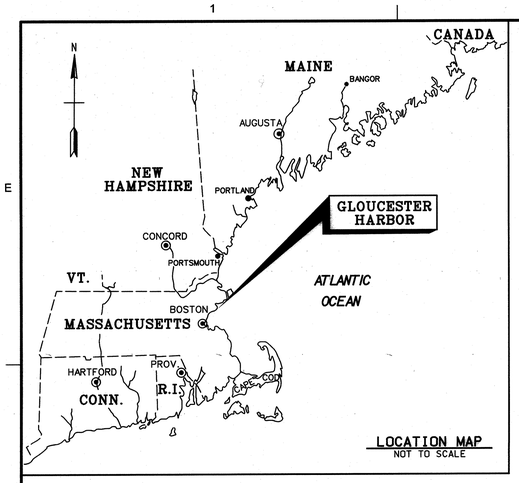
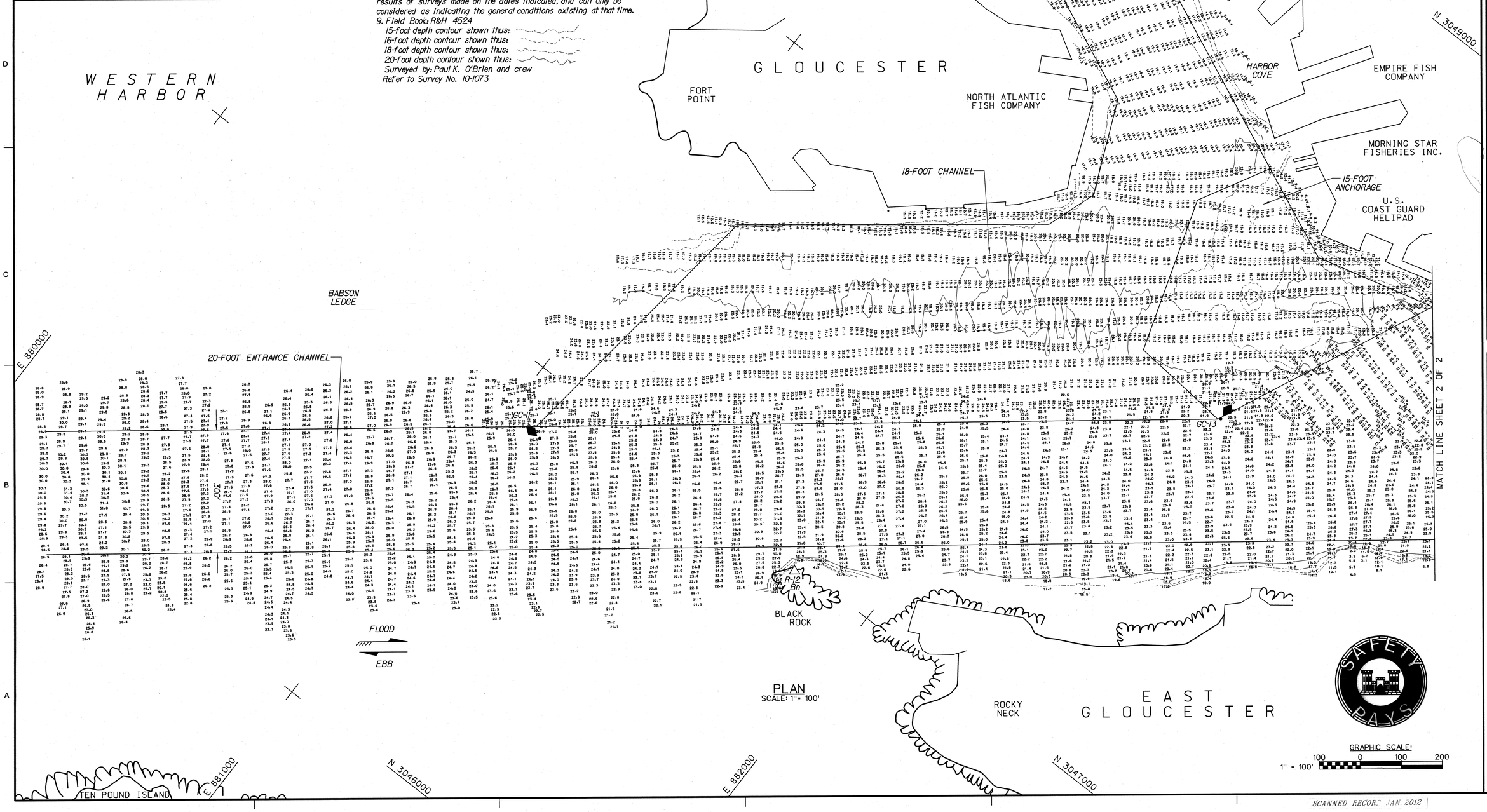


LOCATION MAP
NOT TO SCALE

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. 13281. 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 1841 A (1992) is a standard NOS Tidal Station disk, stamped "1841 A 1992", set in the dogleg corner of a concrete seawall at the northwest corner of the U.S. Coast Guard helipad pier, 95.0 feet south of the south corner of the U.S. Coast Guard boathouse building, 88.0 feet north-northeast of the southwest corner of the pier, 40.2 feet southeast of the south corner of a small A-frame building, and 0.5 foot above pier level. Elevation is 14.92 feet above MLLW.
4. Coordinates shown are based on the Lambert Grid System for the Commonwealth of Massachusetts (Mainland Zone 2001) and NAD 1983.
5. Survey was performed using an Odom MK2 echotrac echosounder. Horizontal positioning was obtained utilizing a Leica 1200 GPS System. RTK base station MTS Woburn was used.
6. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted from June and July 2010.
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 4524
   15-foot depth contour shown thus:
   16-foot depth contour shown thus:
   18-foot depth contour shown thus:
   20-foot depth contour shown thus:
   Surveyed by: Paul K. O'Brien and crew
   Refer to Survey No. 10-1073

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-2	07/13/10	N 3049226.76 E 883274.57	42° - 36' - 43.7"N 70° - 39' - 22.8"W
RN-2S	07/06/10	N 3048258.90 E 883397.19	42° - 36' - 34.1"N 70° - 39' - 21.3"W
GC-3	07/06/10	N 3048724.05 E 883878.37	42° - 36' - 38.7"N 70° - 39' - 14.8"W
RN-4	07/13/10	N 3049598.19 E 883495.87	42° - 36' - 47.4"N 70° - 39' - 19.8"W
GC-11	07/06/10	N 3046858.32 E 881099.76	42° - 36' - 20.5"N 70° - 39' - 52.2"W
GC-13	07/06/10	N 3047912.98 E 882386.04	42° - 36' - 30.8"N 70° - 39' - 34.9"W
R&G GH	07/06/10	N 3048268.19 E 882977.78	42° - 36' - 34.3"N 70° - 39' - 26.9"W



PLAN
SCALE: 1" = 100'

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New England District

MARK	DESCRIPTION	DATE	APPR
1	REVISED DRAWING CODE	1/10/12	MTK

REVIEWED BY: Asst. Chief, Survey Section
DATE: 1/4/12
DWN BY: VS
CKD BY: SWK
DESIGN FILE: GLOHSP3.DGN
DRAWING CODE: 32/7
PLOT SCALE: 1" = 100'
PLOT DATE: 1/10/2012
SIZE: ANSI F
FILE NAME: GLOCKPV101.SO1

