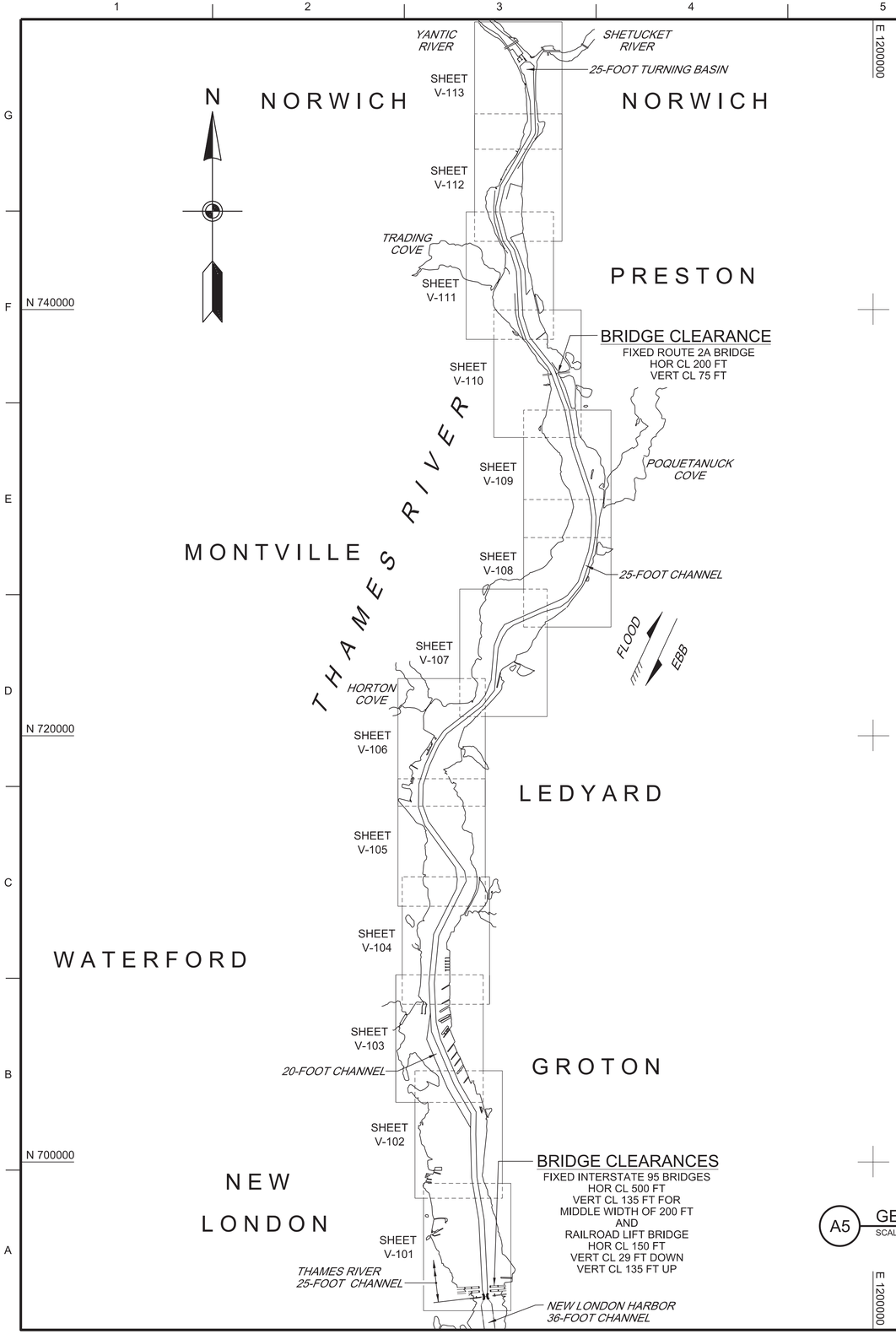


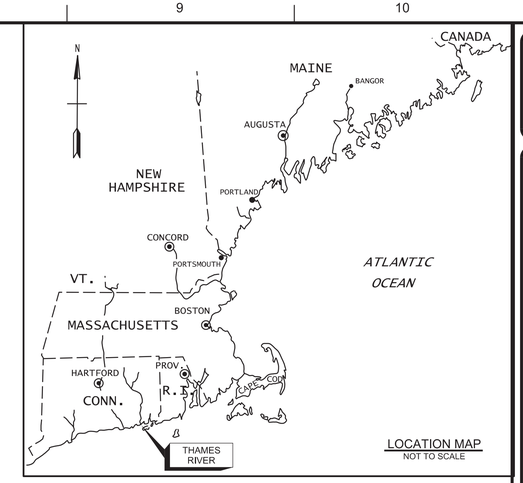
A5 GENERAL PLAN

SCALE: 1" = 3000'

0 3000' 6000'

INDEX OF NAVIGATION AIDS

NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
FL G-1	03/08/17	N 695161.51 E 1181437.32	41°-22'-01.4"W 72°-05'-20.4"W
GRC-EP	02/28/17	N 697691.97 E 1181225.68	41°-22'-26.4"W 72°-05'-22.9"W
FL G-3	02/28/17	N 700204.65 E 1181007.84	41°-22'-51.3"W 72°-05'-25.5"W
FL G-5	02/28/17	N 702552.61 E 1180406.04	41°-23'-14.5"W 72°-05'-33.2"W
FL G-7	03/02/17	N 705637.78 E 1179023.73	41°-23'-45.1"W 72°-05'-51.0"W
GC-9	02/28/17	N 707564.78 E 1179199.40	41°-24'-04.1"W 72°-05'-48.5"W
GC-13	03/02/17	N 710868.02 E 1179394.22	41°-24'-36.7"W 72°-05'-45.6"W
RN-14	03/02/17	N 713205.38 E 1180941.12	41°-24'-59.7"W 72°-05'-25.1"W
RN-16	03/08/17	N 715937.82 E 1179262.29	41°-25'-26.8"W 72°-05'-46.9"W
RN-20	03/15/17	N 719799.53 E 1179846.43	41°-26'-04.9"W 72°-05'-38.8"W
GC-23	03/16/17	N 724402.24 E 1182209.17	41°-26'-50.2"W 72°-05'-07.3"W
GC-25	03/16/17	N 725413.17 E 1182983.53	41°-27'-00.2"W 72°-04'-57.1"W
RN-26	03/16/17	N 725675.62 E 1184182.03	41°-27'-02.7"W 72°-04'-41.3"W
GC-29	03/16/17	N 727298.34 E 1186121.16	41°-27-18.5"W 72°-04'-15.7"W
WRN-30A	03/21/17	N 729576.51 E 1186864.54	41°-27'-41.0"W 72°-04'-05.7"W
GC-31	03/21/17	N 730342.85 E 1186753.76	41°-27'-48.6"W 72°-04'-07.0"W
GC-33	03/21/17	N 732053.81 E 1186301.33	41°-28'-05.5"W 72°-04'-12.8"W
RN-34	03/21/17	N 733682.70 E 1186026.80	41°-28'-21.6"W 72°-04'-16.3"W
GC-35	03/21/17	N 735314.25 E 1185527.54	41°-28'-37.8"W 72°-04'-22.6"W
RN-38	03/23/17	N 737504.99 E 1184821.77	41°-28'-59.5"W 72°-04'-31.7"W
GC-41	03/23/17	N 740882.46 E 1183345.70	41°-29'-33.0"W 72°-04'-50.7"W
RN-44	03/27/17	N 743276.42 E 1182818.54	41°-29'-56.7"W 72°-04'-57.4"W
GC-45	03/27/17	N 744265.95 E 1182314.61	41°-30'-06.5"W 72°-05'-03.9"W
RN-48	03/27/17	N 745755.58 E 1182645.89	41°-30'-21.2"W 72°-04'-59.4"W
GC-51	03/27/17	N 748061.87 E 1183809.20	41°-30'-43.9"W 72°-04'-43.9"W
GC-53	03/27/17	N 749734.37 E 1183849.81	41°-31'-00.4"W 72°-04'-43.2"W



