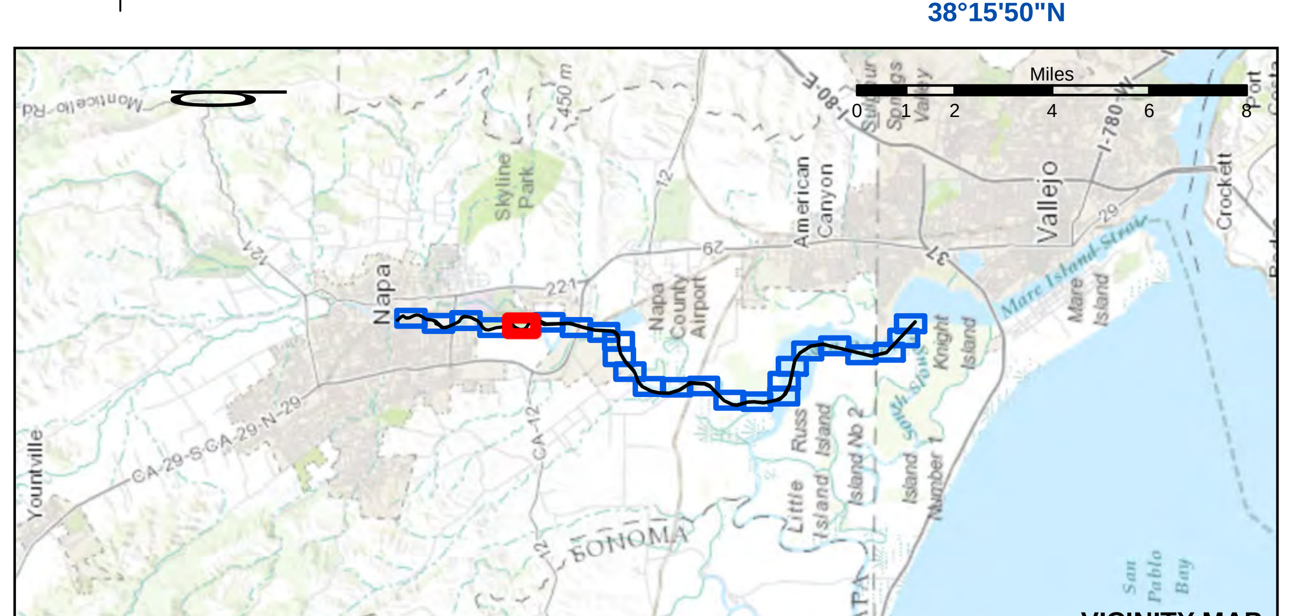

Legend			
Federal Navigation Channel	Beacon, General	**Contours**	
Shoaling Area	Obstruction Point		-15
Placement Area	Navigation Buoy		-14
Anchorage Area	Navigation Buoy		-13
Wreck Area	Shoalest Sounding*		-12
Submerged Wreck			-11
Angle Point			

NOTES:
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US Army Corps of Engineers
San Francisco District
1455 Market Street
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Chart Date: Mar 16, 2016	Designed by:	Drawn by: PDT
Surveyed By:	Plotted By: PDT	Checked By: PDT

PREPARED UNDER THE DIRECTION OF
JOHN K. BAKER
LT. COLONEL, C.E., DISTRICT ENGINEER
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
NAPA COUNTY
NAPA RIVER
CONDITION SURVEY
2-7 MARCH 2016

38°15'20"N 38°15'10"N 38°15'0"N

1,855,530

122°1'0"W 122°1'10"W

Feet
0 100 200 400 600

1 inch = 100 feet
Relative Scale (ANSI D 22x34)

1:1,200
Absolute Scale

FLOOD
EBB

173+00 174+00 175+00 176+00 177+00 178+00 178+24 179+00 180+00 181+00 182+00 183+00 184+00 184+70 185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00 193+00 194+00 195+00 196+00 197+00 198+00 199+00 200+00 201+00 202+00 203+00

1,852,530

- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
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LT. COLONEL, C.E. DISTRICT ENGINEER

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Recommended:	Chief, Hydro Survey Section
Approved:	Chief, Construction Branch