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
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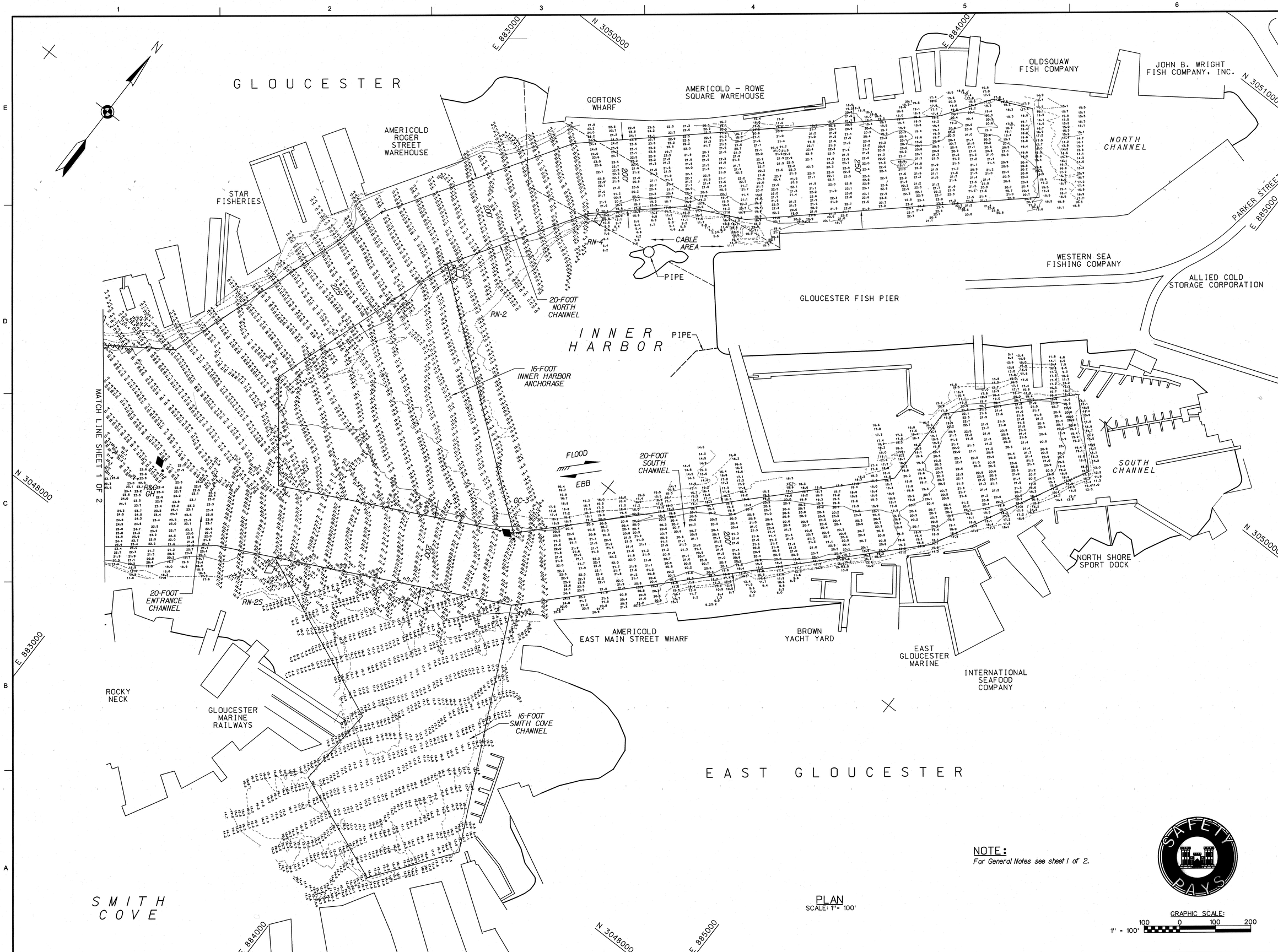
GLOUCESTER HARBOR
GLOUCESTER, MASSACHUSETTS
CONDITION SURVEY

16, 18 AND 20-FOOT CHANNELS
15 AND 16-FOOT ANCHORAGES

SHEET IDENTIFICATION
V-101
SHEET 1 OF 2

SCANNED RECORD JAN. 2012



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
1	REVISED DRAWING CODE	1/10/12	

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

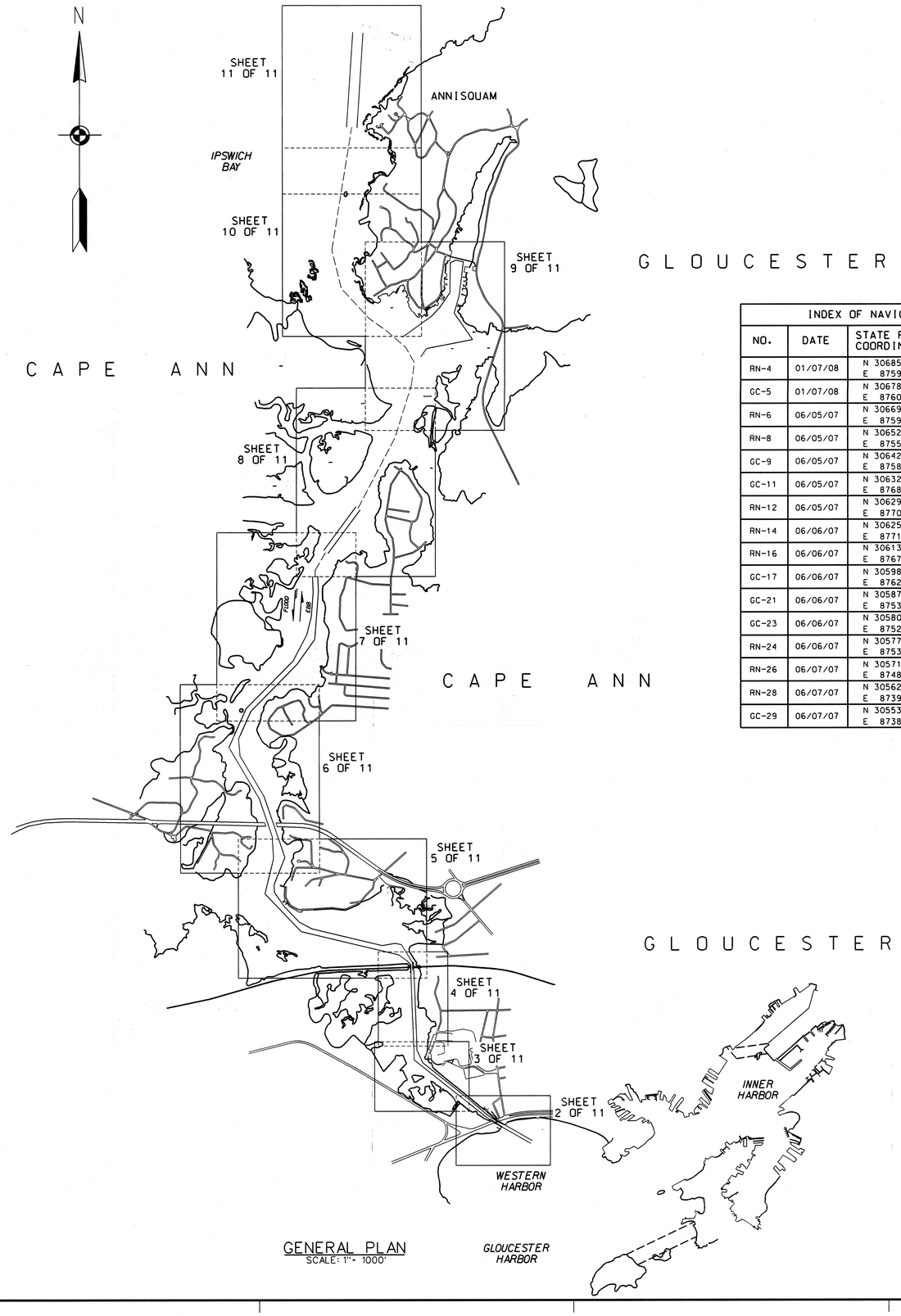
REVIEWED BY: Marvin T. Nancy, Asst. Chief, Survey Section
SUBMITTED BY: Marvin T. Nancy, Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 1/04/2012
SIZE: ANSI F
FILE NAME: GLO23V102.SI2
DATE: 1/4/12
DWN BY: VJG
CKD BY: SWK
DESIGN FILE: GLOHSP3.DGN
DRAWING CODE: 327

GLOUCESTER HARBOR
GLOUCESTER, MASSACHUSETTS
CONDITION SURVEY

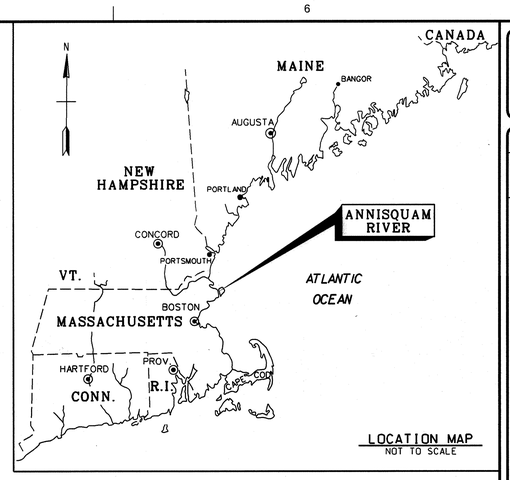
16, 18 AND 20-FOOT CHANNELS
15 AND 16-FOOT ANCHORAGES

SHEET IDENTIFICATION
V-102
SHEET 2 OF 2

SCANNED RECORD JAN. 2012



GENERAL PLAN
SCALE: 1" = 1000'



