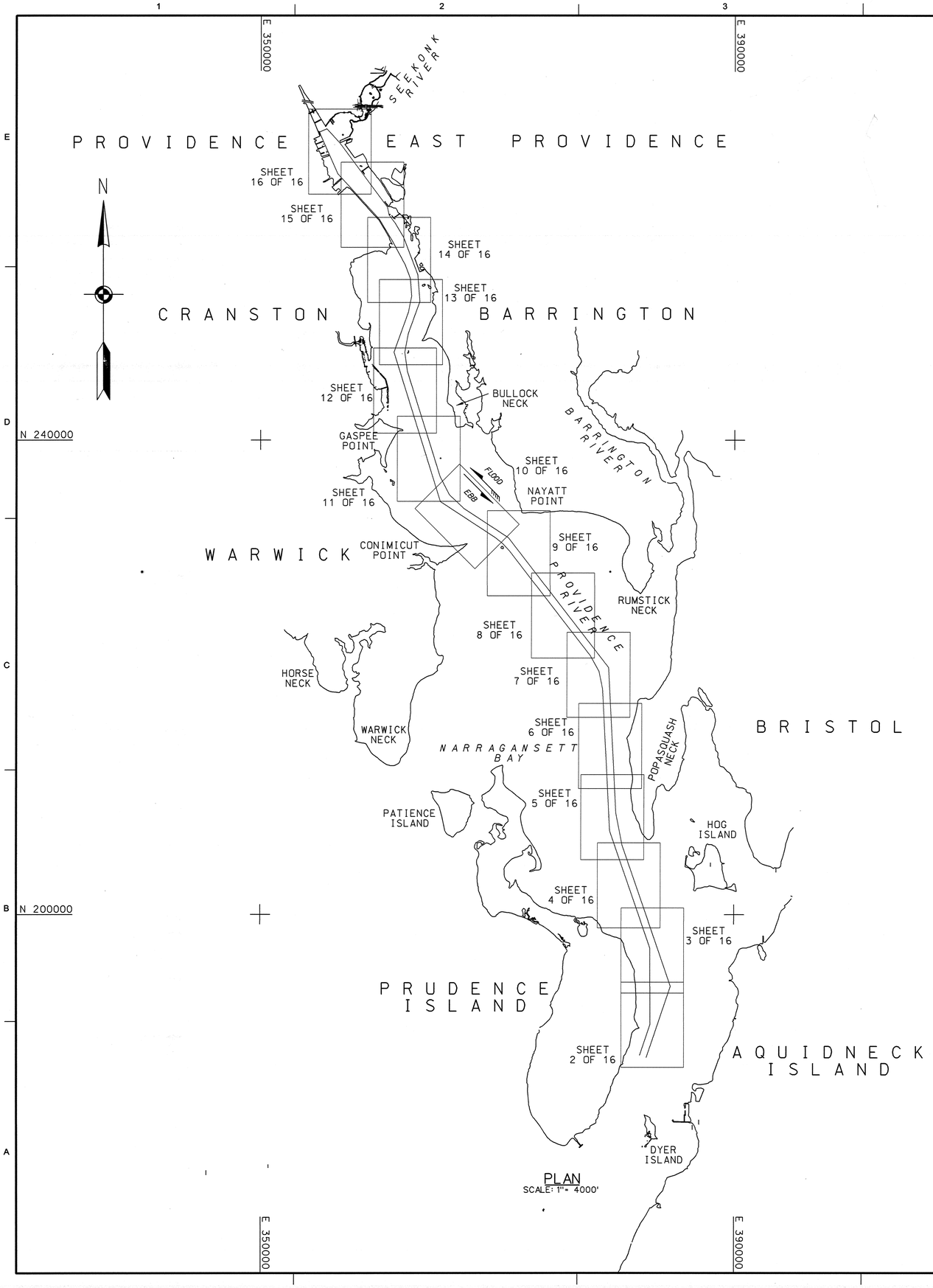
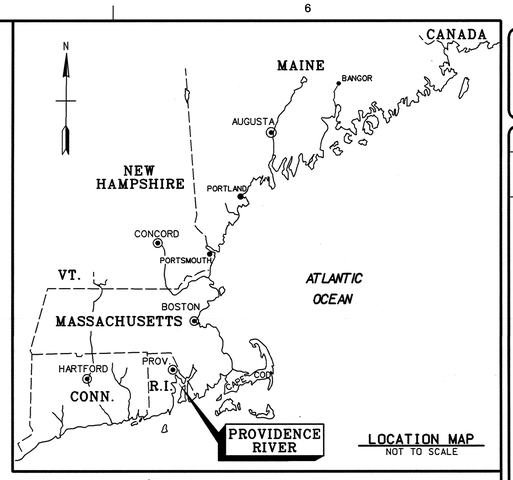


PLAN
SCALE: 1" = 4000'

ROCK REMOVAL LOCATIONS				
NO.	DATE	FINAL ELEVATION (MLLW)	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
R1	10/02/07	41.6	N 258689.09 E 360202.21	41° - 47′ - 35.6″N 71° - 22′ - 56.0″W
R2	10/02/07	45.1	N 251176.67 E 362866.51	41° - 46′ - 21.4″N 71° - 22′ - 21.0″W
R3	10/02/07	43.2	N 229244.40 E 372750.91	41° - 42′ - 44.5″N 71° - 20′ - 11.1″W
R4	10/02/07	42.6	N 228903.78 E 372953.47	41° - 42′ - 41.1″N 71° - 20′ - 08.4″W
R5	10/02/07	41.9	N 228846.30 E 373011.14	41° - 42′ - 40.6″N 71° - 20′ - 07.6″W
R6	10/02/07	44.3	N 228574.81 E 373300.97	41° - 42′ - 37.9″N 71° - 20′ - 03.8″W
R7	10/02/07	41.9	N 228351.68 E 373139.62	41° - 42′ - 35.7″N 71° - 20′ - 06.0″W
R8	10/02/07	44.2	N 228139.25 E 373440.28	41° - 42′ - 33.6″N 71° - 20′ - 02.0″W
R9	10/02/07	42.9	N 228113.99 E 373576.10	41° - 42′ - 33.3″N 71° - 20′ - 00.2″W

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
Fl G-25	02/27/07	N 188294.49 E 382124.10	41° - 35′ - 59.8″N 71° - 18′ - 08.7″W
Fl R BELL-26	02/27/07	N 188135.23 E 382773.61	41° - 35′ - 58.2″N 71° - 18′ - 00.2″W
GC-27	02/27/07	N 190259.28 E 382528.24	41° - 36′ - 19.2″N 71° - 18′ - 03.3″W
Fl R/G BELL-SP	02/27/07	N 193890.66 E 384667.54	41° - 36′ - 55.0″N 71° - 17′ - 35.1″W
Fl G-1	02/27/07	N 198648.85 E 382415.80	41° - 37′ - 42.0″N 71° - 18′ - 04.6″W
Fl R-2	02/27/07	N 201899.15 E 381914.40	41° - 38′ - 14.2″N 71° - 18′ - 11.1″W
Fl G-3	02/27/07	N 203617.90 E 380705.26	41° - 38′ - 31.2″N 71° - 18′ - 26.9″W
Fl R-4	02/27/07	N 205721.25 E 380625.92	41° - 38′ - 52.0″N 71° - 18′ - 27.9″W
Fl G-5	02/27/07	N 207061.47 E 379497.73	41° - 39′ - 05.2″N 71° - 18′ - 42.7″W
Fl R-6	•02/27/07	N 208545.93 E 380014.58	41° - 39′ - 19.9″N 71° - 18′ - 35.9″W
Fl G-7	02/27/07	N 214495.43 E 379100.64	41° - 40′ - 18.7″N 71° - 18′ - 47.8″W
Fl R-8	02/27/07	N 214520.52 E 379718.08	41° - 40′ - 18.9″N 71° - 18′ - 39.6″W
Fl G-9	02/27/07	N 220561.45 E 378658.80	41° - 41′ - 18.6″N 71° - 18′ - 53.4″W
Fl R BELL-10	02/27/07	N 220791.48 E 379459.04	41° - 41′ - 20.9″N 71° - 18′ - 42.9″W
Fl R-11	02/27/07	N 224136.12 E 375983.38	41° - 41′ - 54.0″N 71° - 19′ - 28.6″W
Fl R-12	02/27/07	N 224551.66 E 376508.71	41° - 41′ - 58.1″N 71° - 19′ - 21.6″W
Fl G-13	02/27/07	N 228909.21 E 372340.93	41° - 42′ - 41.2″N 71° - 20′ - 16.5″W
Fl R-14	02/27/07	N 229349.40 E 372814.71	41° - 42′ - 45.6″N 71° - 20′ - 10.2″W
Fl G-15	02/01/07	N 231303.93 E 370515.90	41° - 43′ - 04.9″N 71° - 20′ - 40.5″W
Fl G-16	02/01/07	N 231642.50 E 371027.48	41° - 43′ - 08.2″N 71° - 20′ - 33.7″W
GC-17	02/01/07	N 233026.93 E 367804.82	41° - 43′ - 22.0″N 71° - 21′ - 16.2″W
Fl R-18	02/01/07	N 234157.45 E 367203.08	41° - 43′ - 33.2″N 71° - 21′ - 24.1″W
Fl G-19	02/01/07	N 234713.02 E 365188.47	41° - 43′ - 38.7″N 71° - 21′ - 50.7″W
Fl R-20	02/01/07	N 235239.55 E 366001.35	41° - 43′ - 43.9″N 71° - 21′ - 39.9″W
Fl R-22	02/01/07	N 236648.89 E 365239.83	41° - 43′ - 57.8″N 71° - 21′ - 49.9″W
Fl G-23	02/01/07	N 238859.47 E 363899.50	41° - 44′ - 19.7″N 71° - 22′ - 07.6″W
Fl G-25	02/01/07	N 241645.97 E 363055.33	41° - 44′ - 47.2″N 71° - 22′ - 18.6W
Fl R-26	02/01/07	N 241689.37 E 363668.95	41° - 44′ - 47.6″N 71° - 22′ - 10.6″W
Fl G-27	02/01/07	N 244508.31 E 362144.27	41° - 45′ - 15.5″N 71° - 22′ - 30.6″W
Fl R-28	02/01/07	N 245781.35 E 362400.47	41° - 45′ - 28.1″N 71° - 22′ - 27.2″W
Fl R-29	02/01/07	N 247373.80 E 361253.56	41° - 45′ - 43.8″N 71° - 22′ - 42.3″W
Fl R-30	02/01/07	N 247325.84 E 362131.93	41° - 45′ - 43.3″N 71° - 22′ - 30.7″W
Fl R-32	02/01/07	N 248829.63 E 362405.16	41° - 45′ - 58.2″N 71° - 22′ - 27.1″W
Fl G BELL-33	02/01/07	N 250801.84 E 362500.33	41° - 46′ - 17.7″N 71° - 22′ - 25.8″W
Fl R-34	02/01/07	N 251633.61 E 363425.26	41° - 46′ - 25.9″N 71° - 22′ - 13.6″W
Fl G-35	02/01/07	N 252076.23 E 362778.52	41° - 46′ - 30.2″N 71° - 22′ - 22.1″W
Fl G-37	02/01/07	N 253620.88 E 362624.46	41° - 46′ - 45.5″N 71° - 22′ - 24.1″W
GC-39	02/01/07	N 254750.74 E 362176.24	41° - 46′ - 56.7″N 71° - 22′ - 30.0″W
GC-41	02/01/07	N 256785.70 E 361085.45	41° - 47′ - 16.8″N 71° - 22′ - 44.4″W
RN-40	02/01/07	N 257442.55 E 361814.63	41° - 47′ - 23.3″N 71° - 22′ - 34.7″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 Nos. 13223, 13224, & 13225; USGS Charts and USACE Port Series. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted. Topography should be used as a general reference only.
3. Bench Mark Data: Vertical depths were obtained using Real Time Kinematic (RTK) technology. The information used to calculate the NAVD88 to MLLW corrections are as follows:
   BM 1552 D (2007): Elevation 5.79′ (NAVD88) 8.19′ (MLLW)
   BM T.P. CH (2007): Elevation 4.54′ (NAVD88) 6.98′ (MLLW)
   BM 9 (2007): Elevation 8.81′ (NAVD88) 11.19′ (MLLW)
   An average NAVD88 to MLLW correction of 2.41 feet was used, derived from NOS Publications 8454000, 8453033, and 8451552.
6. Coordinates shown are based on the Transverse Mercator Grid System for the State of Rhode Island (Zone 3800) and NAD 1983.
7. Survey was performed using a Reson 8124 multibeam echosounder system with a 200 kHz transducer. Horizontal positioning was obtained utilizing a Leica 1200 GPS System. An RTK base station was set up on Sta. Colt DH or Sta. Santry.
8. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted from February to October 2007.
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 4463 and 4467
   40-Foot depth contour shown thus: — — — — — — — — — —
   Surveyed by: Jeffrey W. Preston and Crew
   Refer to Survey No. 07-896