CALIFORNIA
NAPA COUNTY

NAPA RIVER
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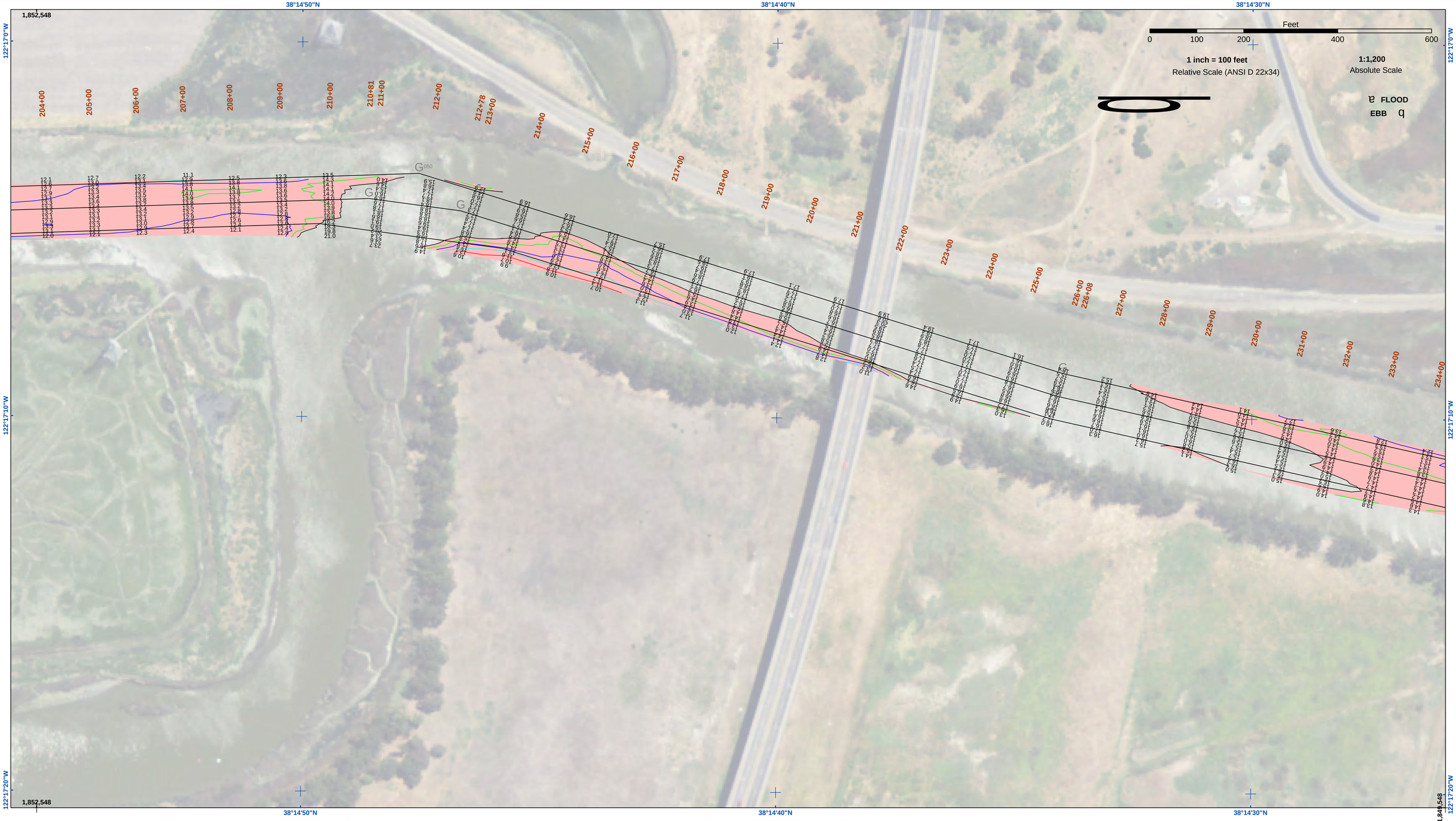

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CALIFORNIA
NAPA COUNTY

NAPA RIVER
CONDITION SURVEY
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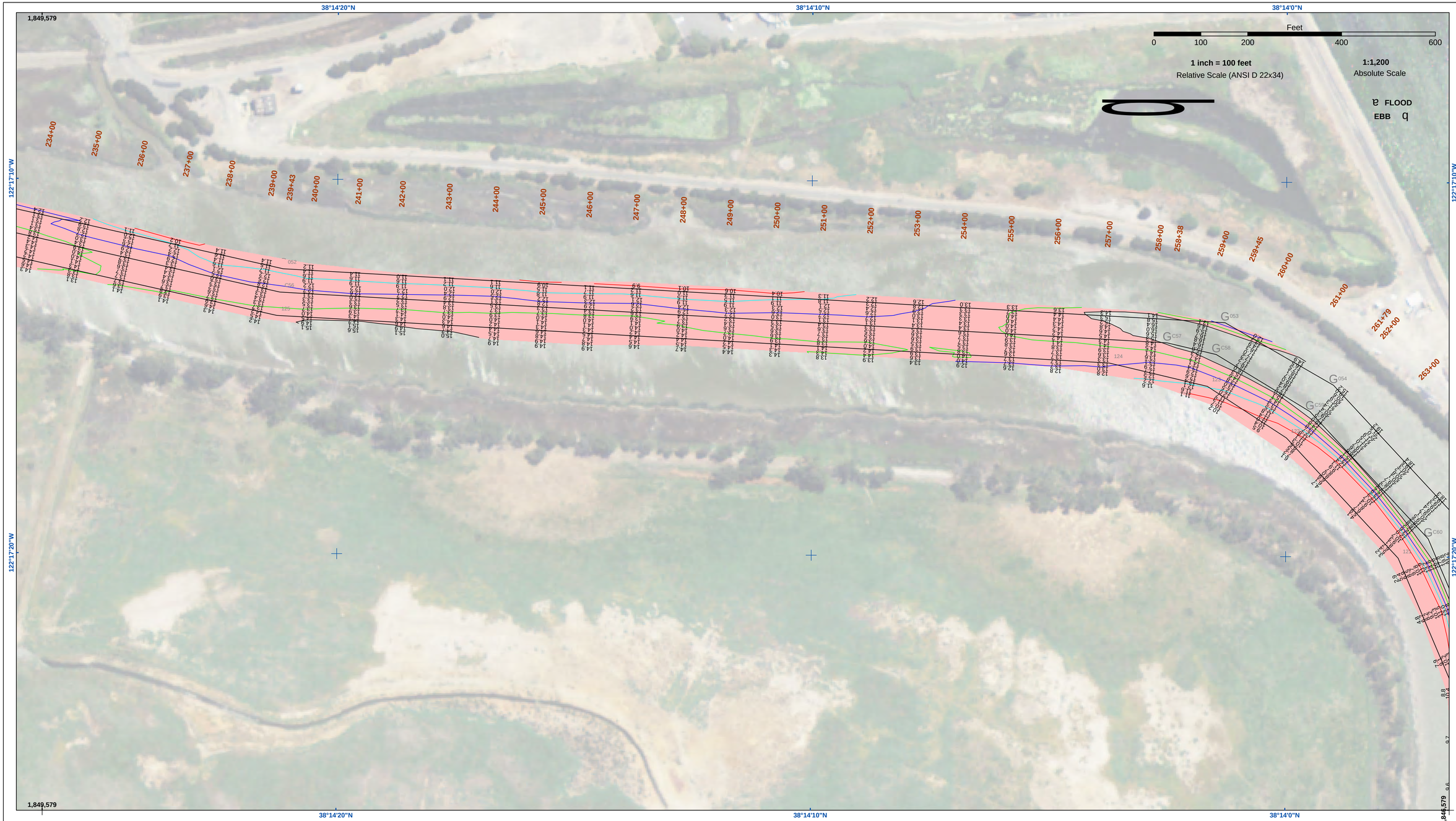