LOCATION MAP
NOT TO SCALE

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-4	01/07/08	N 3068582.37 E 875913.88	42° - 39′ - 55.6″N 70° - 40′ - 58.8″W
GC-5	01/07/08	N 3067803.64 E 876074.66	42° - 39′ - 47.9″N 70° - 40′ - 56.7″W
RN-6	06/05/07	N 3066961.70 E 875900.93	42° - 39′ - 39.6″N 70° - 40′ - 59.1″W
RN-8	06/05/07	N 3065211.41 E 875540.49	42° - 39′ - 22.3″N 70° - 41′ - 04.2″W
GC-9	06/05/07	N 3064249.05 E 875889.27	42° - 39′ - 12.8″N 70° - 40′ - 59.6″W
GC-11	06/05/07	N 3063275.33 E 876877.26	42° - 39′ - 03.1″N 70° - 40′ - 46.5″W
RN-12	06/05/07	N 3062905.50 E 877072.29	42° - 38′ - 59.4″N 70° - 40′ - 44.0″W
RN-14	06/06/07	N 3062522.63 E 877111.18	42° - 38′ - 55.6″N 70° - 40′ - 43.5″W
RN-16	06/06/07	N 3061310.19 E 876724.28	42° - 38′ - 43.7″N 70° - 40′ - 48.8″W
GC-17	06/06/07	N 3059882.18 E 876202.10	42° - 38′ - 29.6″N 70° - 40′ - 56.0″W
GC-21	06/06/07	N 3058760.57 E 875306.41	42° - 38′ - 18.7″N 70° - 41′ - 08.1″W
GC-23	06/06/07	N 3058014.22 E 875294.00	42° - 38′ - 11.3″N 70° - 41′ - 08.4″W
RN-24	06/06/07	N 3057770.90 E 875335.53	42° - 38′ - 08.9″N 70° - 41′ - 07.9″W
RN-26	06/07/07	N 3057108.87 E 874899.85	42° - 38′ - 02.4″N 70° - 41′ - 13.8″W
RN-28	06/07/07	N 3056213.21 E 873960.88	42° - 37′ - 53.6″N 70° - 41′ - 26.5″W
GC-29	06/07/07	N 3055330.05 E 873816.21	42° - 37′ - 44.9″N 70° - 41′ - 28.5″W

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-31	06/07/07	N 3054996.51 E 873985.49	42° - 37′ - 41.6″N 70° - 41′ - 26.3″W
RN-32	06/07/07	N 3054135.64 E 874344.47	42° - 37′ - 33.1″N 70° - 41′ - 21.6″W
GC-33	06/18/07	N 3053423.32 E 874646.76	42° - 37′ - 26.0″N 70° - 41′ - 17.6″W
RN-34	06/18/07	N 3053230.70 E 874551.81	42° - 37′ - 24.1″N 70° - 41′ - 18.9″W
RN-36	06/18/07	N 3052712.67 E 874369.66	42° - 37′ - 19.0″N 70° - 41′ - 21.4″W
RN-38	06/18/07	N 3052212.12 E 874779.76	42° - 37′ - 14.0″N 70° - 41′ - 16.0″W
GC-39	06/18/07	N 3052154.40 E 874943.88	42° - 37′ - 13.4″N 70° - 41′ - 13.8″W
RN-40	06/18/07	N 3051985.49 E 875059.10	42° - 37′ - 11.8″N 70° - 41′ - 12.3″W
GC-43	06/18/07	N 3051735.87 E 876279.30	42° - 37′ - 09.2″N 70° - 40′ - 56.0″W
RN-44	06/18/07	N 3051462.62 E 877039.43	42° - 37′ - 06.4″N 70° - 40′ - 45.9″W
RN-46	06/18/07	N 3050374.98 E 877108.11	42° - 36′ - 55.7″N 70° - 40′ - 45.1″W
GC-47	06/18/07	N 3049953.75 E 877211.15	42° - 36′ - 51.5″N 70° - 40′ - 43.8″W
GC-49	06/18/07	N 3049442.95 E 877292.20	42° - 36′ - 46.4″N 70° - 40′ - 42.8″W
RN-50	06/18/07	N 3049358.57 E 877353.79	42° - 36′ - 45.6″N 70° - 40′ - 42.0″W
R/W C "BC"	06/19/07	N 3047915.00 E 879369.03	42° - 36′ - 31.1″N 70° - 40′ - 15.2″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. 13281. 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 for Sheets 2 through 6: BM 1841A (1992) is a standard NOS disk, stamped "1841 A 1992", set in the dogleg corner of the concrete seawall at the northwest corner of the United States Coast Guard Heilpad Pier, 95.0 feet (29.0 m) south of the south corner of the United States Coast Guard Boathouse Building, 88.0 feet (27.0 m), north-northeast of the southwest corner of the pier, 40.2 feet (12.25 m) southeast of the south corner of a small A-Frame Building, and 0.5 foot (0.15 m) above sea level. Elevation is 14.92 feet above MLLW.
4. Bench Mark Data for Sheets 6 through 11: BM No. 4 (1967) is a standard USC&GS disk set in a 1.0 foot (0.30 m) high granite wall bordering the north side of the corner lot at River Road and Bridgewater Street in Annisquam near the west end of the Lobster Cove Footbridge, 23.3 feet (7.10 m) west of the River Road centerline, 16.4 feet (5.00 m), south of the Bridgewater Street centerline, and 3.3 feet (1.01 m) west of the east corner of the granite wall. Elevation is 22.40 feet above MLLW.
5. Coordinates shown are based on the Lambert Grid System for the Commonwealth of Massachusetts (Mainland Zone 2001) and NAD 1983.
6. Survey was performed using an Odom MK2 echotrac echosounder. Vessel positioning was obtained utilizing a Trimble 4000 SSE GPS Receiver with the U.S. Coast Guard Beacon System.
7. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during April, June 2007 and January 2008.
8. 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.
9. 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.
10. Field Books: R&H 4471 and 5033

8-foot depth contour shown thus:
Depthsounder Rolls: 07-885/01-06 and 08-920/01
Surveyed by: Paul K. O'Brien and Crew

GRAPHIC SCALE:
1" = 1000'
1000 0 1000 2000

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

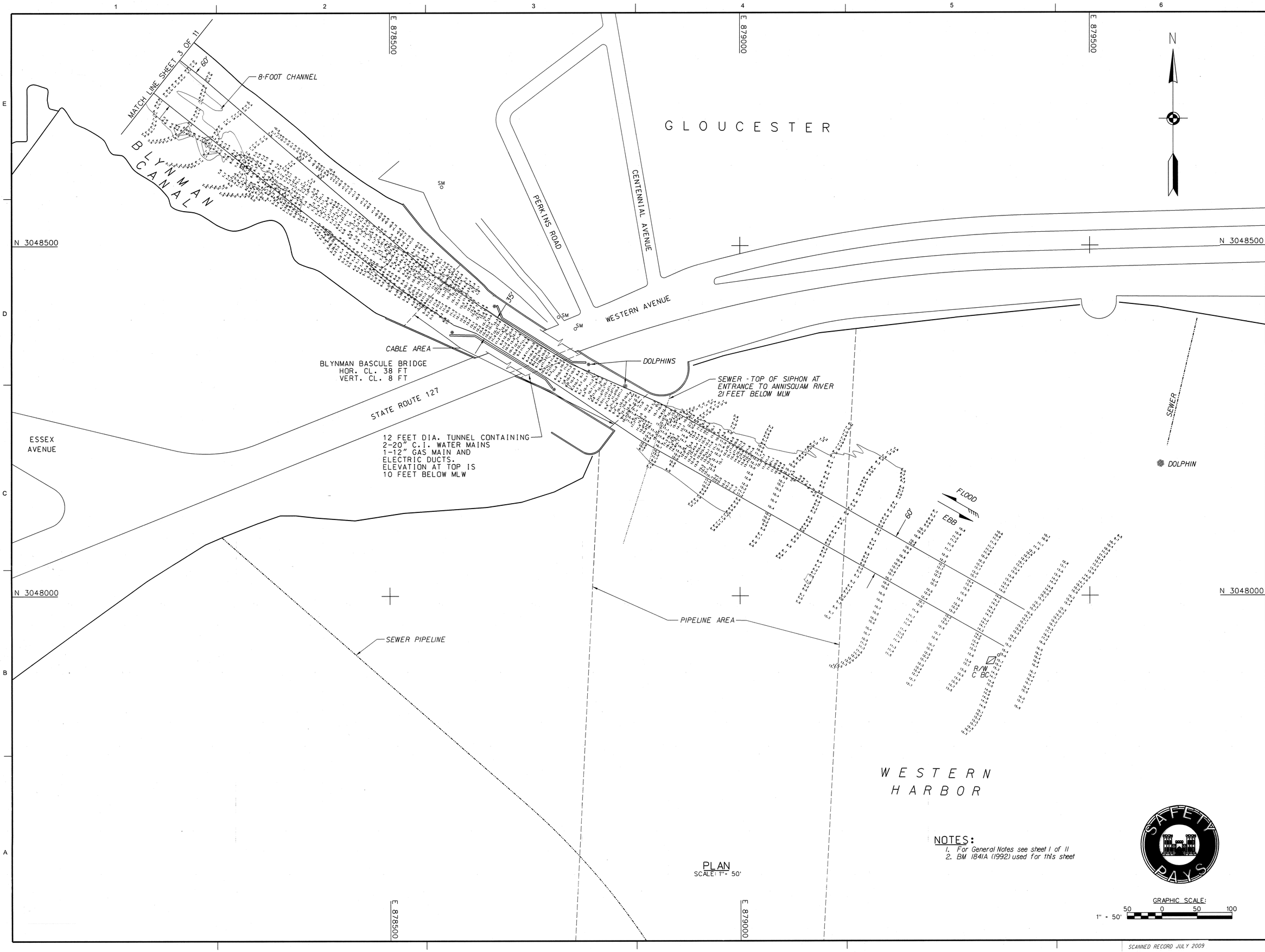
DATE: 6/22/2009
DWN BY: Staff
CKD BY: Staff
DESIGN FILE: ANNISPLDGN
DRAWING CODE: ANSI - 36
PLOT SCALE: 1:1000
PLOT DATE: 06/22/2009
F-STOP:
SIZE: ANSI F
FILE NAME: ANN2009101.S01