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GRAPHIC SCALE:
1" = 4000′ — 4000 0 4000 8000

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DWN BY: W.K.
CKD BY: WHW
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SUBMITTED BY: Chief, Survey Section
SCALE: AS SHOWN
DRAWING FILE: PROVIDENCE PRIMSPLOG.DGN
DRAWING CODE: Pa-483
PLOT SCALE: 1" = 4000′
PLOT DATE: 2/12/07
SIZE: ANSI F
FILE NAME: PROV101.501

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CONDITION SURVEY
40-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 16

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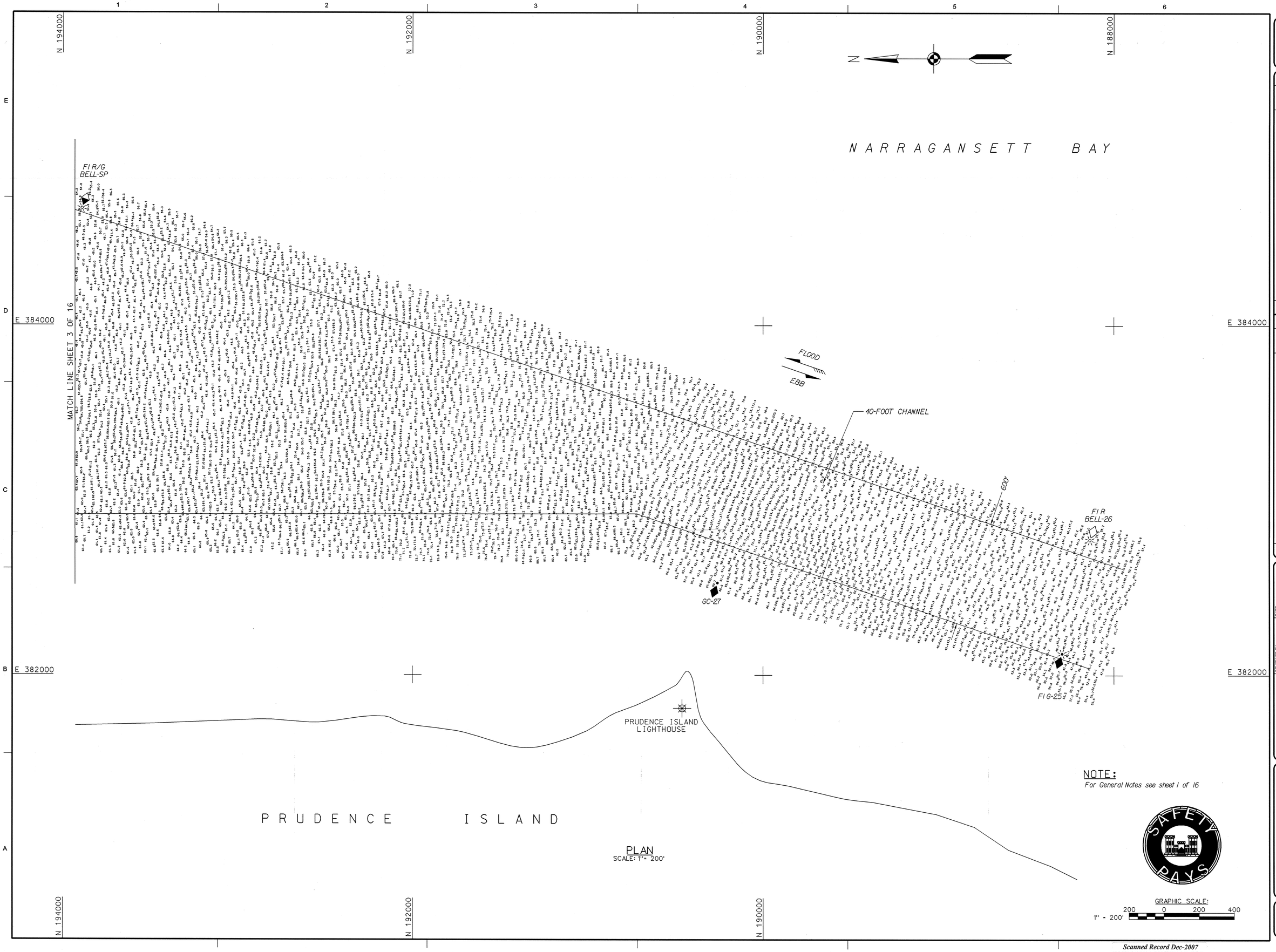

NOTE:
For General Notes see sheet 1 of 16

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PLOT DATE: 12/12/07
SIZE: ANSI F
FILE NAME: PROVIDENCE.dgn
DATE: 12/12/07
DWN BY: SWK
CKD BY: WWW
DESIGN FILE:
DESIGN CODE:
DRAWING CODE: Pk. 403

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SHEET IDENTIFICATION
V-102
SHEET 2 OF 16