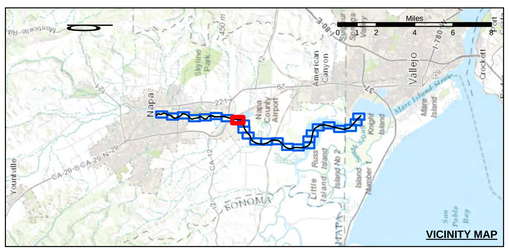

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Contours

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CALIFORNIA
NAPA COUNTY

NAPA RIVER
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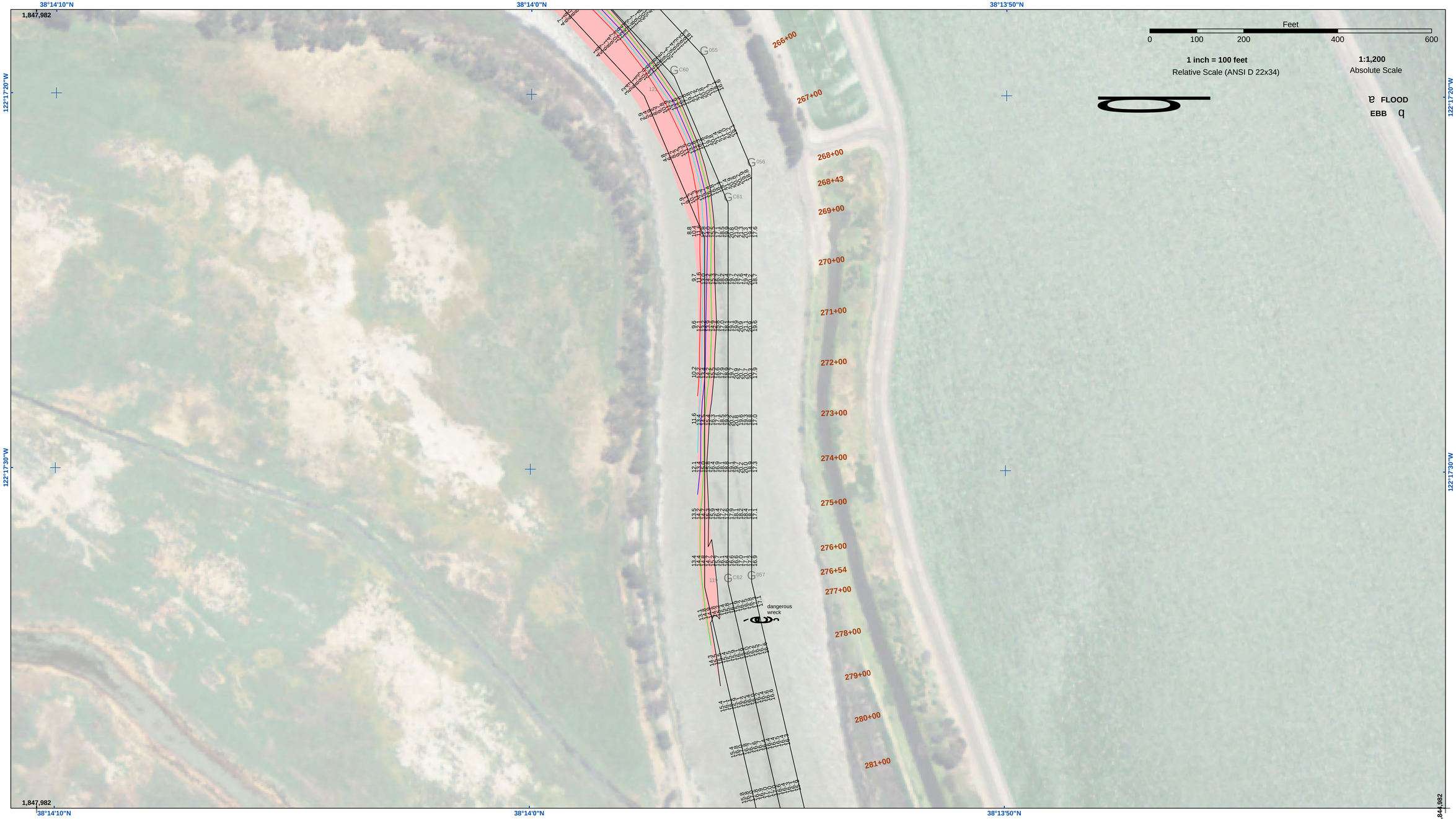

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1,847,899

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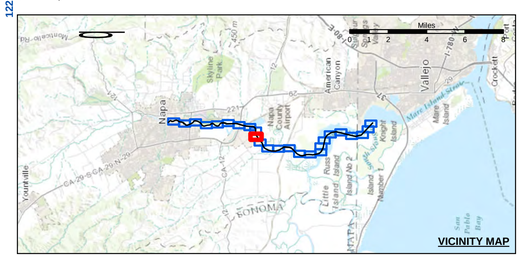

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1,846,753 1,843,753

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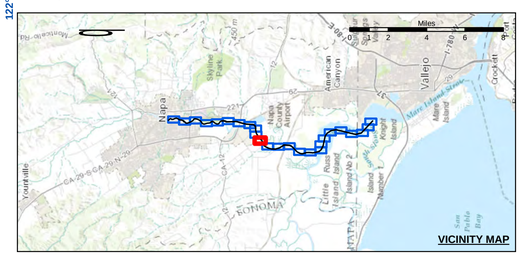

- Federal Navigation Channel
- Shoaling Area
- Placement Area
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- Wreck Area
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Contours
-15
-14
-13
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NOTES:
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US Army Corps of Engineers
San Francisco District
1455 Market Street
San Francisco, CA 94103

Chart Date: Mar 16, 2016

Surveyed By:

Designed by: PDT

Plotted By: PDT

Drawn by: PDT

Checked By: PDT

PREPARED UNDER THE DIRECTION OF
JOHN K. BAKER
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader

Recommended: Chief, Hydro Survey Section

Approved: Chief, Construction Branch

CALIFORNIA
NAPA COUNTY

NAPA RIVER
CONDITION SURVEY
2-7 MARCH 2016

Sheet Reference Number
11 of 25

38°13'30"N 38°13'20"N 38°13'10"N

122°18'20"W 122°18'30"W 122°18'40"W

1,844,628 1,841,628

Feet
0 100 200 400 600

1 inch = 100 feet
Relative Scale (ANSI D 22x34)

1:1,200
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FLOOD
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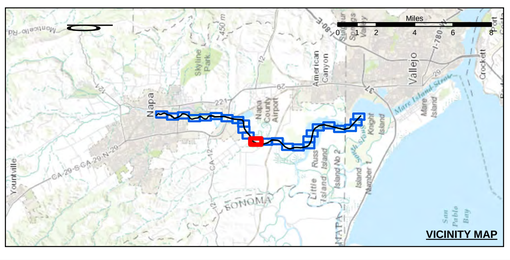

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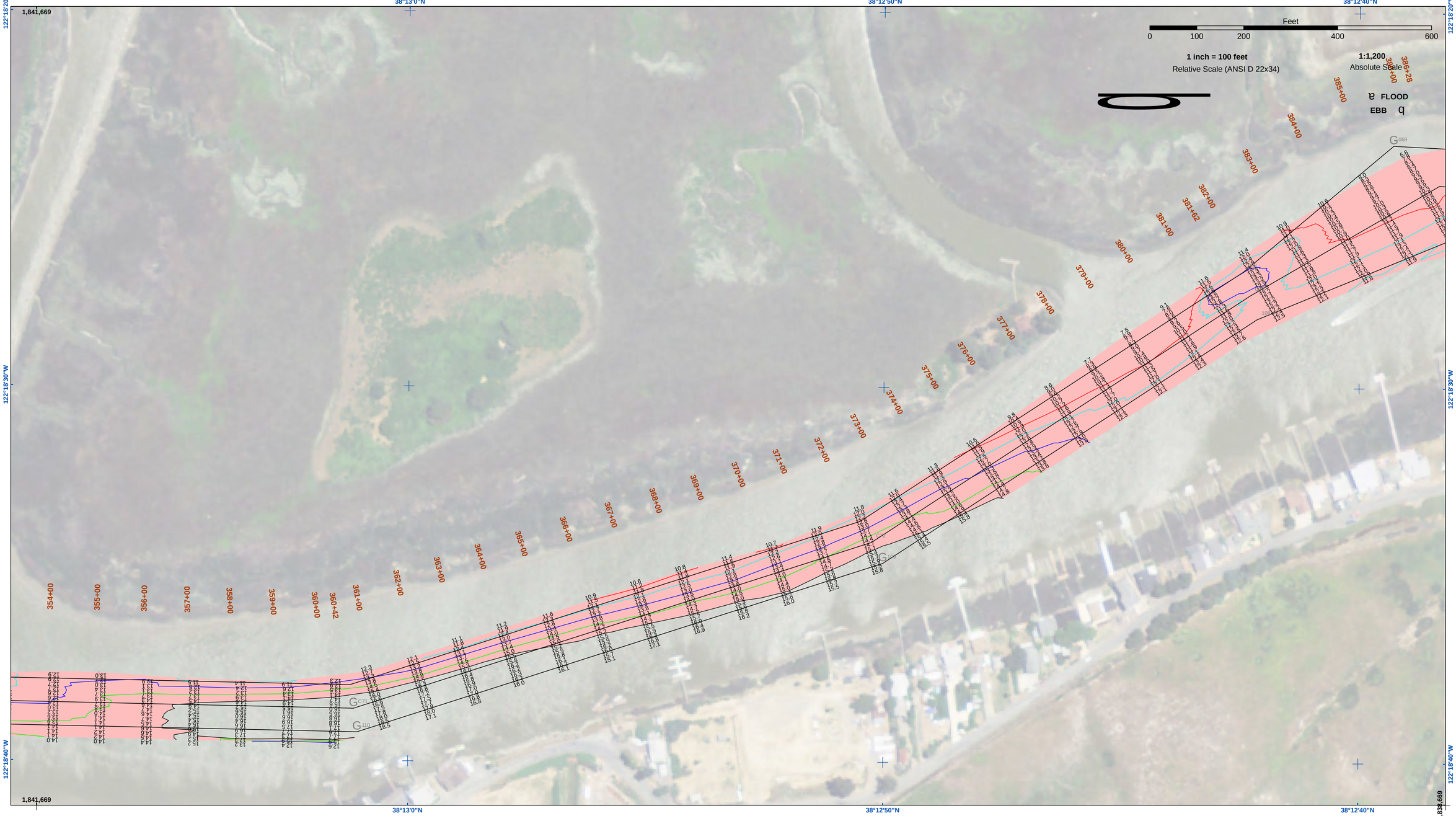

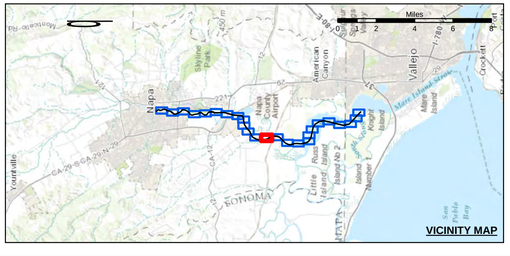

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Plotted By: PDT	Designed by:		
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Submitted	Hydro Survey Team Leader
Recommended	Chief, Hydro Survey Section
Approved	Chief, Construction Branch