LOCATION MAP
NOT TO SCALE

GENERAL NOTES:

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

2. TOPOGRAPHY SHOWN IS FROM PREVIOUS SURVEYS, AERIAL IMAGERY AND/OR NOAA CHART NOS. 12372 AND 13213. 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 RTK FILE WAS CREATED FROM THE MLLW TO NAVD88; CORRECTIONS RANGING FROM 1.85 TO 1.98 FEET ARE FROM THE NOAA V-DATUM MODEL IN THE THAMES RIVER FROM NEW LONDON TO NORWICH, CONNECTICUT. NAVD88 IS ABOVE MLLW; THEREFORE CORRECTION SHOULD BE ADDED TO NAVD88 TO CONVERT TO MLLW. NO TIDE GAUGES WERE USED ON THIS PROJECT. THE AVERAGE RANGE OF TIDE IS 2.6 FEET AT NEW LONDON, 2.7 FEET AT YALE BOATHOUSE AND 3.0 FEET AT NORWICH.

4. COORDINATES SHOWN ARE BASED ON THE LAMBERT GRID SYSTEM FOR THE STATE OF CONNECTICUT (ZONE 0600), NAD 1983 AND ARE BASED ON U.S. SURVEY FEET.

5. SURVEY WAS PERFORMED USING AN R2 SONIC 2024 MULTIBEAM SONAR SYSTEM OPERATING AT 300 KHZ. HORIZONTAL POSITIONING AND REAL TIME TIDE READINGS WERE RECORDED UTILIZING A TRIMBLE SPS 855 RTK GPS SYSTEM. THE RTK BASE STATIONS USED WERE STATION STATE PIER (2017), SUB (2017), POWER LINE (2017), MOHEGAN (2008) AND KEITH (2017) .

6. THE SOUNDING INFORMATION SHOWN ON THESE MAPS REPRESENTS THE SHOALEST SOUNDINGS OF THOSE OBTAINED FROM HYDROGRAPHIC SURVEYS CONDUCTED FROM FEBRUARY THRU MARCH 2017.

7. THE SOUNDING INFORMATION DEPICTED ON THESE MAPS SHOULD NOT BE USED TO DETERMINE VOLUMES. VOLUMES ARE DETERMINED FROM MORE SOUNDING INFORMATION THAN SHOWN.

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 CONDITIONS EXISTING AT THAT TIME.

9. FIELD BOOK: R&H 4466
   20-FOOT DEPTH CONTOUR SHOWN THUS:
   25-FOOT DEPTH CONTOUR SHOWN THUS:
   SURVEYED BY: ROBERT MACGOVERN AND CREW
   REFER TO SURVEY NO. 17-1450

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DWN BY: SWK | CHK BY: WHW | ISSUE DATE: MAY 2, 2017

REVIEWED BY: DAVID WILLIAMS | DRAWING CODE: TRA-2170

Asst. Chief, Survey Sec. | SHEET 1 OF 14

APPROVED BY: WILLIAM WALSH

For: Chief, Survey Section

SIZE: ANSI D | SCALE: 1:1

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

THAMES RIVER
NEW LONDON TO NORWICH, CONNECTICUT
CONDITION SURVEY

20 AND 25-FOOT CHANNELS
25-FOOT TURNING BASIN

SHEET ID

G-001

A4 PLAN - STA. 0+00 TO STA. 50+00

SCALE: 1" = 200'

0 200' 400'

NOTE:
FOR GENERAL NOTES SEE SHEET G-001.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 2, 2017

DRAWING CODE: THA-8710

SHEET 2 OF 14

DWN BY: SWK | CHK BY: WHW

REVIEWED BY: WALKER, WILLIAM H. JR. CIV USACE NAE

Asst. Chief, Survey Sec.

APPROVED BY: WALKER, WILLIAM H. JR. CIV USACE NAE

For: Chief, Survey Section

SCALE: 1:1

SIZE: ANSI D

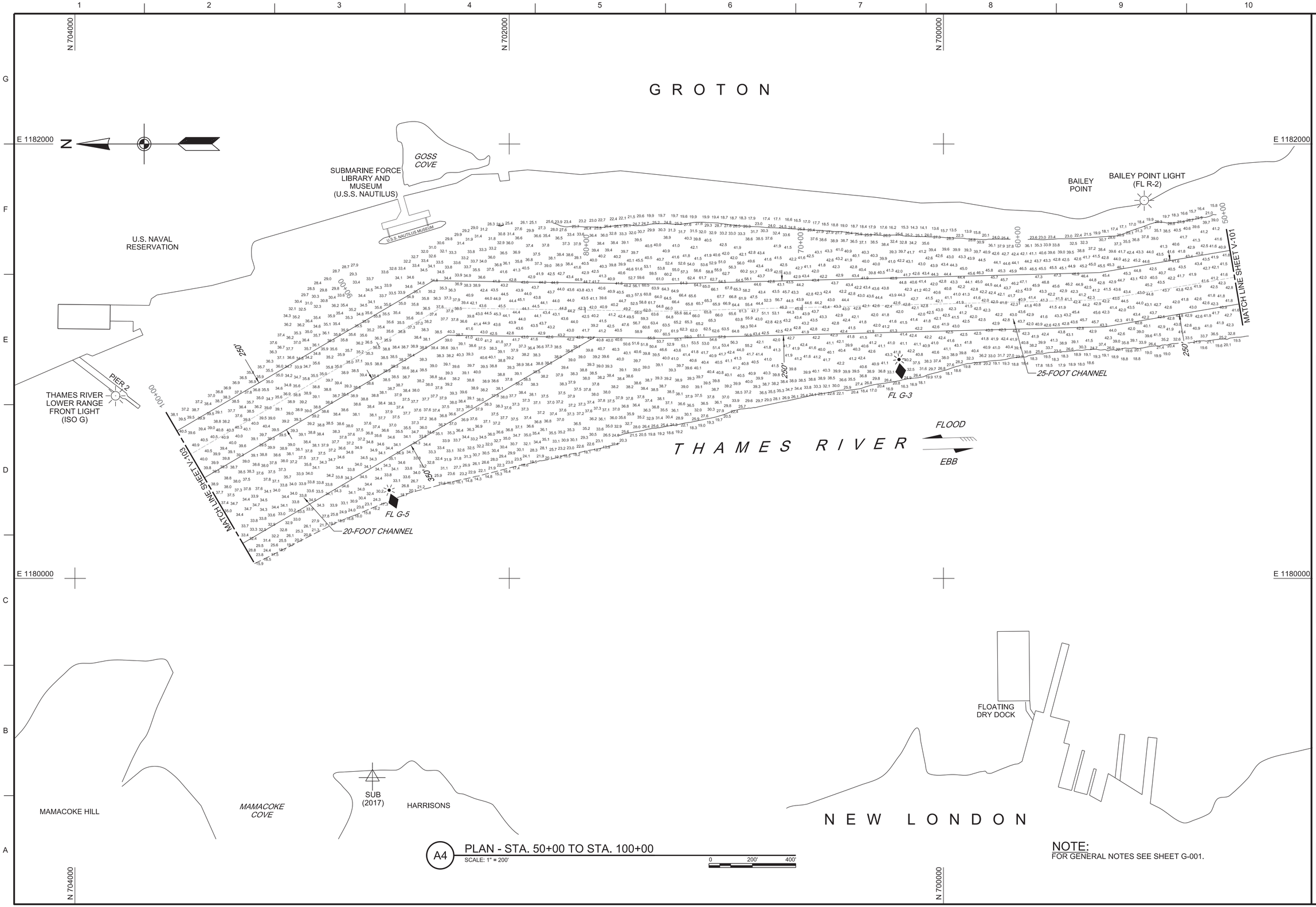
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

THAMES RIVER
NEW LONDON TO NORWICH, CONNECTICUT
CONDITION SURVEY

20 AND 25-FOOT CHANNELS
25-FOOT TURNING BASIN

SHEET ID

V-101



A4 PLAN - STA. 50+00 TO STA. 100+00

SCALE: 1" = 200'

0 200' 400'

NOTE:
FOR GENERAL NOTES SEE SHEET G-001.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

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

DWN BY: SWK | CHK BY: WHW | ISSUE DATE: MAY 2, 2017

REVIEWED BY: WALKER, WILLIAM H. Digitally signed by WALKER, WILLIAM H. DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=WALKER, WILLIAM H. 1229837090 Date: 2017.05.02 08:42:00 -04'00'
Asst. Chief, Survey Sec.