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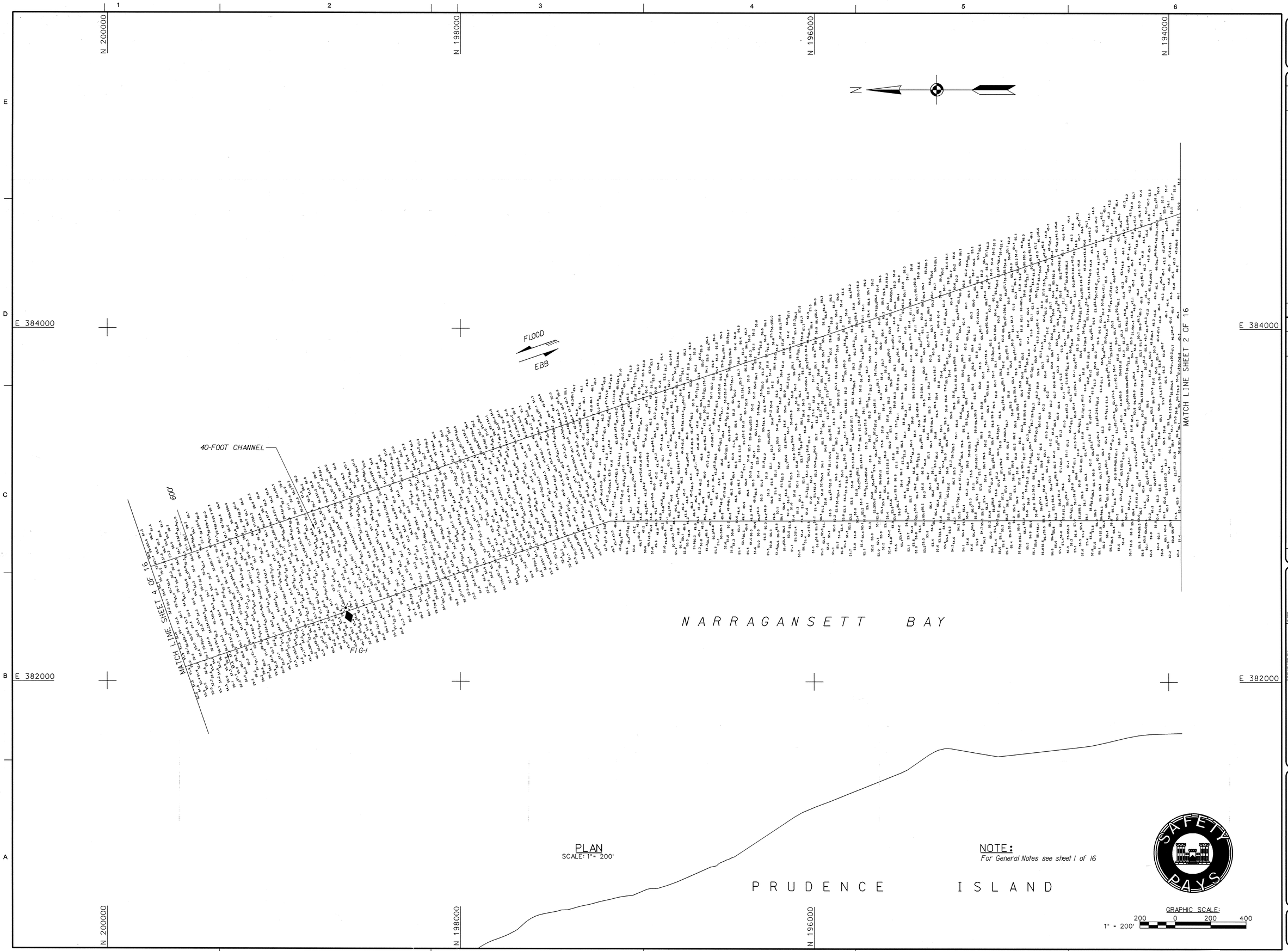

PLAN
SCALE: 1" = 200'

NOTE:
For General Notes see sheet 1 of 16

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DESIGN FILE: PRIMSP3.DGN
PLOT SCALE: 1" = 200'
PLOT DATE: 12/12/07
DRAWING CODE: Pa. 483
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SHEET IDENTIFICATION
V-103
SHEET 3 OF 16

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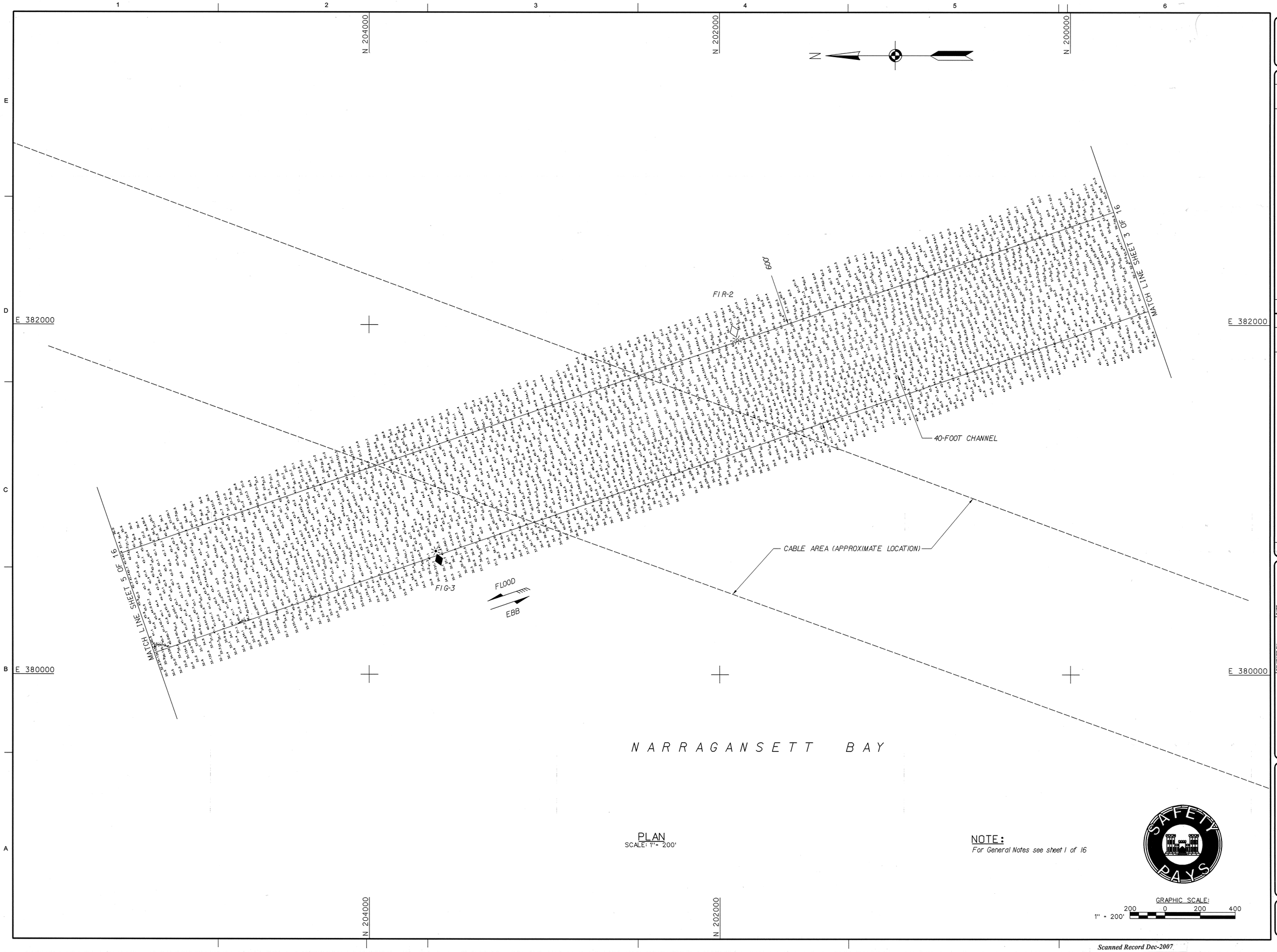

PLAN
SCALE: 1"= 200'

NOTE:
For General Notes see sheet 1 of 16

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PLOT SCALE: 1" = 200'
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SHEET IDENTIFICATION
V-104
SHEET 4 OF 16

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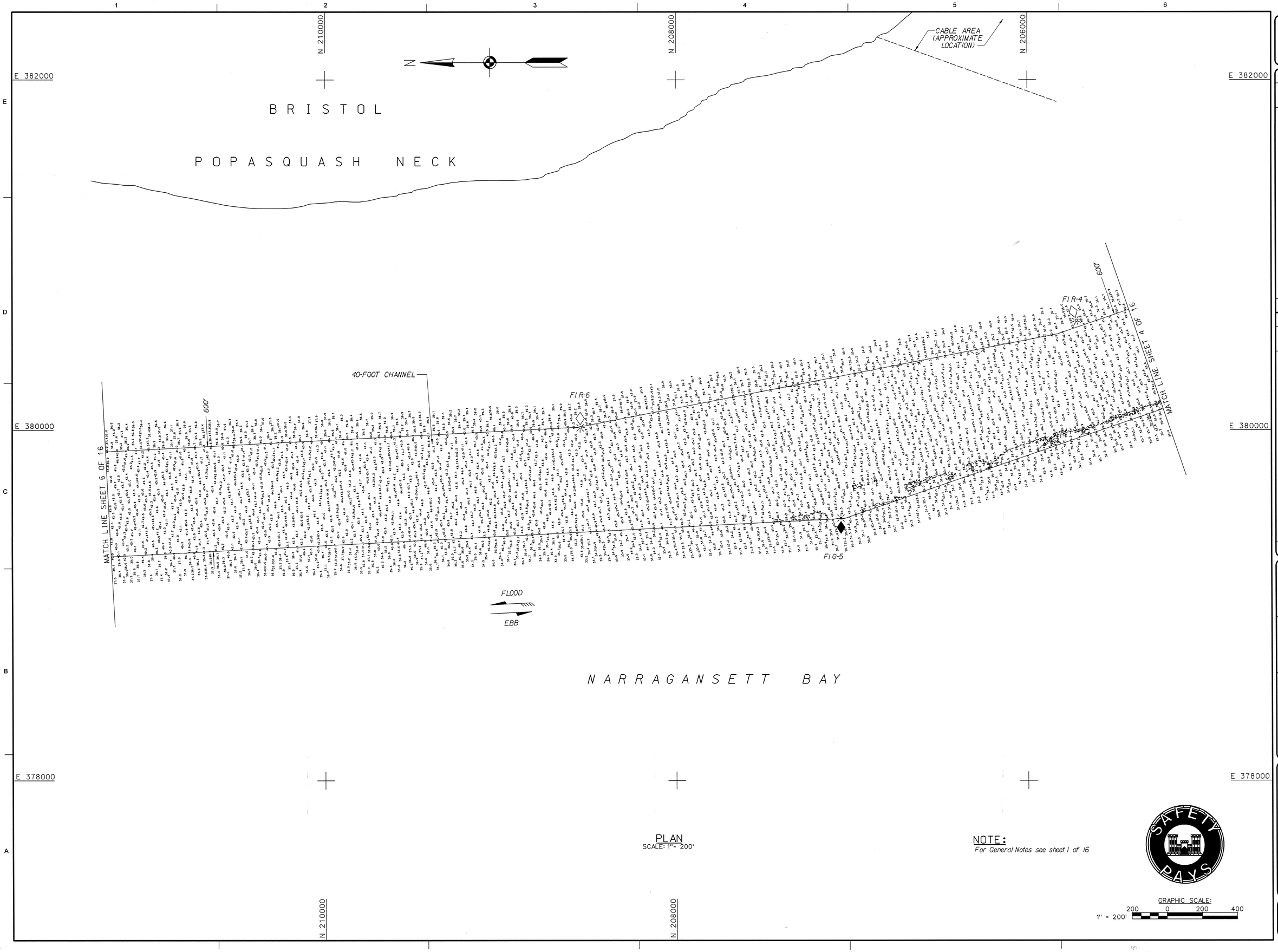