CALIFORNIA
NAPA COUNTY

NAPA RIVER
CONDITION SURVEY
2-7 MARCH 2016

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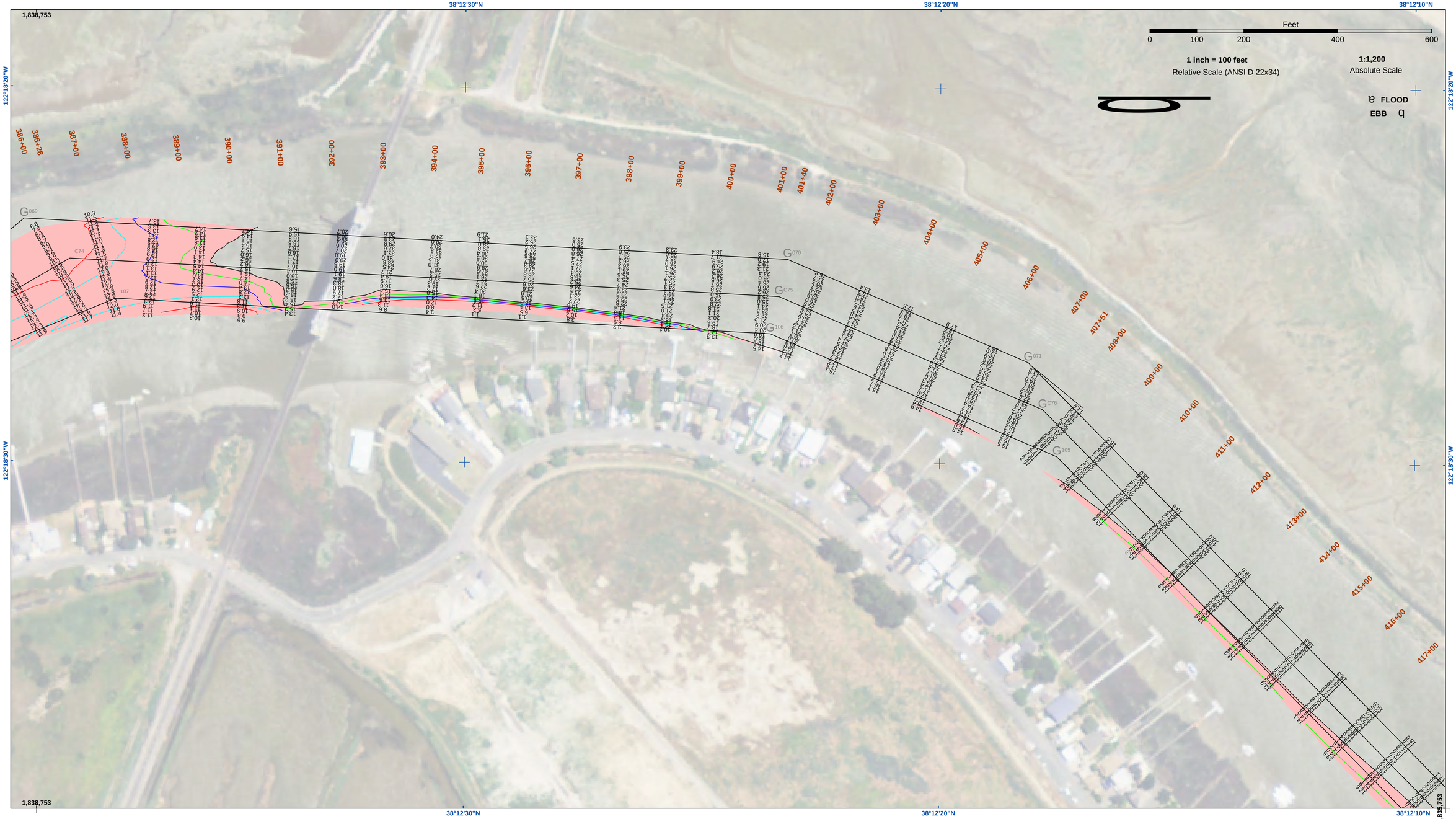

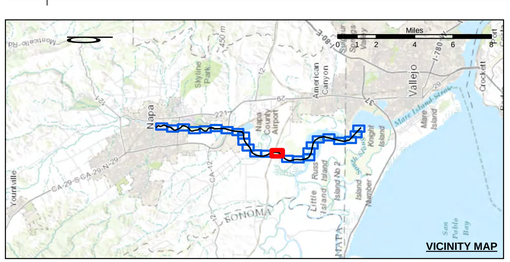

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Submitted:	Hydro Survey Team Leader
Recommended:	Chief, Hydro Survey Section
Approved:	Chief, Construction Branch

CALIFORNIA
NAPA COUNTY

NAPA RIVER
CONDITION SURVEY
2-7 MARCH 2016

Sheet Reference Number
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CORPS OF ENGINEERS U.S. ARMY

38°12'10"N 38°12'0"N 38°11'50"N

122°18'40"W 122°18'50"W

1,835,899 1,832,899

Feet
0 100 200 400 600

1 inch = 100 feet
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1:1,200
Absolute Scale

FLOOD
EBB

420+00 421+00 422+00 423+00 424+00 425+00 426+00 427+00 428+00 429+00 429+81 430+00 431+00 432+00 433+00 434+00 435+00 436+00 437+00 438+00 439+00 440+00 440+15 441+00 442+00 443+00 444+00 444+70 445+00 446+00 447+00 448+00 449+00 450+00 451+00 452+00 453+00

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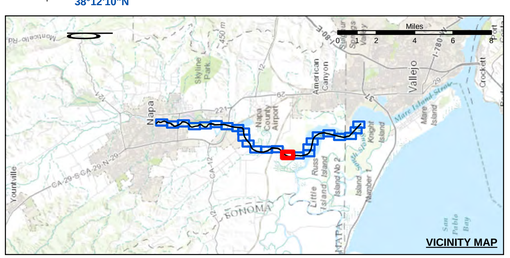