APPROVED BY: WALSH, MICHAEL J. Digitally signed by WALSH, MICHAEL J. DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=WALSH, MICHAEL J. 1229837090 Date: 2017.05.02 08:42:00 -04'00'
For: Chief, Survey Section

DRAWING CODE: THA-870 | SHEET 3 OF 14

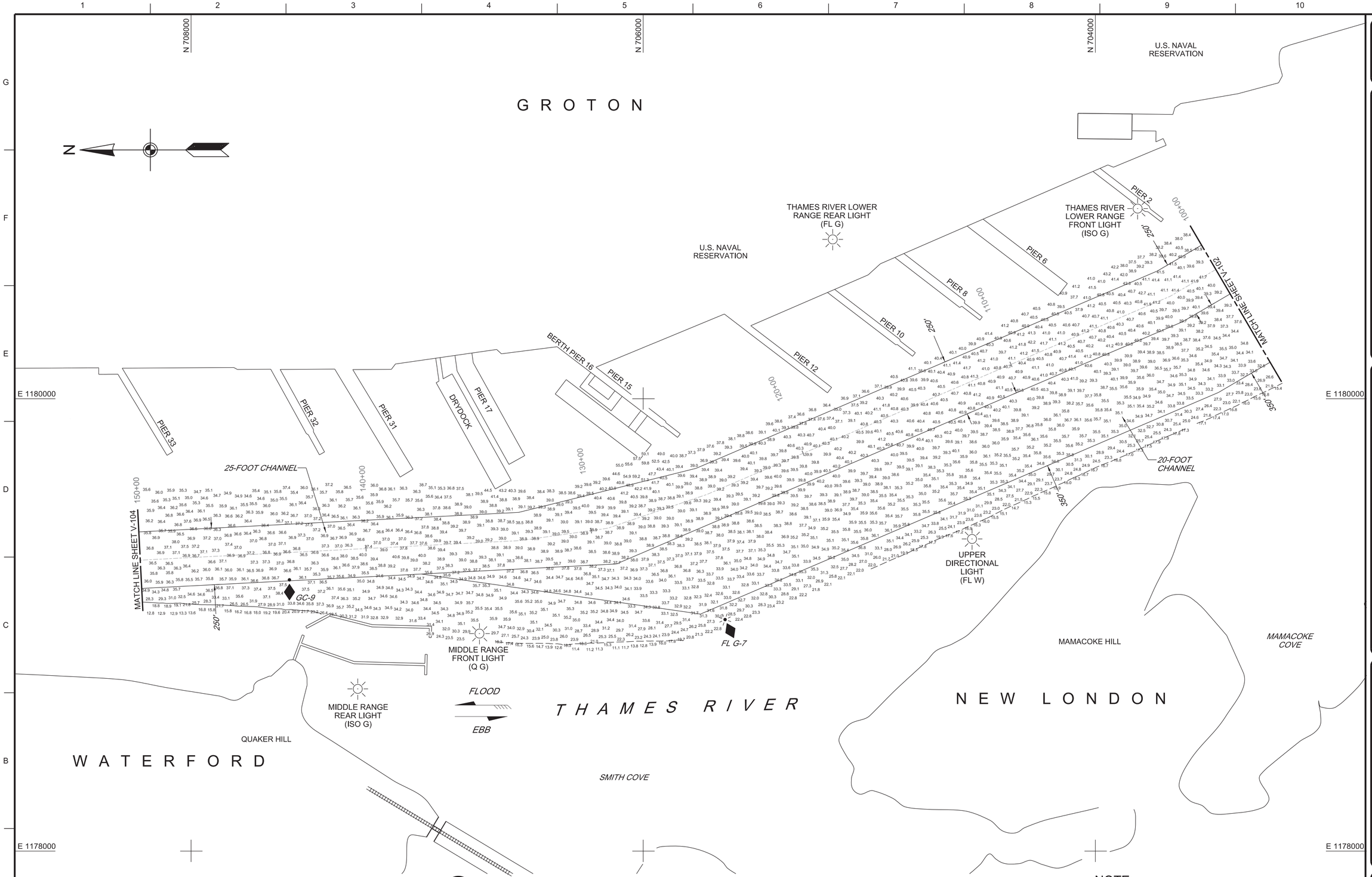
SCALE: ANSI D 1:1

THAMES RIVER
NEW LONDON TO NORWICH, CONNECTICUT
CONDITION SURVEY

20 AND 25-FOOT CHANNELS
25-FOOT TURNING BASIN

SHEET ID

V-102



A4 PLAN - STA. 100+00 TO STA. 150+00

SCALE: 1" = 200'

0 200' 400'

NOTE:
FOR GENERAL NOTES SEE SHEET G-001.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DWN BY: SWK
CHK BY: WHW
REVIEWED BY: WALKER, WILLIAM H. JR. CPT
Asst. Chief, Survey Sec.
APPROVED BY: WALKER, WILLIAM H. JR. CPT
For: Chief, Survey Section
SCALE: 1:1
ANSI D