PLAN
SCALE: 1" = 200'

NOTE:
For General Notes see sheet 1 of 16

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

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PLOT DATE: 12/12/07
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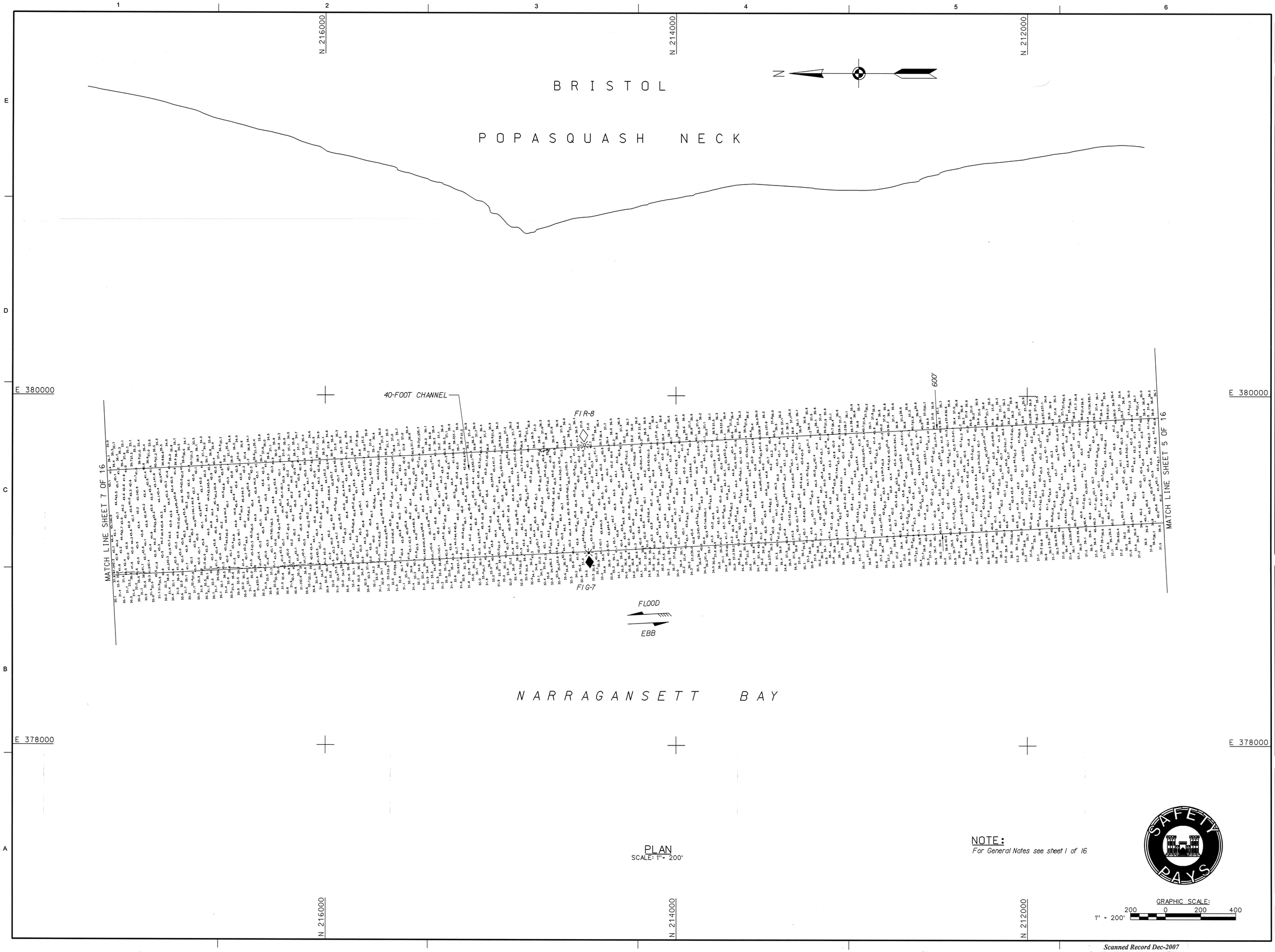
V-105
SHEET 5 OF 16



PLAN
SCALE: 1" = 200'

NOTE:
For General Notes see sheet 1 of 16

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

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PLOT SCALE: 1" = 200'
PLOT DATE: 12/12/07
SIZE: ANSI F
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V-106
SHEET 6 OF 16

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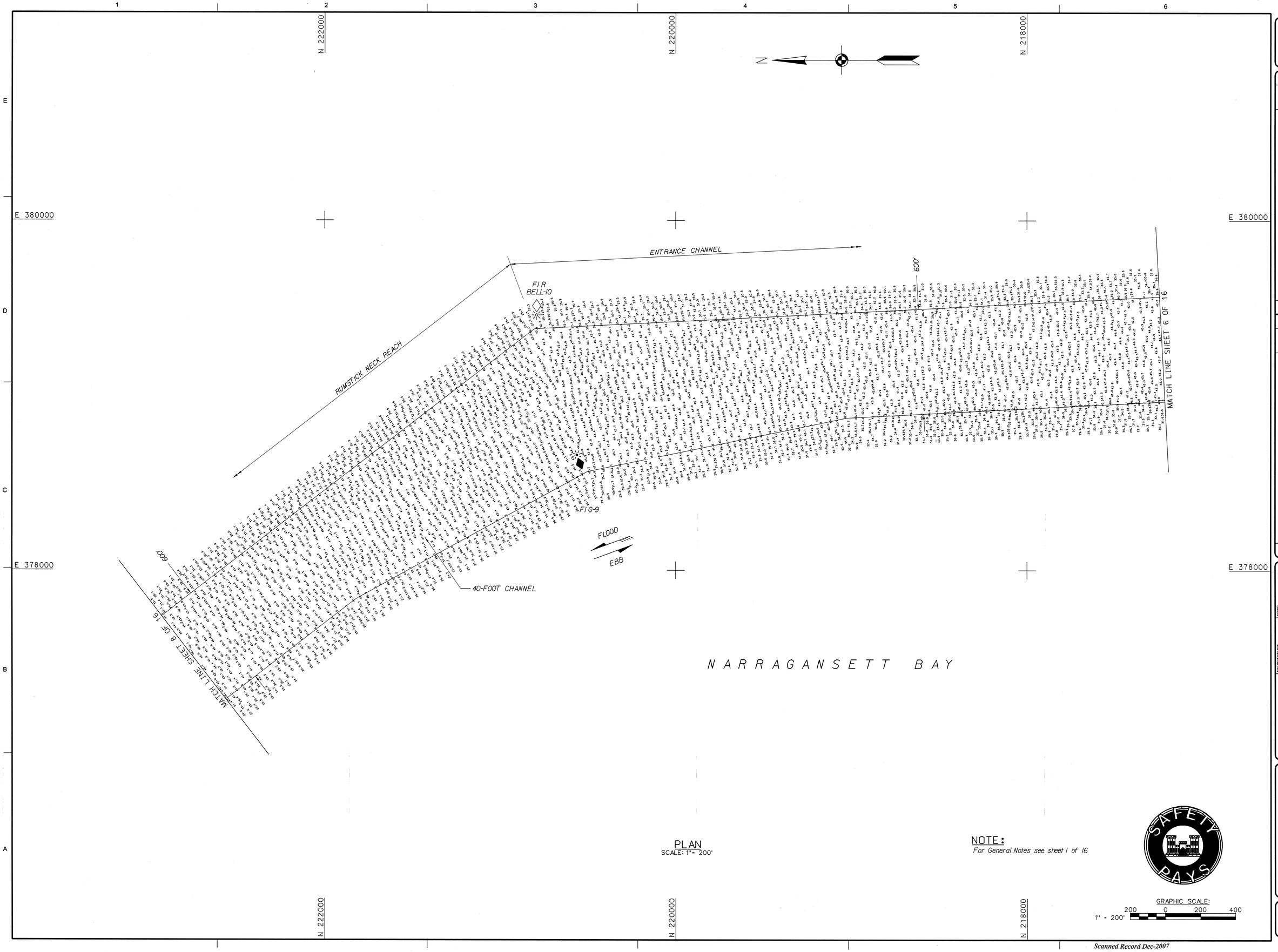

PLAN
SCALE: 1" = 200'

NOTE:
For General Notes see sheet 1 of 16

GRAPHIC SCALE:
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PLOT DATE: 12/12/07
SIZE: ANSI F
FILE NAME: PROV107.S07
DATE: 12/12/07
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SHEET 7 OF 16

