC SCALE:
1" = 100'
100 0 100 200

US Army Corps of Engineers®
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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: Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 11/8/11
DWN BY: MARK BOLTON
CKD BY: MTM
DESIGN FILE: CRBHSP3.DGN
DRAWING CODE: CRD-1001
PLOT SCALE: 1" = 100'
PLOT DATE: 11/08/2011
FILE NAME: CRB3100V101.001
SIZE: ANSI E

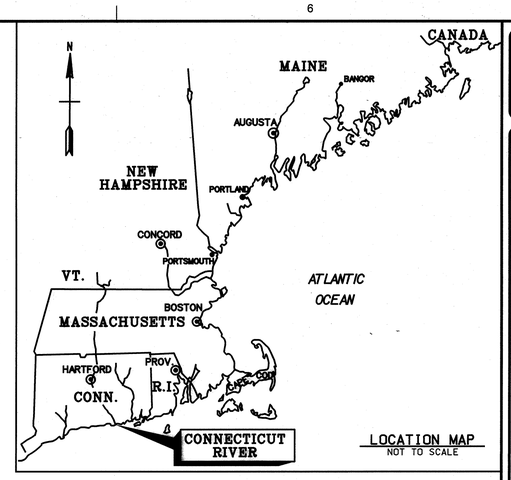
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

HADDAM ISLAND BAR
CONDITION SURVEY
15-FOOT CHANNEL

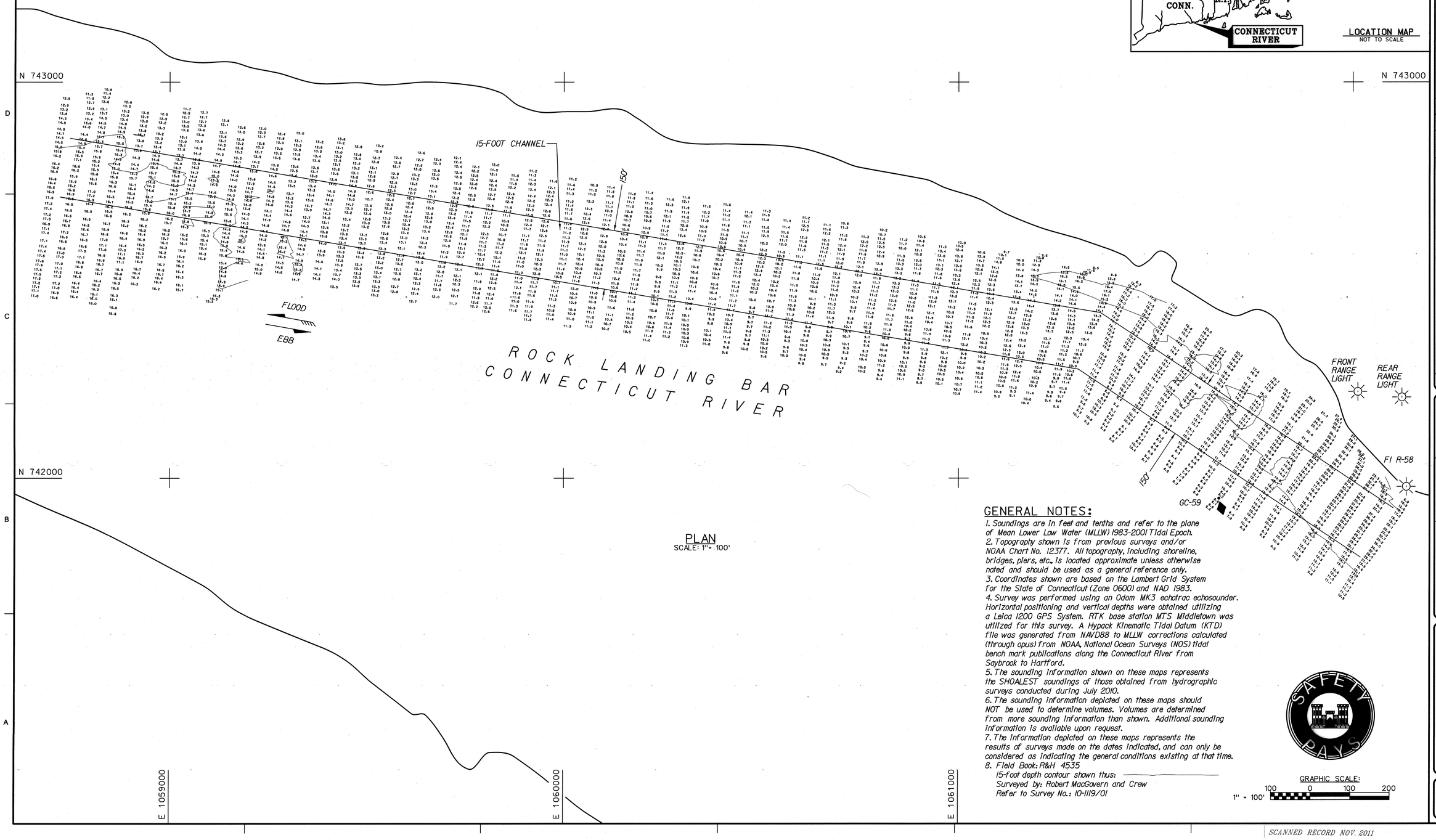
SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

SCANNED RECORD NOV. 2011

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-59	07/08/10	N 741949.10 E 1061660.46	41°- 29′- 49.7″N 72°- 31′- 29.7″W



LOCATION MAP
NOT TO SCALE



PLAN
SCALE: 1" = 100'

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. 12377. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during July 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4535

15-foot depth contour shown thus: ————————

Surveyed by: Robert MacGovern and Crew

Refer to Survey No.: 10-1119/01

GRAPHIC SCALE:
100 0 100 200
1" = 100'

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: Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 7/28/2010
SIZE: ANSI F
FILE NAME: CRB1002V10.001

DATE: 7/8/10
DWN BY: MDM
CKD BY: MDM
DESIGN FILE: CRB1HSP10.DGN
DRAWING CODE: DRB-HYD
DRB-HYD

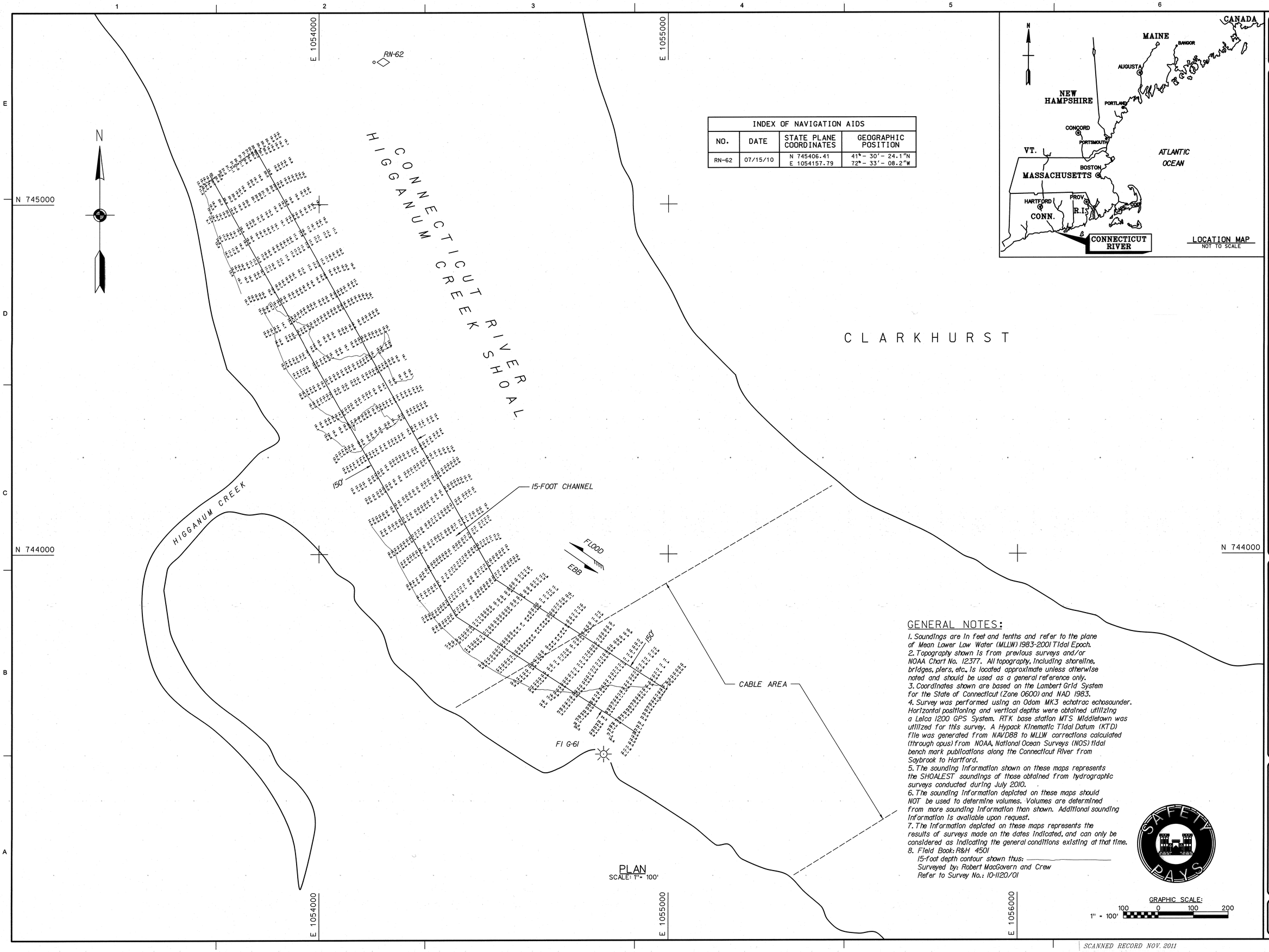
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

ROCK LANDING BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

SAFETY PAYS

SCANNED RECORD NOV. 2011



PLAN
SCALE: 1" = 100'

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-62	07/15/10	N 745406.41 E 1054157.79	41°- 30'- 24.1"N 72°- 33'- 08.2"W

LOCATION MAP
NOT TO SCALE

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. 12377. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during July 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4501
   15-foot depth contour shown thus: ————————
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1120/01

GRAPHIC SCALE:
1" = 100' 100 0 100 200

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NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 11/15/11
SIZE: ANSI F
DATE: 11/15/11
DWN BY: J. WEBB
CKD BY: J. WEBB
DESIGN FILE: CRBHSP1.DGN
DRAWING CODE: DRA-004
FILE NAME: CRB100AV101.501

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

HIGGANUM CREEK SHOAL
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

SCANNED RECORD NOV. 2011

N 750000 | N 749000 | N 748000

E 1054000

E 1053000

E 1052000

BREAKWATER

SCOVILL ROCK BAR
CONNECTICUT RIVER

FLOOD

EBB

15-FOOT CHANNEL

RN-66

150'

FRONT RANGE LIGHT (Fl G-67)

REAR RANGE LIGHT

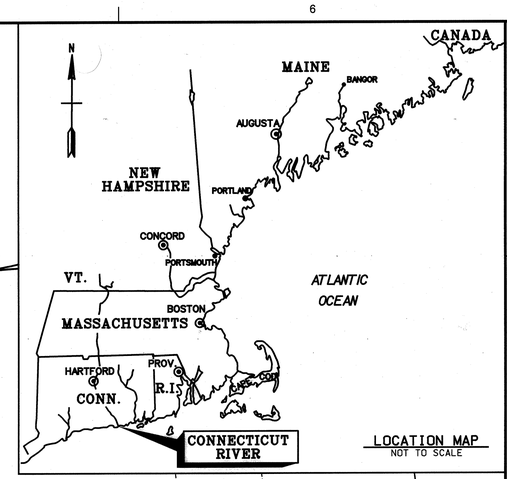
SCOVILL ROCK

TOWER

OVHD PWR CABS
AUTH CL 101 FT

PLAN
SCALE: 1"= 100'

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-66	07/15/10	N 748879.30 E 1052728.30	41°- 30′- 58.4″N 72°- 33′- 26.9″W



LOCATION MAP
NOT TO SCALE

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. 12377. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during July 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4501
   15-foot depth contour shown thus: ————————
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1121/01

SAFETY PAYS

GRAPHIC SCALE:
1" = 100' 100 0 100 200

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MARK	DESCRIPTION	DATE	APPR.

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NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
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REVIEWED BY: Andrew Fox, Survey Section Chief
SUBMITTED BY: Chief, Survey Section
DATE: 7/22/2011
SCALE: 1" = 100'
SIZE: ANSI F
DRAWN BY: Jeffrey Tyler
DATE: 7/22/2011
DESIGN FILE: CRBH8PS.DGN
CADD CODE: CRB-1000
FILE NAME: C:\8\1000\V101.DS1

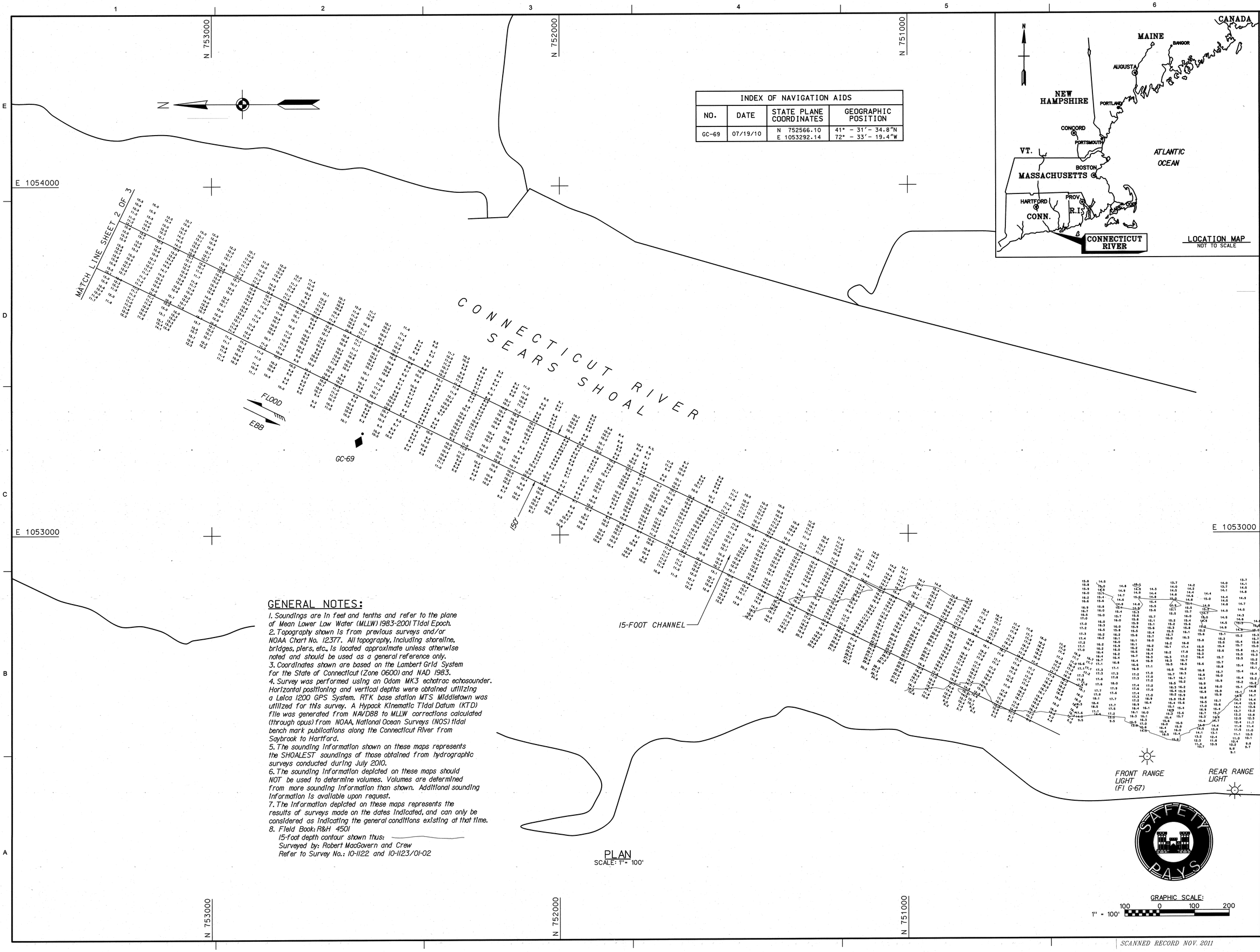
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

SCOVILL ROCK BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

SCANNED RECORD NOV. 2011

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-69	07/19/10	N 752566.10 E 1053292.14	41° - 31′- 34.8″N 72° - 33′- 19.4″W



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. 12377. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during July 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4501
   15-foot depth contour shown thus: ———
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1122 and 10-1123/01-02

PLAN
SCALE: 1"= 100'

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MARK	DESCRIPTION	DATE	APPR.

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NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
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REVIEWED BY: Eric Fredericksen, Asst. Chief, Survey Section
SUBMITTED BY: Jeff Gowan, Chief, Survey Section
DATE: 11/8/11
DWN BY: Wm Cox
CKD BY: MTM
APPD BY: Jeff Gowan
CRBSHPS1.DGN
PLOT SCALE: 1" = 100'
PLOT DATE: 10/15/2011
DRAWING CODE: C-65-1006
FILE NAME: ANSI F
CRB10000/101-501

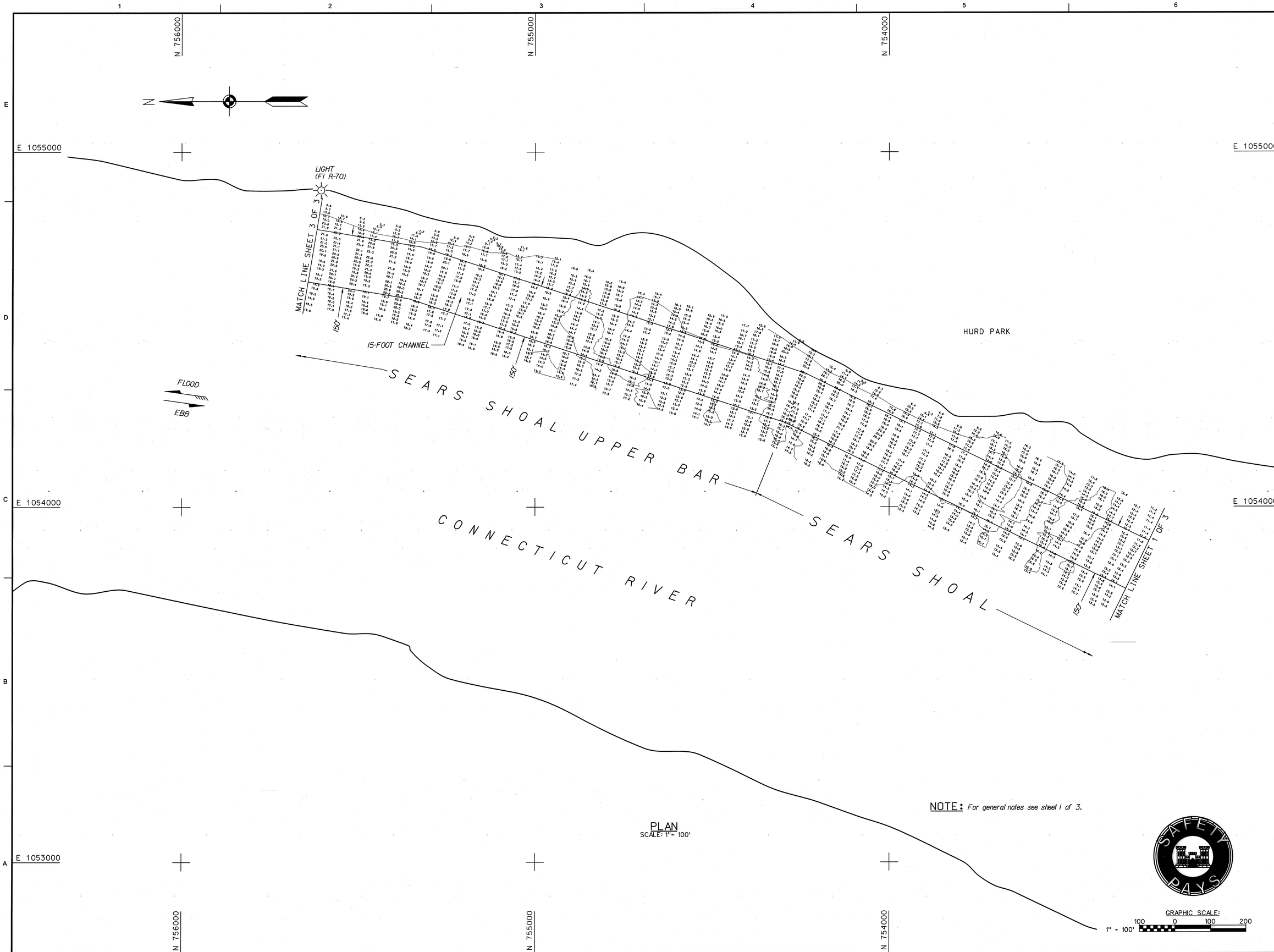
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

SEARS SHOAL AND
SEARS SHOAL UPPER BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 3

SAFETY PAYS

SCANNED RECORD NOV. 2011



PLAN
SCALE: 1" = 100'

NOTE: *For general notes see sheet 1 of 3.*

GRAPHIC SCALE:
100 0 100 200
1" = 100'

SAFETY PAYS

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REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section

DATE: 11/8/11
DWN BY: WWW
CKD BY: MWB
DESIGN FILE: CRBHSP3.DGN
DRAWING CODE: CRBHSP3
PLOT DATE:
PLOT SCALE: 1" = 100'
VERSION:
SIZE: ANSI F
FILE NAME: CRB1000/102.S02

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

SEARS SHOAL AND
SEARS SHOAL UPPER BAR
CONTOUR SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-102
SHEET 2 OF 3

SCANNED RECORD NOV. 2011

PLAN
SCALE: 1" = 100'

NOTE: *For general notes see sheet 1 of 3.*

GRAPHIC SCALE:
100 0 100 200
1" = 100'

SAFETY PAYS

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REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 11/6/11
DWN BY: WWA
CKD BY: MWM
DESIGN FILE: CRBHSP3.DGN
PLOT SCALE: 1" = 100'
PLOT DATE: 11/9/11
DRAWING CODE: CHBH-HYD
SIZE: ANSI F
FILE NAME: CRB1009V103.393

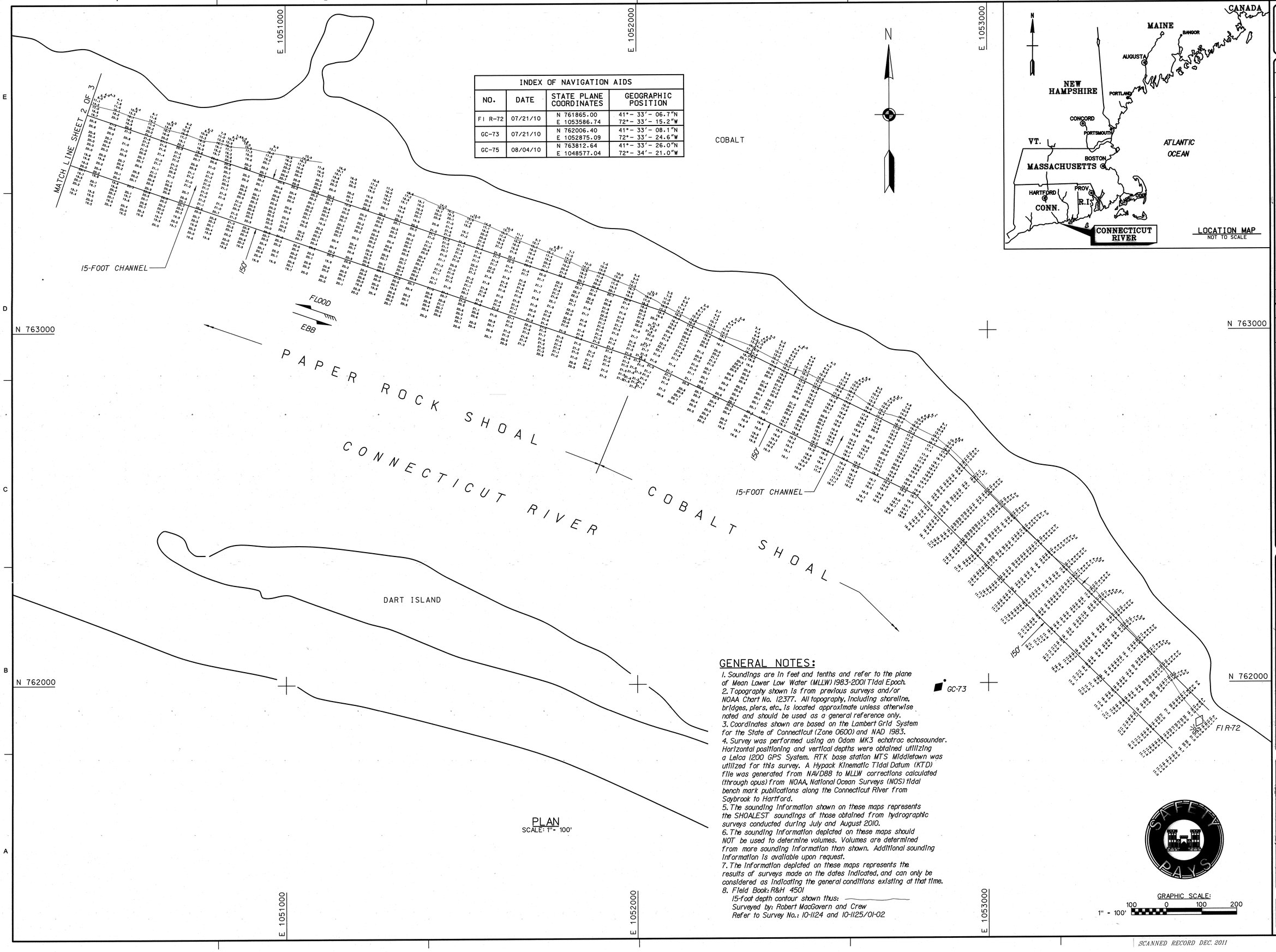
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