ANNISQUAM RIVER
GLOUCESTER, MASSACHUSETTS
CONDITION SURVEY

8 FOOT CHANNEL AND ANCHORAGE

SHEET IDENTIFICATION
V-101
SHEET 1 OF 11

SCANNED RECORD JUN 2009



PLAN
SCALE: 1" = 50'

NOTES:
1. For General Notes see sheet 1 of 11
2. BM 1841A (1992) used for this sheet

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

SAFETY DAYS

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

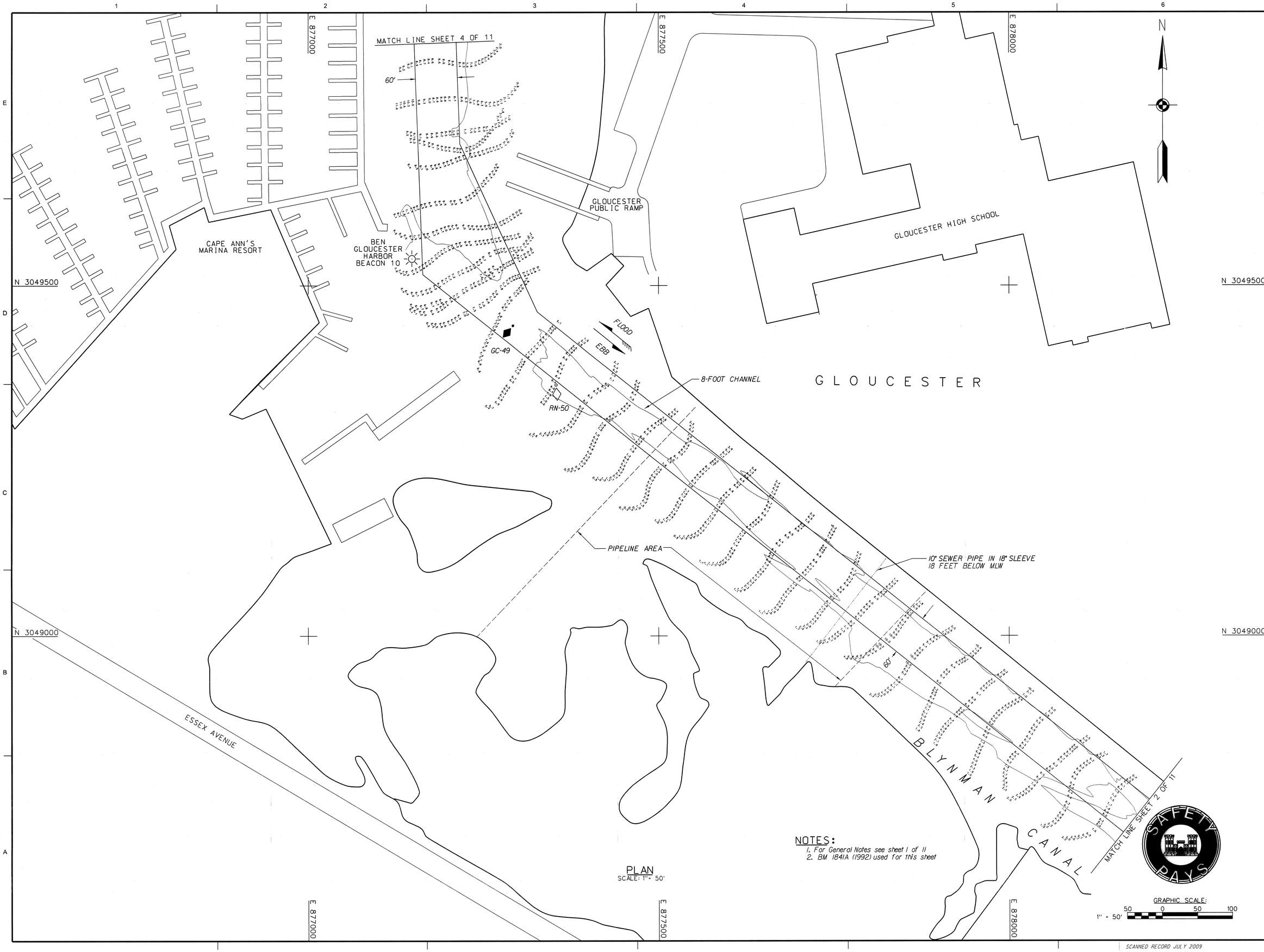
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 6/22/2009
DWN/CKD BY: SWK / MTM
DESIGN FILE:
DESIGN CODE:
DRAWING CODE: ASG-126
PLOT SCALE: 1" = 50'
PLOT DATE: 06/22/2009
SIZE: ANSI E
FILE NAME: ANNISQUAM_V02.DGN

ANNISQUAM RIVER
GLOUCESTER, MASSACHUSETTS
CONDITION SURVEY

8 FOOT CHANNEL AND ANCHORAGE

SHEET IDENTIFICATION
V-102
SHEET 2 OF 11

SCANNED RECORD JULY 2009



NOTES:
1. For General Notes see sheet 1 of 11
2. BM 1841A (1992) used for this sheet

PLAN
SCALE: 1" = 50'

US Army Corps of Engineers®
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MARK	DESCRIPTION	DATE	APPR

MARK	DESCRIPTION	DATE	APPR

U.S. ARMY CORPS OF ENGINEERS
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CONCORD, MASSACHUSETTS
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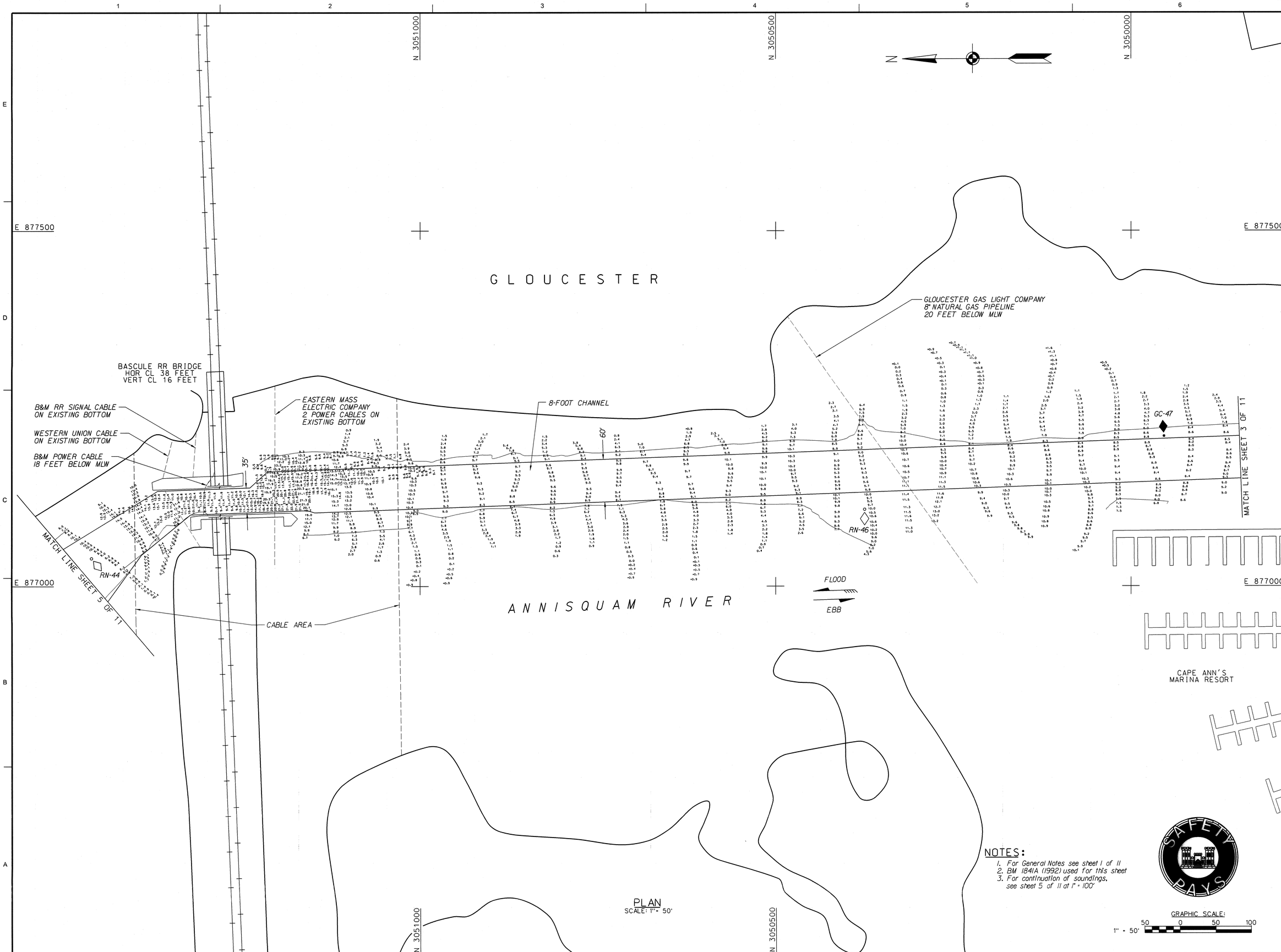
REVIEWED BY: Mark Tyrone
Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 6/22/2009
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: ANNISP3.DGN
DRAWING CODE: ARG-326
PLOT SCALE: 1" = 50'
PLOT DATE: 06/22/2009
FILE NAME: ANN326V103.S03
SIZE: ANSI F