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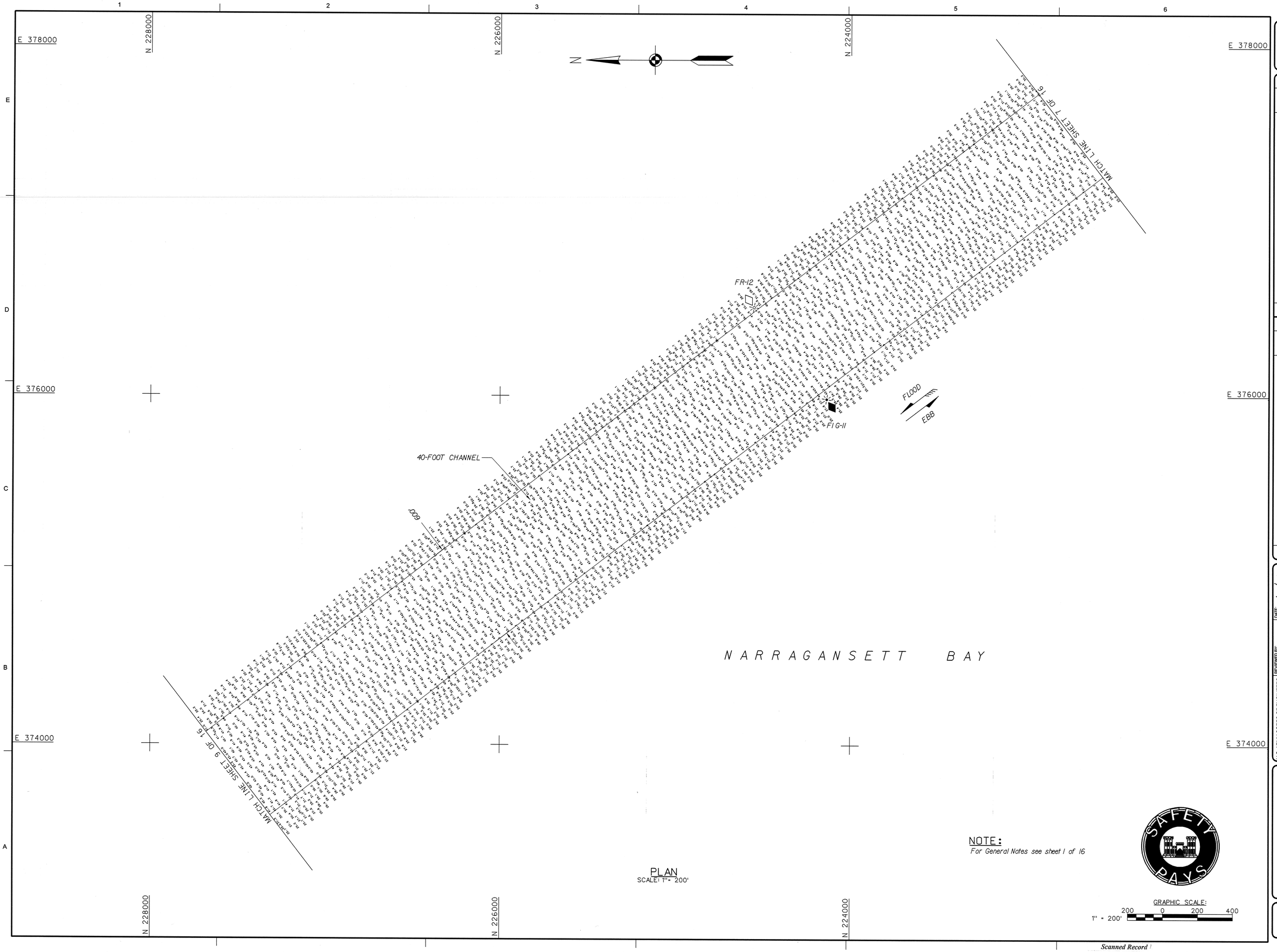

PLAN
SCALE: 1" = 200'

NOTE:
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GRAPHIC SCALE:
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DATE: 12/12/07
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CKD BY: WWW
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SHEET 8 OF 16

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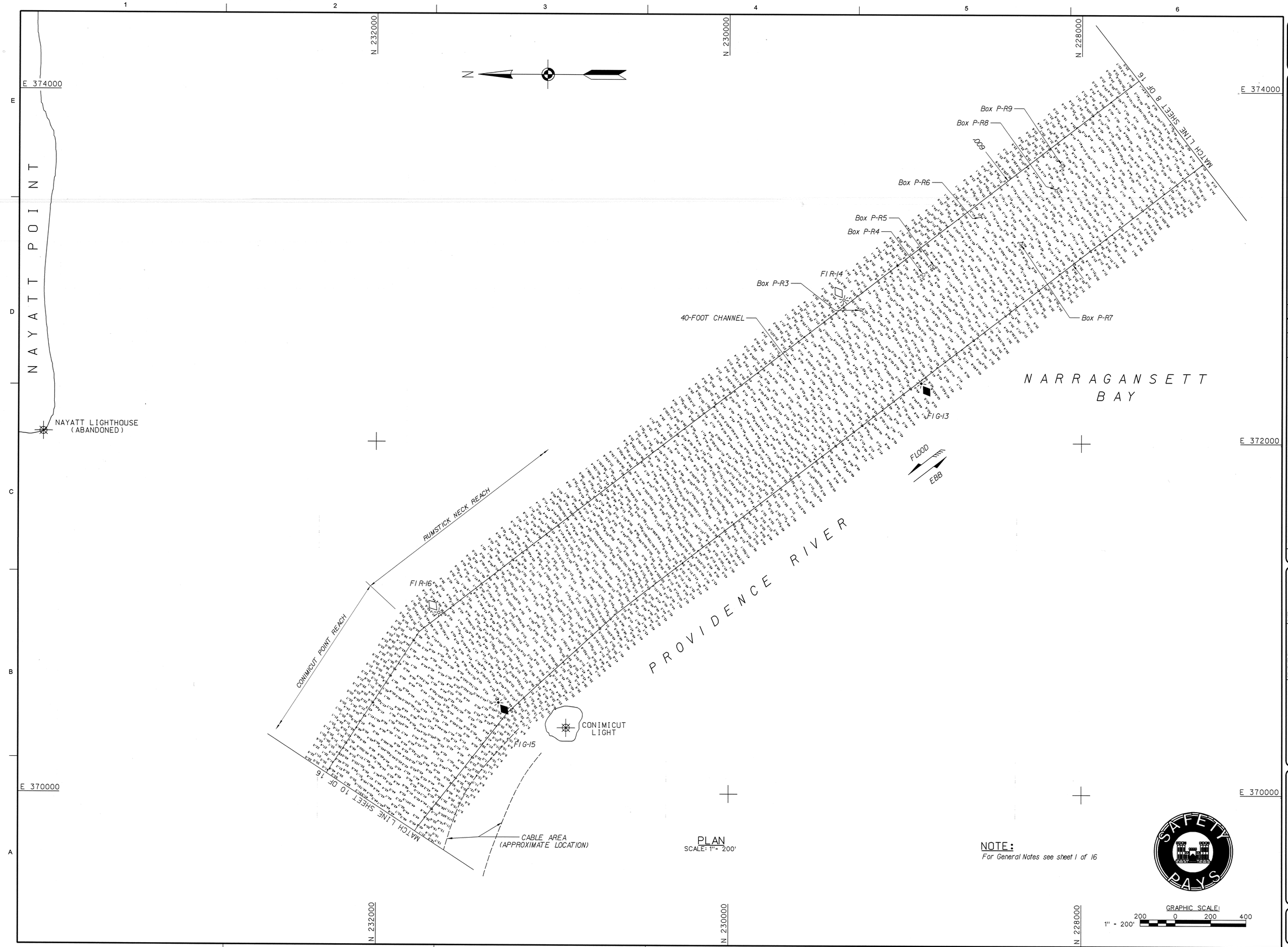

PLAN
SCALE: 1" = 200'

NOTE:
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GRAPHIC SCALE:
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PLOT DATE: 12/12/07
SIZE: ANSI F
FILE NAME: PROV109.S09
DATE: 12/12/07
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SHEET 9 OF 16

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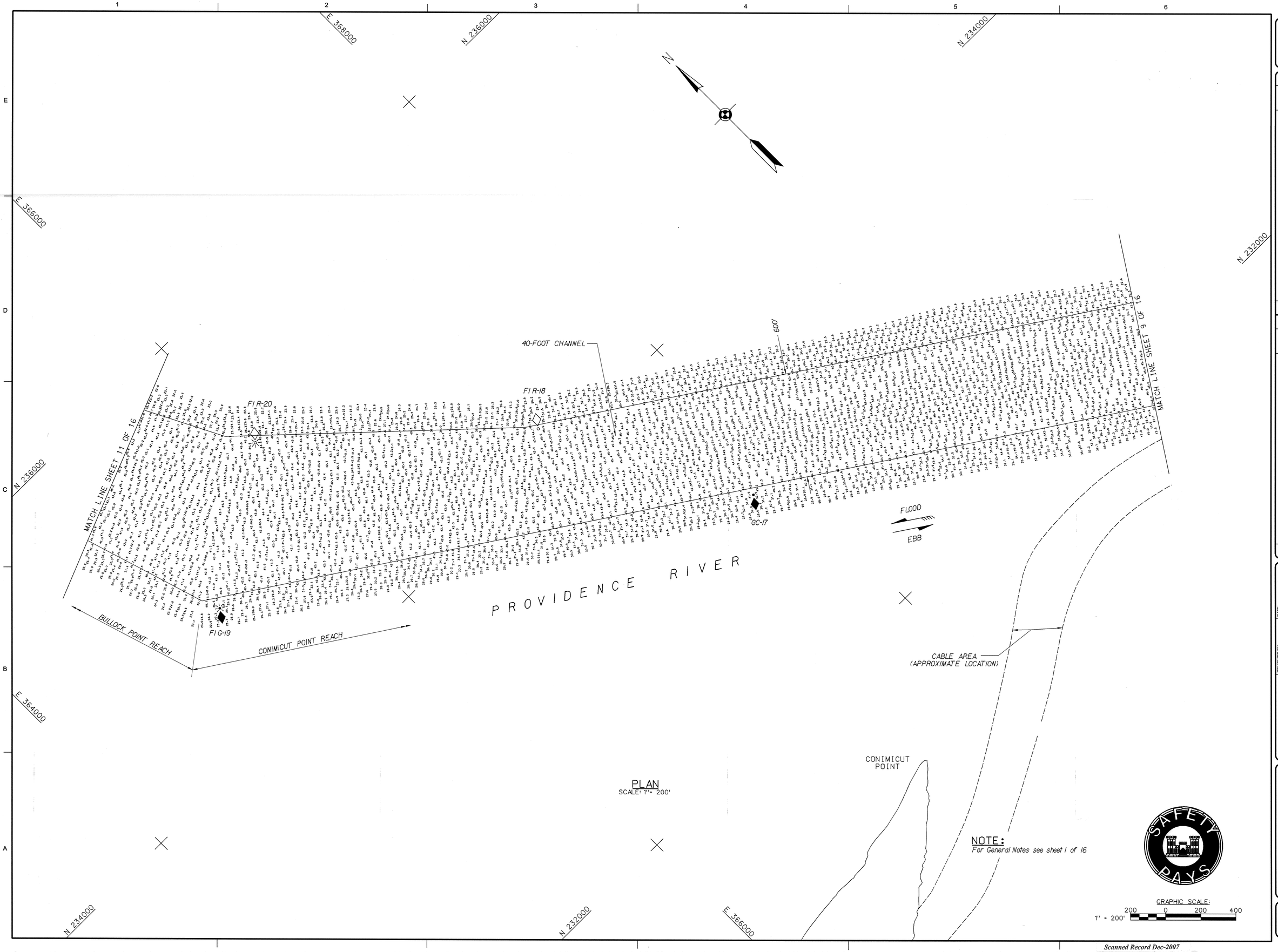