SEARS SHOAL AND
SEARS SHOAL UPPER BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-103
SHEET 3 OF 3

SCANNED RECORD NOV. 2011

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
Fl R-72	07/21/10	N 761865.00 E 1053586.74	41°- 33′- 06.7″N 72°- 33′- 15.2″W
GC-73	07/21/10	N 762006.40 E 1052875.09	41°- 33′- 08.1″N 72°- 33′- 24.6″W
GC-75	08/04/10	N 763812.64 E 1048577.04	41°- 33′- 26.0″N 72°- 34′- 21.0″W



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. 12377. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during July and August 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4501
   15-foot depth contour shown thus: ————
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1124 and 10-1125/01-02

PLAN
SCALE: 1"= 100'

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New England District

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

REVIEWED BY: Asst. Chief Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/12/11
DWN BY: WHW
CKD BY: EMM
DESIGN FILE: CRBSHP3.DGN
PLOT SCALE: 1" = 100'
PLOT DATE: 12/22/11
DRAWING CODE: CRB-1007
FILE NAME: CRB1007V101.SH1
SIZE: ANSI F

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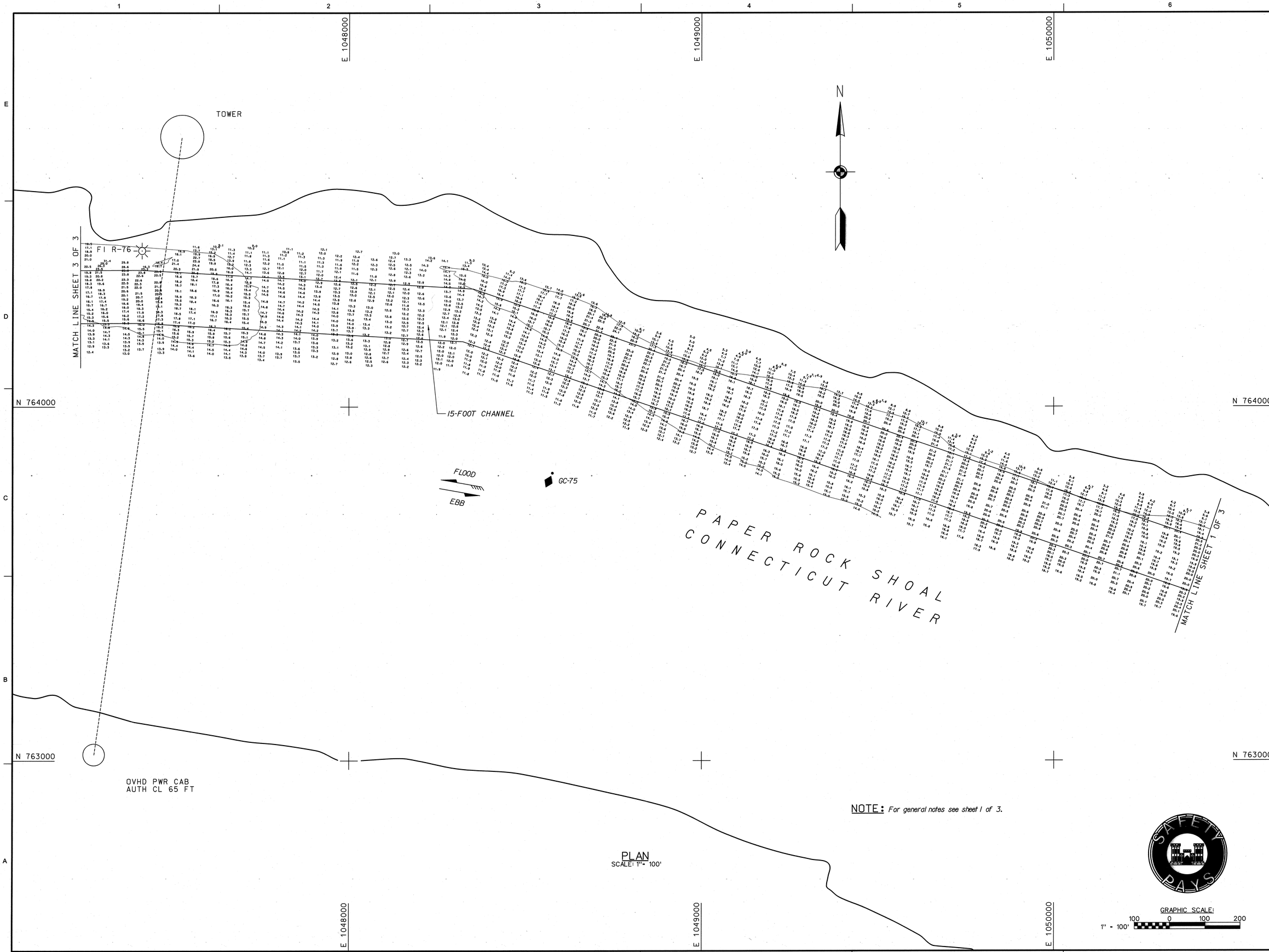
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

COBALT SHOAL AND PAPER ROCK SHOAL
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 3

SCANNED RECORD DEC. 2011



NOTE: *For general notes see sheet 1 of 3.*

PLAN
SCALE: 1" = 100'

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MARK	DESCRIPTION	DATE	APPR.

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CONCORD, MASSACHUSETTS
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REVIEWED BY: Peter T. Rice, Jr. / Acting Chief, Engineering Division
SUBMITTED BY: Chief, Survey Section
DATE: 12/12/11
DRAWN BY: WWR
TRACED BY: WWR
DESIGN FILE: DB8HSP3.DGN
PLOT SCALE: 1" = 100'
PLOT DATE: 12/12/2011
DRAWING CODE: DB-1000'
FILE NAME: C2B1600YV102.002
SIZE: ANSI F

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT
COBALT SHOAL AND PAPER ROCK SHOAL
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-102
SHEET 2 OF 3

SAFETY PAYS

SCANNED RECORD DEC. 2011

PLAN
SCALE: 1" = 100'

NOTE: *For general notes see sheet 1 of 3.*

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MARK	DESCRIPTION	DATE	APPR.

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CONCORD, MASSACHUSETTS
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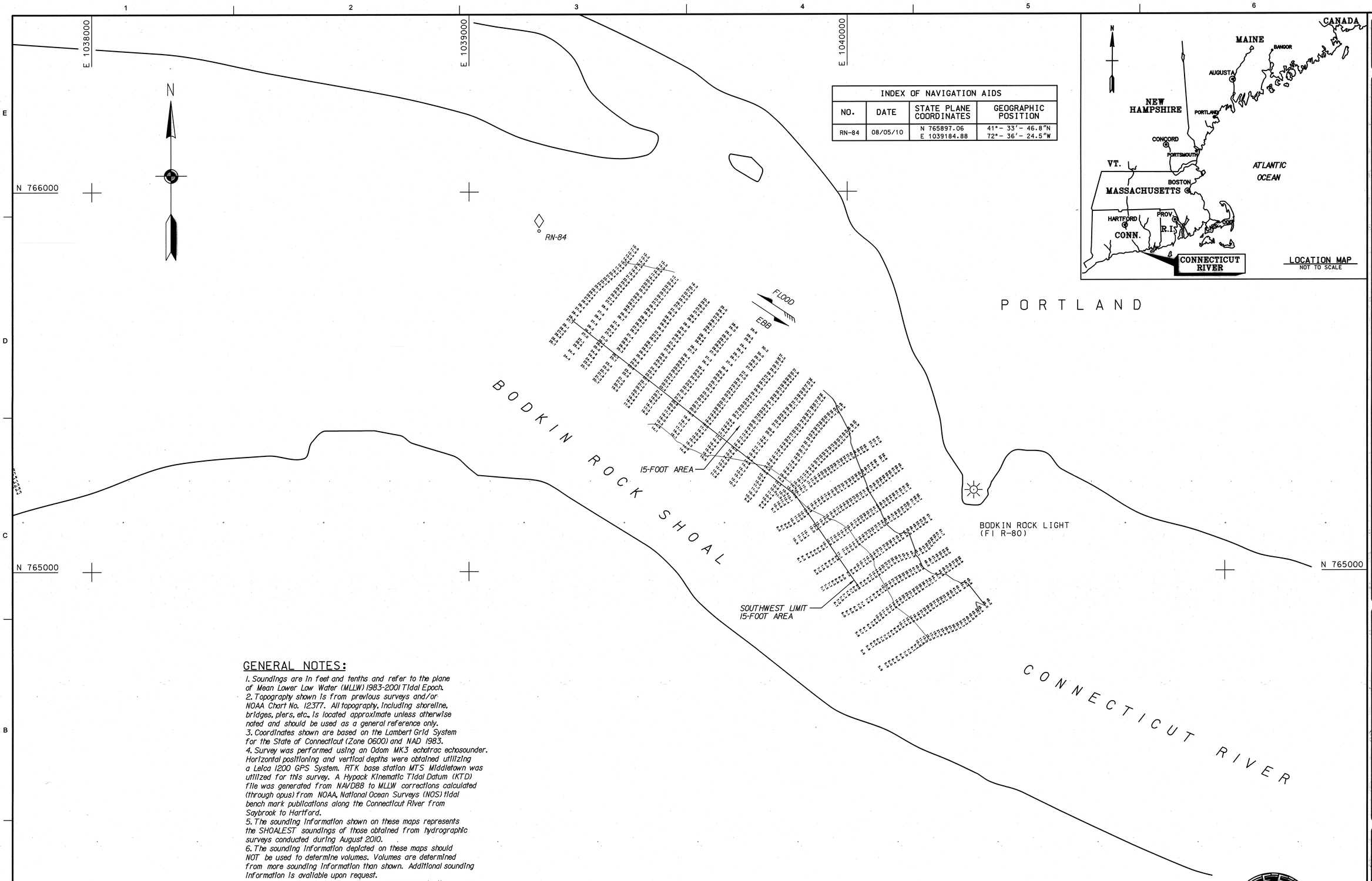
REVIEWED BY: Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE:
DWN BY: WWW
CKD BY:
DESIGN FILE: CRBHSP3.DGN
COORDINATE SYSTEM: NAD83
DRAWING CODE: CRB-100
1" = 100'
SIZE: ANSI F
DATE: 12/05/2011
FILE NAME: CRB100TV103.DGN

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

COBALT SHOAL AND PAPER ROCK SHOAL
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-103
SHEET 3 OF 3

SCANNED RECORD DEC 2011



INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-84	08/05/10	N 765897.06 E 1039184.88	41°- 33′- 46.8″N 72°- 36′- 24.5″W

LOCATION MAP
NOT TO SCALE

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. 12377. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
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6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4501
   15-foot depth contour shown thus: ———
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1127/01

PLAN
SCALE: 1" = 100'

GRAPHIC SCALE:
1" = 100'
100 0 100 200

SAFETY PAYS

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

DATE: 12/12/11
DWN BY: HWM
CKD BY: LRM
DESIGN FILE: DBSHSPLDGN
DRAWING CODE: CRD-1008
PLOT DATE: 12/12/2011
PLOT SCALE: 1" = 100'
FILE NAME: CBS1009V101.501
SIZE: ANSI F

REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section

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NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
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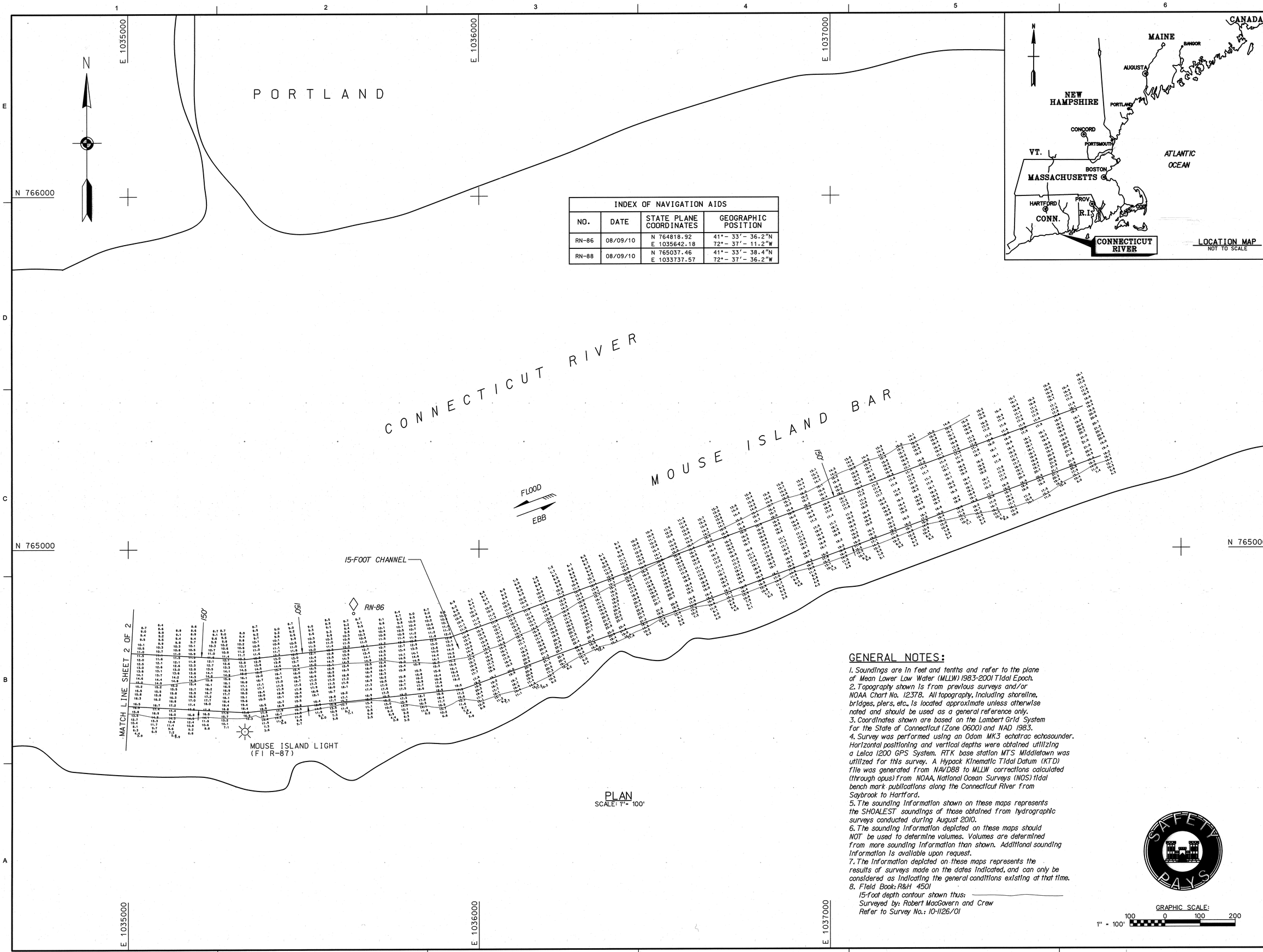
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

BODKIN ROCK SHOAL
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

SCANNED RECORD DEC. 2011



INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-86	08/09/10	N 764818.92 E 1035642.18	41°- 33′- 36.2″N 72°- 37′- 11.2″W
RN-88	08/09/10	N 765037.46 E 1033737.57	41°- 33′- 38.4″N 72°- 37′- 36.2″W

PLAN
SCALE: 1" = 100'

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. 12378. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during August 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4501
   15-foot depth contour shown thus: ————
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1126/01

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MARK	DESCRIPTION	DATE	APPR.

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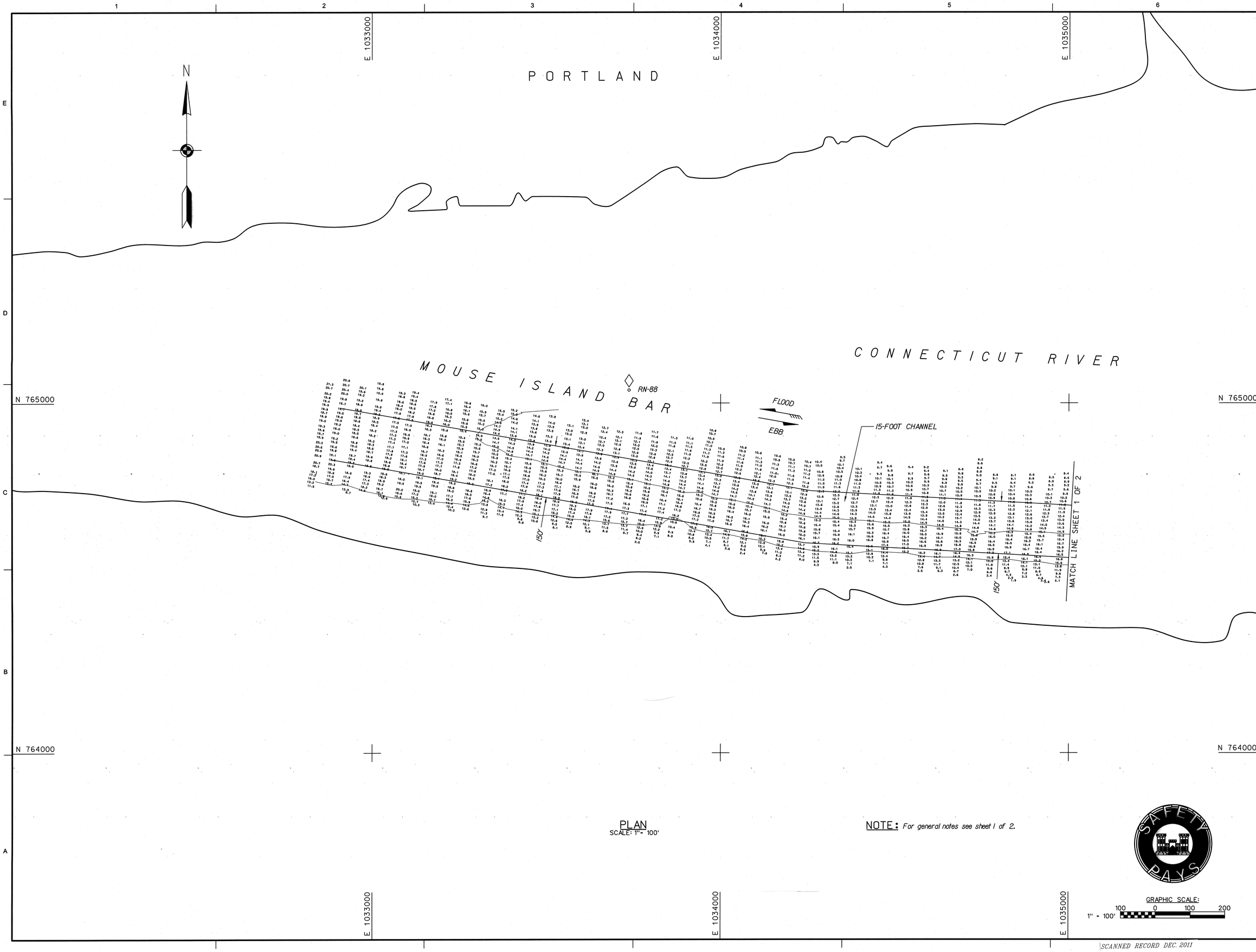
REVIEWED BY: Asst. Chief, Survey Section
DATE:
DWN BY: DWN
CKD BY: RDM
DESIGN FILE: CRBHSPS.DGN
PLOT SCALE: 1"=100'
PLOT DATE:
DRAWING CODE: CRB V002
FILE NAME: C:\SB\1009\101.501
SIZE: ANSI F

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

MOUSE ISLAND BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 2

SCANNED RECORD DEC. 2011



PLAN
SCALE: 1" = 100'

NOTE: *For general notes see sheet 1 of 2.*

GRAPHIC SCALE:
100 0 100 200
1" = 100'

SAFETY PAYS

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MARK	DESCRIPTION	DATE	APPR.

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REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section

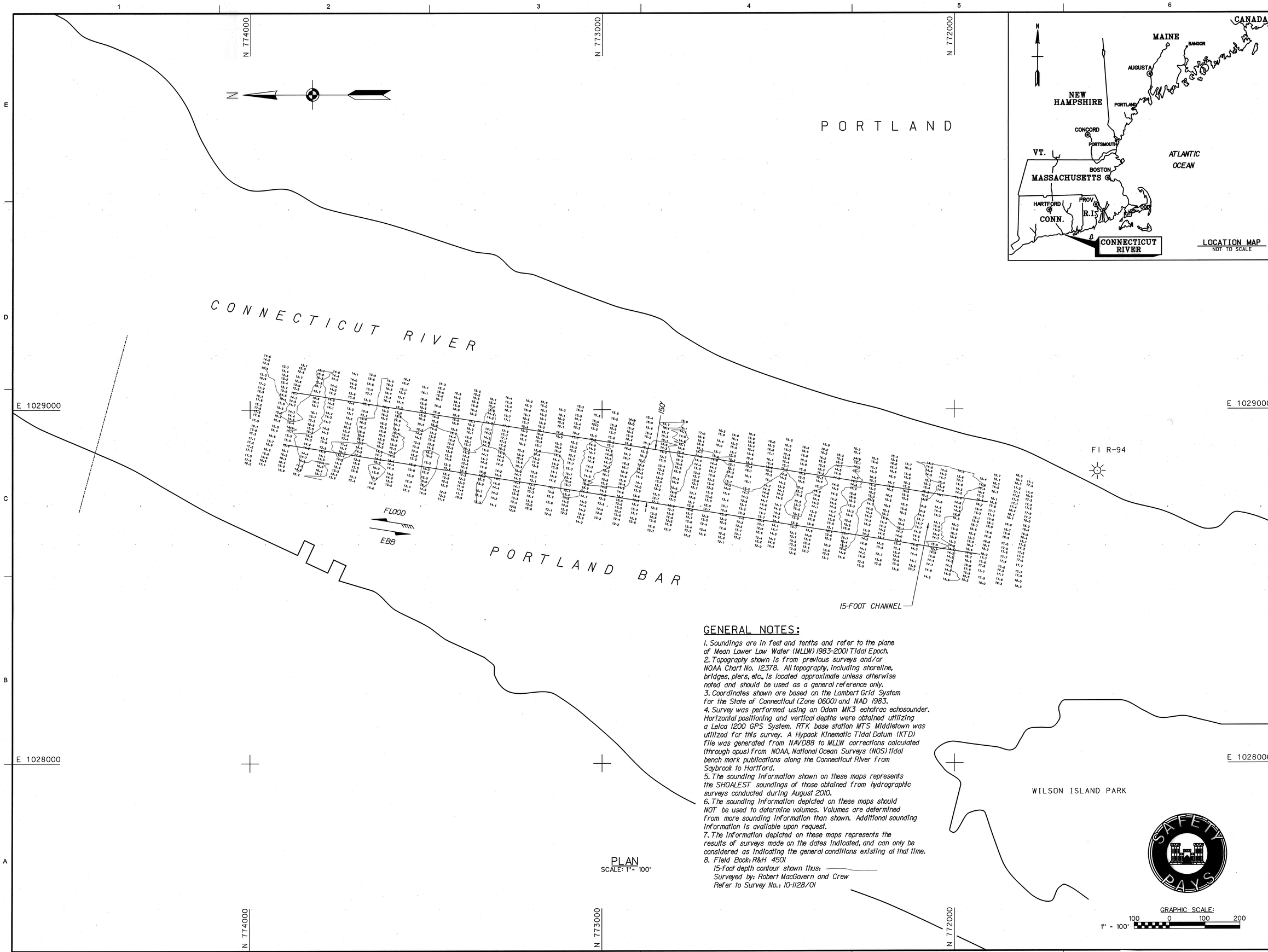
DATE: 12/1/11
DWN BY: WDS
CKD BY: MEM
DESIGN FILE: CRBHSF5.DGN
DRAWING CODE: CRB-1009
PLOT SCALE: 1" = 100'
PLOT DATE: 12/1/2011
SIZE: ANSI F
FILE NAME: CRB1009V102.502

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

MOUSE ISLAND BAR
CONTOUR SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-102
SHEET 2 OF 2

SCANNED RECORD DEC. 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. 12378. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during August 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4501

15-foot depth contour shown thus: ———

Surveyed by: Robert MacGovern and Crew

Refer to Survey No.: 10-1128/01

PLAN
SCALE: 1" = 100'

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MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