ANNISQUAM RIVER
GLOUCESTER, MASSACHUSETTS
CONDITION SURVEY

8 FOOT CHANNEL AND ANCHORAGE

SHEET IDENTIFICATION
V-103
SHEET 3 OF 11

SCANNED RECORD JULY 2009



PLAN
SCALE: 1" = 50'

NOTES:

1. For General Notes see sheet 1 of 11
2. BM 1841A (1992) used for this sheet
3. For continuation of soundings, see sheet 5 of 11 at 1" = 100'

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

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MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

REVIEWED BY: Asst. Chief Survey Section
DATE: 6/22/2009
SUBMITTED BY: Chief, Survey Section
DATE: 6/22/2009
CHKD BY: SMM
DWN BY: EDWARD E. ANNIS/FLDSN
PLOT SCALE: 1" = 50'
PLOT DATE: 06/22/2009
DRAWING CODE: AREG 336
DGN FILE: ANN2009V104.S04

U.S. ARMY CORPS OF ENGINEERS
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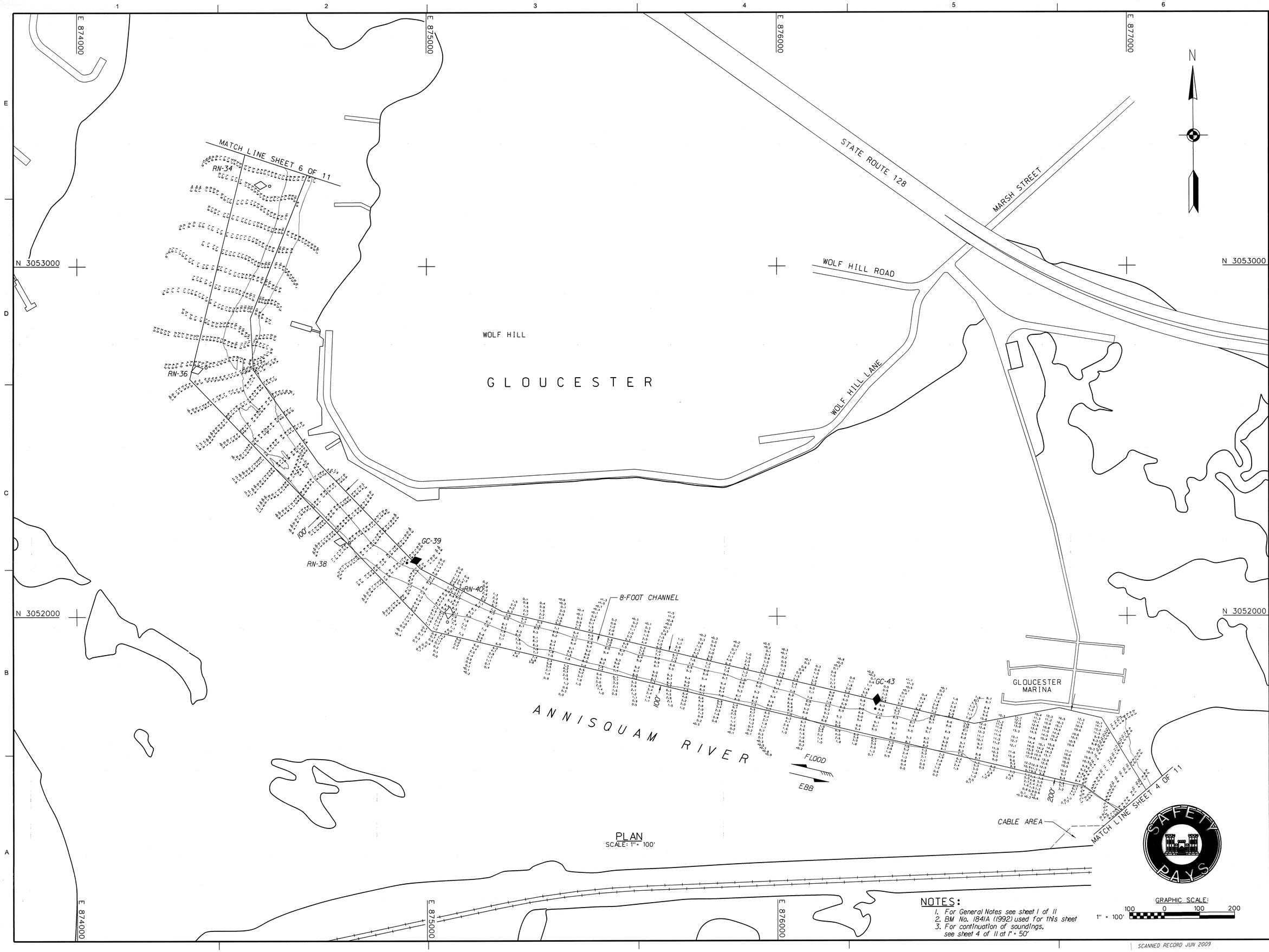
ANNISQUAM RIVER
GLOUCESTER, MASSACHUSETTS
CONDITION SURVEY

8 FOOT CHANNEL AND ANCHORAGE

SHEET IDENTIFICATION
V-104
SHEET 4 OF 11

SAFETY PAYS

SCANNED RECORD JUN 2009



PLAN
SCALE: 1" = 100'

NOTES:
1. For General Notes see sheet 1 of 11
2. BM No. 1841A (1992) used for this sheet
3. For continuation of soundings, see sheet 4 of 11 at 1" = 50'