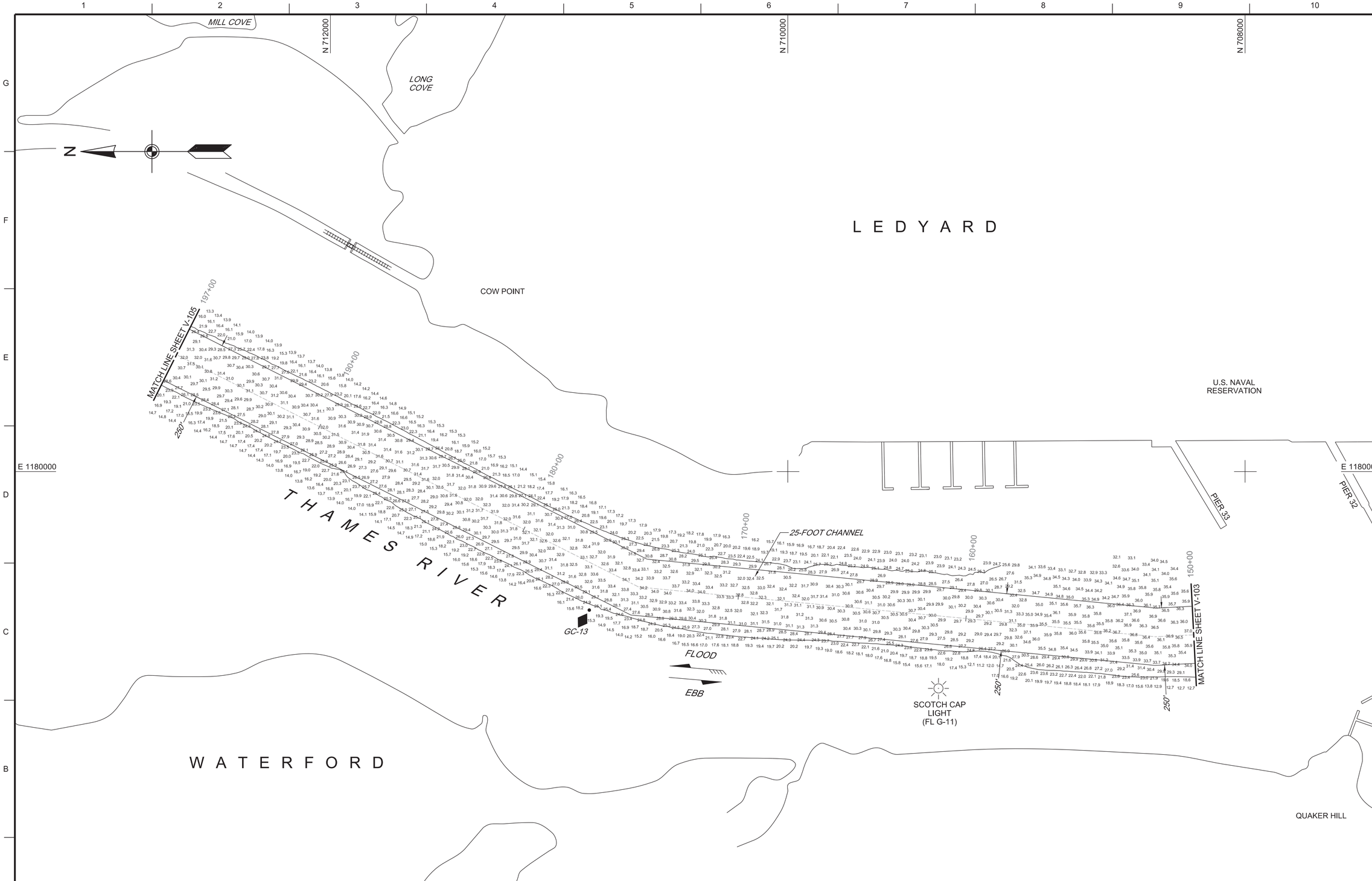
ISSUE DATE: MAY 2, 2017
DRAWING CODE: THA-870
SHEET 4 OF 14

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

THAMES RIVER
NEW LONDON TO NORWICH, CONNECTICUT
CONDITION SURVEY

20 AND 25-FOOT CHANNELS
25-FOOT TURNING BASIN

SHEET ID
V-103



A4 PLAN - STA. 150+00 TO STA. 197+00

SCALE: 1" = 200'

0 200' 400'

NOTE:
FOR GENERAL NOTES SEE SHEET G-001.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 2, 2017

DWN BY: SWK | CHK BY: WHW

REVIEWED BY: WALKER, WILLIAM H. 12/05/2016 08:00:00 EST

Asst. Chief, Survey Sec.

APPROVED BY: WALKER, WILLIAM H. 12/05/2016 08:00:00 EST

For: Chief, Survey Section

DATE: 12/05/2016

SCALE: ANSI D 1:1

DRAWING CODE: THA-870

SHEET 5 OF 14

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

THAMES RIVER
NEW LONDON TO NORWICH, CONNECTICUT
CONDITION SURVEY

20 AND 25-FOOT CHANNELS
25-FOOT TURNING BASIN

SHEET ID

V-104

A4 PLAN - STA. 197+00 TO STA. 250+00

SCALE: 1" = 200'

0 200' 400'

NOTE:
FOR GENERAL NOTES SEE SHEET G-001.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DWN BY: SWK | CHK BY: WHW | ISSUE DATE: MAY 2, 2017

REVIEWED BY: MAUREEN WILLIAMS, P.E. Chief, Engineering Division

APPROVED BY: MICHAEL J. ROSSO, P.E. Chief, Survey Section

DRAWING CODE: THA-870

SHEET 6 OF 14

SCALE: 1:1

ANSI D

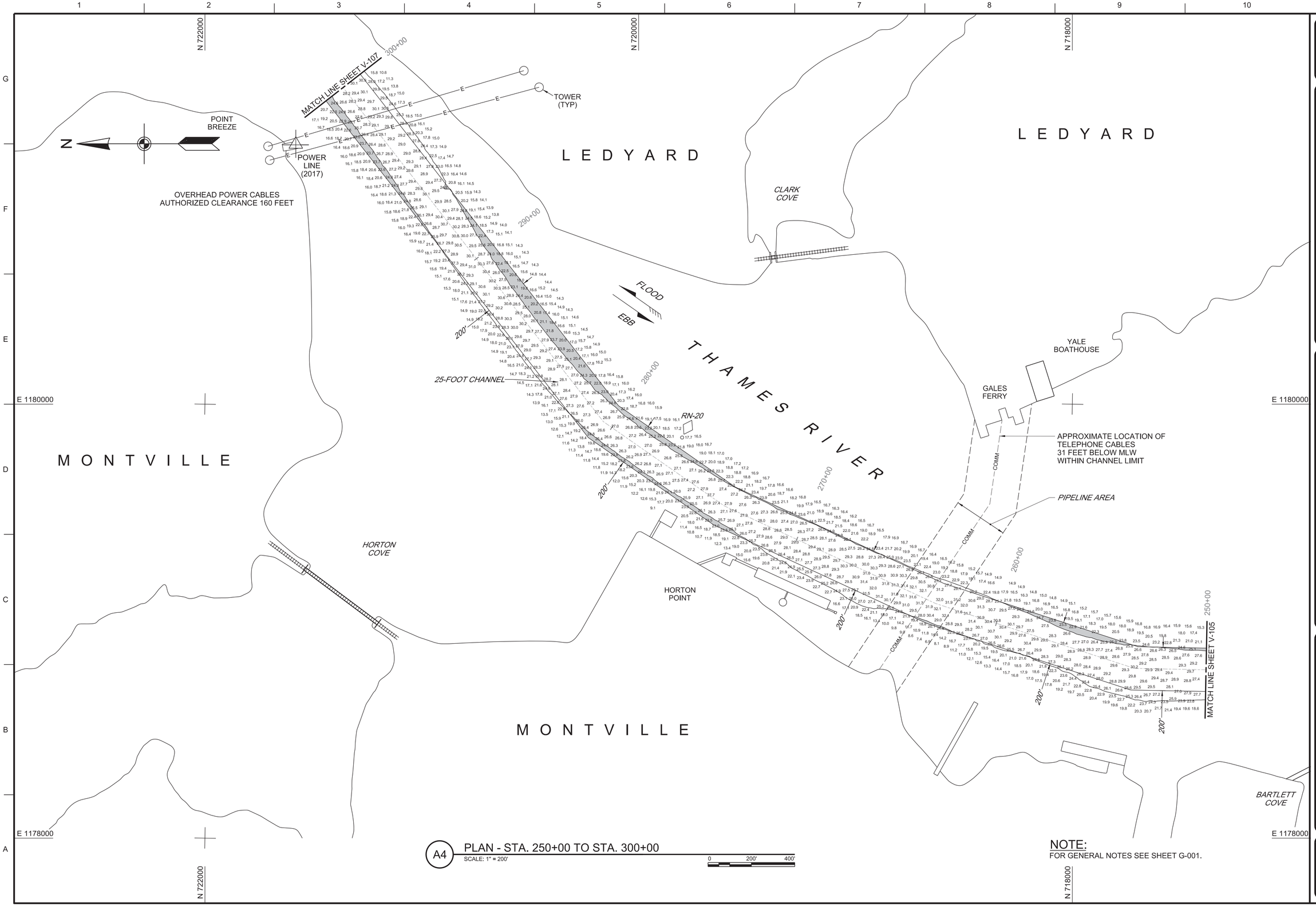
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

THAMES RIVER
NEW LONDON TO NORWICH, CONNECTICUT
CONDITION SURVEY

20 AND 25-FOOT CHANNELS
25-FOOT TURNING BASIN

SHEET ID

V-105



A4 PLAN - STA. 250+00 TO STA. 300+00

SCALE: 1" = 200'

0 200' 400'

NOTE:
FOR GENERAL NOTES SEE SHEET G-001.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 2, 2017

DWN BY: SWK | CHK BY: WHW

REVIEWED BY: WALKER, WILLIAM H. JR. CIV USACE NAE

APPROVED BY: WALKER, WILLIAM H. JR. CIV USACE NAE

Asst. Chief, Survey Sec.