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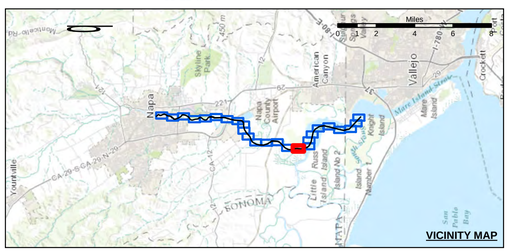

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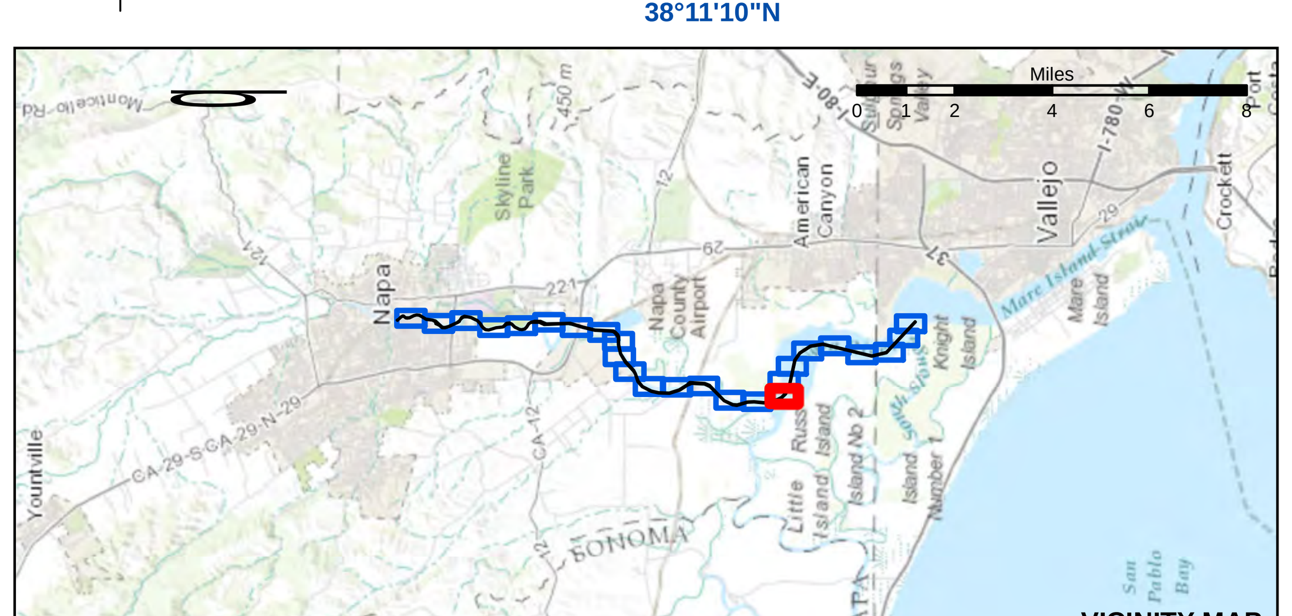

Legend	
Federal Navigation Channel	Beacon, General
Shoaling Area	Obstruction Point
Placement Area	Navigation Buoy
Anchorage Area	Navigation Buoy
Wreck Area	Shoalest Sounding*
Submerged Wreck	
Angle Point	

Contours
-15
-14
-13
-12
-11

NOTES:
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US Army Corps of Engineers
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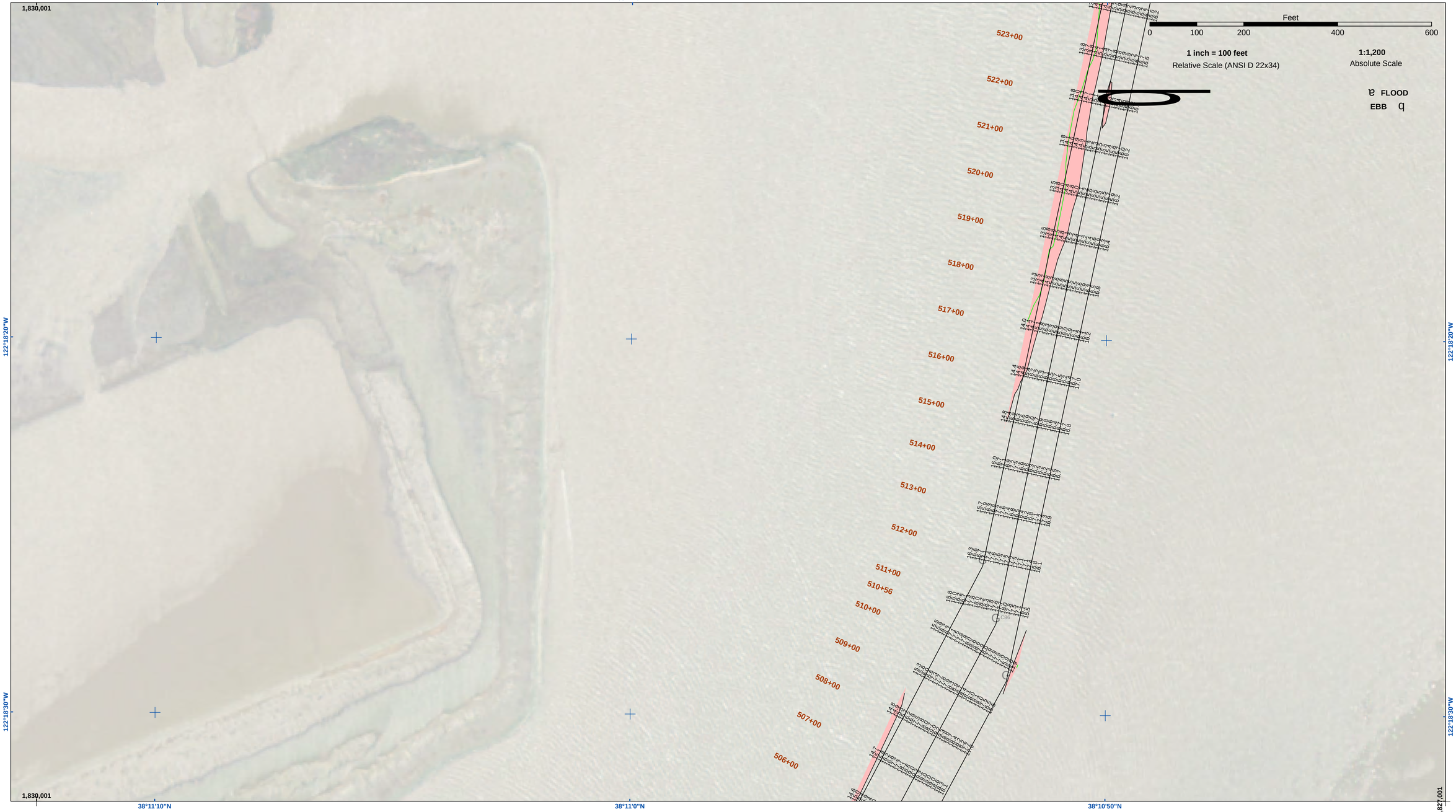
PREPARED UNDER THE DIRECTION OF
JOHN K. BAKER
LT. COLONEL, C.E., DISTRICT ENGINEER