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

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CONCORD, MASSACHUSETTS
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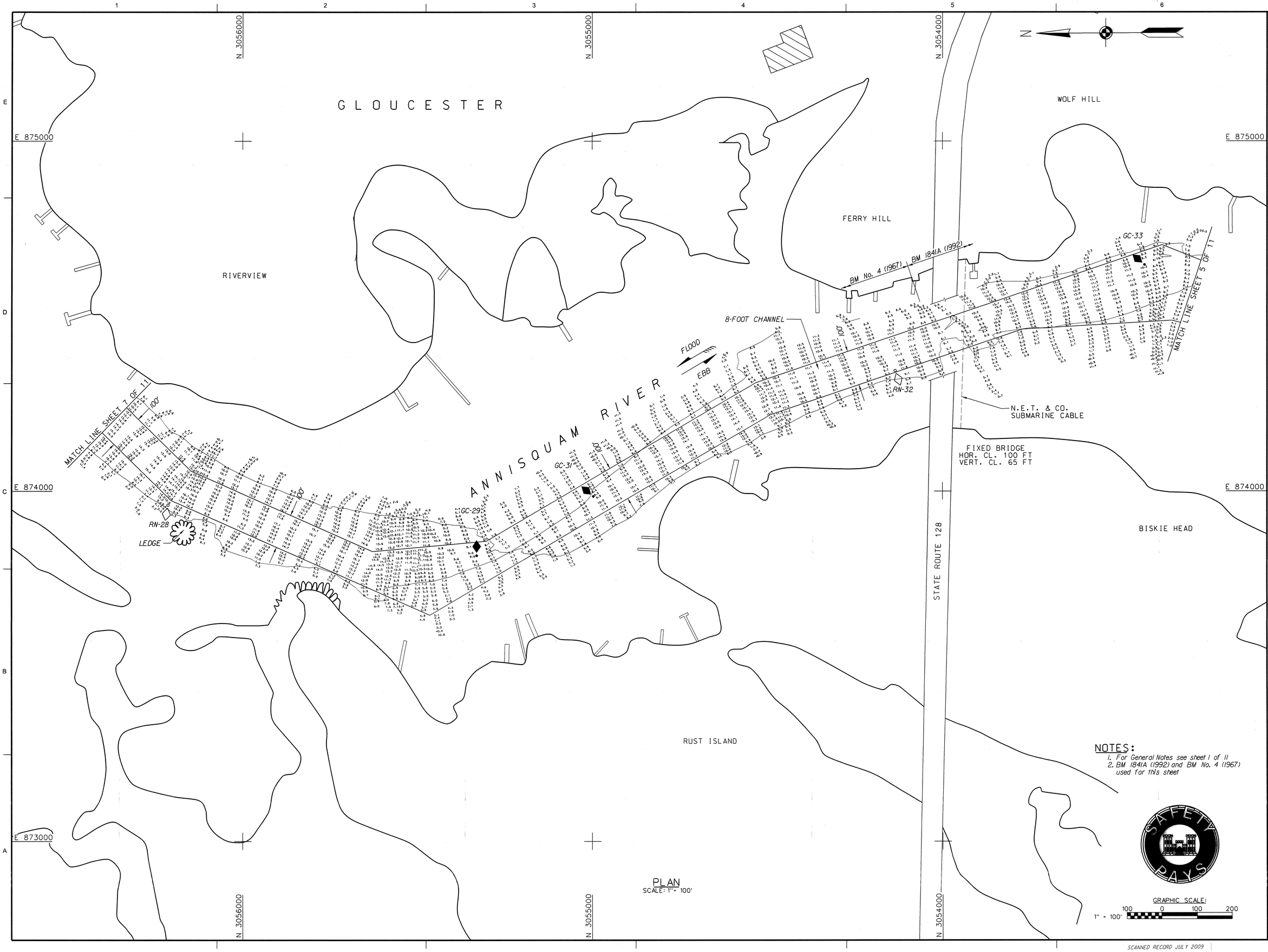
REVIEWED BY: Mark Tim
Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 06/22/2009
FILE NAME: ANN326V105.S05
SIZE: ANSI F
DATE: 6/22/2009
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: ANNHSP3.DGN
DRAWING CODE: ARG-326

ANNISQUAM RIVER
GLOUCESTER, MASSACHUSETTS
CONDITION SURVEY

8 FOOT CHANNEL AND ANCHORAGE

SHEET IDENTIFICATION
V-105
SHEET 5 OF 11

SCANNED RECORD JUN 2009



PLAN
SCALE: 1" = 100'

NOTES:
1. For General Notes see sheet 1 of 11
2. BM 1841A (1992) and BM No. 4 (1967) used for this sheet

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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CONCORD, MASSACHUSETTS
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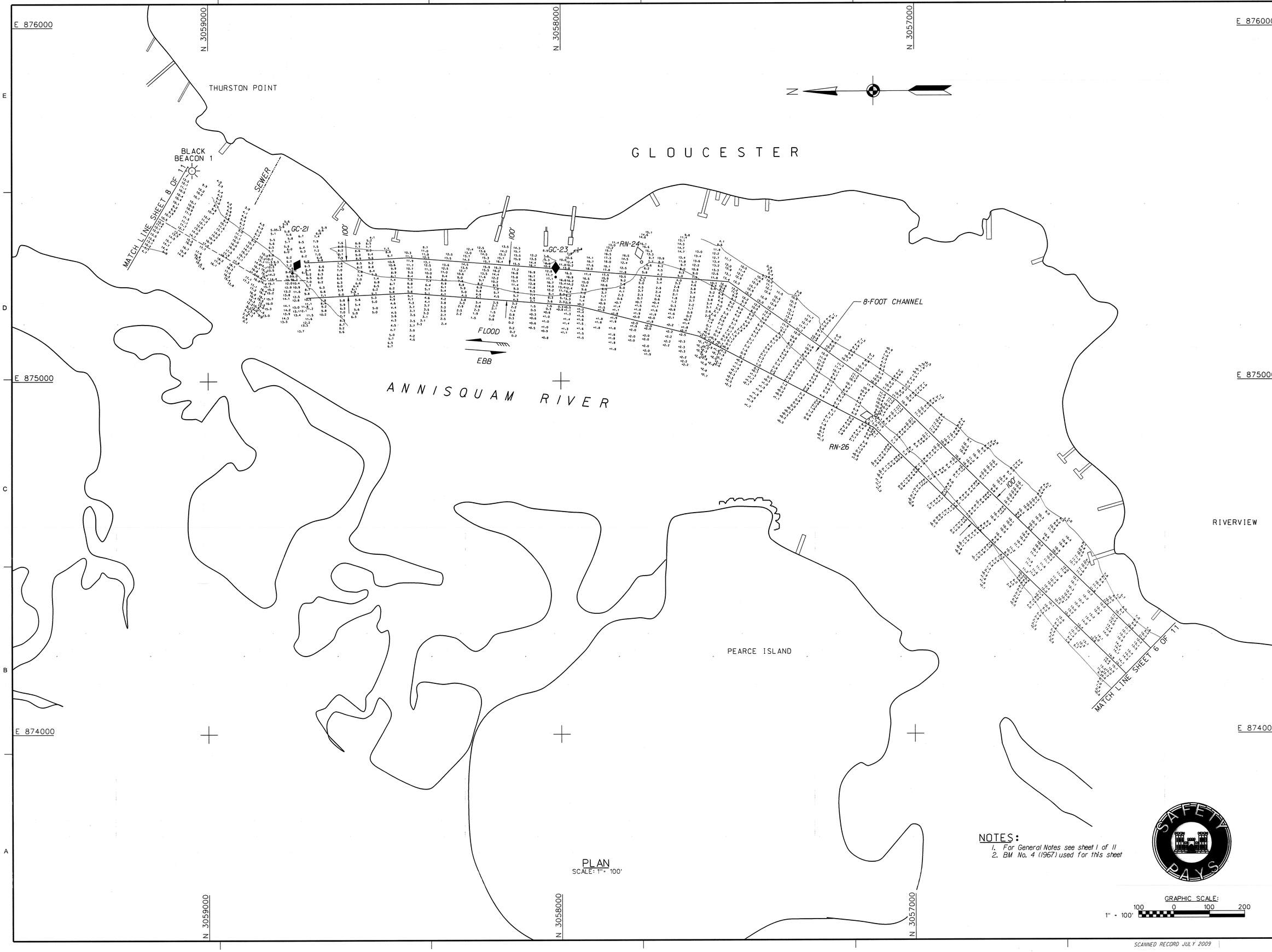
REVIEWED BY: Mark T. Mawson
Asst. Chief, Survey Section
SUBMITTED BY: Carl Sungenstein
Chief, Surveys Section
DATE: 6/22/2009
DWN BY: SWK SVK
CKD BY: MTM
DESIGN FILE: ANNISPS.DGN
DRAWING CODE: ARG-326
PLOT SCALE: 1" = 100'
PLOT DATE: 06/22/2009
SIZE: ANSI F
FILE NAME: ANN326V106.S06

ANNISQUAM RIVER
GLOUCESTER, MASSACHUSETTS
CONDITION SURVEY

8 FOOT CHANNEL AND ANCHORAGE

SHEET IDENTIFICATION
V-106
SHEET 6 OF 11

SCANNED RECORD JULY 2009



PLAN
SCALE: 1" = 100'

NOTES:
1. For General Notes see sheet 1 of 11
2. BM No. 4 (1967) used for this sheet