For: Chief, Survey Section

DRAWING CODE: THA-870

SHEET 7 OF 14

SIZE: ANSI D | SCALE: 1:1

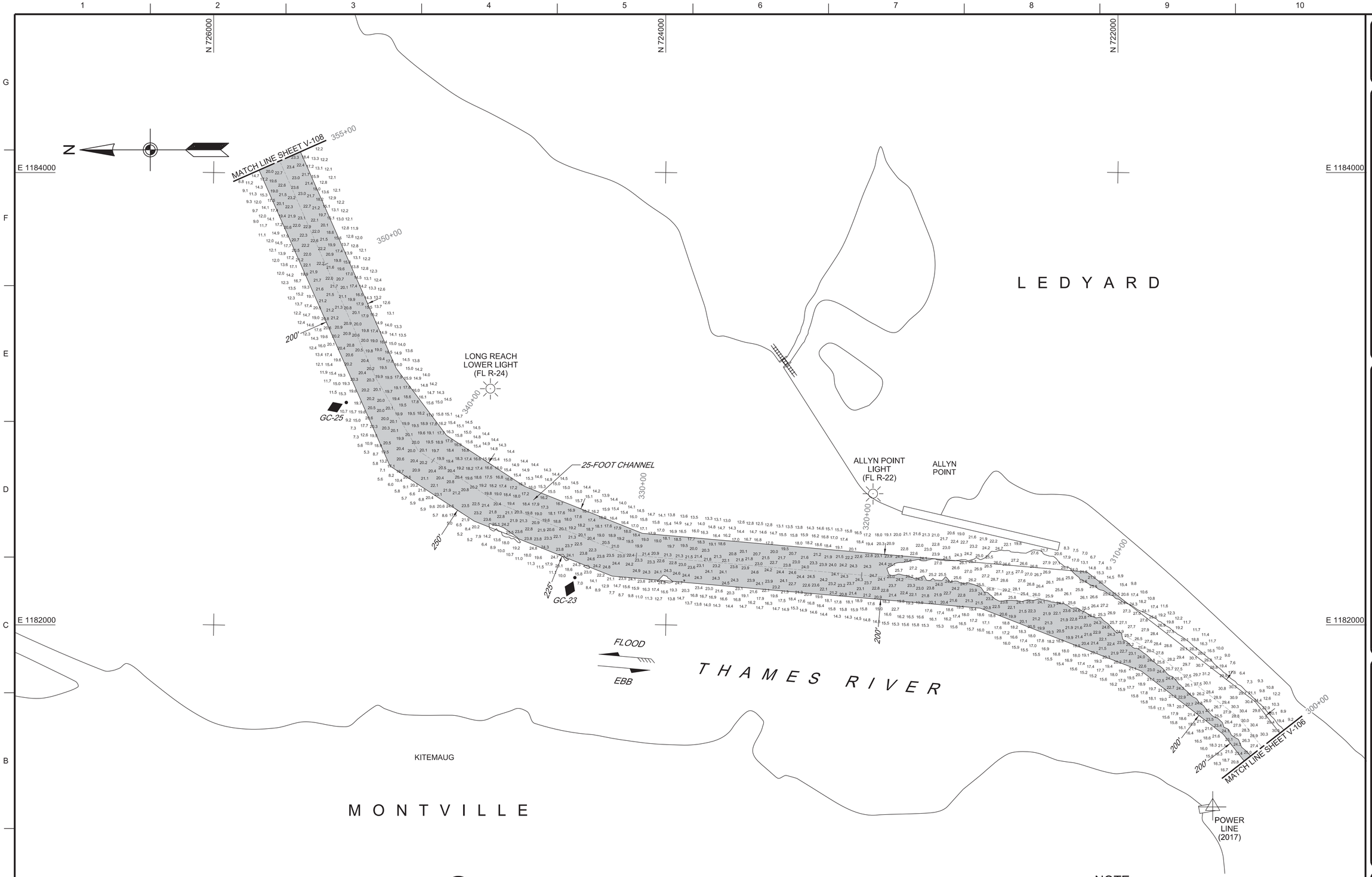
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

THAMES RIVER
NEW LONDON TO NORWICH, CONNECTICUT
CONDITION SURVEY

20 AND 25-FOOT CHANNELS
25-FOOT TURNING BASIN

SHEET ID

V-106



A4 PLAN - STA. 300+00 TO STA. 355+00

SCALE: 1" = 200'

0 200' 400'

NOTE:
FOR GENERAL NOTES SEE SHEET G-001.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 2, 2017

DRAWING CODE: THA-870

SHEET 8 OF 14

DWN BY: SWK | CHK BY: WHW

REVIEWED BY: WHW

REVIEWED BY: MAJ KEVIN WILLIAMS, P.E. Asst. Chief, Survey Sec.

APPROVED BY: MAJ KEVIN WILLIAMS, P.E. For: Chief, Survey Section

SCALE: 1:1

ANSI D

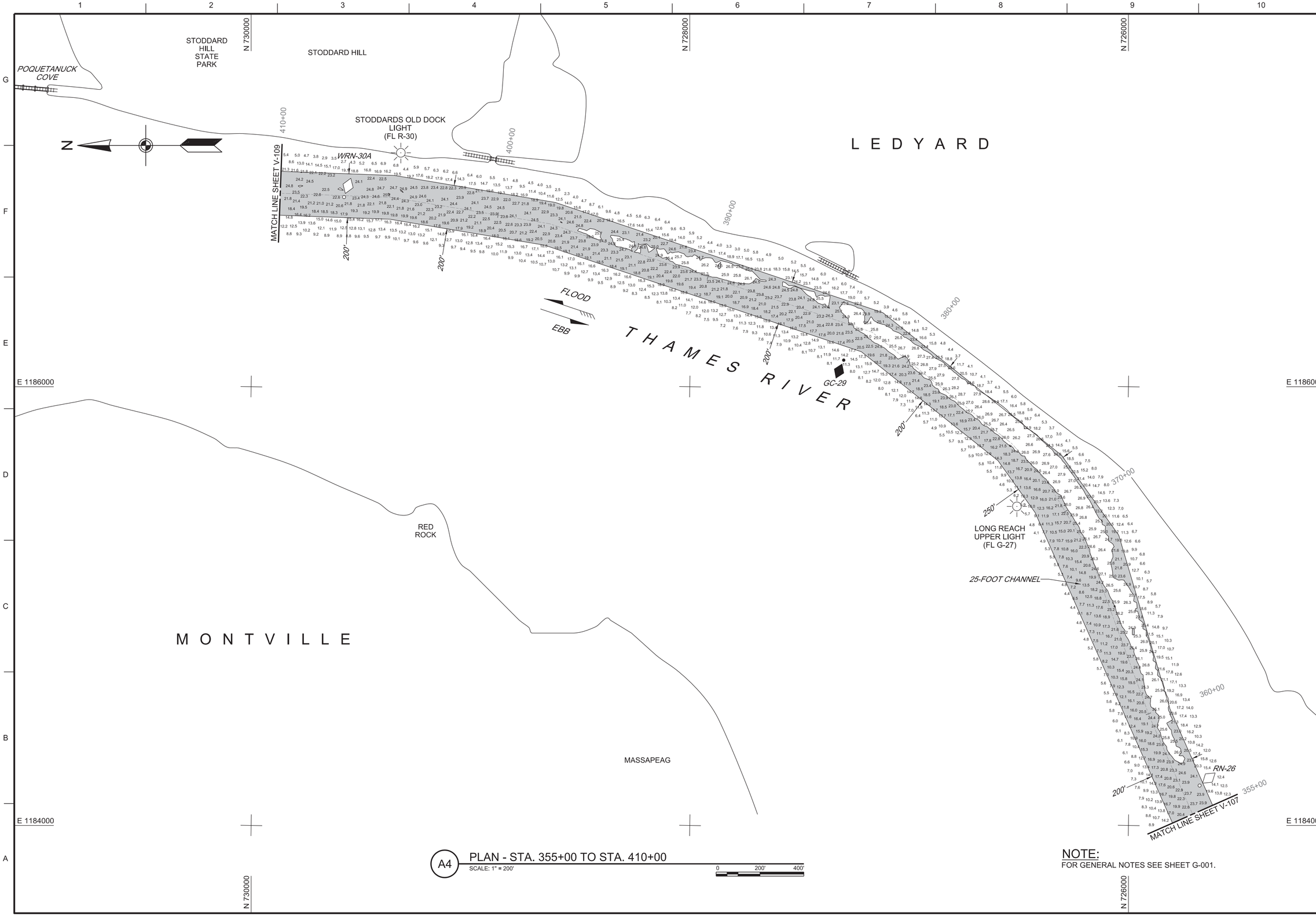
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