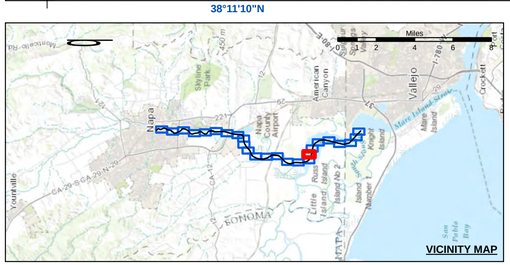
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

Surveyed By:	Chart Date: Mar 16, 2016
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

NAPA COUNTY — CALIFORNIA

NAPA RIVER
CONDITION SURVEY
2-7 MARCH 2016





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LT. COLONEL, C.E. DISTRICT ENGINEER

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CALIFORNIA
NAPA COUNTY

NAPA RIVER
CONDITION SURVEY
2-7 MARCH 2016

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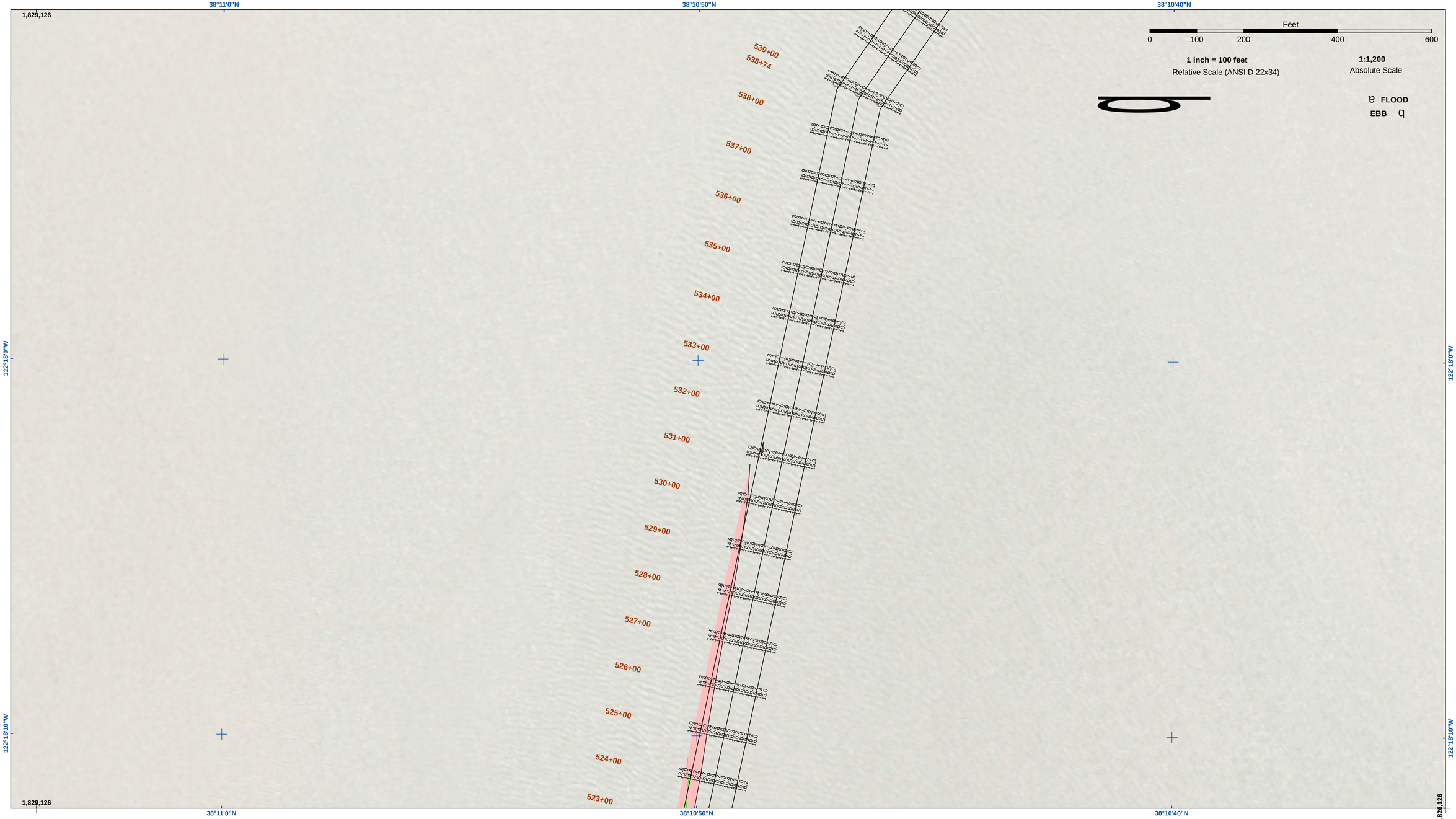