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

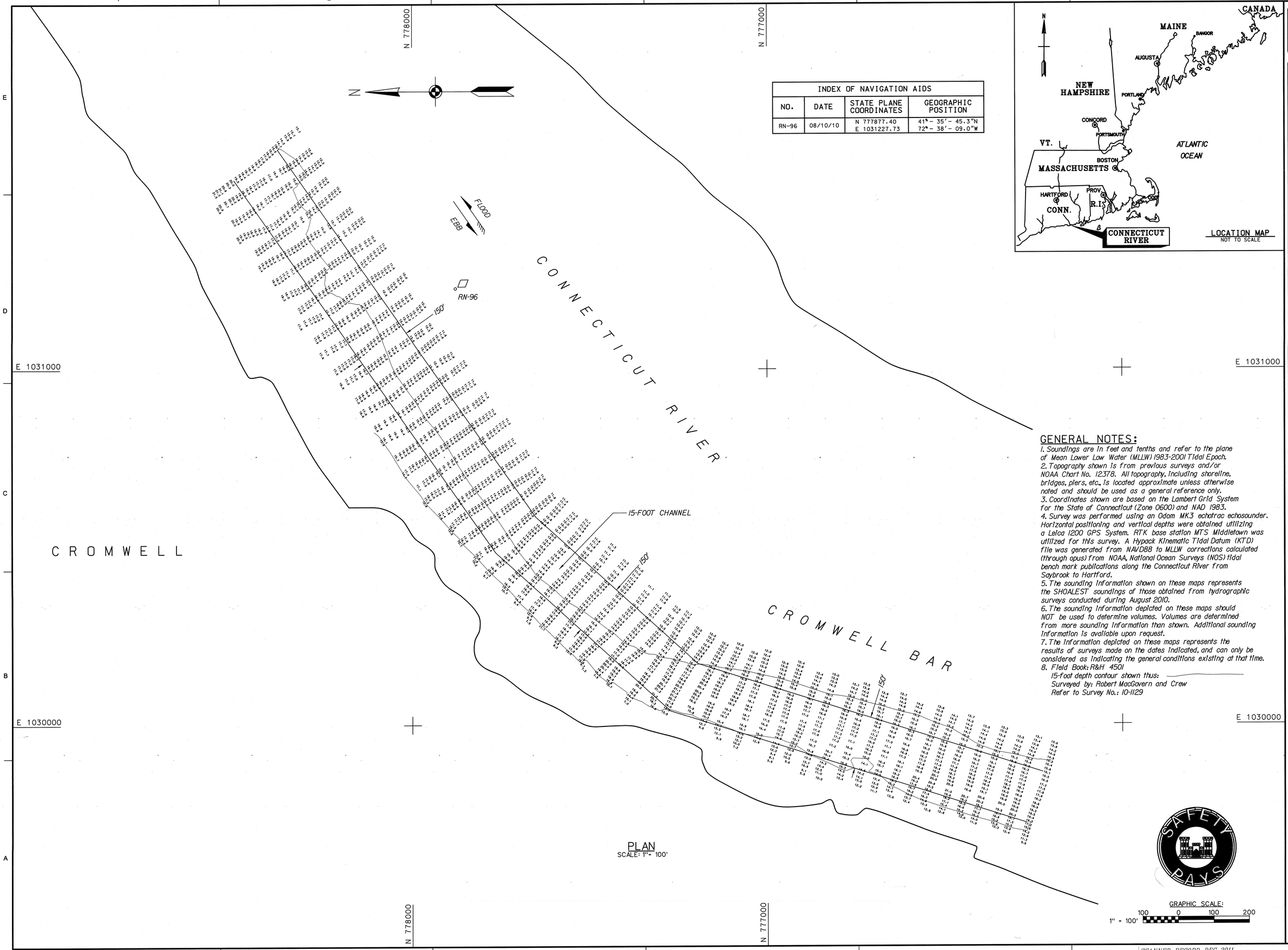
REVIEWED BY:
NED Chief, Survey Section
DATE:
DWN BY: WWB
CKD BY: WWB
DESIGN FILE: CRBHSPX.DGN
DRAWING CODE: HYDRO
PLOT SCALE: 1:1
PLOT DATE:
LEVEL: 1
LINEWT: 1
SIZE: ANSI F
FILE NAME: CRB1810V101.DGN

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

PORTLAND BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

SCANNED RECORD DEC. 2011



PLAN
SCALE: 1"= 100'

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-96	08/10/10	N 777877.40 E 1031227.73	41°- 35'- 45.3"N 72°- 38'- 09.0"W

LOCATION MAP
NOT TO SCALE

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. 12378. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during August 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4501

15-foot depth contour shown thus:
Surveyed by: Robert MacGovern and Crew
Refer to Survey No.: 10-1129

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

REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/14/11
DWN BY: WRW
CKD BY: MTM
DESIGN FILE: DESIGN FILEN
PLOT SCALE: 1" = 100'
PLOT DATE: 12/14/2011
DRAWING CODE: CRB-1011
SIZE: ANSI E
FILE NAME: 25091010 V-101.501

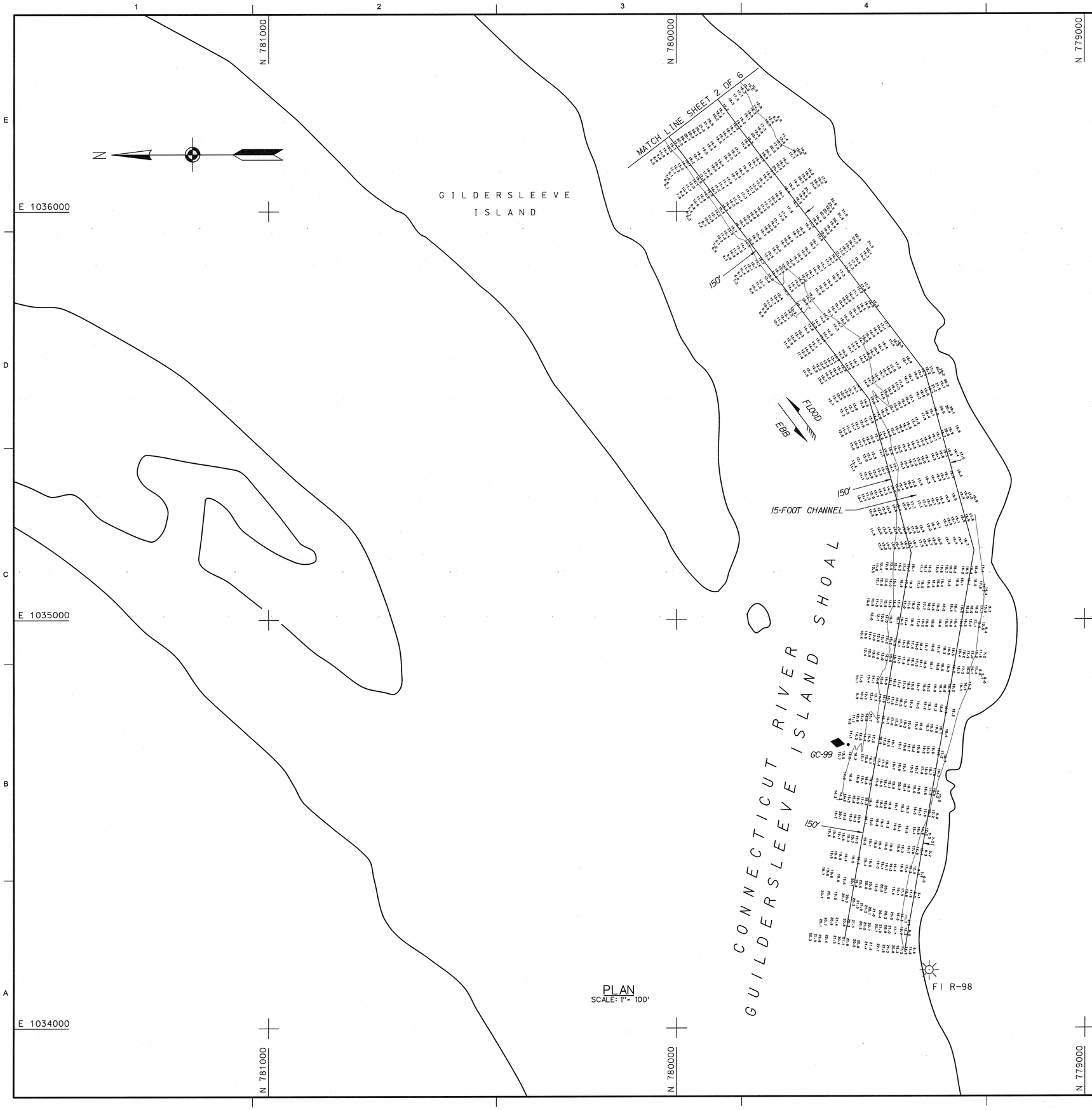
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

CROMWELL BAR
CONDITION SURVEY
15-FOOT CHANNEL

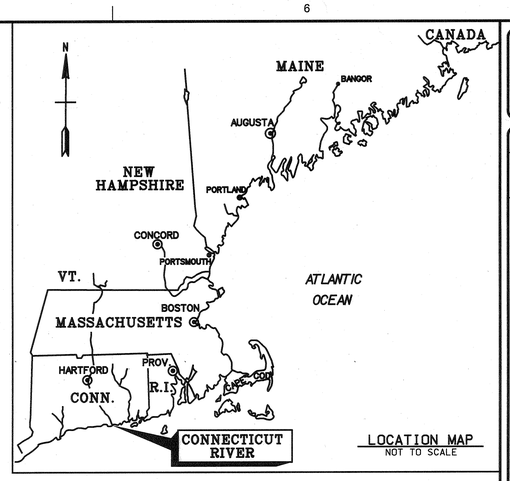
SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

SAFETY PAYS

SCANNED RECORD DEC. 2011



PLAN
SCALE: 1"= 100'



LOCATION MAP
NOT TO SCALE

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-99	08/16/10	N 779579.11 E 1034693.02	41°- 36′- 02.0″N 72°- 37′- 23.4″W
RN-104	08/19/10	N 784942.72 E 1035915.51	41°- 36′- 55.0″N 72°- 37′- 07.2″W
RN-106	08/24/10	N 789402.16 E 1032715.84	41°- 37′- 39.1″N 72°- 37′- 47.5″W

GILDERSLEEVE

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. 12378. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during August 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4501

15-foot depth contour shown thus: ————

Surveyed by: Robert MacGovern and Crew

Refer to Survey No.: 10-1130, 10-1131, 10-1132

SAFETY PAYS

GRAPHIC SCALE:
100 0 100 200
1" = 100'

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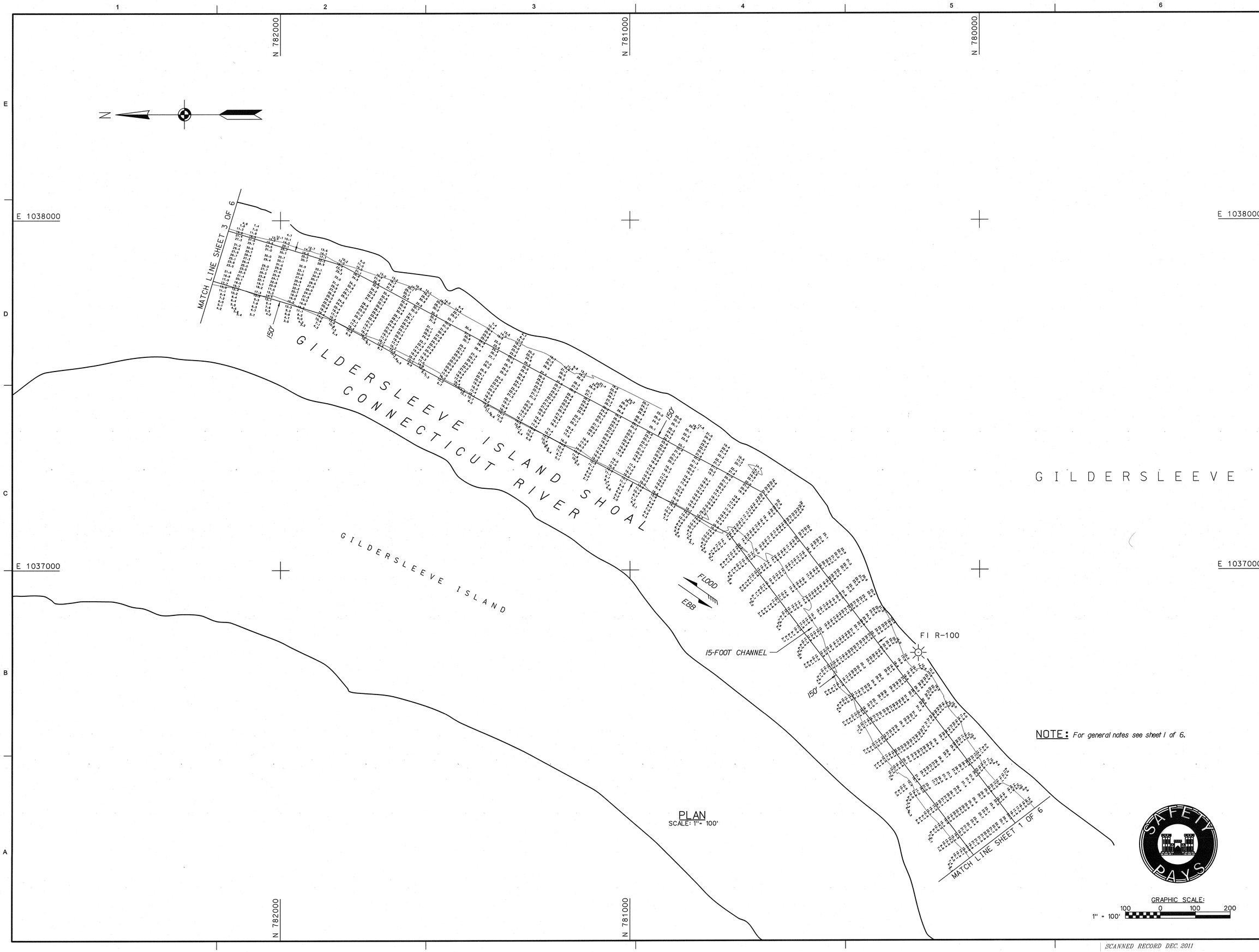
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/15/2011
DRAWN BY: WWM
CHECKED BY: MTM
DESIGN FILE: CRBH5PS.DGN
DRAWING CODE: CRB-1012
SCALE: 1" = 100'
PLOT DATE: 12/15/2011
SIZE: ANSI F
FILE NAME: CRB1012V101.001

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT
GILDERSLEEVE ISLAND SHOAL
PISTOL POINT BAR AND BROWNSTONE BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 6

SCANNED RECORD DEC. 2011



PLAN
SCALE: 1" = 100'

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

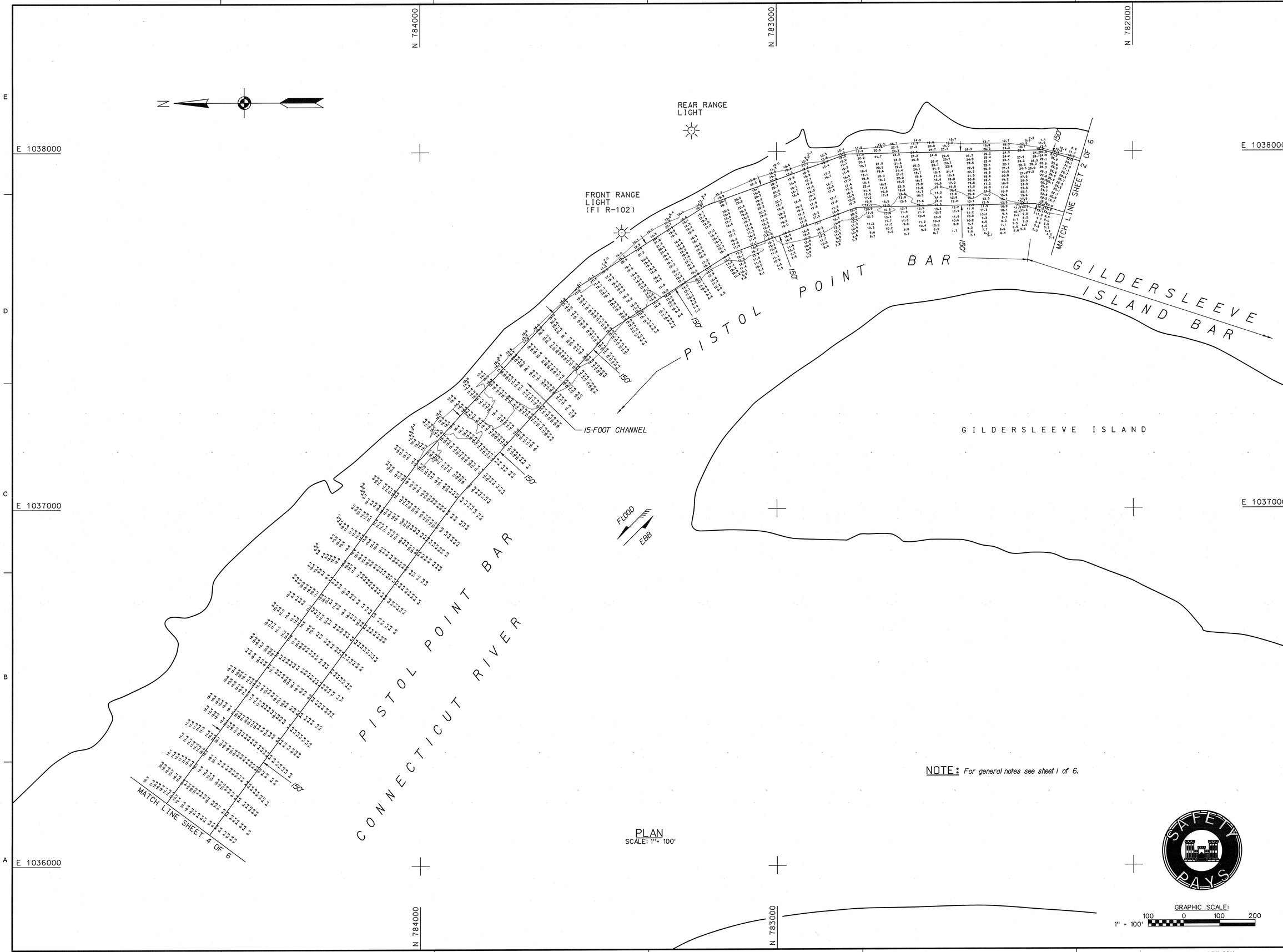
REVIEWED BY: Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/15/11
DWN BY: WWK
CKD BY: LPM
DESIGN FILE: CRMISP1.DGN
PLOT SCALE: 1" = 100'
PLOT DATE: 12/15/2011
SIZE: ANSI F
DGN CODE: CRB-1512
FILE NAME: CRB1912V102.S02

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT
GILDERSLEEVE ISLAND SHOAL
POINT BAR AND BROWNSTONE BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-102
SHEET 2 OF 6

SAFETY PAYS

SCANNED RECORD DEC. 2011



PLAN
SCALE: 1"= 100'

NOTE: *For general notes see sheet 1 of 6.*

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MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
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www.nae.usace.army.mil

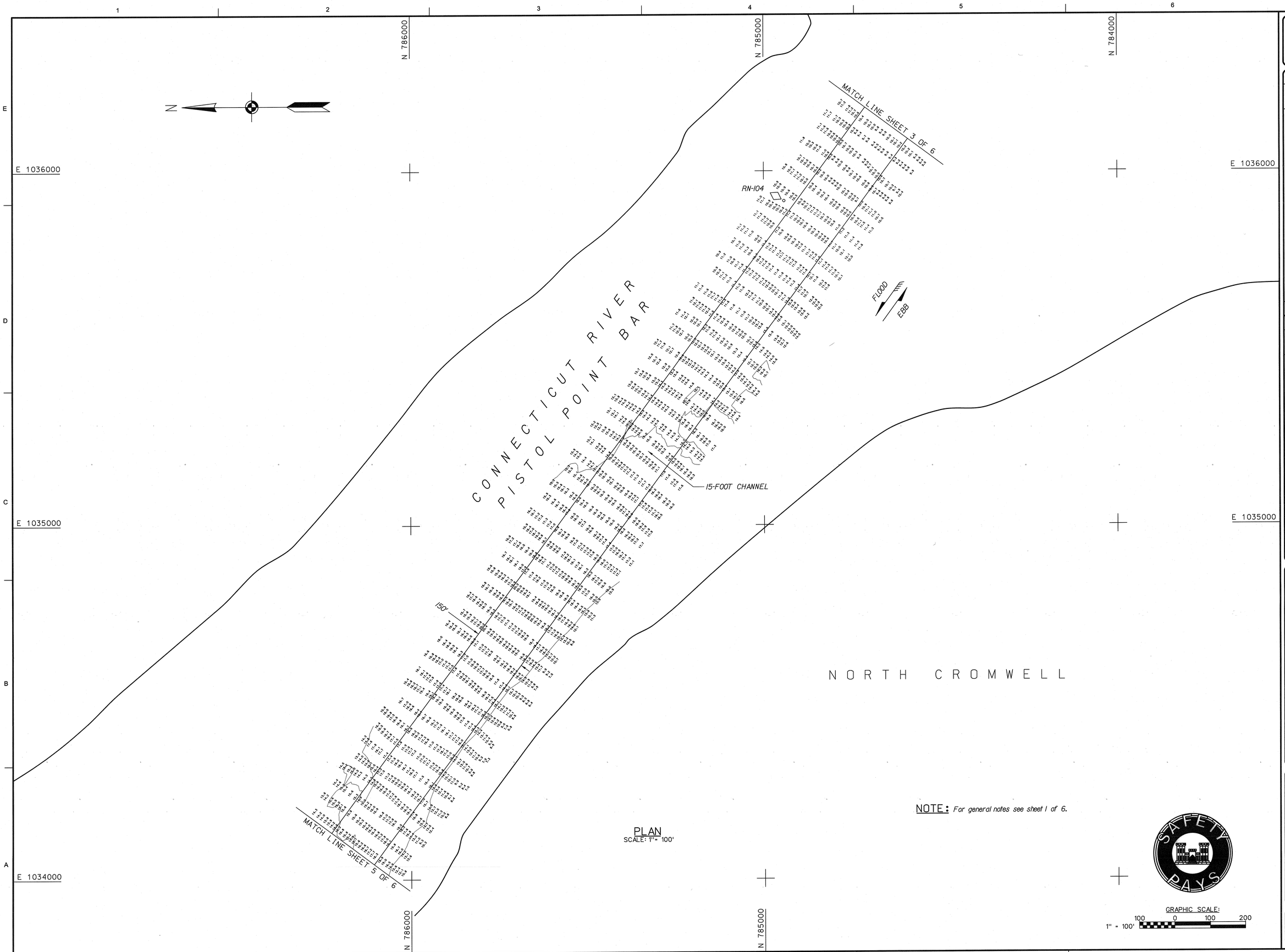
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE:
SIZE: ANSI F
FILE NAME: CRB1012V103.S03
DATE:
DWN BY: WMB
CKD BY: WMB
DESIGN FILE: CRBHSP3.DGN
DRAWING CODE: [illegible]

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT
GILDERSLEEVE ISLAND SHOAL
PISTOL POINT BAR AND BROWNSTONE BAR
CONTROL SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-103
SHEET 3 OF 6

SAFETY PAYS

SCANNED RECORD DEC. 2011



PLAN
SCALE: 1" = 100'

NOTE: *For general notes see sheet 1 of 6.*

SAFETY PAYS

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
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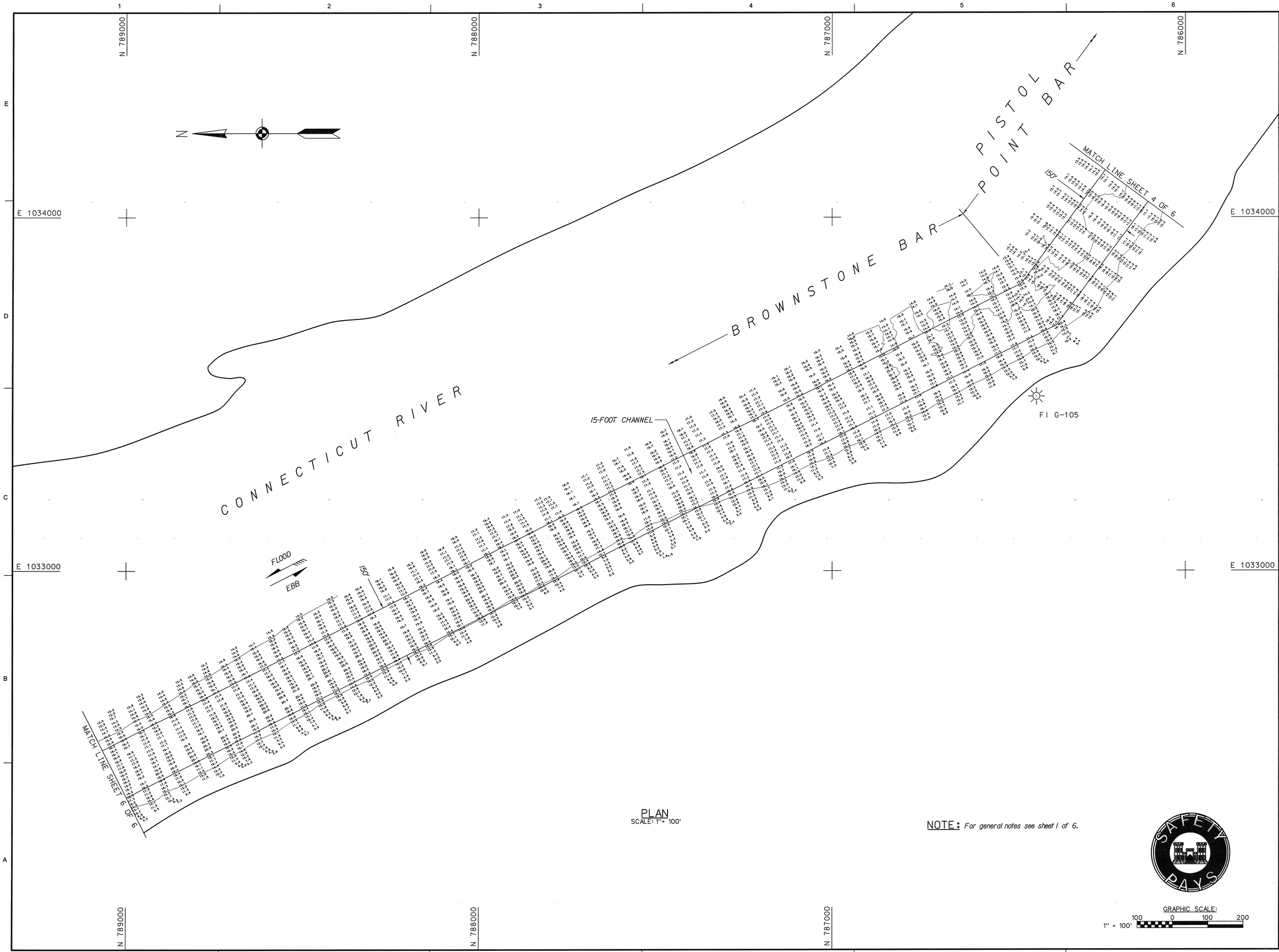
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/1/06
DWN BY: Warren
CKD BY: LRTM
DESIGN FILE: CRBHSP3.DGN
PLOT SCALE: 1" = 100'
PLOT DATE: 11/30/2011
DRAWING CODE: CRB-1012
SIZE: ANSI F
FILE NAME: CRB10123V104.S04