THAMES RIVER
NEW LONDON TO NORWICH, CONNECTICUT
CONDITION SURVEY

20 AND 25-FOOT CHANNELS
25-FOOT TURNING BASIN

SHEET ID

V-107



A4 PLAN - STA. 355+00 TO STA. 410+00

SCALE: 1" = 200'

0 200' 400'

NOTE:
FOR GENERAL NOTES SEE SHEET G-001.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DWN BY: SWK
CHK BY: WHW
REVIEWED BY: STAGE BRILLMAN 1.126
STAGE BRILLMAN 1.126
Asst. Chief, Survey Sec.
APPROVED BY: WILLIAM WHITE 1.126
WILLIAM WHITE 1.126
For: Chief, Survey Section
SCALE: ANSI D 1:1

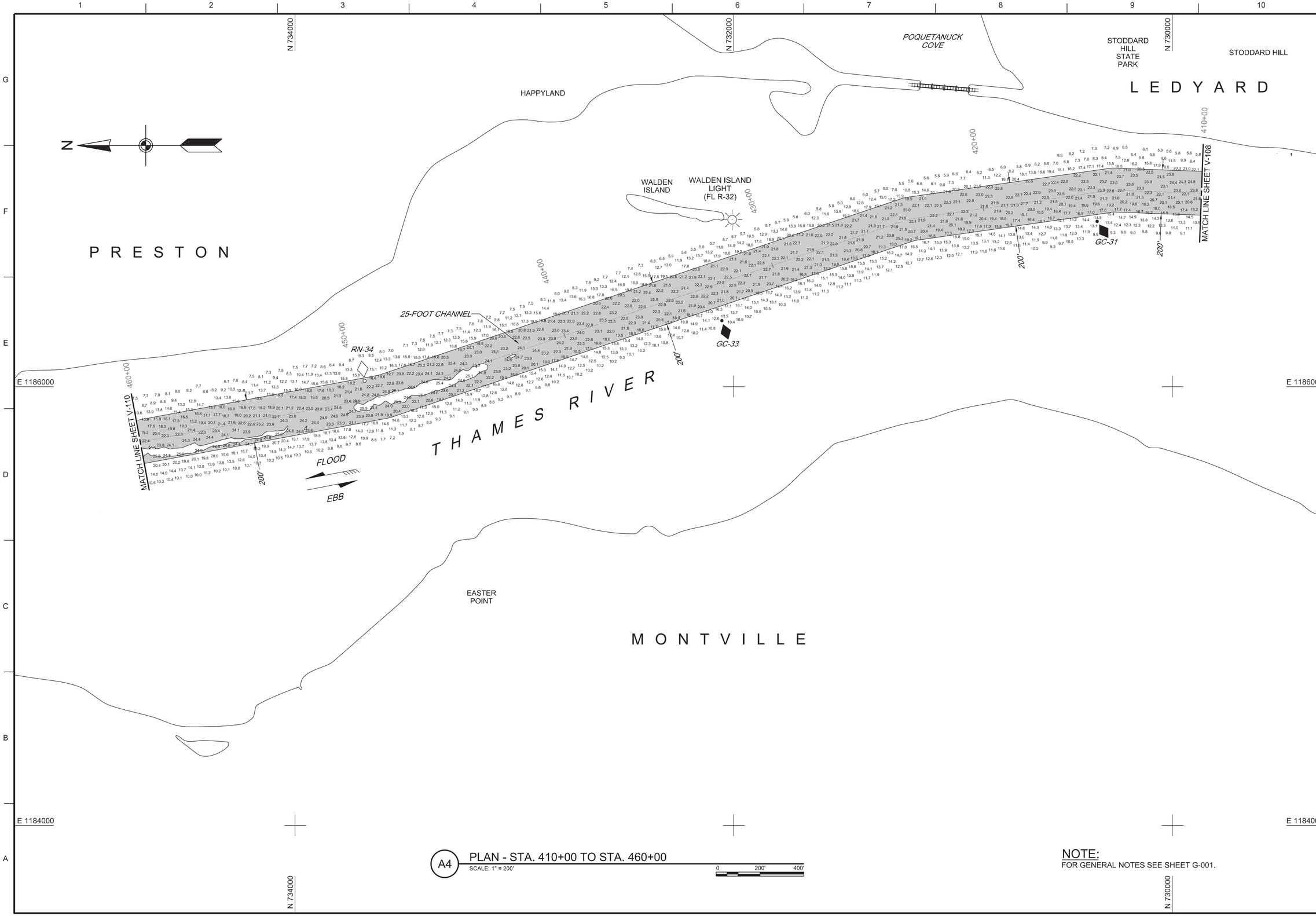
ISSUE DATE: MAY 2, 2017
DRAWING CODE: THA-8700
SHEET 9 OF 14

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

THAMES RIVER
NEW LONDON TO NORWICH, CONNECTICUT
CONDITION SURVEY

20 AND 25-FOOT CHANNELS
25-FOOT TURNING BASIN

SHEET ID
V-108



A4 PLAN - STA. 410+00 TO STA. 460+00

SCALE: 1" = 200'

0 200' 400'

NOTE:
FOR GENERAL NOTES SEE SHEET G-001.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