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
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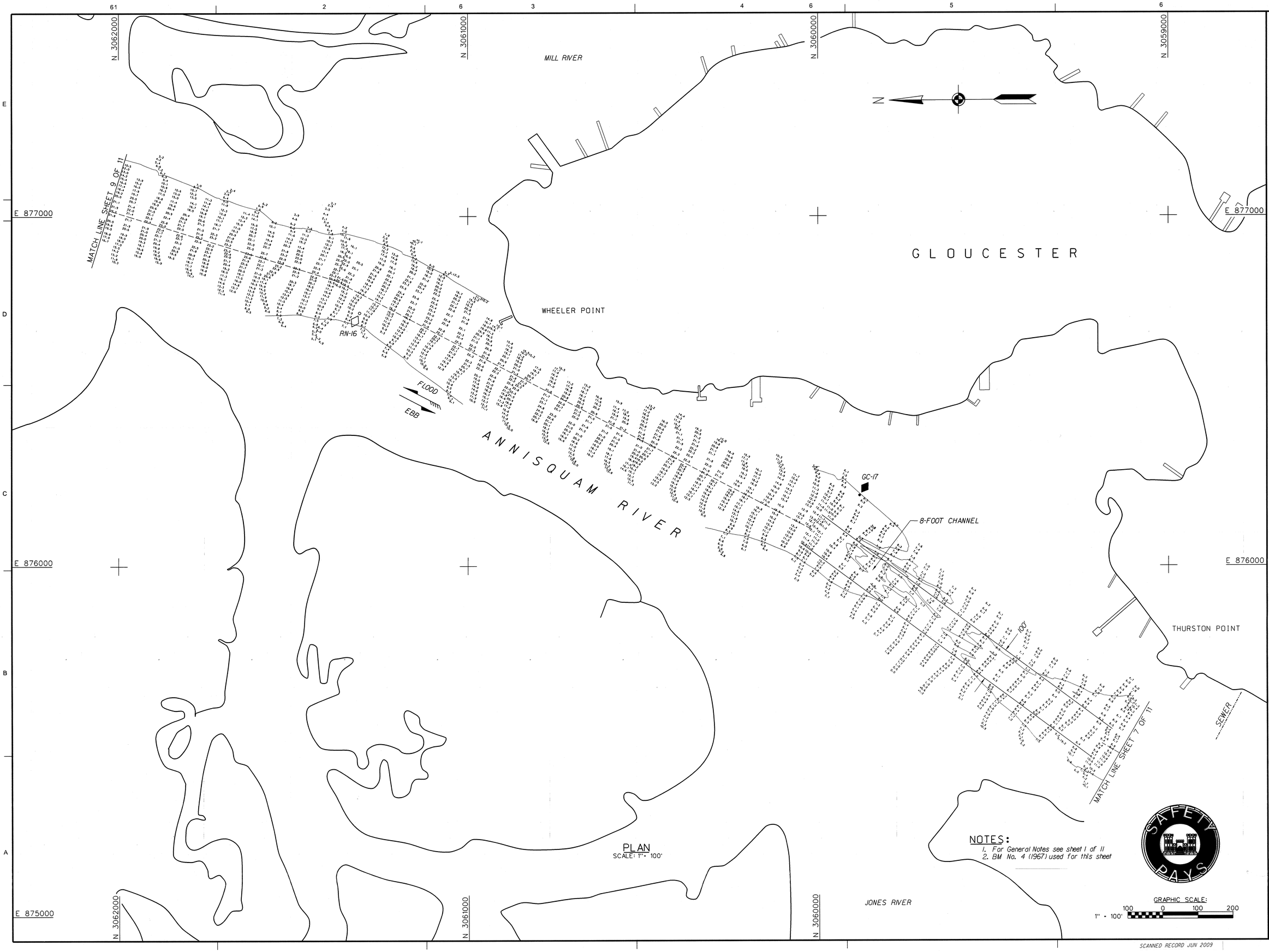
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 6/22/2009
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: ANNISP3.DGN
DRAWING CODE: ARG-326
PLOT SCALE: 1" = 100'
PLOT DATE: 06/22/2009
SIZE: ANSI F
FILE NAME: ANN326V107.S07

ANNISQUAM RIVER
GLOUCESTER, MASSACHUSETTS
CONDITION SURVEY

8 FOOT CHANNEL AND ANCHORAGE

SHEET IDENTIFICATION
V-107
SHEET 7 OF 11

SCANNED RECORD JULY 2009



PLAN
SCALE: 1" = 100'

NOTES:
1. For General Notes see sheet 1 of 11
2. BM No. 4 (1967) used for this sheet

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

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New England District

MARK	DESCRIPTION	DATE	APPR

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
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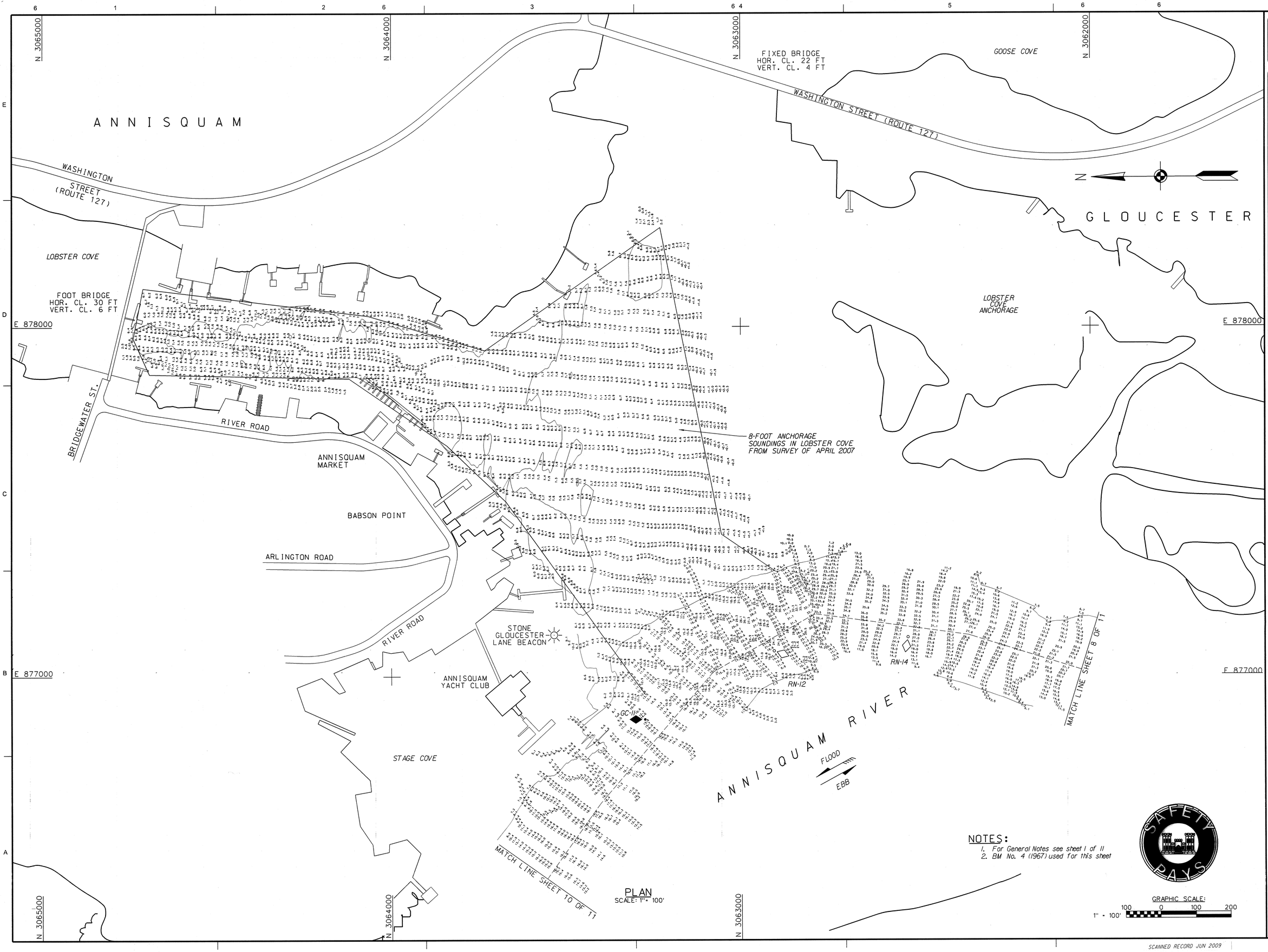
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Surveys Section
DATE: 6/22/2009
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: ANNISP3.DGN
DRAWING CODE: ARG-326
PLOT SCALE: 1" = 100'
PLOT DATE: 06/22/2009
SIZE: ANSI F
FILE NAME: ANN326V108.S08

ANNISQUAM RIVER
GLOUCESTER, MASSACHUSETTS
CONDITION SURVEY

8 FOOT CHANNEL AND ANCHORAGE

SHEET IDENTIFICATION
V-108
SHEET 8 OF 11

SCANNED RECORD JUN 2009



PLAN
SCALE: 1" = 100'

NOTES:
1. For General Notes see sheet 1 of 11
2. BM No. 4 (1967) used for this sheet

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, Hydraulic Design Section
SUBMITTED BY: Chief, Navigation Section
DATE: 6/22/2009
DRWN BY: CHECKED BY:
DATE:
DESIGN FILE: ANNISFIN.DGN
PLOT SCALE: 1"=100'
PLOT DATE:
DRAWING CODE: NAV-2B
SIZE: ANSI F
FILE NAME: A0N2X5Y109.509