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT
GILDERSLEEVE ISLAND SHOAL
PISTOL POINT BAR AND BROWNSTONE BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-104
SHEET 4 OF 6

SCANNED RECORD DEC. 2011



PLAN
SCALE: 1" = 100'

NOTE: *For general notes see sheet 1 of 6.*

GRAPHIC SCALE:
1" = 100'
100 0 100 200

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MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
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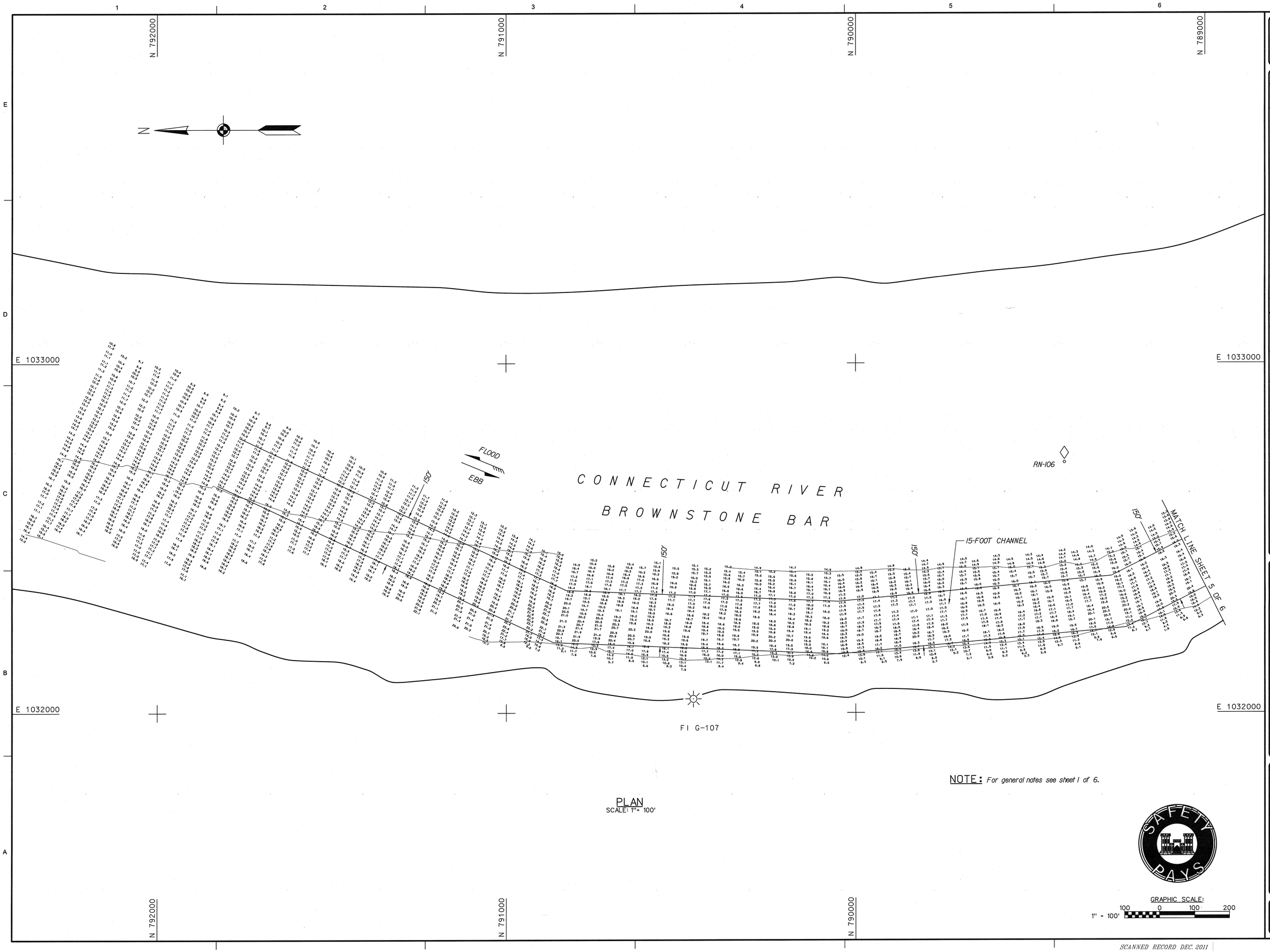
REVIEWED BY: Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/14/11
DWN BY: MAC
CKD BY: MAC
DESIGN FILE: CRBHSR1.DGN
DRAWING CODE: CRB-SR2
SCALE: 1" = 100'
PROJ. DATE: 12/15/2011
SIZE: ANSI F
FILE NAME: CRB1012V105.SDS

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT
GILDERSLEEVE ISLAND SHOAL
PISTOL POINT BAR AND BROWNSTONE BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-105
SHEET 5 OF 6

SAFETY PAYS

SCANNED RECORD DEC. 2011



NOTE: *For general notes see sheet 1 of 6.*

PLAN
SCALE: 1" = 100'

GRAPHIC SCALE:
100 0 100 200
1" = 100'

SAFETY PAYS

US Army Corps of Engineers®
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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: Nicholas Pinaud, Survey Section
SUBMITTED BY: Nicholas Pinaud
Chief, Survey Section
SCALE: 1" = 100'
DATE: 12/15/2011
SIZE: ANSI F
DATE: 12/15/11
DWN BY: WW
DESIGN FILE: CRBHSP0.dgn
ORIGINAL PROJECT DATE: 12/15/2011
PROJECT NO./WBS CODE: CRB-1012
FILE NAME: CRB1012V106.dgn

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

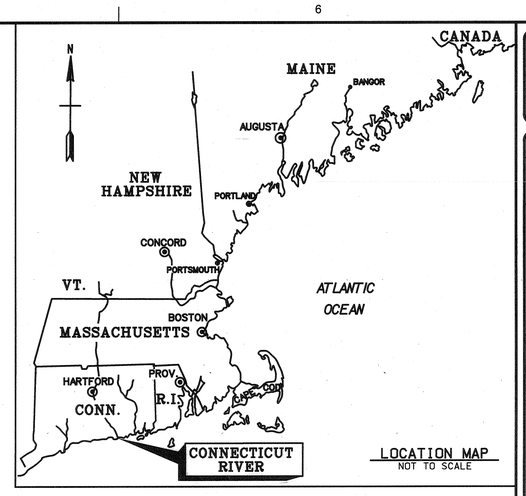
GILDERSLEEVE ISLAND SHOAL
PISTOL POINT BAR AND BROWNSTONE BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-106
SHEET 6 OF 6

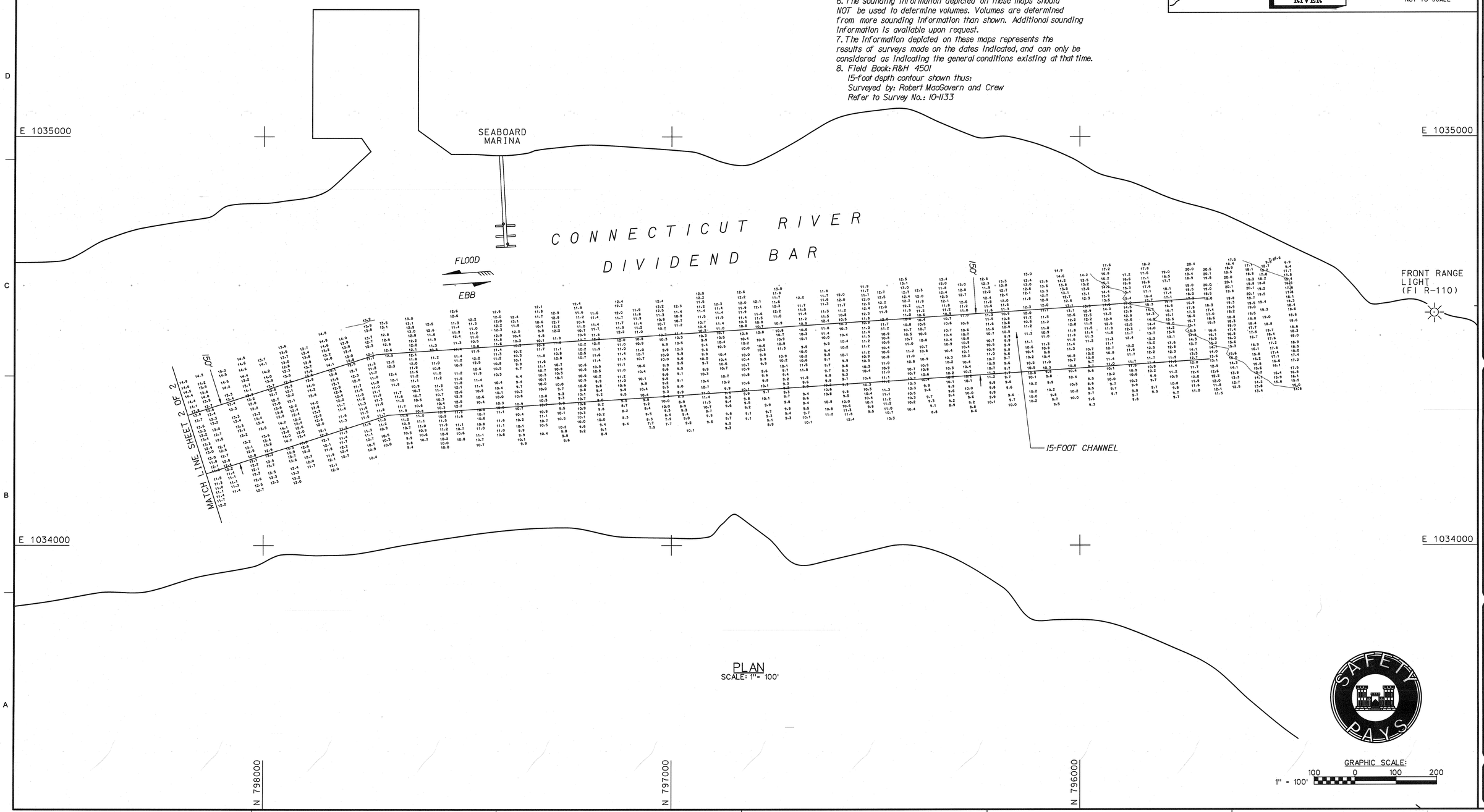
SCANNED RECORD DEC. 2011

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. 12378. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during August 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4501
   15-foot depth contour shown thus:
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1133



LOCATION MAP
NOT TO SCALE



PLAN
SCALE: 1" = 100'

GRAPHIC SCALE:
1" = 100'
100 0 100 200

US Army Corps of Engineers®
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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: Project Surveyor
SUBMITTED BY: Chief, Survey-Mapping
DATE: 12/14/2011
DWN: MTM
CKD: MTM
DESIGN FILE: CRBHSPS.DGN
DRAWING CODE: CRB1101S
PLOT SCALE: 1" = 100'
PLOT DATE: 12/14/2011
SIZE: ANSI F
FILE NAME: CRB1013V101.501

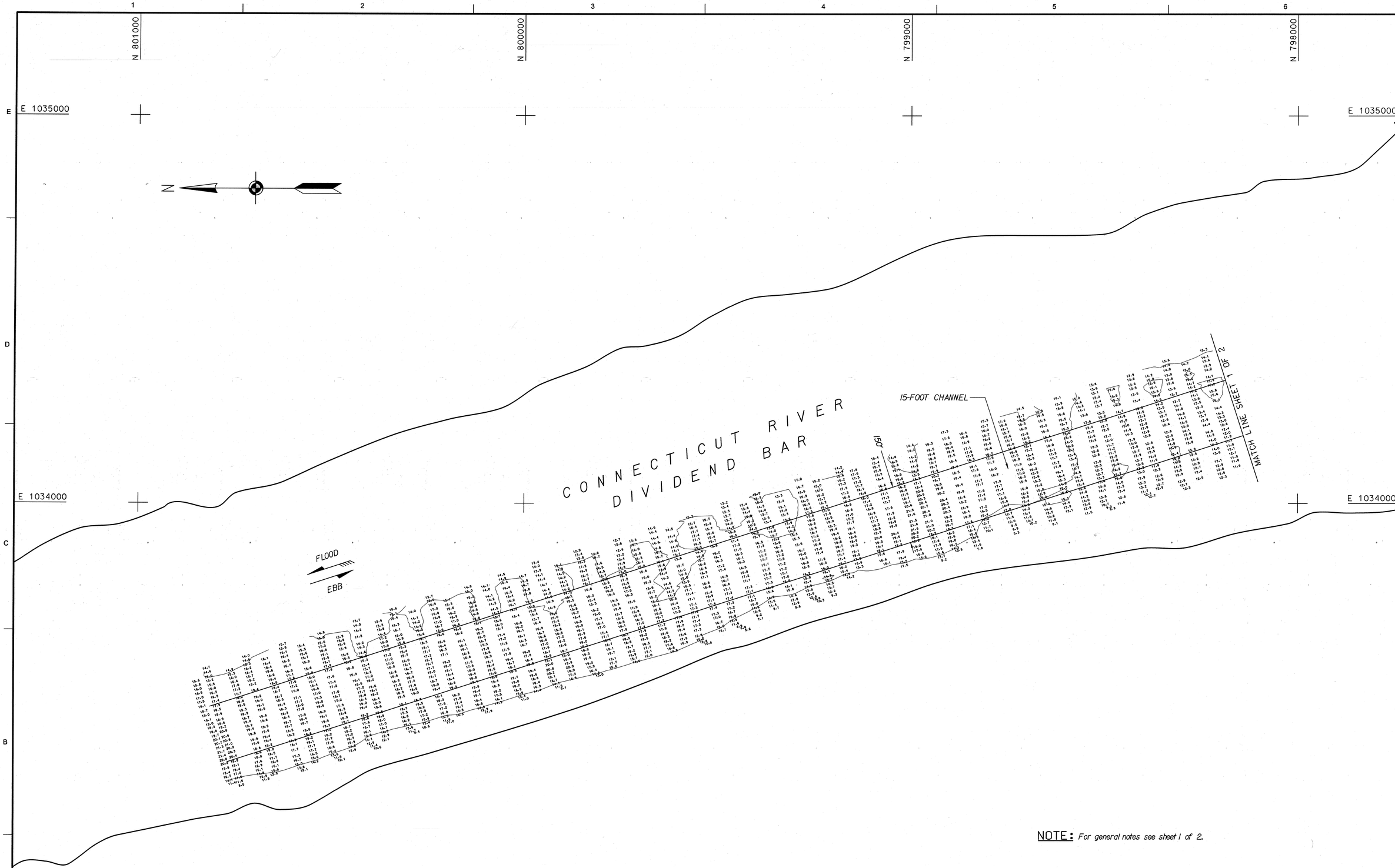
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

DIVIDEND BAR
CONTOUR SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 2

SAFETY PAYS

SCANNED RECORD DEC. 2011



NOTE: *For general notes see sheet 1 of 2.*

PLAN
SCALE: 1" = 100'

GRAPHIC SCALE:
1" = 100'
100 0 100 200

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MARK	DESCRIPTION	DATE	APPR.

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

REVIEWED BY: Chief, Engineering Division
SUBMITTED BY: Chief, Survey Section
DATE: 12/01/20
DWN BY: CRB
CKD BY: MMD
DESIGN FILE: CRBHSP3.DGN
DRAWING CODE: CRB-1019
PLOT SCALE: 1" = 100'
PLOT DATE: 12/01/2011
SIZE: ANSI F
FILE NAME: CRB10193V102.S02

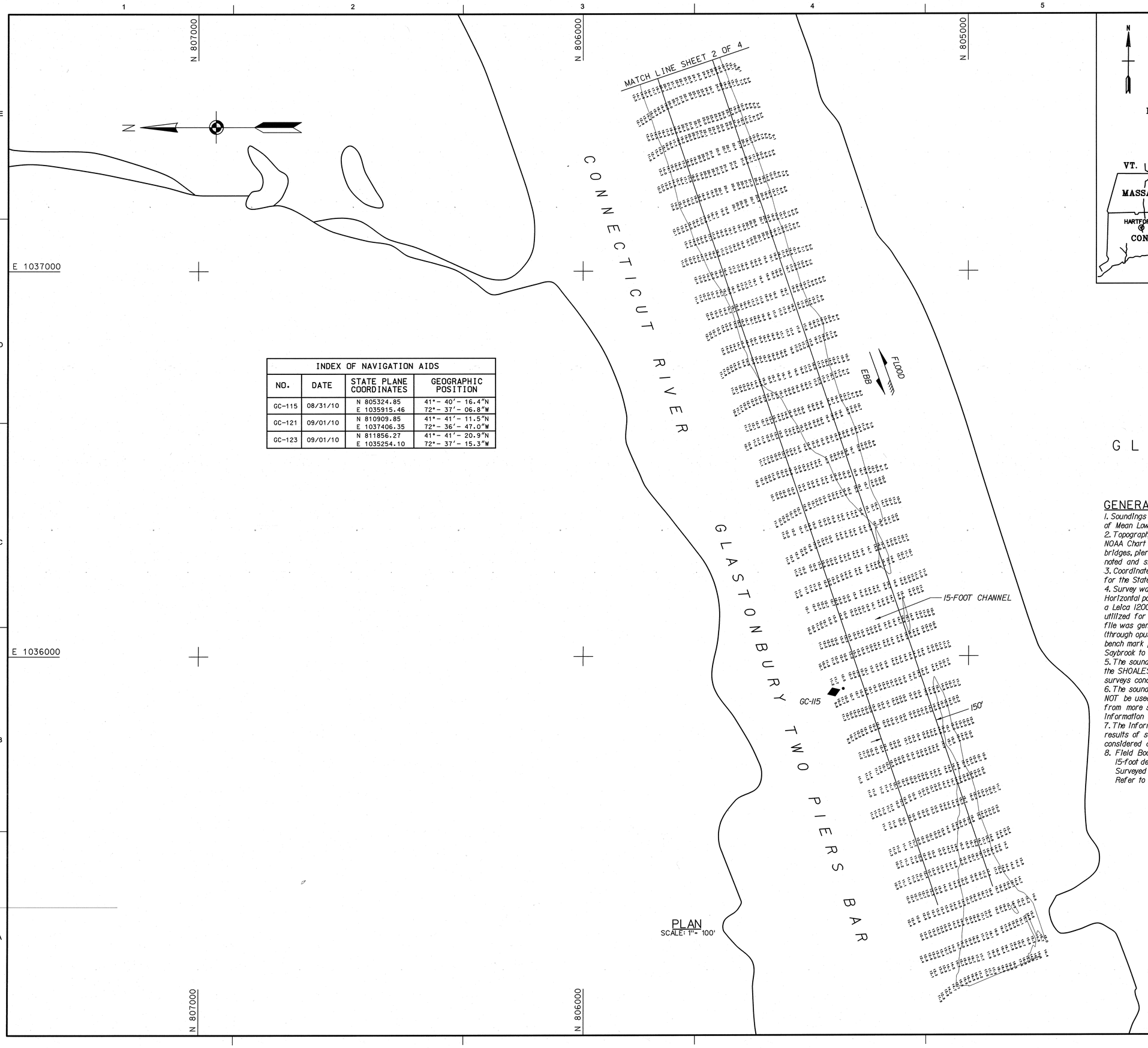
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

DIVIDEND BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-102
SHEET 2 OF 2

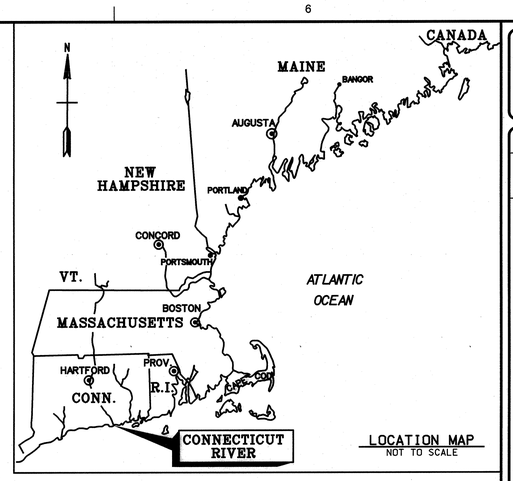
SAFETY PAYS

SCANNED RECORD DEC. 2011



PLAN
SCALE: 1"= 100'

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-115	08/31/10	N 805324.85 E 1035915.46	41°- 40′- 16.4″N 72°- 37′- 06.8″W
GC-121	09/01/10	N 810909.85 E 1037406.35	41°- 41′- 11.5″N 72°- 36′- 47.0″W
GC-123	09/01/10	N 811856.27 E 1035254.10	41°- 41′- 20.9″N 72°- 37′- 15.3″W



LOCATION MAP
NOT TO SCALE

SOUTH GLASTONBURY

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. 12378. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during August and September 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4501
   15-foot depth contour shown thus:
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1134, and 10-1135

GRAPHIC SCALE:
1" = 100'
100 0 100 200

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MARK	DESCRIPTION	DATE	APPR.

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

REVIEWED BY: Robert T. Dewey, Survey Section
SUBMITTED BY: Michael T. Rizzo, Chief Survey Section
DATE: 12/16/10
DRAWN BY: WWK
VERIFIED BY:
DESIGN FILE: CRBISHPS.DGN
DRAWING CODE: CRB1014
PLOT SCALE: 1" = 100'
PLOT DATE: 12/16/2011
SIZE: ANSI F
FILE NAME: CRB1014V101.001

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

GLASTONBURY TWO PIERS BAR
AND GLASTONBURY PIERS BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 4

SAFETY PAYS

SCANNED RECORD DEC. 2011

NOTE: *For general notes see sheet 1 of 4.*

PLAN
SCALE: 1" = 100'

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MARK	DESCRIPTION	DATE	APPR.