PLAN
SCALE: 1"= 200'

NOTE:
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GRAPHIC SCALE:
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SUBMITTED BY: Chief, Survey Section
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CKD BY: WWW
DESIGN FILE: PRDISP3.DGN
DRAWING CODE: Pa. 483
PLOT SCALE: 1" = 200'
PLOT DATE: 12/12/07
SIZE: ANSI F
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PROVIDENCE RIVER AND HARBOR
PROVIDENCE, RHODE ISLAND
ROCK REMOVAL AFTER DREDGE/
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SHEET 10 OF 16

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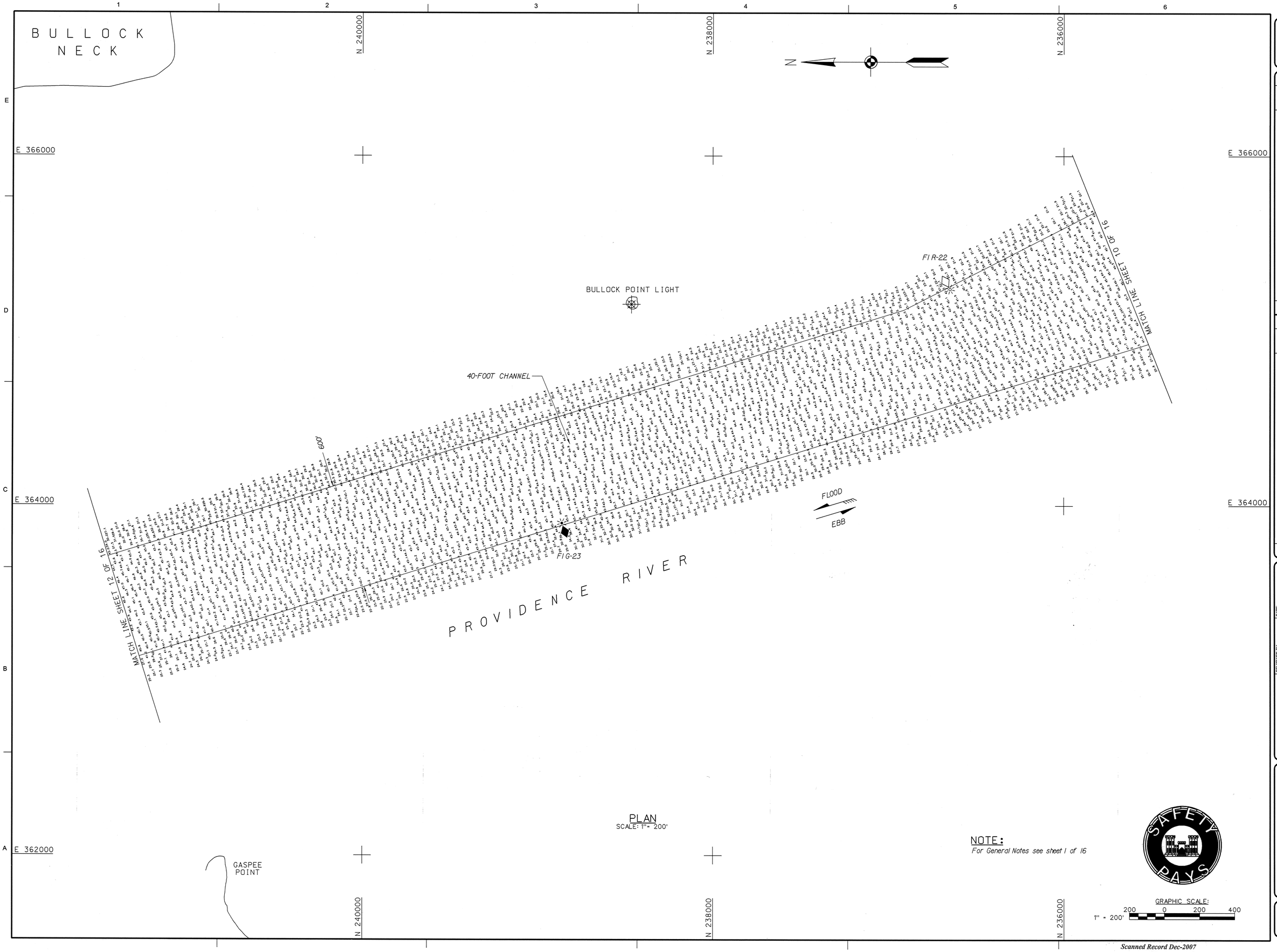

PLAN
SCALE: 1" = 200'

NOTE:
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1" = 200'
200 0 200 400

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PLOT DATE: 12/12/07
SIZE: ANSI F
FILE NAME: PROV111.S11
DATE: 12/12/07
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DRAWING CODE: Pa. 483

PROVIDENCE RIVER AND HARBOR
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SHEET IDENTIFICATION
V-111
SHEET 11 OF 16

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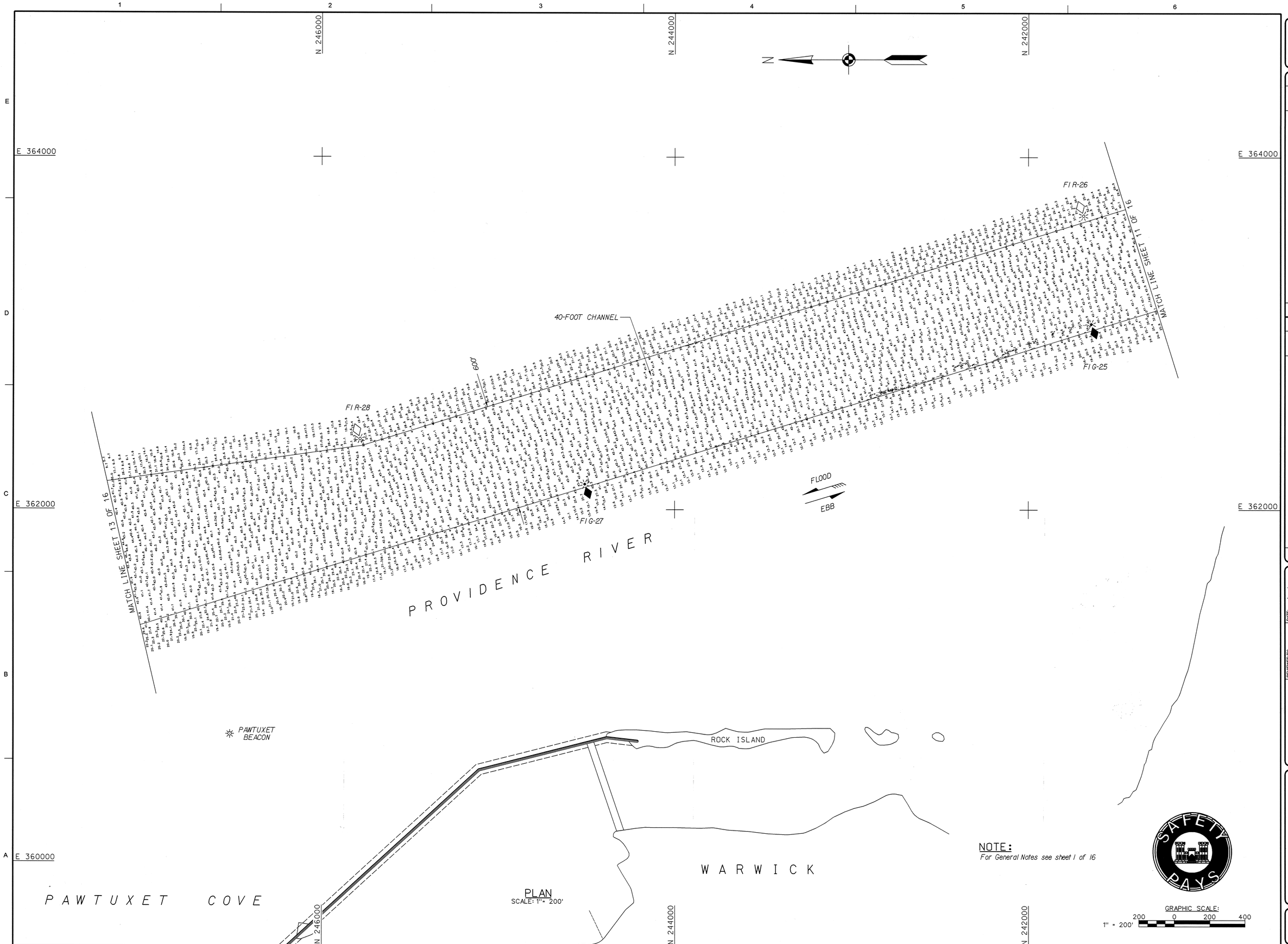