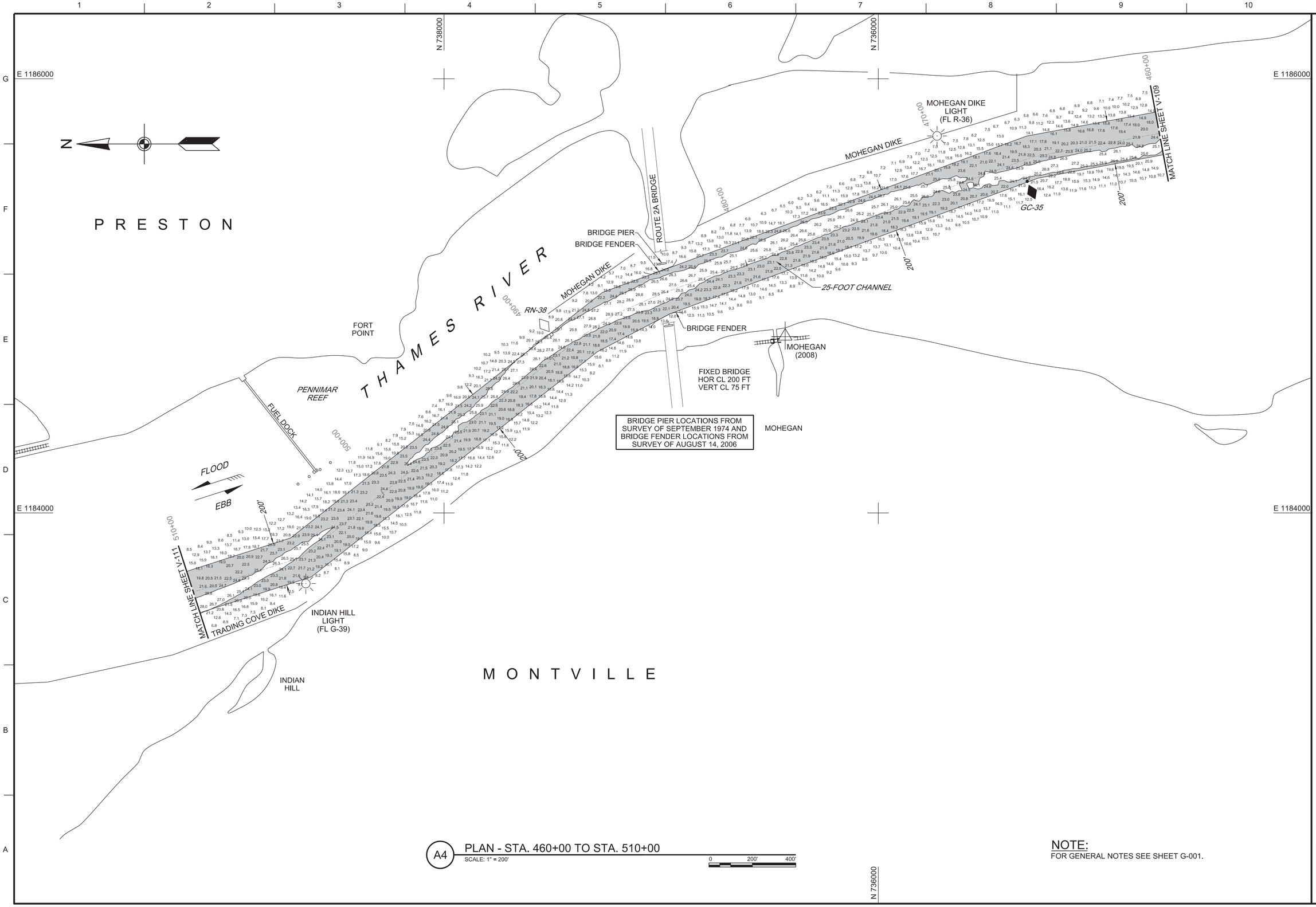
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

DWN BY: SWK
CHK BY: WHW
REVIEWED BY: WALKER, WILLIAM H. Supervisory Civil Engineer
APPROVED BY: WALKER, WILLIAM H. Asst. Chief, Survey Sec.
ISSUE DATE: MAY 2, 2017
DRAWING CODE: THA-2770
For: Chief, Survey Section
SHEET 10 OF 14
SIZE: ANSI D
SCALE: 1:1

THAMES RIVER
NEW LONDON TO NORWICH, CONNECTICUT
CONDITION SURVEY

20 AND 25-FOOT CHANNELS
25-FOOT TURNING BASIN

SHEET ID
V-109



BRIDGE PIER LOCATIONS FROM SURVEY OF SEPTEMBER 1974 AND BRIDGE FENDER LOCATIONS FROM SURVEY OF AUGUST 14, 2006

A4 PLAN - STA. 460+00 TO STA. 510+00

SCALE: 1" = 200'

0 200' 400'

NOTE:
FOR GENERAL NOTES SEE SHEET G-001.

MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 2, 2017

DWN BY: SWK | CHK BY: WHW

REVIEWED BY: WALKER, WILLIAM H. 1/05/2017 08:00:00 AM GMT-05:00 Asst. Chief, Survey Sec.

APPROVED BY: WALKER, WILLIAM H. 1/05/2017 08:00:00 AM GMT-05:00 For: Chief, Survey Section

DRAWING CODE: THA-870

SHEET 11 OF 14

SIZE: ANSI D | SCALE: 1:1

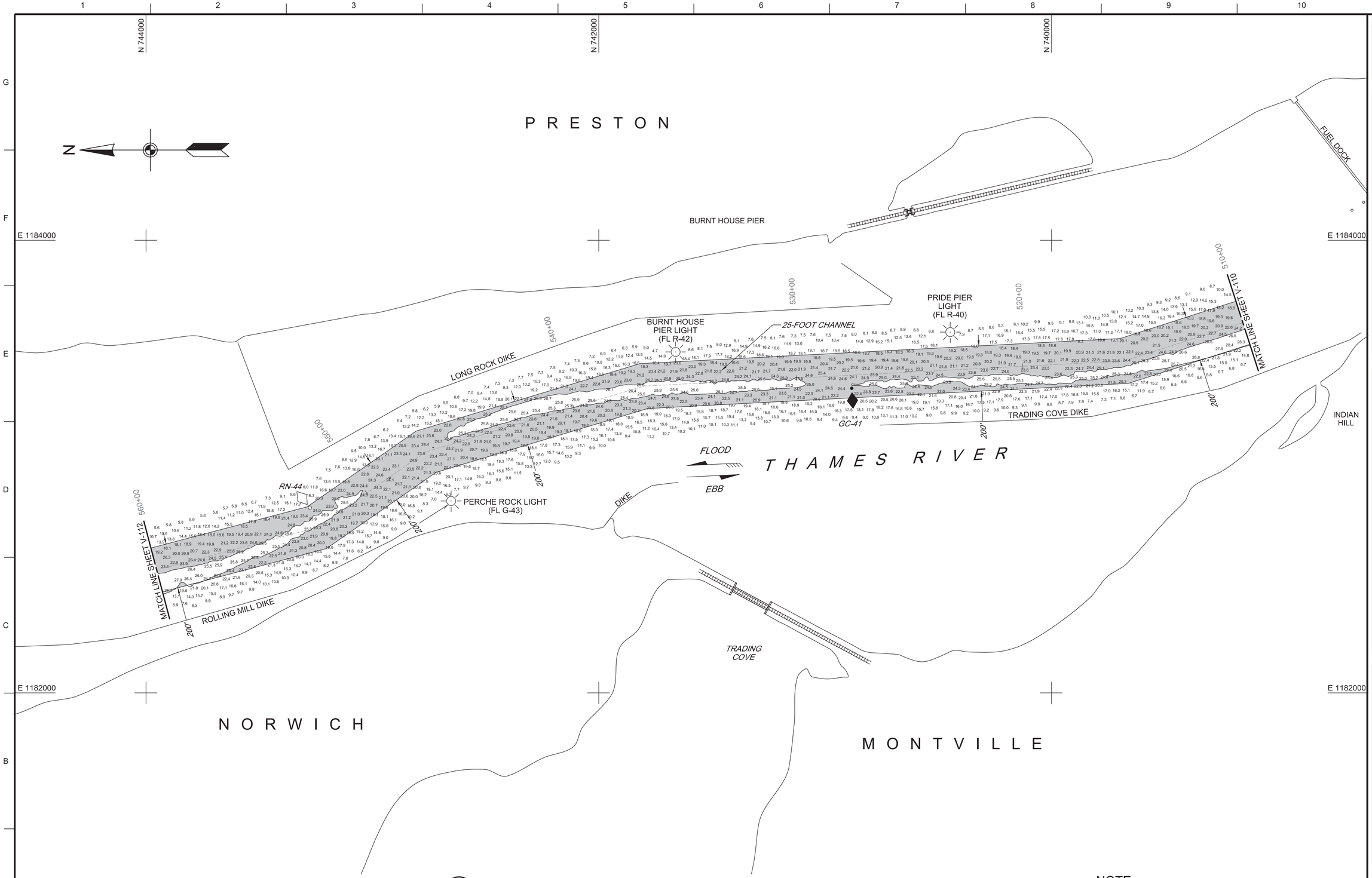
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