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NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Michael J. Rochefort
SUBMITTED BY: Chief, Survey Section
DATE: 12/16/2011
SCALE: 1" = 100'
SIZE: ANSI E
DATE:
DWN BY: WWW
DES BY: MTM
DESIGN FILE: DBSHIP3.DGN
DRAWING CODE: CRB-1014
FILE NAME: CRB1014V102.DGN

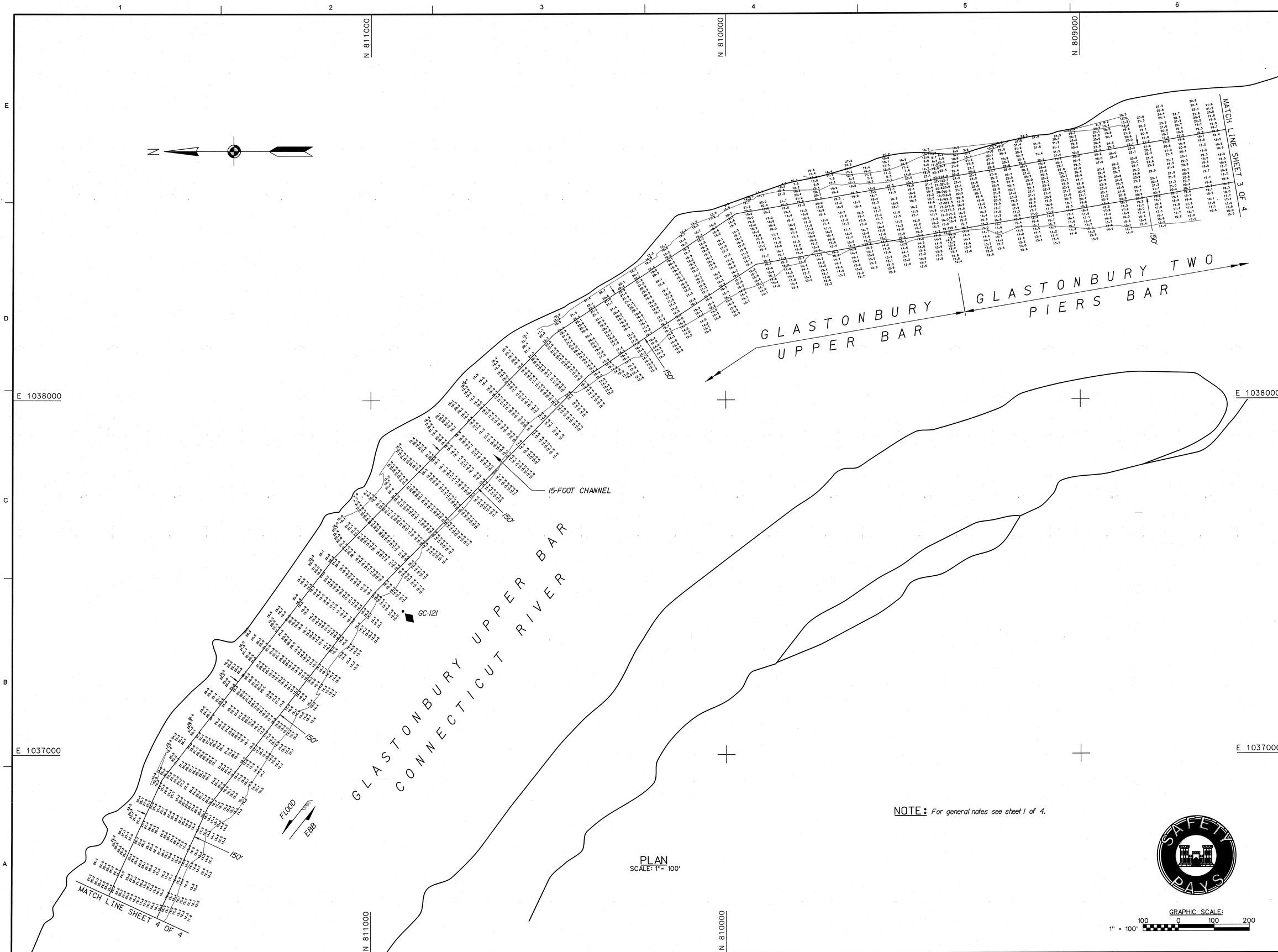
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

GLASTONBURY TWO PIERS BAR
AND GLASTONBURY UPPER BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-102
SHEET 2 OF 4

SAFETY PAYS

SCANNED RECORD DEC. 2011



PLAN
SCALE: 1" = 100'

NOTE: *For general notes see sheet 1 of 4.*

GRAPHIC SCALE:
100 0 100 200
1" = 100'

SAFETY PAYS

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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

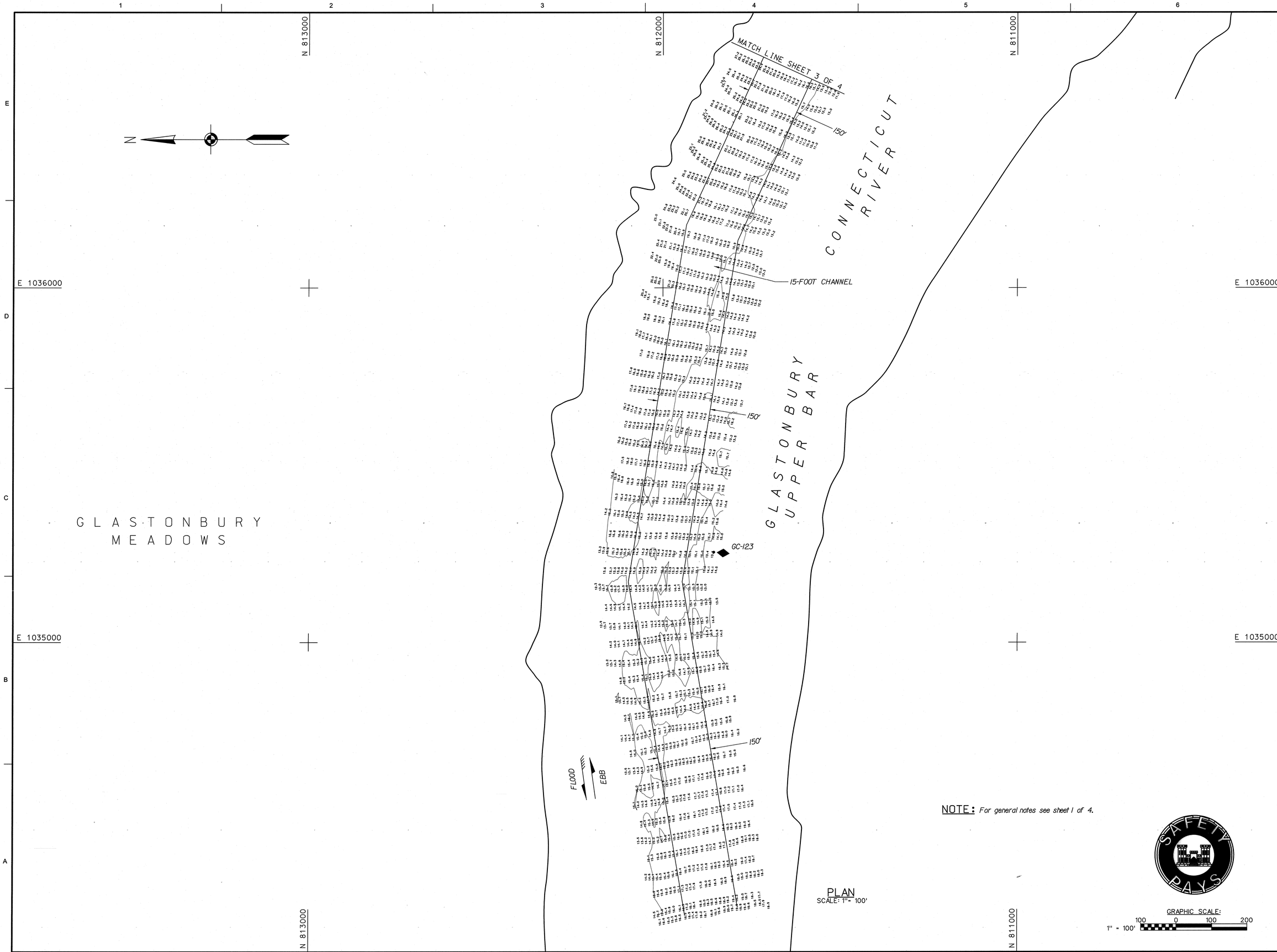
REVIEWED BY: Project Engineer / Section Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/12/11
DRAWN BY: WVM
DESIGN FILE: CRB15HS.DGN
DATE: 12/12/11
DESIGN CODE: CRB-15HS
PLOT SCALE: 1" = 100'
PLOT DATE: 12/16/2011
SIZE: ANSI F
FILE NAME: CRB15HSV103.SO3

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

GLASTONBURY TWO PIERS BAR
AND GLASTONBURY UPPER BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-103
SHEET 3 OF 4

SCANNED RECORD DEC. 2011



PLAN
SCALE: 1" = 100'

NOTE: *For general notes see sheet 1 of 4.*

GRAPHIC SCALE:
100 0 100 200
1" = 100'

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MARK	DESCRIPTION	DATE	APPR.

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

REVIEWED BY: Craig S. Wilson
SUBMITTED BY: Chief, Navigation Section
DATE: 12/16/09
DWN BY: WAW
CKD BY: MTM
DESIGN FILE: 0000-0000-00
PLOT SCALE: 1" = 100'
PLOT DATE: 12/16/2011
DRAWING CODE: CRB-1014
SIZE: ANSI D
FILE NAME: CRB0101V104.S04

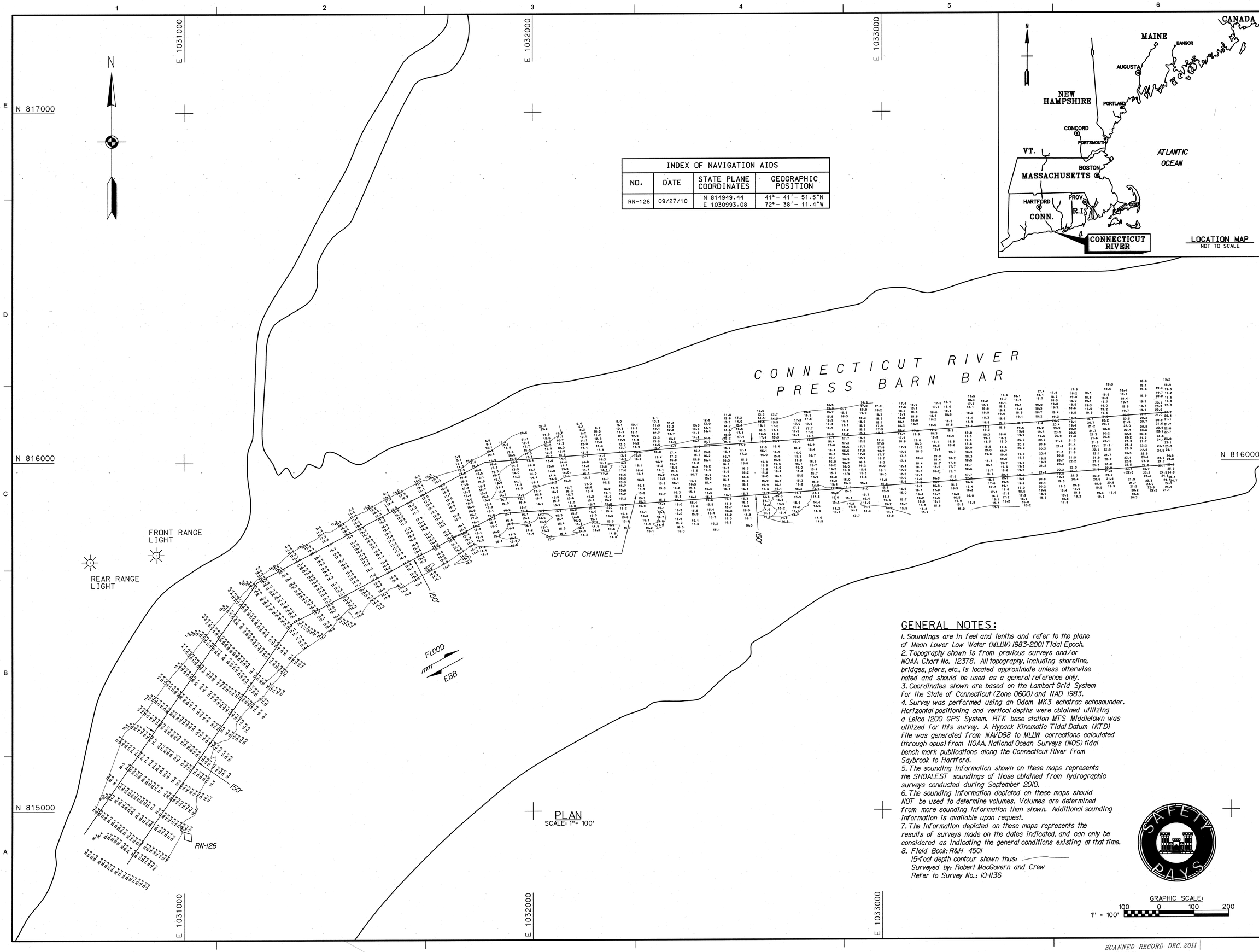
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

GLASTONBURY TWO PIERS BAR
AND GLASTONBURY UPPER BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-104
SHEET 4 OF 4

SAFETY PAYS

SCANNED RECORD DEC 2011



INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-126	09/27/10	N 814949.44 E 1030993.08	41°- 41'- 51.5"N 72°- 38'- 11.4"W

PLAN
SCALE: 1"= 100'

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. 12378. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during September 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4501
   15-foot depth contour shown thus: ———
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1136

SAFETY PAYS

GRAPHIC SCALE:
100 0 100 200
1" = 100'

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NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

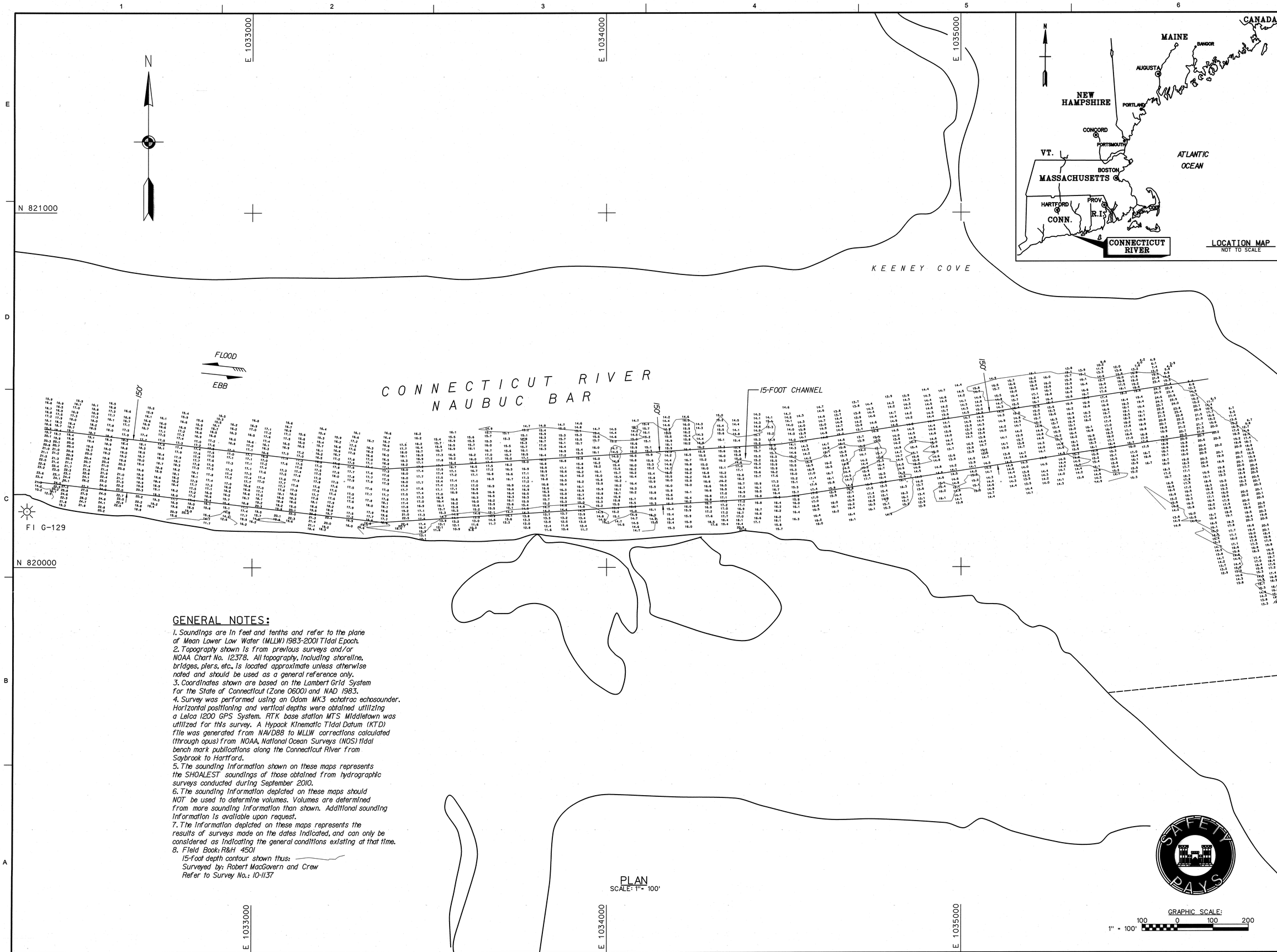
DATE: 12/16/10
REVIEWED BY: Field Coast Survey Section
DWN BY: WHW
CKD BY: MTM
SUBMITTED BY: Chief, Coast Survey Section
DESIGN FILE: 0000101010.dgn
DRAWING NO.: 0000101010-001
PLOT SCALE: 1" = 100'
PLOT DATE: 12/16/2011
DRAWING CODE: CRB-1015
SIZE: ANSI E
FILE NAME: 0000101010-001

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

PRESS BARN BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

SCANNED RECORD DEC. 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. 12378. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during September 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4501
   15-foot depth contour shown thus:
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1137

PLAN
SCALE: 1" = 100'

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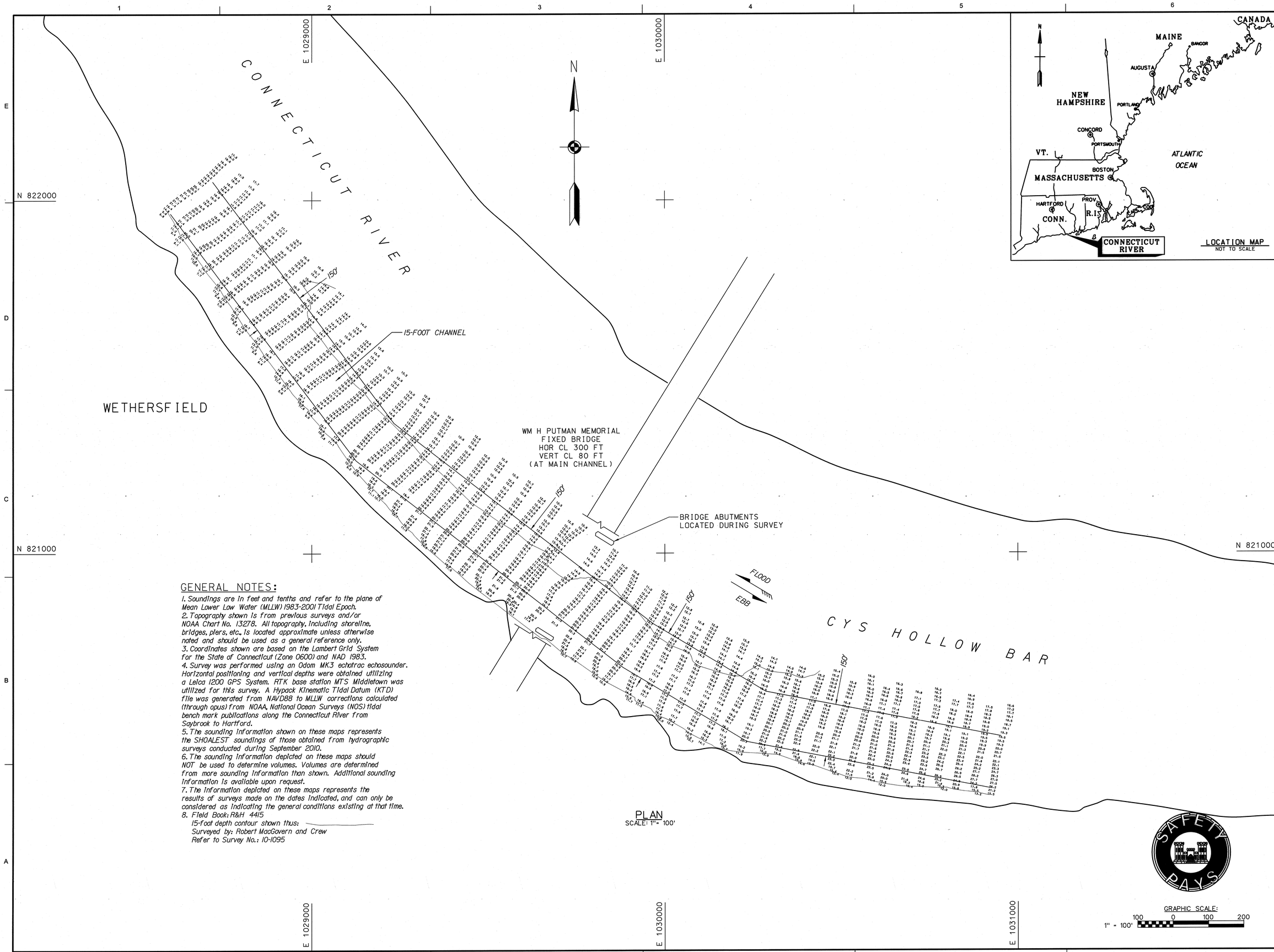
REVIEWED BY: Supervisory Hydrographer
Sub. Chief, Survey Section
Chief, Survey Section

DATE: 12/16/10
DWN BY: MW
CKD BY: MW
DESIGN FILE: CRSHSP3.DGN
DRAWING CODE: CRS-TYP2
PLOT DATE:
PLOT SCALE:
PLOT BY:
SIZE: ANSI F
FILE NAME: C2010105V101.S01

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

NAUBUC BAR
CONTOUR SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 1



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. 13278. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during September 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4415
   15-foot depth contour shown thus: ———
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1095

PLAN
SCALE: 1" = 100'

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CONCORD, MASSACHUSETTS
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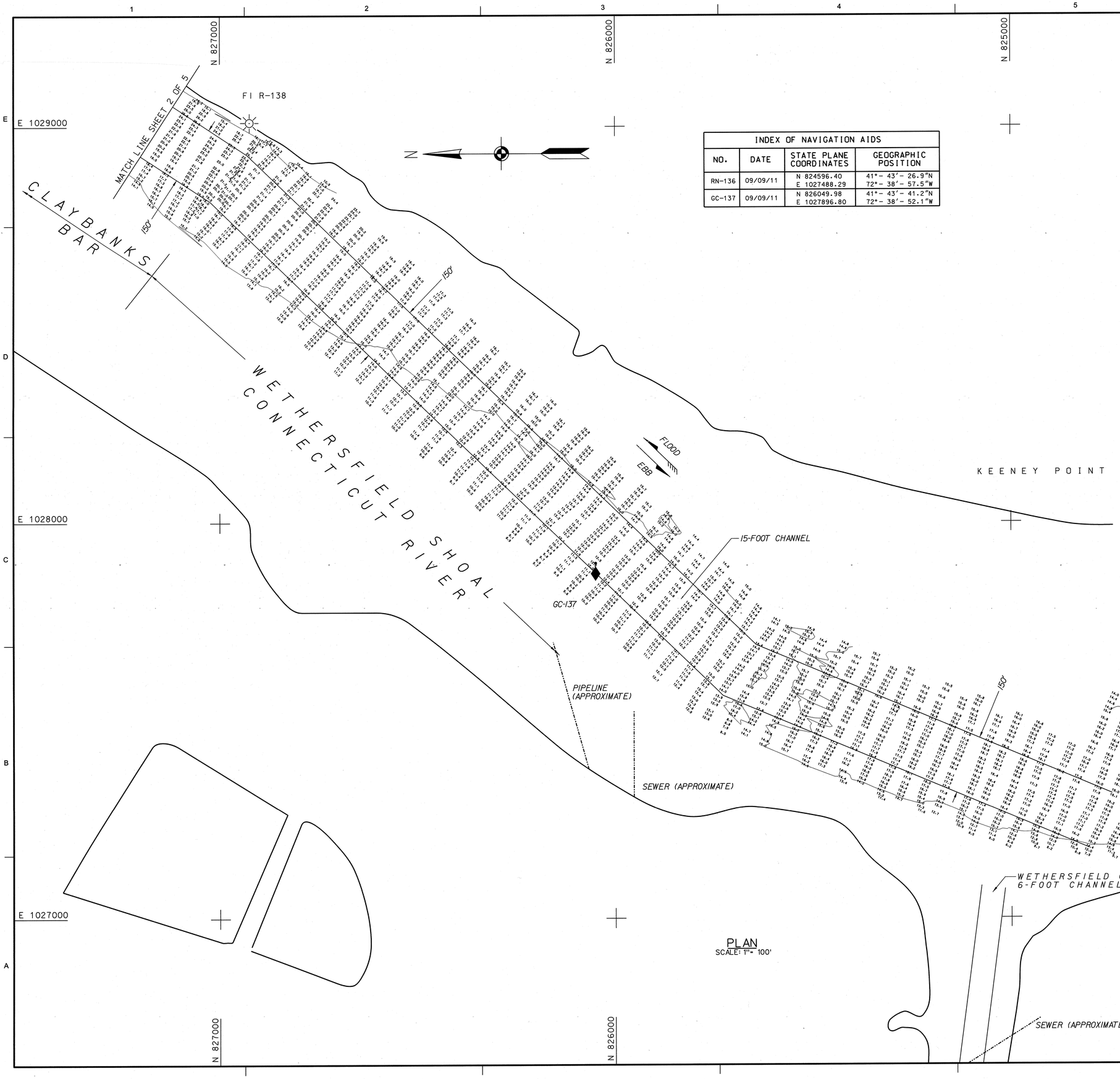
REVIEWED BY: Alan Lawson
SUBMITTED BY: Michael T. Mulvey
PLOT SCALE: 1" = 100'
PLOT DATE: 12/15/2011
SIZE: ANSI E
DATE: 12/14/11
DWN BY: WWW
CKD BY: MTM
DESIGN FILE: CRB-1037.dgn
DRAWING CODE: CRB-1037
FILE NAME: C:\SURVEY\V101.001

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

CYS HOLLOW BAR
CONDITION SURVEY
15-FOOT CHANNEL

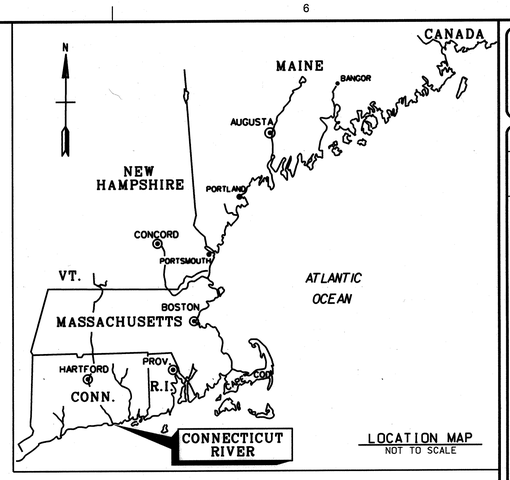
SHEET IDENTIFICATION
V-101
SHEET 1 OF 1

SCANNED RECORD DEC. 2011



PLAN
SCALE: 1" = 100'

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-136	09/09/11	N 824596.40 E 1027488.29	41°- 43′- 26.9″N 72°- 38′- 57.5″W
GC-137	09/09/11	N 826049.98 E 1027896.80	41°- 43′- 41.2″N 72°- 38′- 52.1″W