PLAN
SCALE: 1" = 200'

NOTE:
For General Notes see sheet 1 of 16

GRAPHIC SCALE:
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1" = 200'

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New England District

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MARK	DESCRIPTION	DATE	APPR

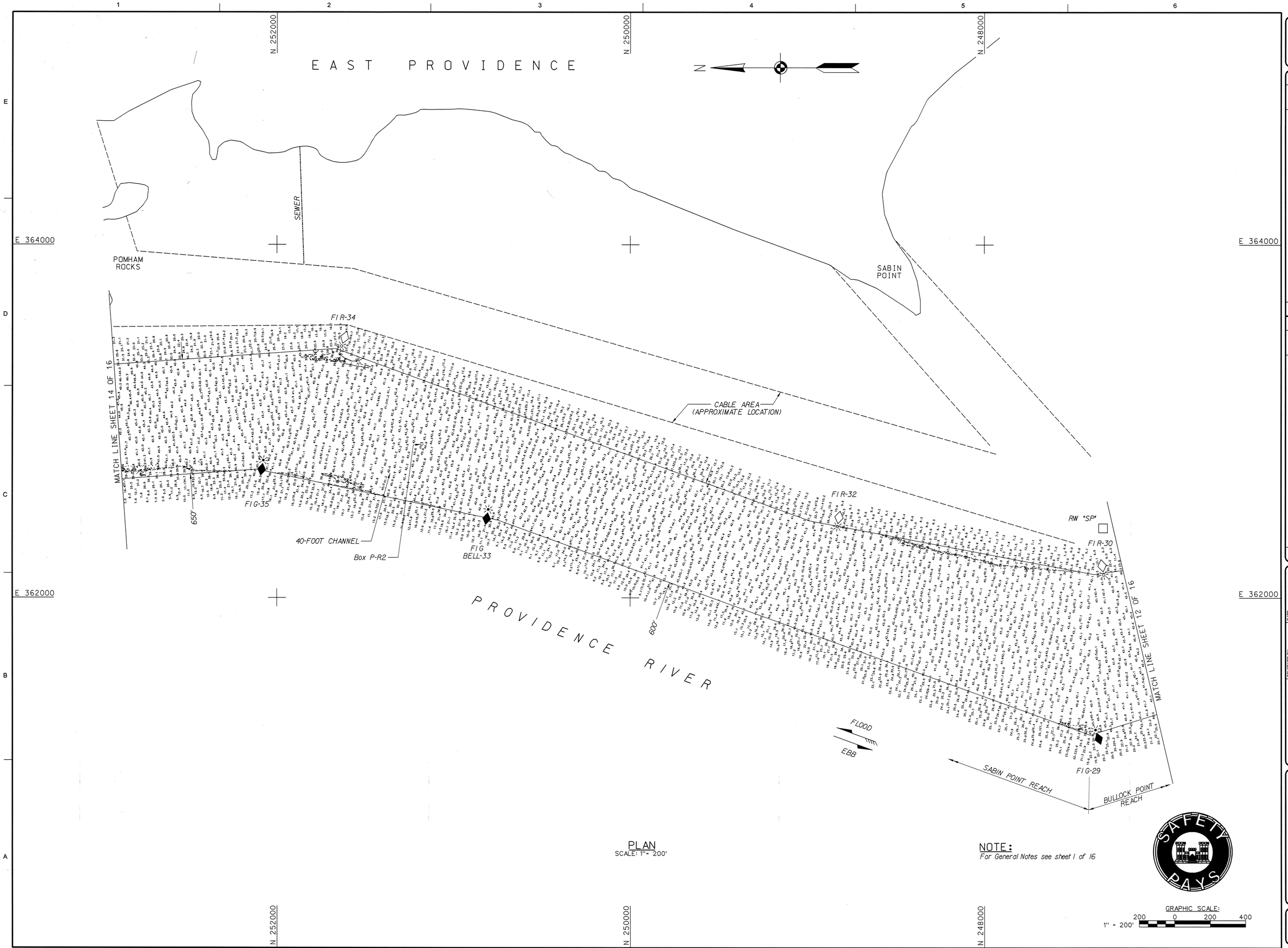
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 200'
PLOT DATE: 12/12/07
SIZE: ANSI F
FILE NAME: PROV112.S12
DATE: 12/12/07
DWN BY: SWK
CKD BY: WHW
DESIGN FILE: PRIMSPLDGN
DRAWING CODE: Pk. 483

PROVIDENCE RIVER AND HARBOR
PROVIDENCE, RHODE ISLAND
ROCK REMOVAL AFTER DREDGE/
CONDITION SURVEY
40-FOOT CHANNEL

SHEET IDENTIFICATION
V-112
SHEET 12 OF 16

Scanned Record Dec-2007



PLAN
SCALE: 1"= 200'

NOTE:
For General Notes see sheet 1 of 16

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

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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
PLOT SCALE: 1" = 200'
PLOT DATE: 12/12/07
SIZE: ANSI F
FILE NAME: PROV113.313
DATE: 12/12/07
DWN BY: SWK
CKD BY: WHW
DESIGN FILE: PRDNSP3.DGN
DRAWING CODE: Pk. 483

PROVIDENCE RIVER AND HARBOR
PROVIDENCE, RHODE ISLAND
ROCK REMOVAL AFTER DREDGE/
CONDITION SURVEY
40-FOOT CHANNEL

SHEET IDENTIFICATION
V-113
SHEET 13 OF 16

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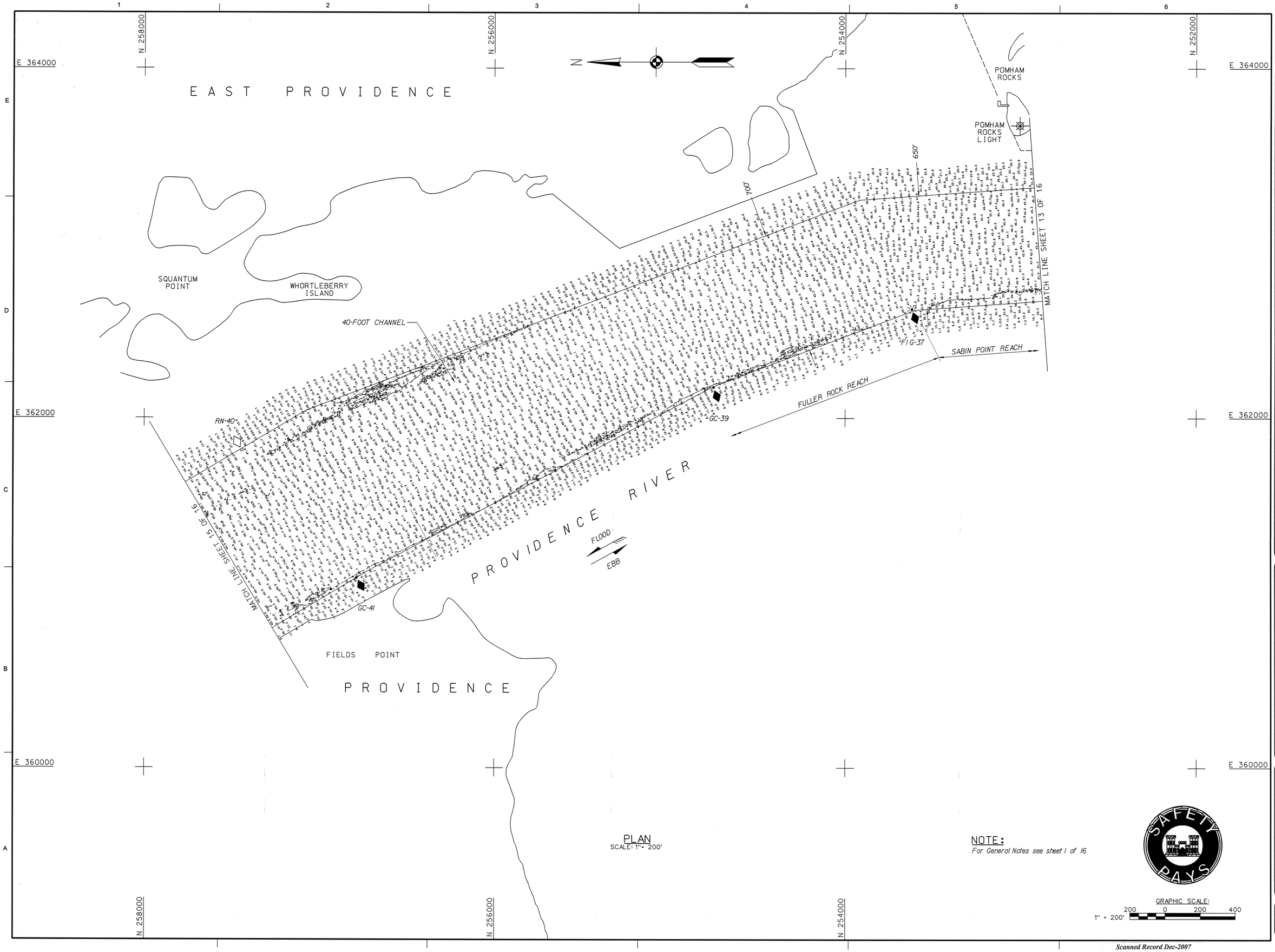

PLAN
SCALE: 1" = 200'