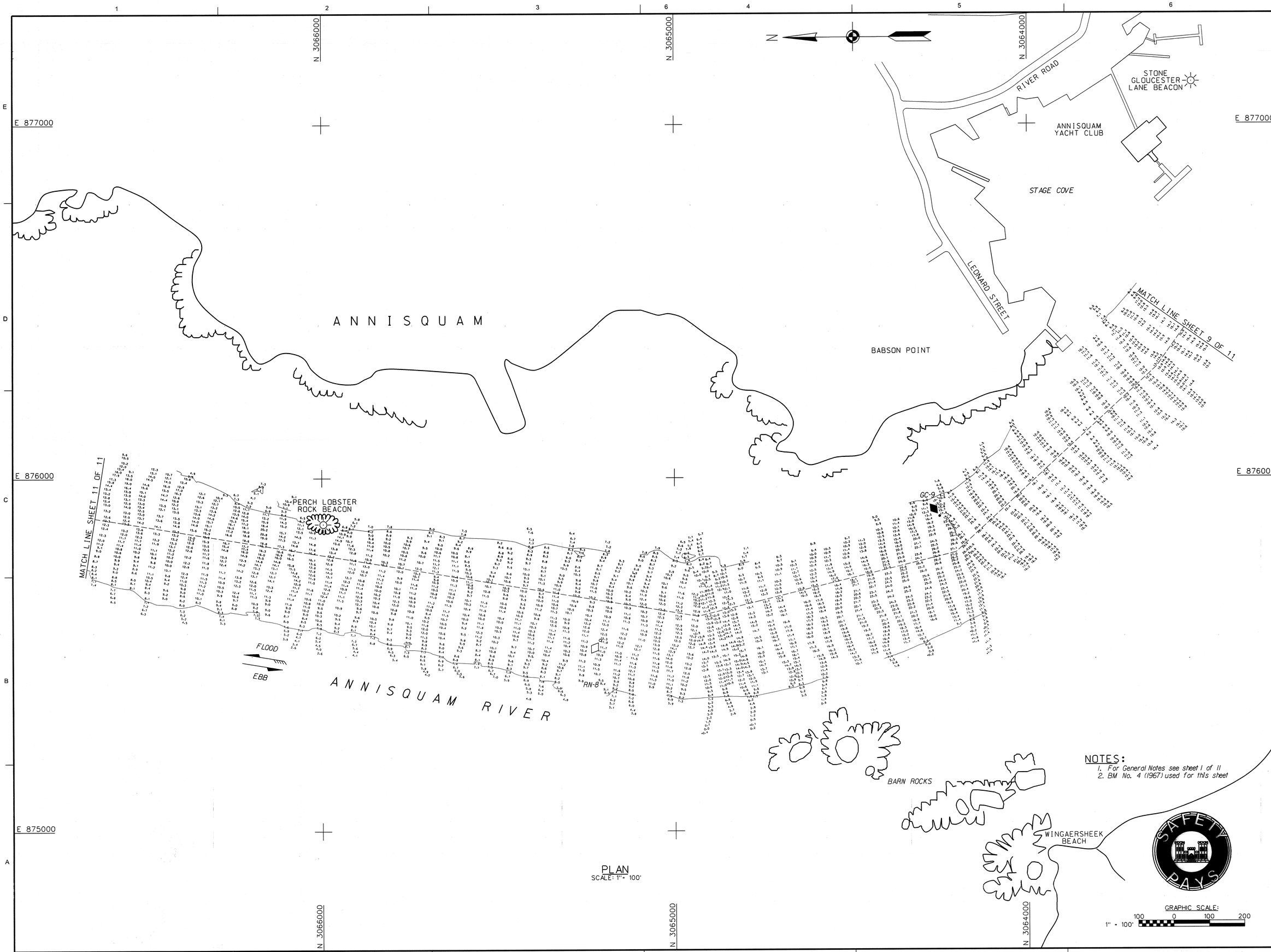
ANNISQUAM RIVER
GLOUCESTER, MASSACHUSETTS
CONDITION SURVEY

8-FOOT CHANNEL AND ANCHORAGE

SHEET IDENTIFICATION
V-109
SHEET 9 OF 11

SAFETY PAYS

SCANNED RECORD JUN 2009



PLAN
SCALE: 1" = 100'

NOTES:
1. For General Notes see sheet 1 of 11
2. BM No. 4 (1967) used for this sheet

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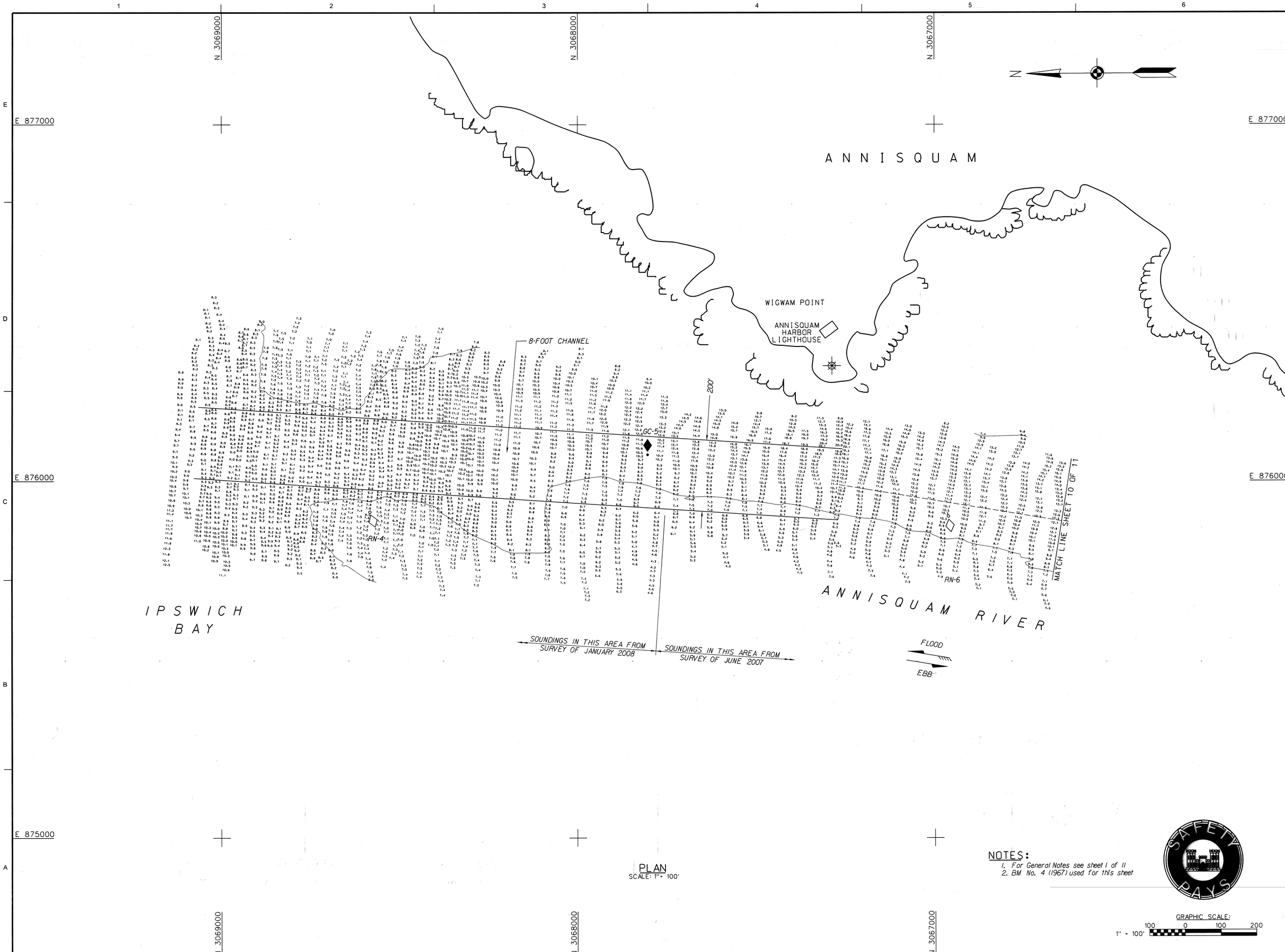
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 6/22/2009
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: ANNISQ3.DGN
DRAWING CODE: ARG-326
PLOT SCALE: 1" = 100'
PLOT DATE: 06/22/2009
SIZE: ANSI F
FILE NAME: ANN320V110.S10

ANNISQUAM RIVER
GLOUCESTER, MASSACHUSETTS
CONDITION SURVEY

8 FOOT CHANNEL AND ANCHORAGE

SHEET IDENTIFICATION
V-110
SHEET 10 OF 11

SCANNED RECORD JUN 2009



PLAN
SCALE: 1" = 100'

NOTES:
1. For General Notes see sheet 1 of 11
2. BM No. 4 (1967) used for this sheet

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

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REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY:
PLOT SCALE: 1" = 100'
PLOT DATE: 06/22/2009
SIZE: ANSI F
FILE NAME: ANN326V111.S11
DATE: 6/22/2009
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: ANNISQ3.DGN
DRAWING CODE: ARG-326

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CONDITION SURVEY

8 FOOT CHANNEL AND ANCHORAGE

SHEET IDENTIFICATION
V-111
SHEET 11 OF 11

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