LOCATION MAP
NOT TO SCALE

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. 12378. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
4. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station MTS Middletown was utilized for this survey. A Hypack Kinematic Tidal Datum (KTD) file was generated from NAVD88 to MLLW corrections calculated (through opus) from NOAA, National Ocean Surveys (NOS) tidal bench mark publications along the Connecticut River from Saybrook to Hartford.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during September 2010.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
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 general conditions existing at that time.
8. Field Book: R&H 4501
   15-foot depth contour shown thus:
   Surveyed by: Robert MacGovern and Crew
   Refer to Survey No.: 10-1139, 10-1140, 10-1041, and 10-1042

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REVIEWED BY: Paul Gaudet, Jr. P.E. Chief, Coastal Section
SUBMITTED BY: Daniel T. Doucette Chief, Operations Division
PLOT SCALE: 1" = 100'
PLOT DATE: 12/15/2011
SIZE: ANSI F
DATE: 12/15/11
DWN BY: WHW
CKD BY: MTM
DESIGN FILE: CT0910TOPO.dgn
DRAWING CODE: CRB-1918
FILE NAME: CB0910TOPO.001

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

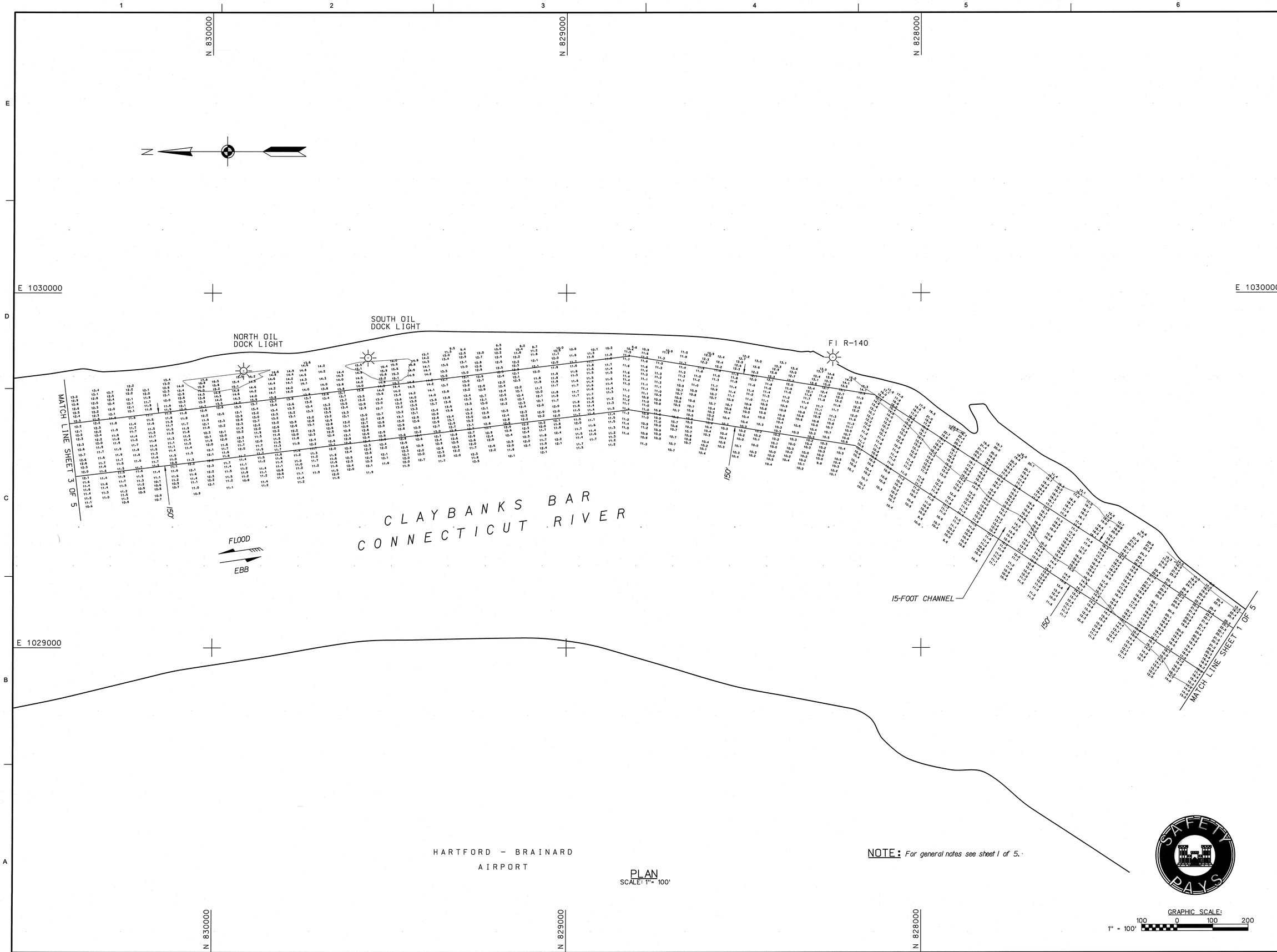
WETHERSFIELD SHOAL, CLAYBANKS BAR,
CLAYBANKS UPPER BAR, & HARTFORD BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 5

SAFETY PAYS

GRAPHIC SCALE:
100 0 100 200
1" = 100'

SCANNED RECORD DEC. 2011



PLAN
SCALE: 1" = 100'

NOTE: *For general notes see sheet 1 of 5.*

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MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

DATE: 12/16/11
CKD BY: MTM
DWN BY: WHW
DESIGN FILE: CRBHRTFORD
DRAWING CODE: CRB-1018
PLOT DATE: 12/16/2011
PLOT SCALE: 1" = 100'
SIZE: ANSI E
FILE NAME: CRBHRTFORD.552

REVIEWED BY: Chief, Coastal & Hydraulics Section
SUBMITTED BY: Chief, Survey Section

U.S. ARMY CORPS OF ENGINEERS
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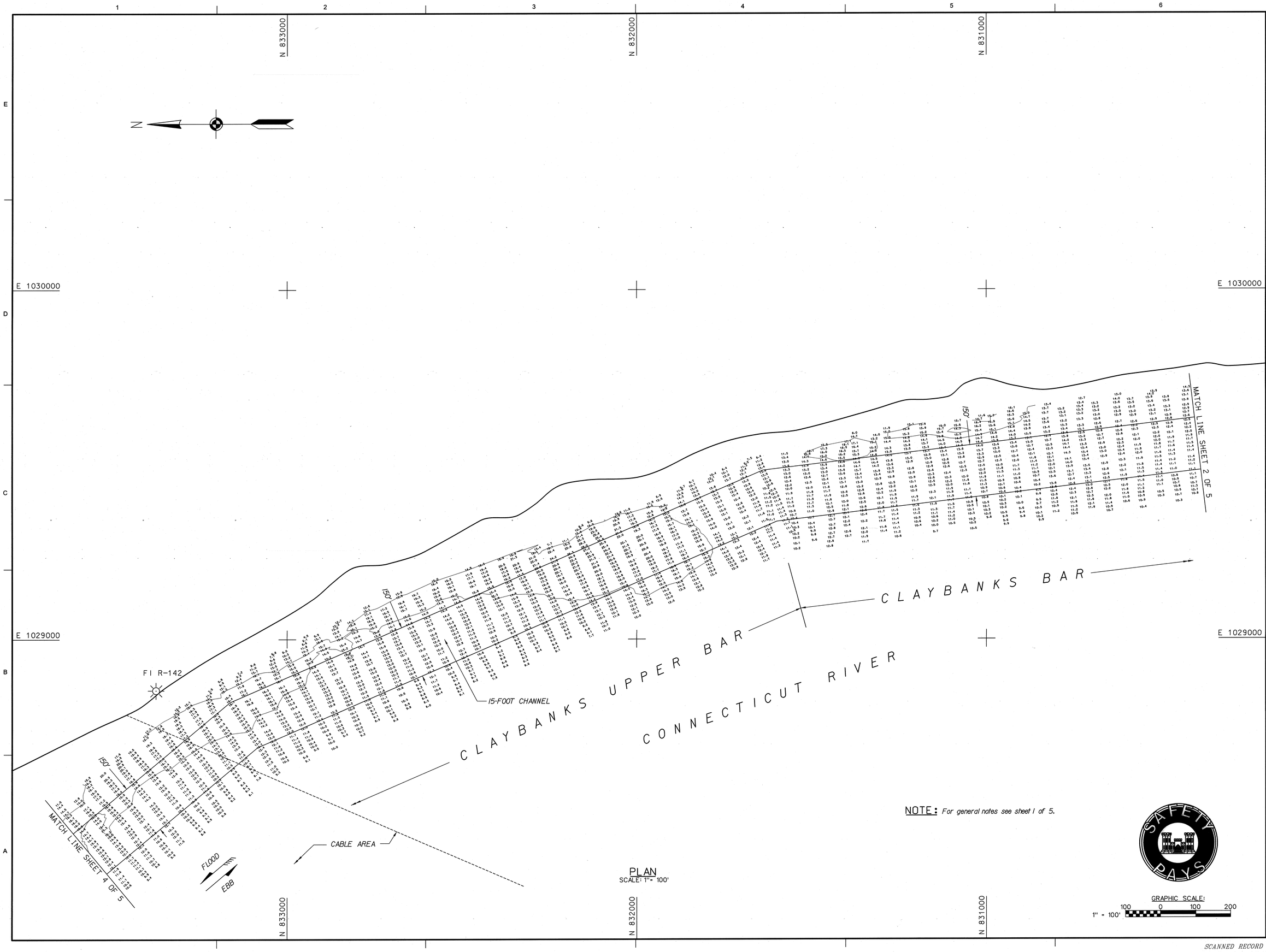
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

WETHERSFIELD SHOAL, CLAYBANKS BAR,
CLAYBANKS UPPER BAR, & HARTFORD BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-102
SHEET 2 OF 5

SAFETY PAYS

SCANNED RECORD DEC. 2011



NOTE: *For general notes see sheet 1 of 5.*

PLAN
SCALE: 1" = 100'

GRAPHIC SCALE:
1" = 100'
100 0 100 200

SAFETY PAYS

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MARK	DESCRIPTION	DATE	APPR.

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NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

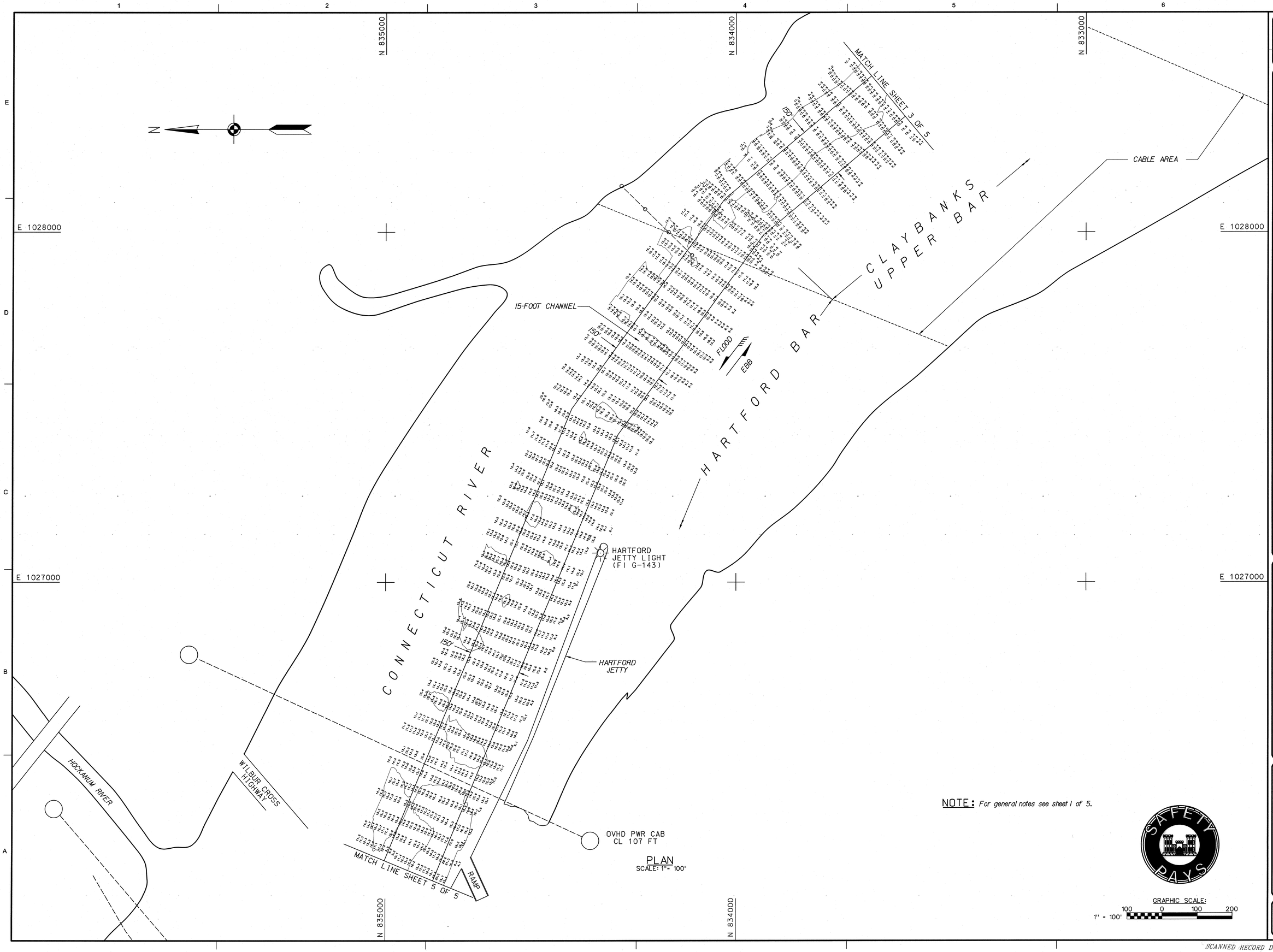
REVIEWED BY: Kevin J. Gilmore, Chief, Survey Section
SUBMITTED BY: Thomas P. Kelley, Chief, Engineering Division
DATE: 12/15/2011
DWN BY: WHW
CKD BY: MTM
DESIGN FILE: CRB-1018.dgn
PLOT SCALE: 1" = 100'
PLOT DATE: 12/15/2011
DRAWING CODE: CRB-1018
SIZE: ANSI D
FILE NAME: CRB1018V103.dgn

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

WETHERSFIELD SHOAL, CLAYBANKS BAR,
CLAYBANKS UPPER BAR, & HARTFORD BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-103
SHEET 3 OF 5

SCANNED RECORD DEC. 2011



NOTE: *For general notes see sheet 1 of 5.*

SAFETY PAYS

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MARK	DESCRIPTION	DATE	APPR.

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CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

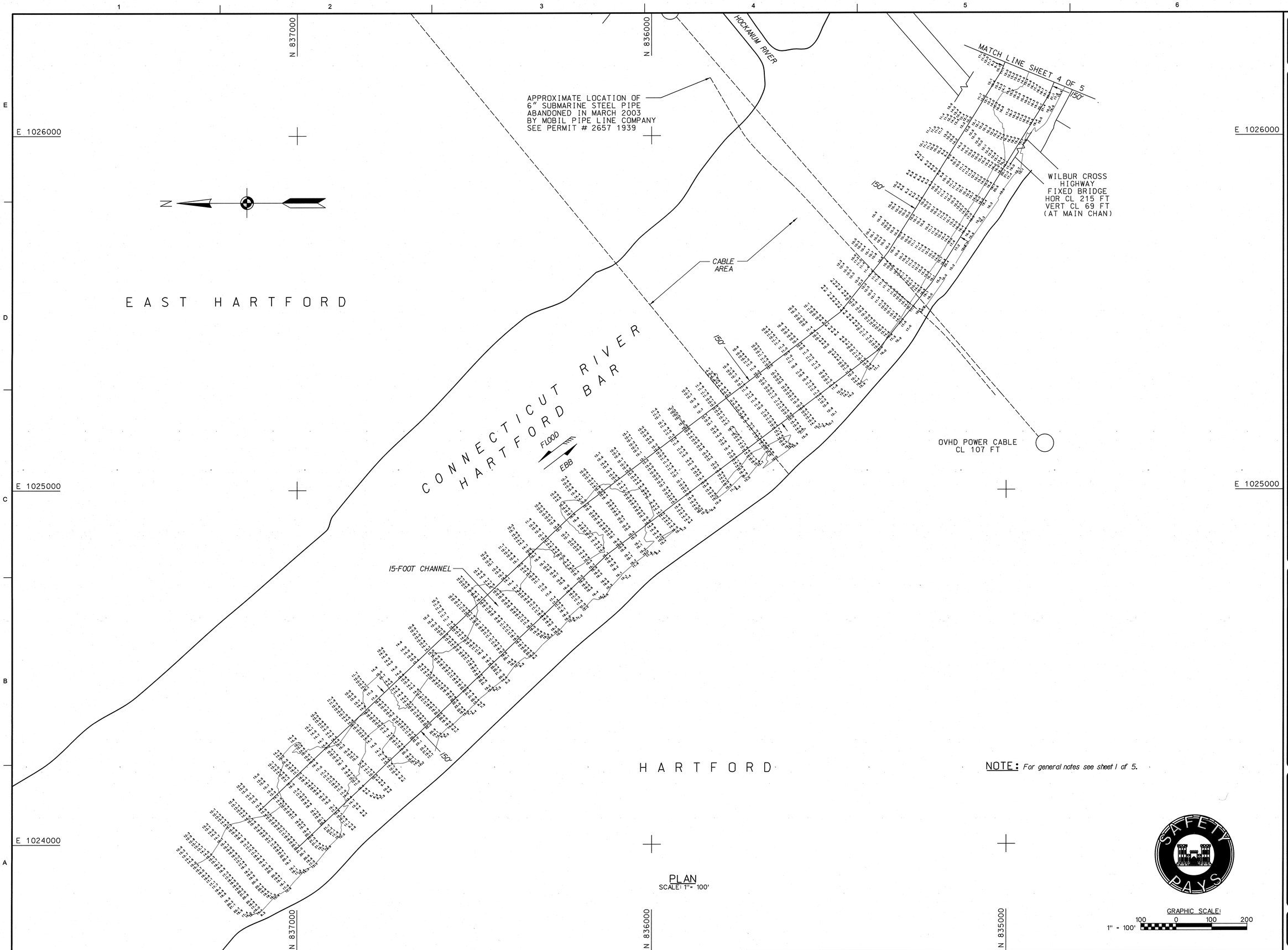
REVIEWED BY: Michael J. Sweeney, Section Chief
SUBMITTED BY: Richard A. Fuller, Project Manager
DATE: 2/1/11
DWN BY: WHW
CKD BY: MTM
DESIGN FILE: CRB-1016.dgn
DESCRIPTION:
PLOT SCALE: 1" = 100'
PLOT DATE: 12/15/2011
DRAWING CODE: CRB-1016
SIZE: ANSI D
FILE NAME: CRB1016V104.504

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

WETHERSFIELD SHOAL, CLAYBANKS BAR
CLAYBANKS UPPER BAR, & HARTFORD BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-104
SHEET 4 OF 5

SCANNED RECORD DEC. 2011



PLAN
SCALE: 1"= 100'

NOTE: *For general notes see sheet 1 of 5.*

GRAPHIC SCALE:
100 0 100 200
1" = 100'

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NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
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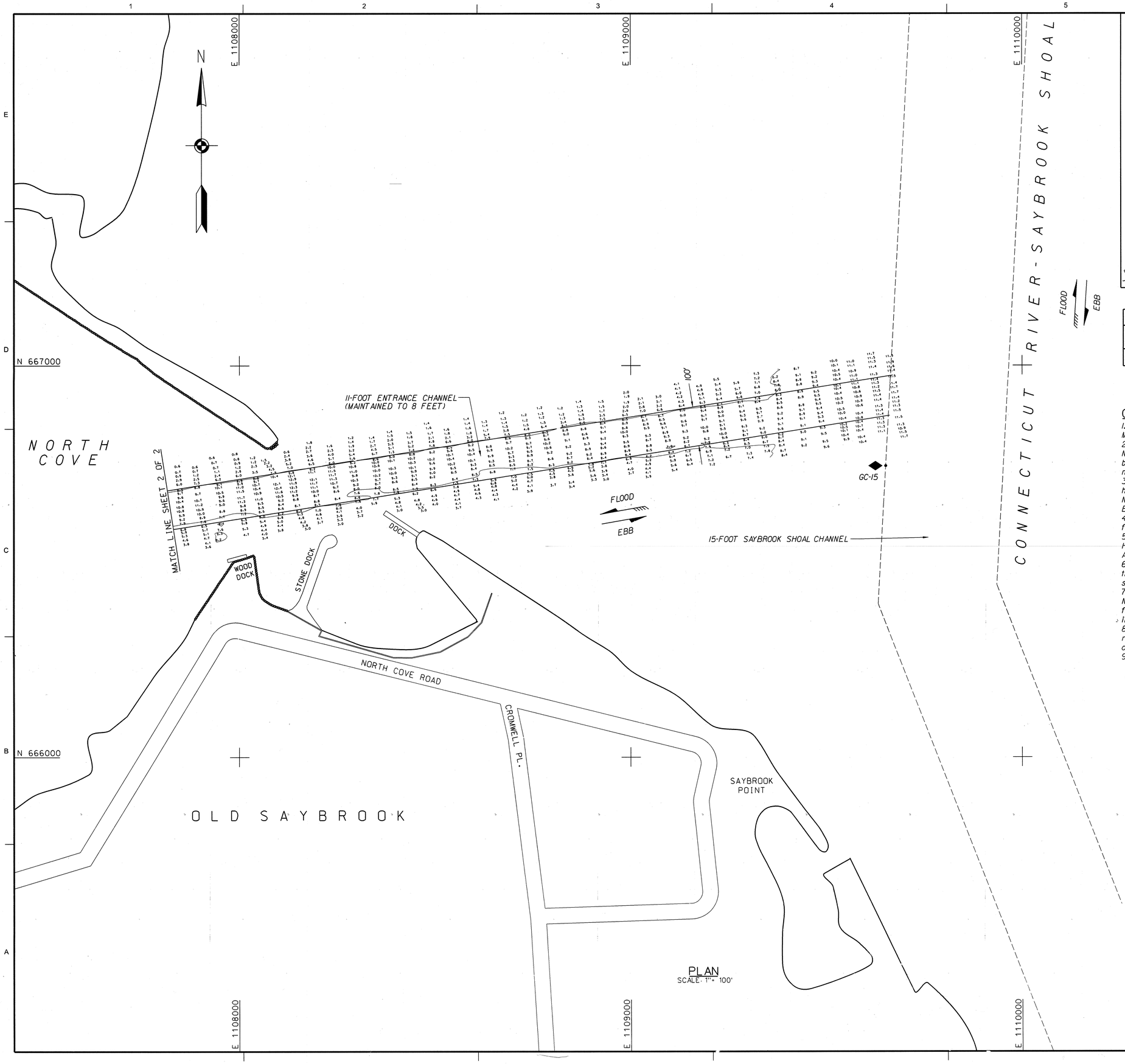
REVIEWED BY: Michael T. Mooney
Lead Civil Engineer Section
SUBMITTED BY: Michael T. Mooney
Chief, Survey Section
DATE: 12/16/2011
DWN BY: WWH
CKD BY: LRB
DESIGN FILE: CRBHSP0.DGN
DRAWING CODE: CRB-1918
CAD SCALE: 1" = 100'
PLOT DATE: 12/15/2011
SIZE: ANSI F
FILE NAME: CRB1918V105.505

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

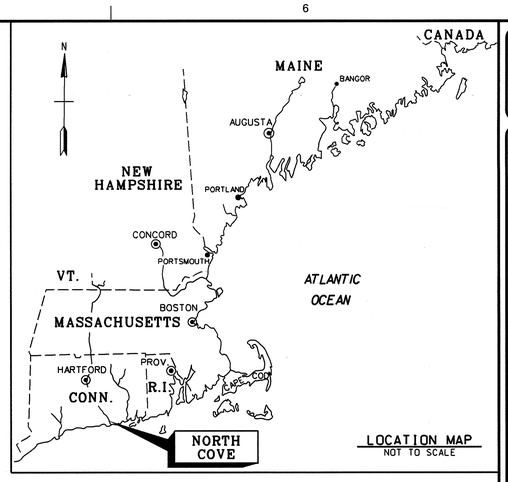
WETHERSFIELD SHOAL, CLAYBANKS BAR
CLAYBANKS UPPER BAR, & HARTFORD BAR
CONDITION SURVEY
15-FOOT CHANNEL

SHEET IDENTIFICATION
V-105
SHEET 5 OF 5

SCANNED RECORD DEC. 2011



PLAN
SCALE: 1" = 100'



LOCATION MAP
NOT TO SCALE

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-15	10/21/08	N 666743.93 E 1109651.45	41° - 17′ - 25.0″N 72° - 21′ - 03.6″W

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. 12375. 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: TBM TOWN DOCK (2007) is a 5/16" drill hole in the north end of the concrete apron at the west end of North Cove at the Town Dock.
Elevation is 4.528 feet above MLLW.
4. Coordinates shown are based on the Lambert Grid System for the State of Connecticut and NAD 1983.
5. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning was obtained utilizing a Leica 1200 GPS system. An RTK base station was set up on TBM TOWN DOCK (2007).
6. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during May 2009.
7. The sounding information depicted on these maps 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 these maps 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 3748
6-foot and 8-foot depth contours shown thus:
Depthsounder Rolls: 09-995/01-02
Survey No. 09-995
Survey by: Robert MacGovern and Crew

GRAPHIC SCALE:
1" = 100'
100 0 100 200

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CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