THAMES RIVER
NEW LONDON TO NORWICH, CONNECTICUT
CONDITION SURVEY

20 AND 25-FOOT CHANNELS
25-FOOT TURNING BASIN

SHEET ID

V-110



A4 PLAN - STA. 510+00 TO STA. 560+00

SCALE: 1" = 200'

0 200' 400'

NOTE:
FOR GENERAL NOTES SEE SHEET G-001.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 2, 2017

DRAWING CODE: THA-8TP3

SHEET 12 OF 14

DWN BY: SWK | CHK BY: WHW

REVIEWED BY: MAUREEN WILLIAMS, PE, PMP, CFM, LEAN SIX SIGMA BLACK BELT, PROJECT MANAGER, NEW ENGLAND DISTRICT, CONCORD, MA 01742-2751

APPROVED BY: MARK WHITWORTH, PE, PMP, LEAN SIX SIGMA BLACK BELT, ACTING ASST. CHIEF, SURVEY SECTION, NEW ENGLAND DISTRICT, CONCORD, MA 01742-2751

For: Chief, Survey Section

SIZE: ANSI D | SCALE: 1:1

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

THAMES RIVER
NEW LONDON TO NORWICH, CONNECTICUT
CONDITION SURVEY

20 AND 25-FOOT CHANNELS
25-FOOT TURNING BASIN

SHEET ID

V-111

A4 PLAN - STA. 560+00 TO STA. 610+00

SCALE: 1" = 200'

0 200' 400'

NOTE:
FOR GENERAL NOTES SEE SHEET G-001.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 2, 2017

DWN BY: SWK | CHK BY: WHW

REVIEWED BY: WALKER, WILLIAM H. LEAD PROJECT MANAGER

APPROVED BY: WALKER, WILLIAM H. Asst. Chief, Survey Sec.

DRAWING CODE: THA-8770

For: Chief, Survey Section

SIZE: ANSI D | SCALE: 1:1

SHEET 13 OF 14

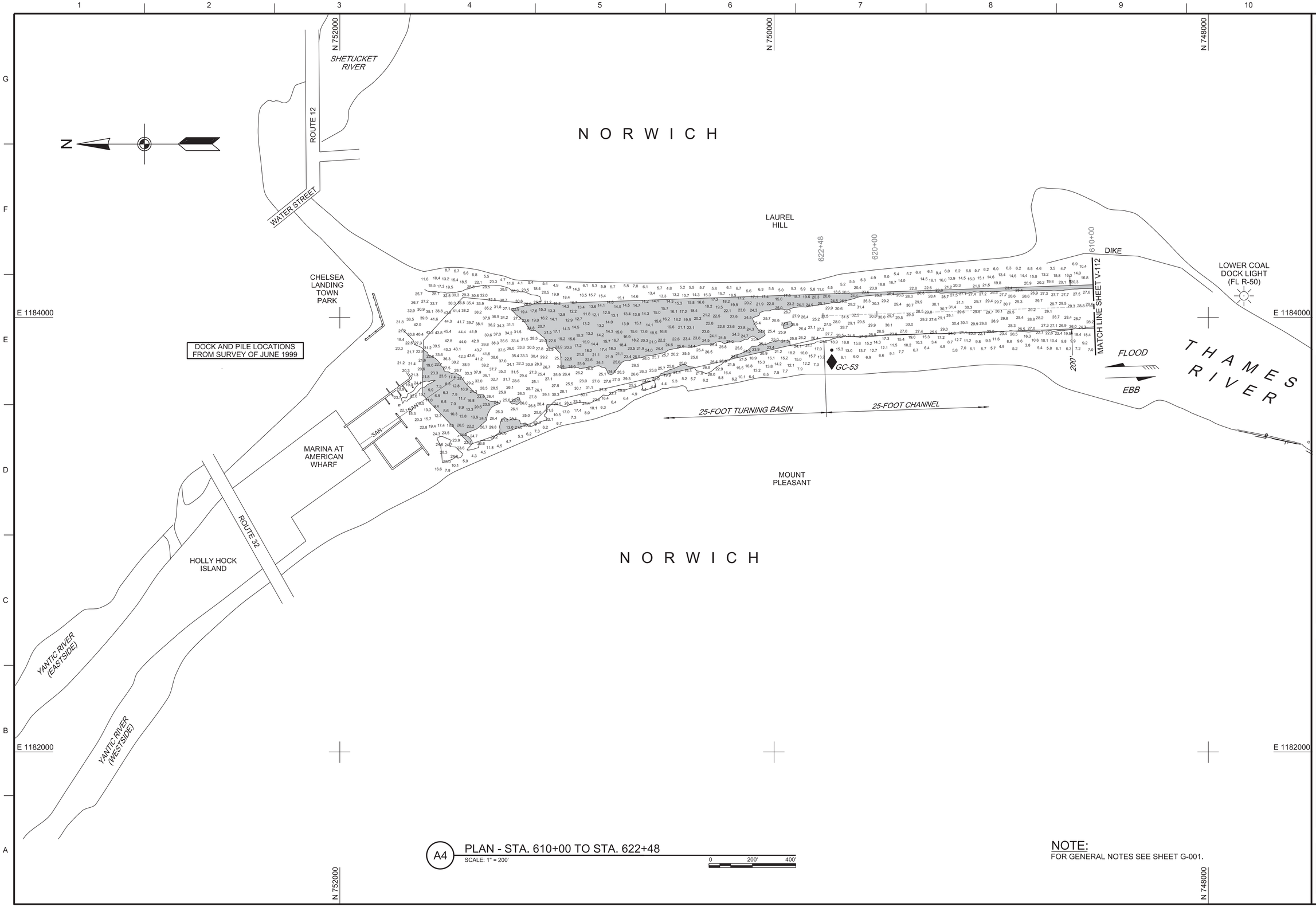
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

THAMES RIVER
NEW LONDON TO NORWICH, CONNECTICUT
CONDITION SURVEY

20 AND 25-FOOT CHANNELS
25-FOOT TURNING BASIN

SHEET ID

V-112



A4 PLAN - STA. 610+00 TO STA. 622+48

SCALE: 1" = 200'

0 200' 400'

NOTE:
FOR GENERAL NOTES SEE SHEET G-001.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 2, 2017

DWN BY: SWK | CHK BY: WHW

REVIEWED BY: WALKER, WILLIAM H. (WHW) Date: 2017.05.02 12:28:07 -04'00' Asst. Chief, Survey Sec.

APPROVED BY: WALKER, WILLIAM H. (WHW) Date: 2017.05.02 12:28:07 -04'00' For: Chief, Survey Section

DRAWING CODE: THA-870

SIZE: ANSI D | SCALE: 1:1 | SHEET 14 OF 14

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

THAMES RIVER
NEW LONDON TO NORWICH, CONNECTICUT
CONDITION SURVEY

20 AND 25-FOOT CHANNELS
25-FOOT TURNING BASIN

SHEET ID

V-113