NOTE:
For General Notes see sheet 1 of 16

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

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NEW ENGLAND DISTRICT
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REVIEWED BY: Matthew T. Murray, Asst. Chief, Survey Section
DATE: 12/12/07
DWN BY: SWK
CKD BY: WHW
SUBMITTED BY: Matthew T. Murray, Chief, Survey Section
DESIGN FILE: PRIMSP3.DGN
PLOT SCALE: 1" = 200'
PLOT DATE: 12/12/07
DRAWING CODE: Pa. 463
SIZE: ANSI F
FILE NAME: PROV114.S14

PROVIDENCE RIVER AND HARBOR
PROVIDENCE, RHODE ISLAND
ROCK REMOVAL AFTER DREDGE/
CONDITION SURVEY
40-FOOT CHANNEL

SHEET IDENTIFICATION
V-114
SHEET 14 OF 16

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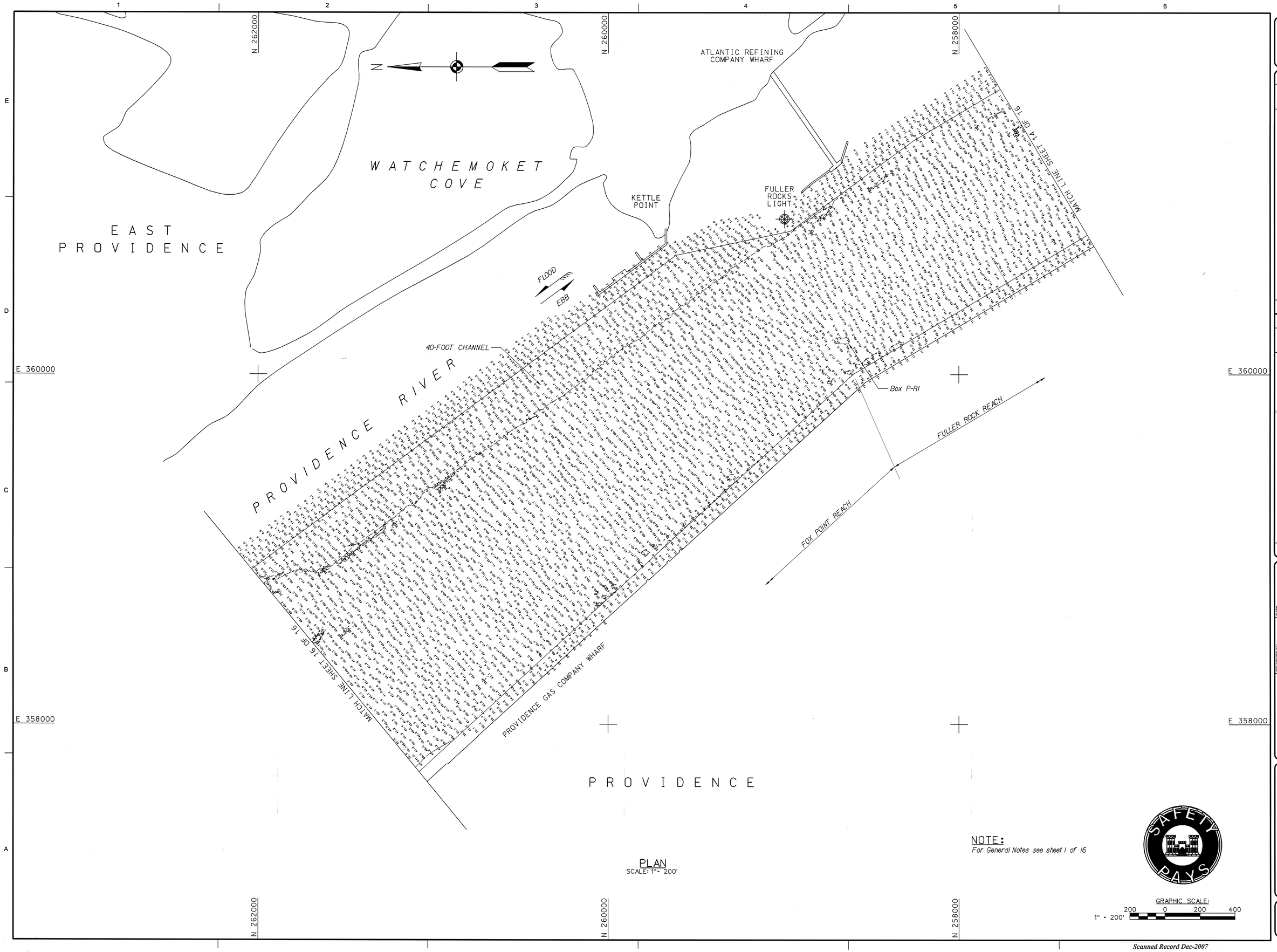

PLAN
SCALE: 1" = 200'

NOTE:
For General Notes see sheet 1 of 16

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

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New England District

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
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REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 200'
PLOT DATE: 12/12/07
FILE NAME: PROV115.S15
SIZE: ANSI F
DATE: 12/12/07
DWN BY: SWK
CKD BY: WHW
DESIGN FILE: PRDHSP3.DGN
DRAWING CODE: Pa. 483

PROVIDENCE RIVER AND HARBOR
PROVIDENCE, RHODE ISLAND
ROCK REMOVAL AFTER DREDGE/
CONDITION SURVEY
40-FOOT CHANNEL

SHEET IDENTIFICATION
V-115
SHEET 15 OF 16

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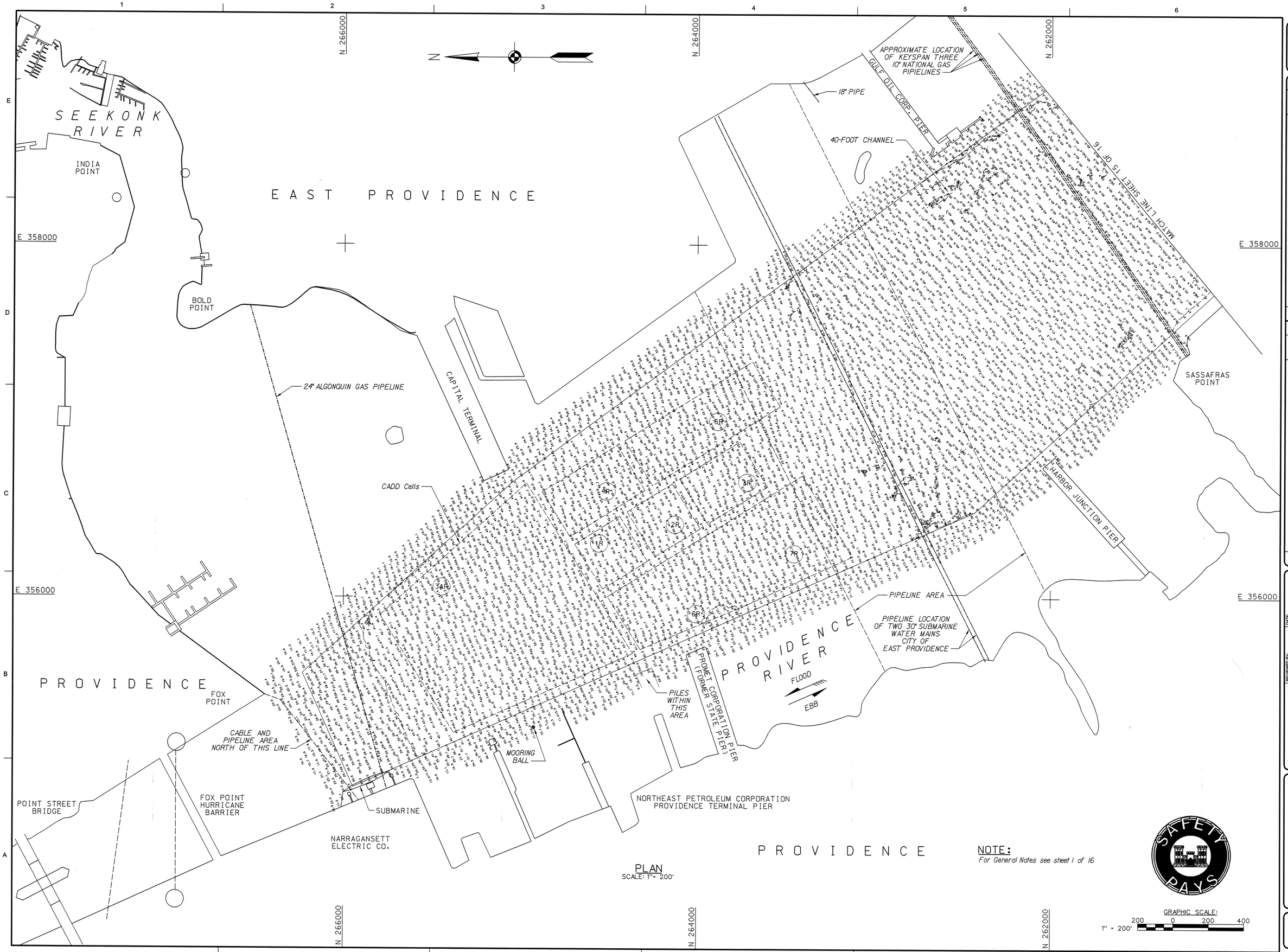

PLAN
SCALE: 1" = 200'

NOTE:
For General Notes see sheet 1 of 16

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

US Army Corps of Engineers®
New England District

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NEW ENGLAND DISTRICT
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REVIEWED BY: Mark Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/12/07
DWN BY: SWK
CKD BY: WHW
DESIGN FILE: PROHSP3.DGN
PLOT SCALE: 1" = 200'
PLOT DATE: 12/12/07
DRAWING CODE: Pa. 483
SIZE: ANSI F
FILE NAME: PROV116.S16

PROVIDENCE RIVER AND HARBOR
PROVIDENCE, RHODE ISLAND
ROCK REMOVAL AFTER DREDGE/
CONDITION SURVEY
40-FOOT CHANNEL

SHEET IDENTIFICATION
V-116
SHEET 16 OF 16

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