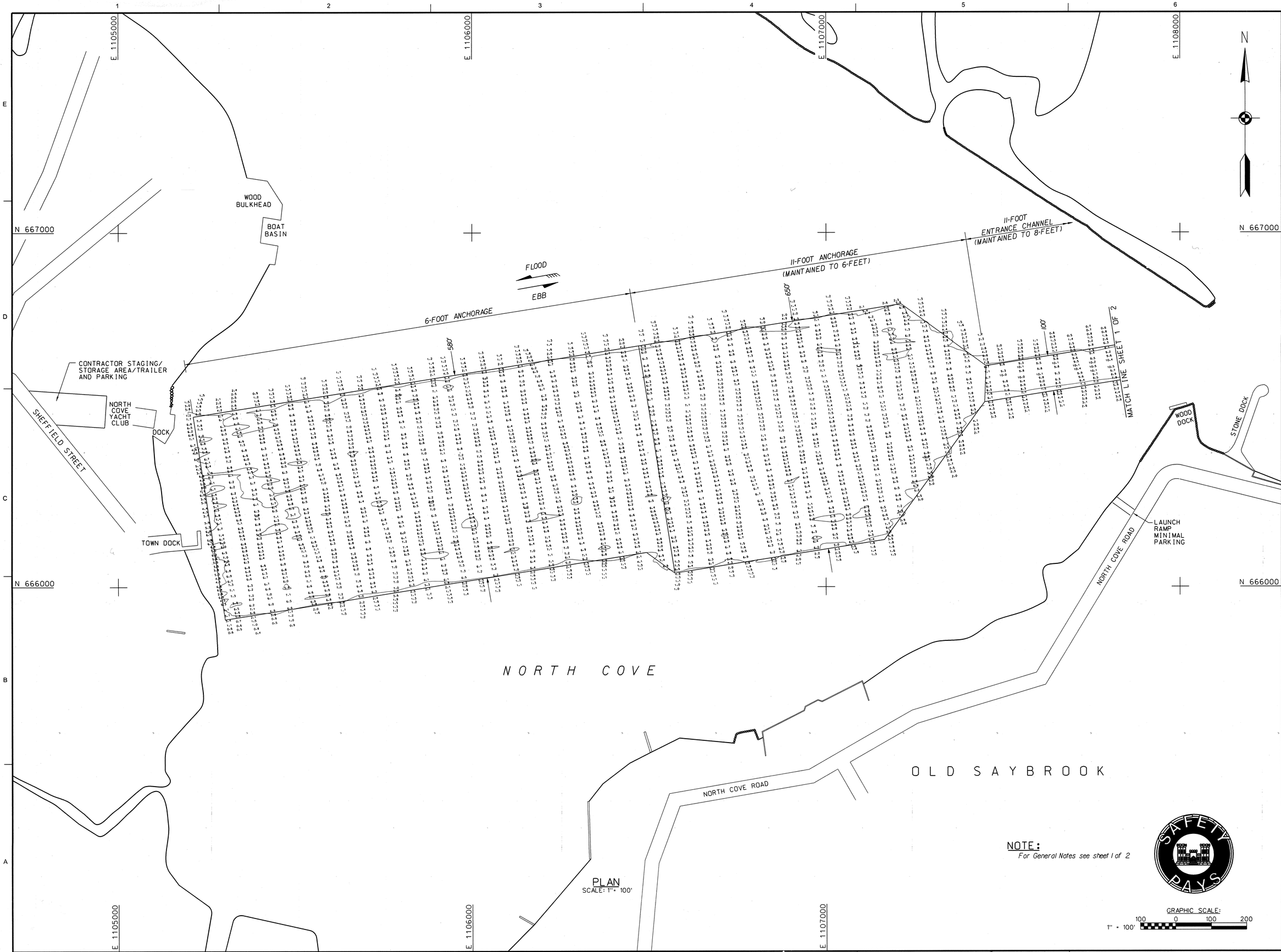
REVIEWED BY: Chief, Hydrographic Surveys and Chart Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 06/03/2009
SIZE: E
ACAD: NEDRAWS1-531
FILE NAME: CT-086
DRAWING CODE: CT-086
RESIGN FILE: CT-086-RESIGN
DWN BY: SWK
CKD BY: MTM
SWK
DATE: 6/3/09

CONNECTICUT RIVER BELOW HARTFORD
NORTH COVE
OLD SAYBROOK, CONNECTICUT
AFTER DREDGE SURVEY
11-FOOT CHANNEL
6 AND 11-FOOT ANCHORAGES

SHEET IDENTIFICATION
V-101
SHEET 1 OF 2

SAFETY PAYS

SCANNED RECORD JUN 2009



PLAN
SCALE: 1" = 100'

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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: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 6/18/03
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: ICSBAPR.DGN
PLOT SCALE: 1" = 100'
PLOT DATE: 06/30/2009
DRAWING CODE: CT-588
SIZE: ANSI F
FILE NAME: NCBBWV02.S02

CONNECTICUT RIVER BELOW HARTFORD
NORTH COVE
OLD SAYBROOK, CONNECTICUT
AFTER DREDGE SURVEY
11-FOOT CHANNEL
6 AND 11-FOOT ANCHORAGES

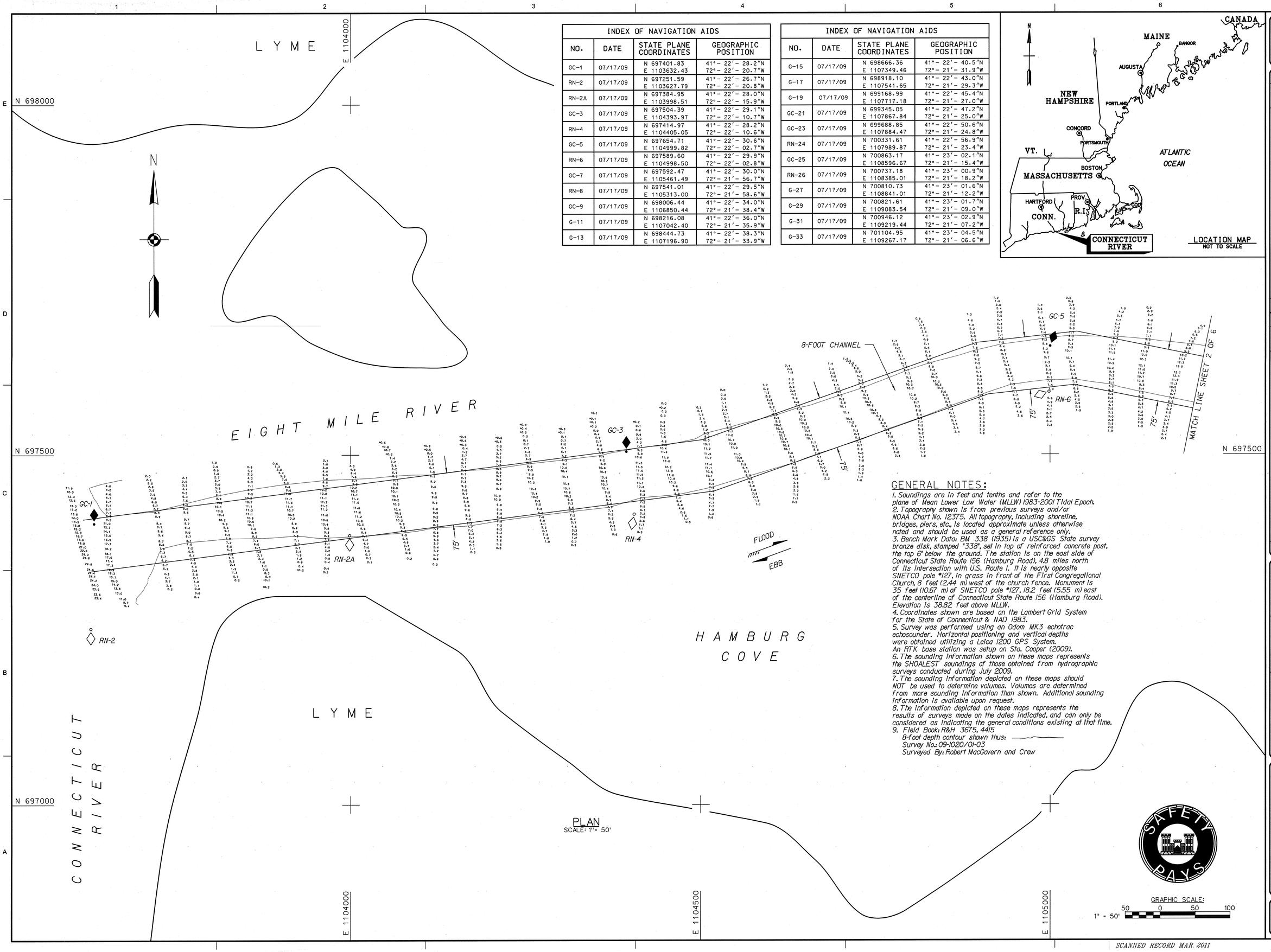
SHEET IDENTIFICATION
V-102
SHEET 2 OF 2

SCANNED RECORD JUN 2009

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-1	07/17/09	N 697401.83 E 1103632.43	41°- 22′- 28.2″N 72°- 22′- 20.7″W
RN-2	07/17/09	N 697251.59 E 1103627.79	41°- 22′- 26.7″N 72°- 22′- 20.8″W
RN-2A	07/17/09	N 697384.95 E 1103998.51	41°- 22′- 28.0″N 72°- 22′- 15.9″W
GC-3	07/17/09	N 697504.39 E 1104393.97	41°- 22′- 29.1″N 72°- 22′- 10.7″W
RN-4	07/17/09	N 697414.97 E 1104405.05	41°- 22′- 28.2″N 72°- 22′- 10.6″W
GC-5	07/17/09	N 697654.71 E 1104999.82	41°- 22′- 30.6″N 72°- 22′- 02.7″W
RN-6	07/17/09	N 697589.60 E 1104998.50	41°- 22′- 29.9″N 72°- 22′- 02.8″W
GC-7	07/17/09	N 697592.47 E 1105461.49	41°- 22′- 30.0″N 72°- 21′- 56.7″W
RN-8	07/17/09	N 697541.01 E 1105313.00	41°- 22′- 29.5″N 72°- 21′- 58.6″W
GC-9	07/17/09	N 698006.44 E 1106850.44	41°- 22′- 34.0″N 72°- 21′- 38.4″W
G-11	07/17/09	N 698216.08 E 1107042.40	41°- 22′- 36.0″N 72°- 21′- 35.9″W
G-13	07/17/09	N 698444.73 E 1107196.90	41°- 22′- 38.3″N 72°- 21′- 33.9″W

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
G-15	07/17/09	N 698666.36 E 1107349.46	41°- 22′- 40.5″N 72°- 21′- 31.9″W
G-17	07/17/09	N 698918.10 E 1107541.65	41°- 22′- 43.0″N 72°- 21′- 29.3″W
G-19	07/17/09	N 699168.99 E 1107717.18	41°- 22′- 45.4″N 72°- 21′- 27.0″W
GC-21	07/17/09	N 699345.05 E 1107867.84	41°- 22′- 47.2″N 72°- 21′- 25.0″W
GC-23	07/17/09	N 699688.85 E 1107884.47	41°- 22′- 50.6″N 72°- 21′- 24.8″W
RN-24	07/17/09	N 700331.61 E 1107989.87	41°- 22′- 56.9″N 72°- 21′- 23.4″W
GC-25	07/17/09	N 700863.17 E 1108596.67	41°- 23′- 02.1″N 72°- 21′- 15.4″W
RN-26	07/17/09	N 700737.18 E 1108385.01	41°- 23′- 00.9″N 72°- 21′- 18.2″W
G-27	07/17/09	N 700810.73 E 1108841.01	41°- 23′- 01.6″N 72°- 21′- 12.2″W
G-29	07/17/09	N 700821.61 E 1109083.54	41°- 23′- 01.7″N 72°- 21′- 09.0″W
G-31	07/17/09	N 700946.12 E 1109219.44	41°- 23′- 02.9″N 72°- 21′- 07.2″W
G-33	07/17/09	N 701104.95 E 1109267.17	41°- 23′- 04.5″N 72°- 21′- 06.6″W

LOCATION MAP
NOT TO SCALE



PLAN
SCALE: 1" = 50'

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. 12375. 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 338 (1935) is a USC&GS State survey bronze disk, stamped "338", set in top of reinforced concrete post, the top 6" below the ground. The station is on the east side of Connecticut State Route 156 (Hamburg Road), 4.8 miles north of its intersection with U.S. Route 1. It is nearly opposite SNETCO pole #127, in grass in front of the First Congregational Church, 8 feet (2.44 m) west of the church fence. Monument is 35 feet (10.67 m) of SNETCO pole #127, 18.2 feet (5.55 m) east of the centerline of Connecticut State Route 156 (Hamburg Road). Elevation is 38.82 feet above MLLW.
4. Coordinates shown are based on the Lambert Grid System for the State of Connecticut & NAD 1983.
5. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. An RTK base station was setup on Sta. Cooper (2009).
6. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during July 2009.
7. The sounding information depicted on these maps 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 these maps 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 3675, 4415
   8-foot depth contour shown thus: ———
   Survey No.: 09-1020/01-03
   Surveyed By: Robert MacGovern and Crew

GRAPHIC SCALE:
1" = 50'
50 0 50 100

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

DATE: 3 Aug 11
REVIEWED BY: Alec Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DWN BY: WWW
CKD BY: MTM
DESIGN FILE: CRBSHEP3.DGN
DRAWING CODE: CRB-984
PLOT SCALE: 1" = 50'
PLOT DATE: 3/24/2011
FILE NAME: CRBSHEET101.S01
SIZE: ANSI E

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

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT
EIGHT MILE RIVER
CONDITION SURVEY
8-FOOT CHANNEL AND TURNING BASIN

SHEET IDENTIFICATION
V-101
SHEET 1 OF 6

SAFETY PAYS

SCANNED RECORD MAR. 2011

PLAN
SCALE: 1"= 50'

NOTE:
For General Notes see sheet 1 of 6.

SCANNED RECORD MAR. 2011

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

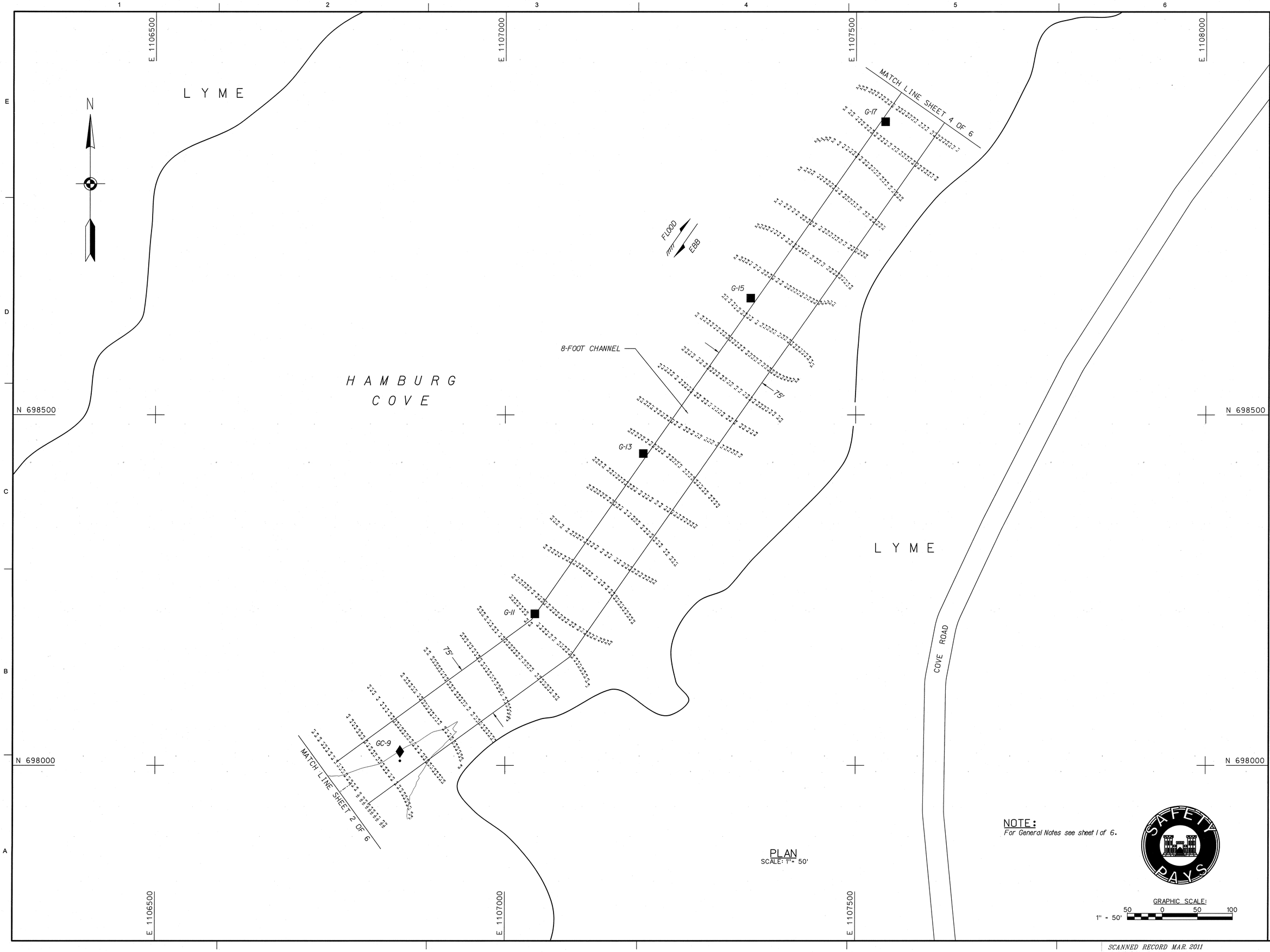
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 3 Aug 11

DWN BY: WWK	CKD BY: MTM
DESIGN FILE: CRBSHP3.DGN	
PLOT SCALE: 1" = 50'	PLOT DATE: 3/24/2011
DGN SIZE: ANSI F	FILE NO: CRBS994V102.552
	DRAWING CODE: CRB-994

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

EIGHT MILE RIVER
CONDITION SURVEY
8-FOOT CHANNEL AND TURNING BASIN

SHEET IDENTIFICATION
V-102
SHEET 2 OF 6



PLAN
SCALE: 1"= 50'

NOTE:
For General Notes see sheet 1 of 6.

GRAPHIC SCALE:
1" = 50'
50 0 50 100

SAFETY PAYS

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

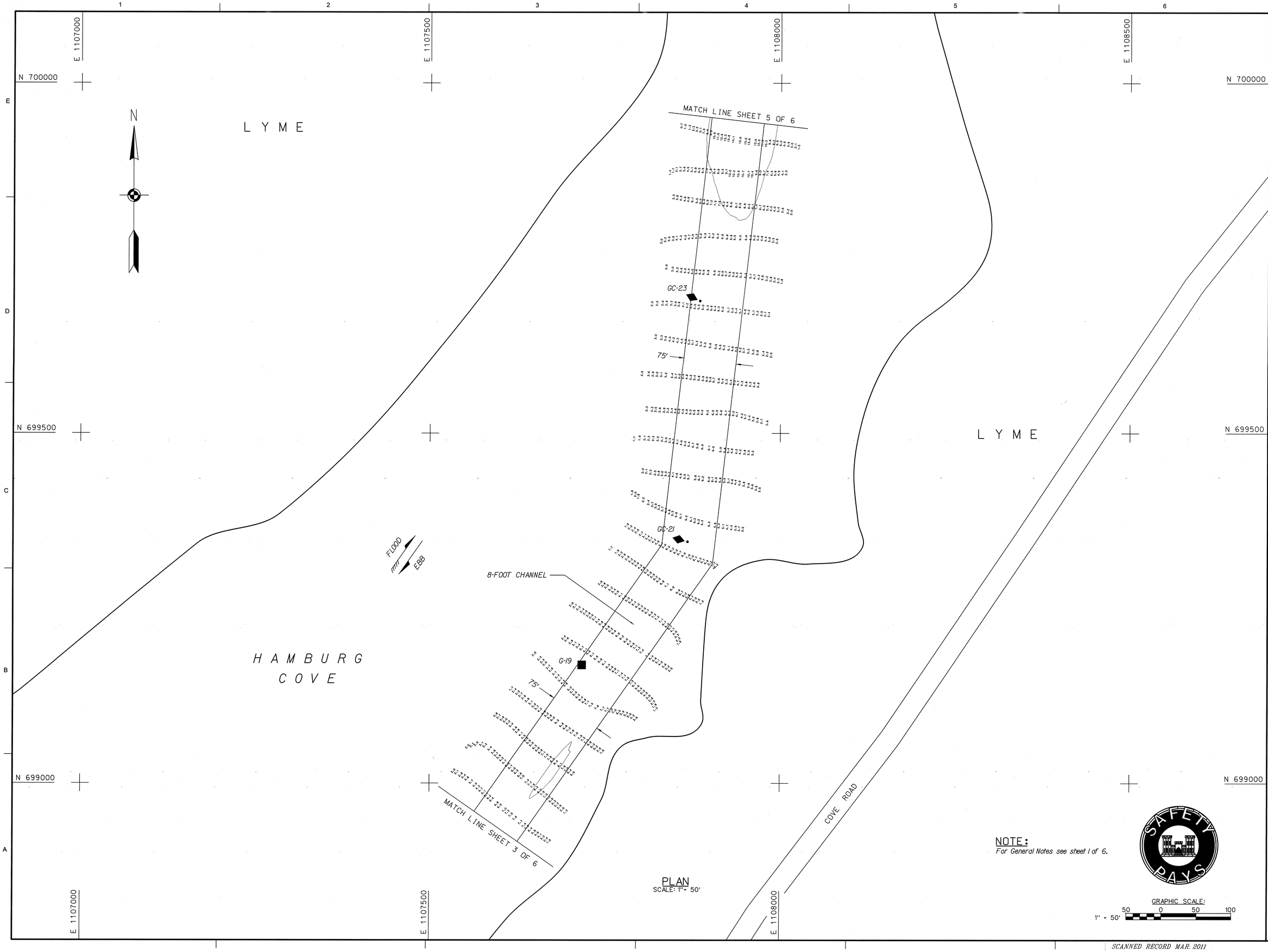
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Alan Anderson Asst. Chief, Survey Section
SUBMITTED BY: Gene Cote Chief, Survey Section
DATE: 3/9/11
DWN BY: WWW
CKD BY: MTM
DESIGN FILE: CRBHSP3.DGN
DRAWING CODE: CRB-984
PLOT SCALE: 1" = 50'
PLOT DATE: 3/24/2011
SIZE: ANSI F
FILE NAME: CRBSHM1V03.S03

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT
EIGHT MILE RIVER
CONDITION SURVEY
8-FOOT CHANNEL AND TURNING BASIN

SHEET IDENTIFICATION
V-103
SHEET 3 OF 6

SCANNED RECORD MAR. 2011



PLAN
SCALE: 1"= 50'

NOTE:
For General Notes see sheet 1 of 6.

GRAPHIC SCALE:
1" = 50'
50 0 50 100

SAFETY PAYS

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MARK	DESCRIPTION	DATE	APPR.

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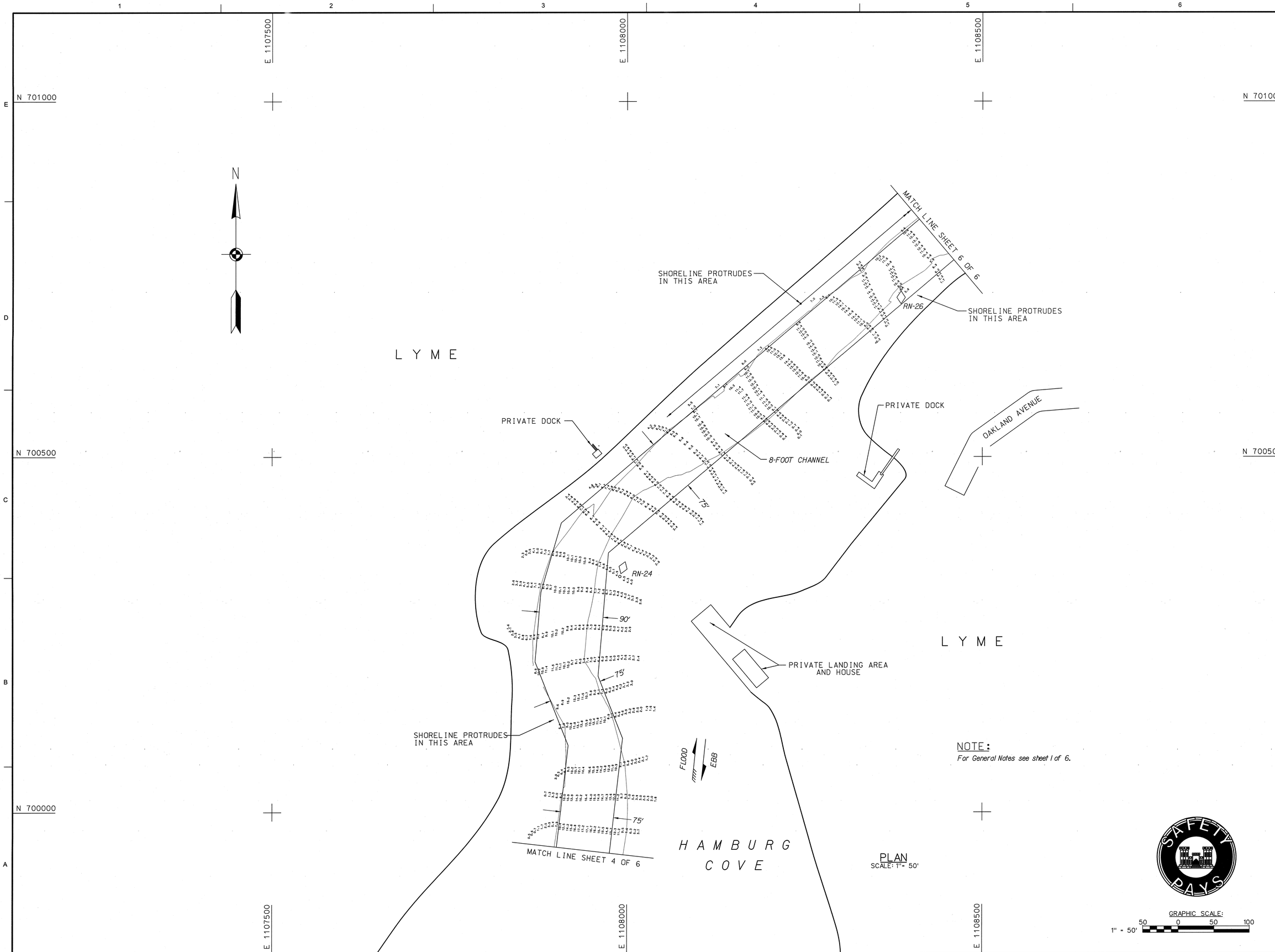
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 3/4/11
DWN BY: MAW
CKD BY: MTM
VERSION FILE: CRBHSP3.DGN
PLOT SCALE: 1" = 50'
PLOT DATE:
DESIGN:
DRAWING CODE: CRBHSP4
FILE NAME: CRBHSW104.504
SIZE: ANSI F

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT
EIGHT MILE RIVER
CONDITION SURVEY
8-FOOT CHANNEL AND TURNING BASIN

SHEET IDENTIFICATION
V-104
SHEET 4 OF 6

SCANNED RECORD MAR. 2011



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New England District

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MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

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

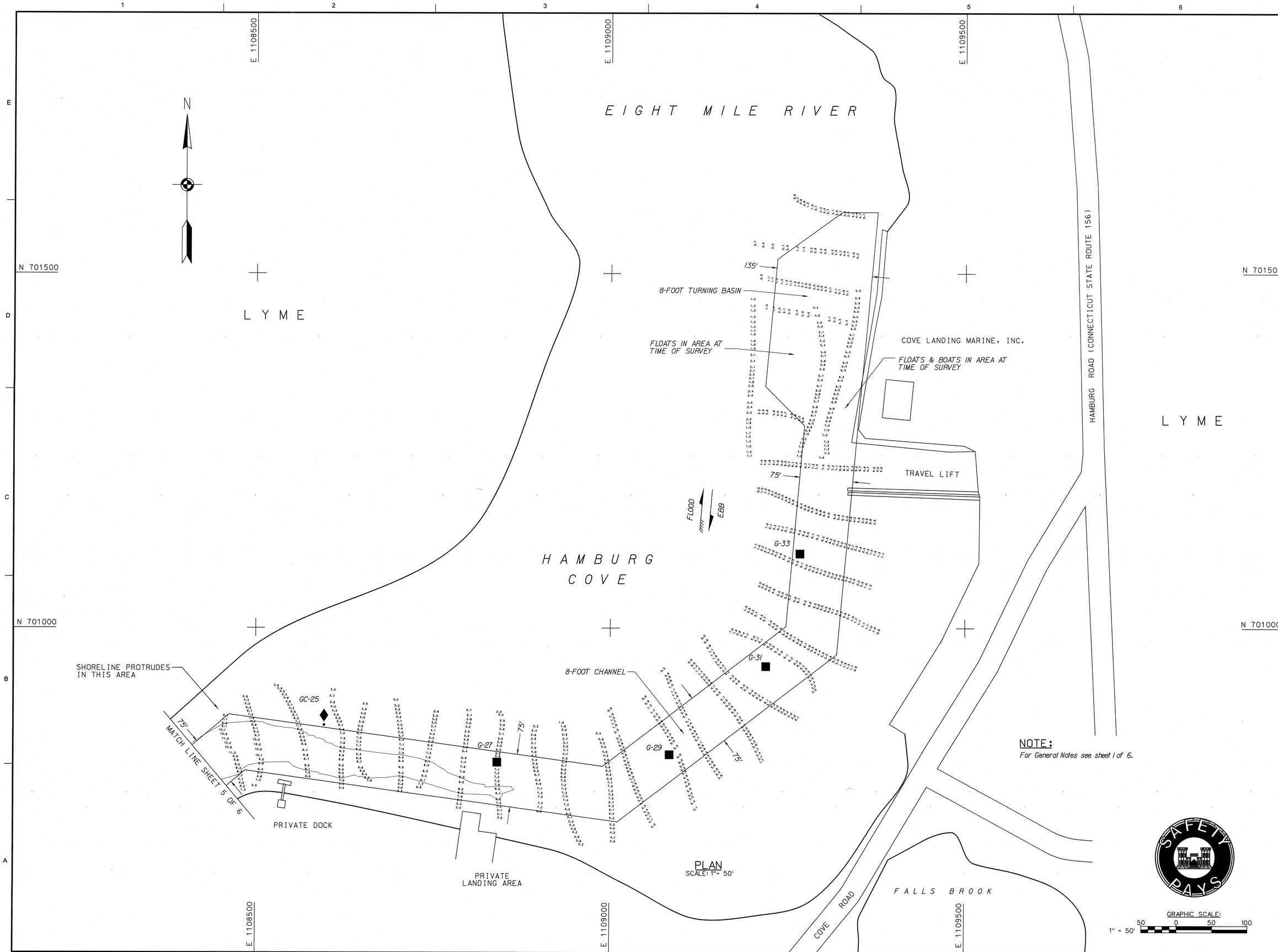
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 3 Aug 10
DWN BY: Mark Sadler
CKD BY: MTM
DESIGN FILE: CRBHSP3.DGN
DRAWING CODE: CRB-SHV
PLOT SCALE: 1" = 50'
PLOT DATE: 3/ 3/2011
SIZE: ANSI F
FILE NAME: CRBSHAVG5.505

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT
EIGHT MILE RIVER
CONDITION SURVEY
8-FOOT CHANNEL AND TURNING BASIN

SHEET IDENTIFICATION
V-105
SHEET 5 OF 6

SAFETY PAYS

SCANNED RECORD MAR 2011



PLAN
SCALE: 1"= 50'

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MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
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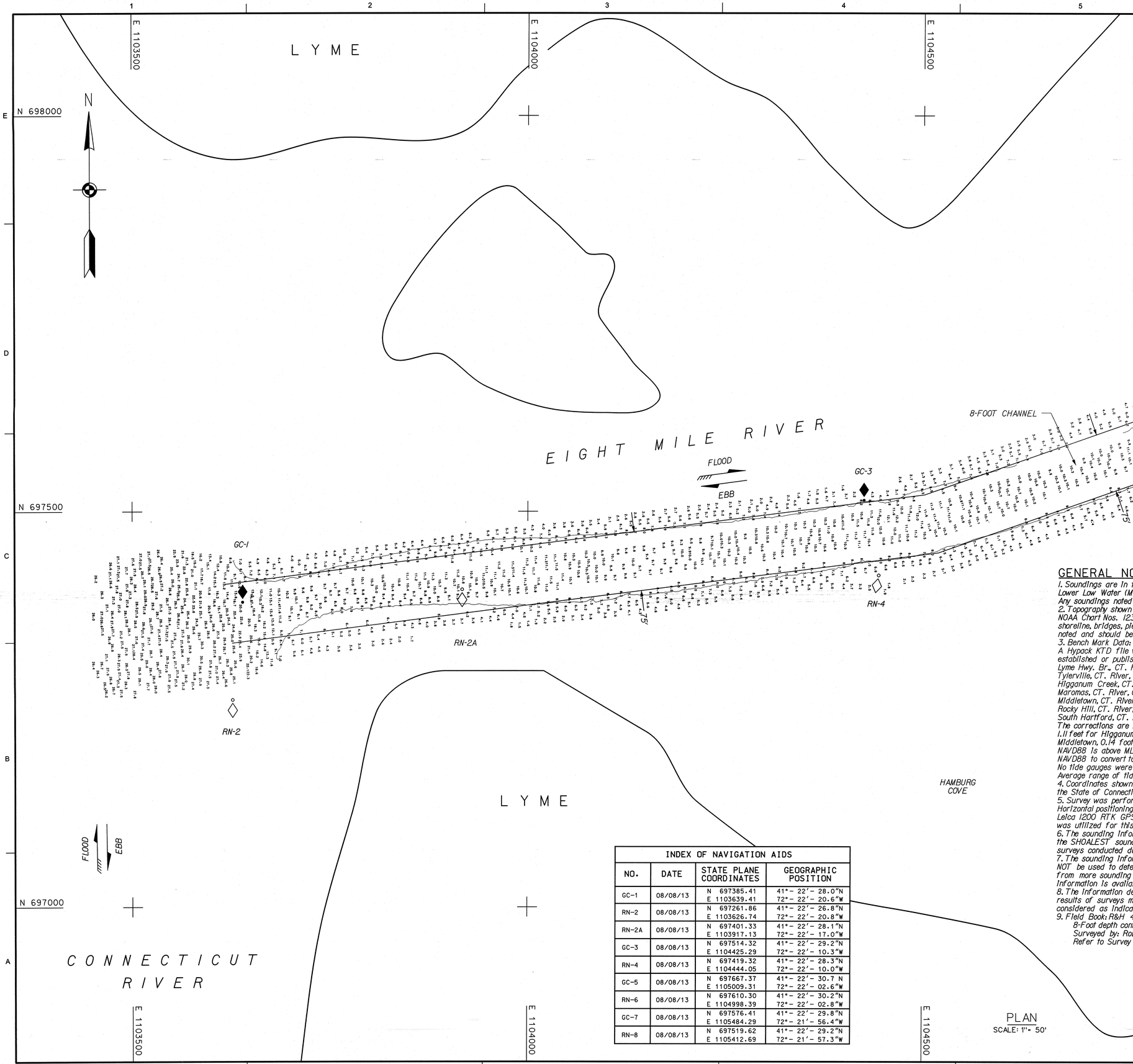
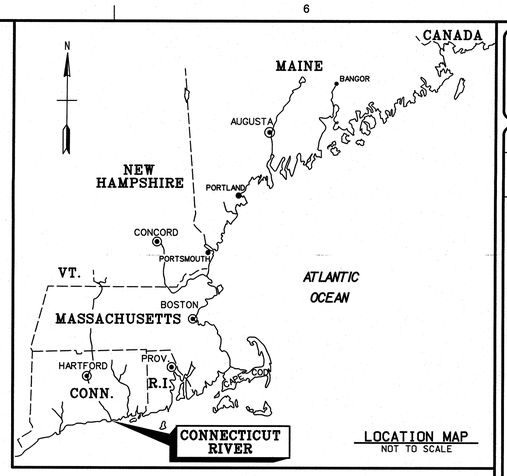
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 3/24/11
DWN BY: WWM
CKD BY: MTM
DESIGN FILE: CERBSHPL.DGN
PLOT SCALE: 1" = 50'
PLOT DATE: 3/24/11
DRAWING CODE: CRB-984
SIZE: ANSI F
FILE NAME: CERBSHAV106.836

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT
EIGHT MILE RIVER
CONDITION SURVEY
8-FOOT CHANNEL AND TURNING BASIN

SHEET IDENTIFICATION
V-106
SHEET 6 OF 6

SCANNED RECORD MAR. 2011





LOCATION MAP
NOT TO SCALE

US Army Corps of Engineers®
New England District

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. Any soundings noted with a (•) are above the reference plane of MLLW.
2. Topography shown is from previous surveys and/or NOAA Chart Nos. 12372_10 and 12375. 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. A Hypack KTD file was created from MLLW to NAVD88; corrections established or published in the vicinity of NOAA Bench Marks at Lyme Hwy. Br., CT. River, CT (Station ID: 8462764, 05/07/2003), Tylerville, CT. River, CT. (Station ID: 8463348, 05/16/2003), Higganum Creek, CT. River, CT (Station ID: 8463836, 05/15/2003), Maromas, CT. River, CT. (Station ID: 8463827, 05/15/2003), Middletown, CT. River, CT. (Station ID: 8464336, 06/23/2003), Rocky Hill, CT. River, CT. (Station ID: 8464255, 05/16/2003), South Hartford, CT. River, CT. (Station ID: 8464418, 02/05/2004). The corrections are 2.12 feet for Lyme Hwy. Br., 1.33 feet for Tylerville, 1.11 feet for Higganum Creek, 0.80 foot for Maromas, 0.61 foot for Middletown, 0.14 foot for Rocky Hill, 0.02 foot for South Hartford. NAVD88 is above MLLW, therefore corrections should be added to NAVD88 to convert to MLLW.
   No tide gauges were used on this project.
   Average range of tide is 3.0'.
4. Coordinates shown are based on the Lambert Grid System for the State of Connecticut (Zone 0600) and NAD 1983.
5. Survey was performed using an Reson 9001 Multibeam Sonar System. Horizontal positioning and vertical depths were recorded utilizing a Leica 1200 RTK GPS System. RTK Base Station Saybrook II (2006) was utilized for this survey.
6. The sounding information shown on these charts represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during August 2013.
7. The sounding information depicted on these charts 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 these charts 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 4535
   8-Foot depth contour shown thus: _____
   Surveyed by: Robert MacGovern and crew
   Refer to Survey No. 13-1282

INDEX OF NAVIGATION AIDS

NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-1	08/08/13	N 697385.41 E 1103639.41	41°- 22'- 28.0"N 72°- 22'- 20.6"W
RN-2	08/08/13	N 697261.86 E 1103626.74	41°- 22'- 26.8"N 72°- 22'- 20.8"W
RN-2A	08/08/13	N 697401.33 E 1103917.13	41°- 22'- 28.1"N 72°- 22'- 17.0"W
GC-3	08/08/13	N 697514.32 E 1104425.29	41°- 22'- 29.2"N 72°- 22'- 10.3"W
RN-4	08/08/13	N 697419.32 E 1104444.05	41°- 22'- 28.3"N 72°- 22'- 10.0"W
GC-5	08/08/13	N 697667.37 E 1105009.31	41°- 22'- 30.7 N 72°- 22'- 02.6"W
RN-6	08/08/13	N 697610.30 E 1104998.39	41°- 22'- 30.2"N 72°- 22'- 02.8"W
GC-7	08/08/13	N 697576.41 E 1105484.29	41°- 22'- 29.8"N 72°- 21'- 56.4"W
RN-8	08/08/13	N 697519.62 E 1105412.69	41°- 22'- 29.2"N 72°- 21'- 57.3"W

PLAN
SCALE: 1"= 50'

GRAPHIC SCALE:
1" = 50' 50 0 50 100

SAFETY PAYS

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

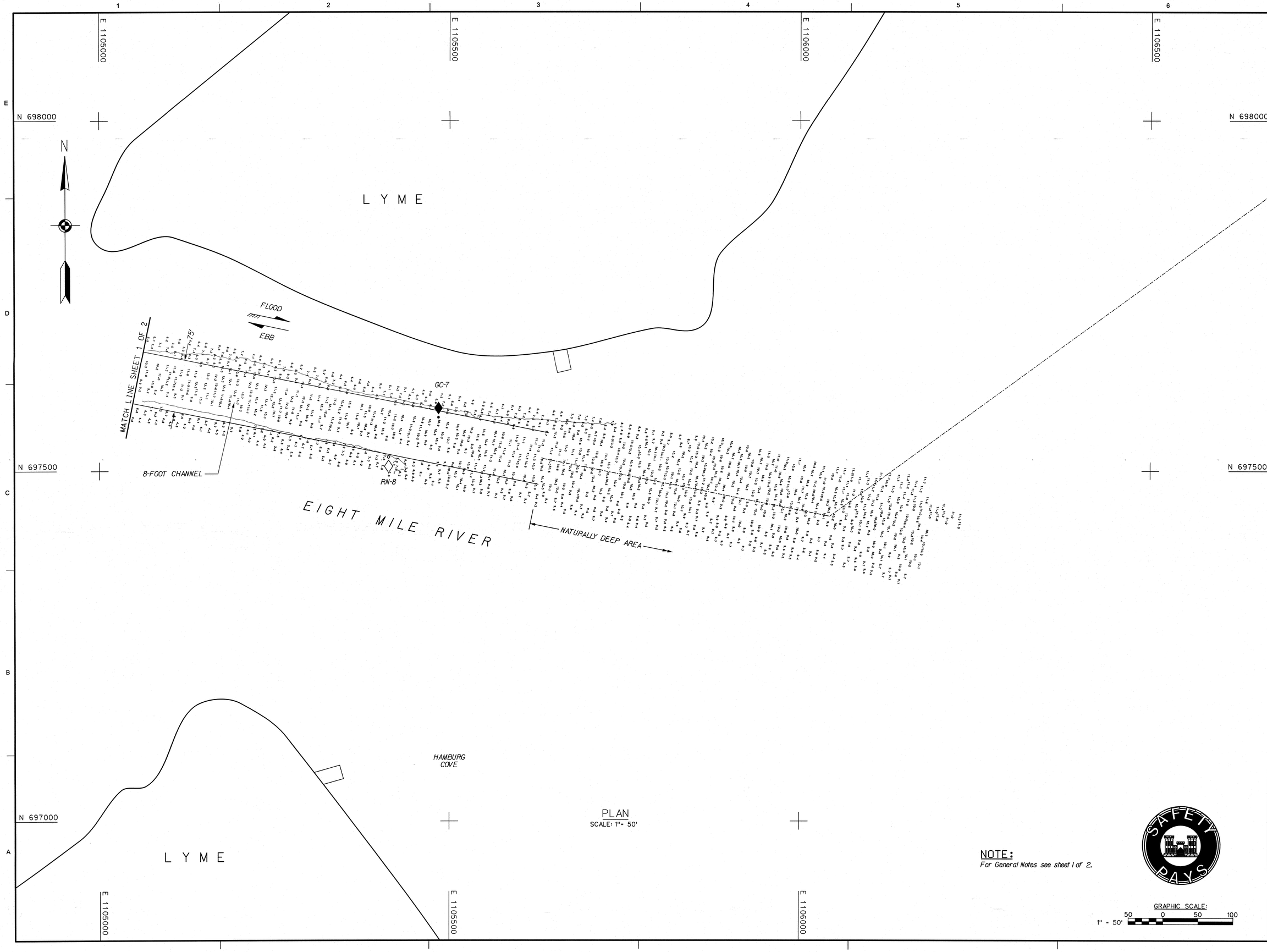
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Jeffrey Porter
Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 4/25/2014
DWN BY: JESSICA FILE
CKD BY: CRBHSPLDGN
SURVEY NO.: CRBHSPLDGN
PLOT SCALE: 1" = 50'
PLOT DATE: 5/20/2014
DRAWING CODE: CRBH1605
SIZE: ANSI F
FILE NAME: CRBH1605V101.S01

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

EIGHT MILE RIVER
PARTIAL CONDITION SURVEY
8-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 2



PLAN
SCALE: 1" = 50'

NOTE:
For General Notes see sheet 1 of 2.

GRAPHIC SCALE:
1" = 50'
50 0 50 100

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: Jeffrey Peterson
Chief, Survey Section

DATE: 4/25/2014

SUBMITTED BY: Chief, Survey Section

DWN BY: VSS

CKD BY: BRM/JWP

PLOT SCALE: 1" = 50'

PLOT DATE: 4/25/2014

DESIGN FILE: CRBHSFX.DGN

FILE NO.:

DRAWING CODE: CRB-1029

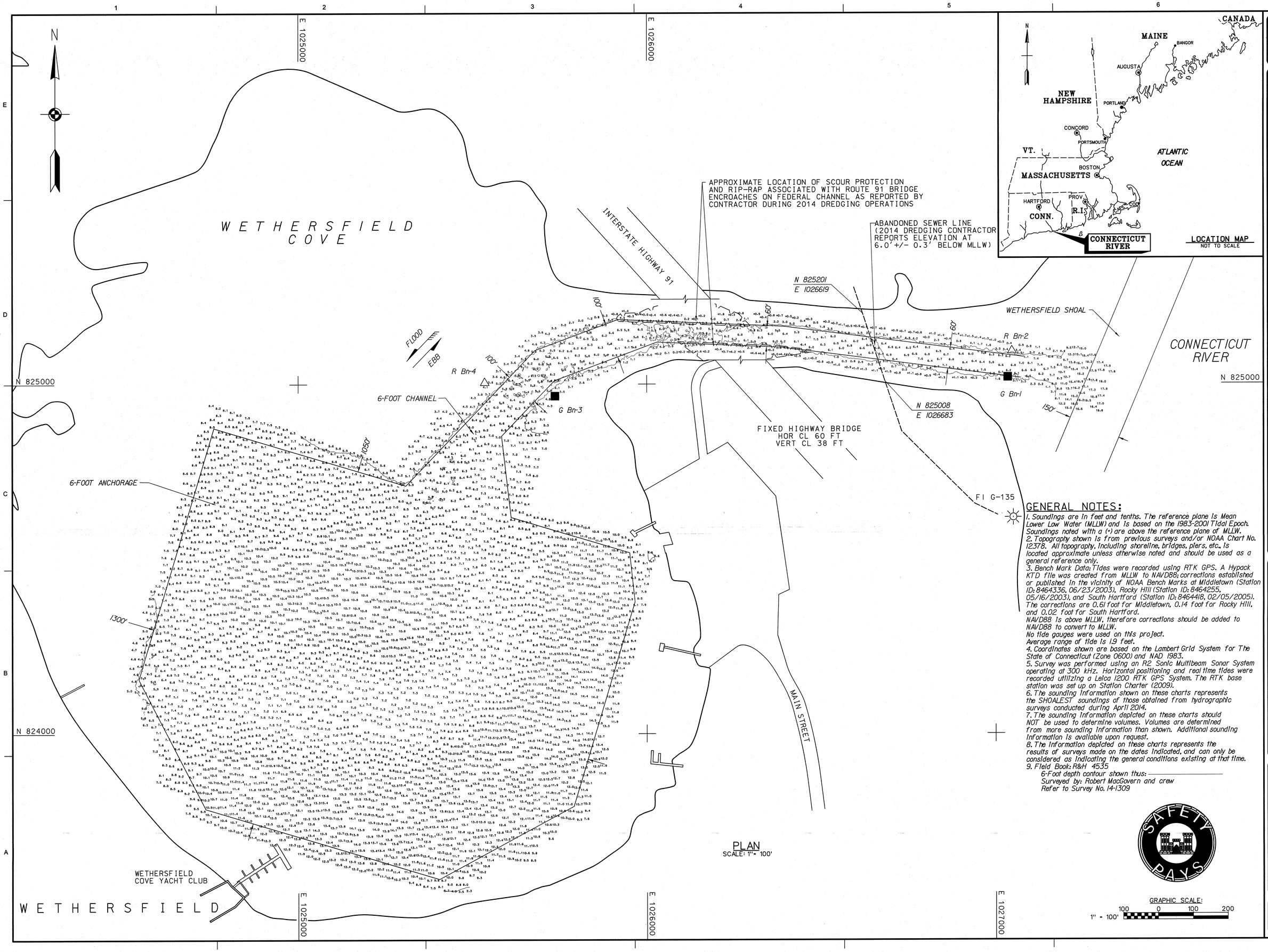
SIZE: ANSI F

FILE NAME: CRB1029V102.S02

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

EIGHT MILE RIVER
PARTIAL CONDITION SURVEY
8-FOOT CHANNEL

SHEET IDENTIFICATION
V-102
SHEET 2 OF 2



PLAN
SCALE: 1"= 100'

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.
2. Topography shown is from previous surveys and/or NOAA Chart No. 12378. 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. A Hypack KTD file was created from MLLW to NAVD88; corrections established or published in the vicinity of NOAA Bench Marks at Middletown (Station ID: 8464336, 06/23/2003), Rocky Hill (Station ID: 8464255, 05/16/2003), and South Hartford (Station ID: 8464418, 02/05/2005). The corrections are 0.61 foot for Middletown, 0.14 foot for Rocky Hill, and 0.02 foot for South Hartford.
NAVD88 is above MLLW, therefore corrections should be added to NAVD88 to convert to MLLW.
No tide gauges were used on this project.
Average range of tide is 1.9 feet.
4. Coordinates shown are based on the Lambert Grid System for The State of Connecticut (Zone 0600) and NAD 1983.
5. Survey was performed using an R2 Sonic Multibeam Sonar System operating at 300 kHz. Horizontal positioning and real time tides were recorded utilizing a Leica 1200 RTK GPS System. The RTK base station was set up on Station Charter (2009).
6. The sounding information shown on these charts represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during April 2014.
7. The sounding information depicted on these charts 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 these charts 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 4535
6-Foot depth contour shown thus: _____
Surveyed by: Robert MacGovern and crew
Refer to Survey No. 14-1309

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: Chief, Survey Section
SUBMITTED BY: Chief, Navigation Branch
DATE: 4/23/2014
DWN BY: V.G.
CKD BY: J.W.P.
DESIGN FILE: DRBWSFD.DGN
DRAWING CODE: CRB-1028
CHIEF SCALE: 1" = 100'
PLOT DATE: 4/23/2014
FILE NAME: CRB1028V101.S01
SIZE: ANSI F
1" = 100'

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HARTFORD, CT

WETHERSFIELD COVE
AFTER DREDGING FOR THE
6-FOOT CHANNEL AND ANCHORAGE

SHEET IDENTIFICATION
V-101
SHEET 1 OF 1