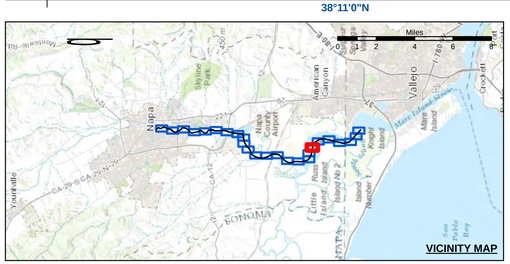

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Submitted
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CALIFORNIA
NAPA COUNTY

NAPA RIVER
CONDITION SURVEY
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38°10'40"N 38°10'30"N 38°10'20"N
122°17'40"W 122°17'30"W
1,827,459 1,824,459

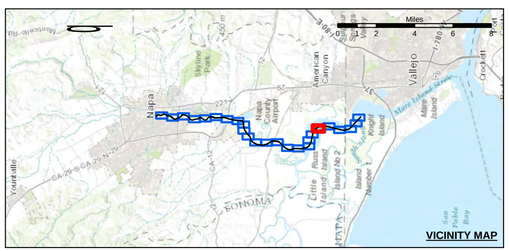
Feet
0 100 200 400 600

1 inch = 100 feet
Relative Scale (ANSI D 22x34)

1:1,200
Absolute Scale

FLOOD
EBB

548+09 548+00 549+00 550+00 551+00 552+00 553+00 554+00 555+00 556+00 557+00 558+00 559+00 560+00 561+00 561+90 562+00 563+00 564+00 565+00 566+00 567+00 568+00



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Submitted:
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CALIFORNIA
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NAPA RIVER
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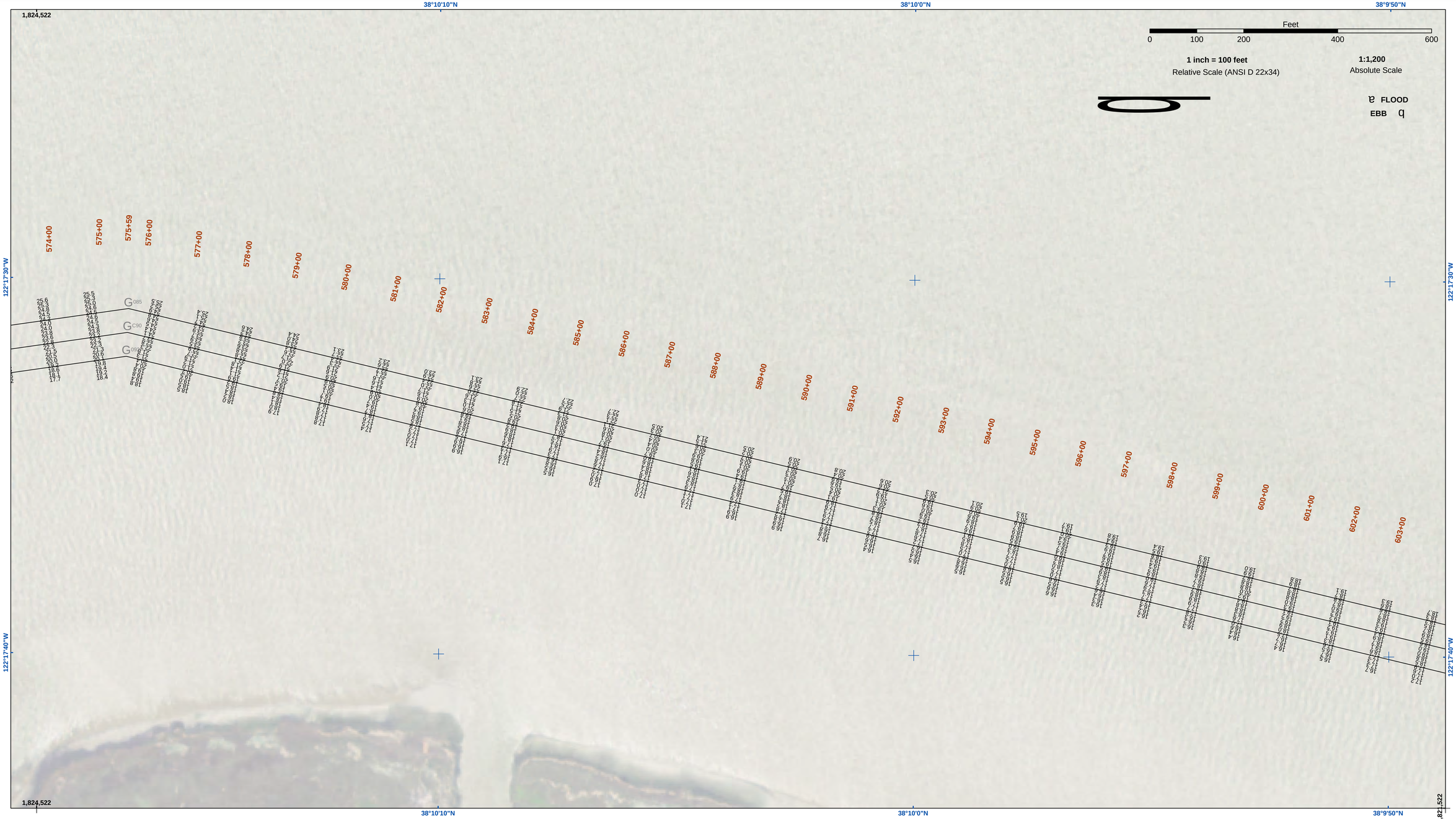

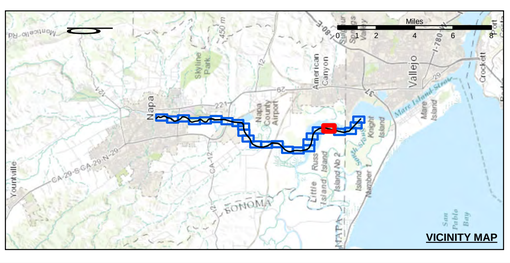

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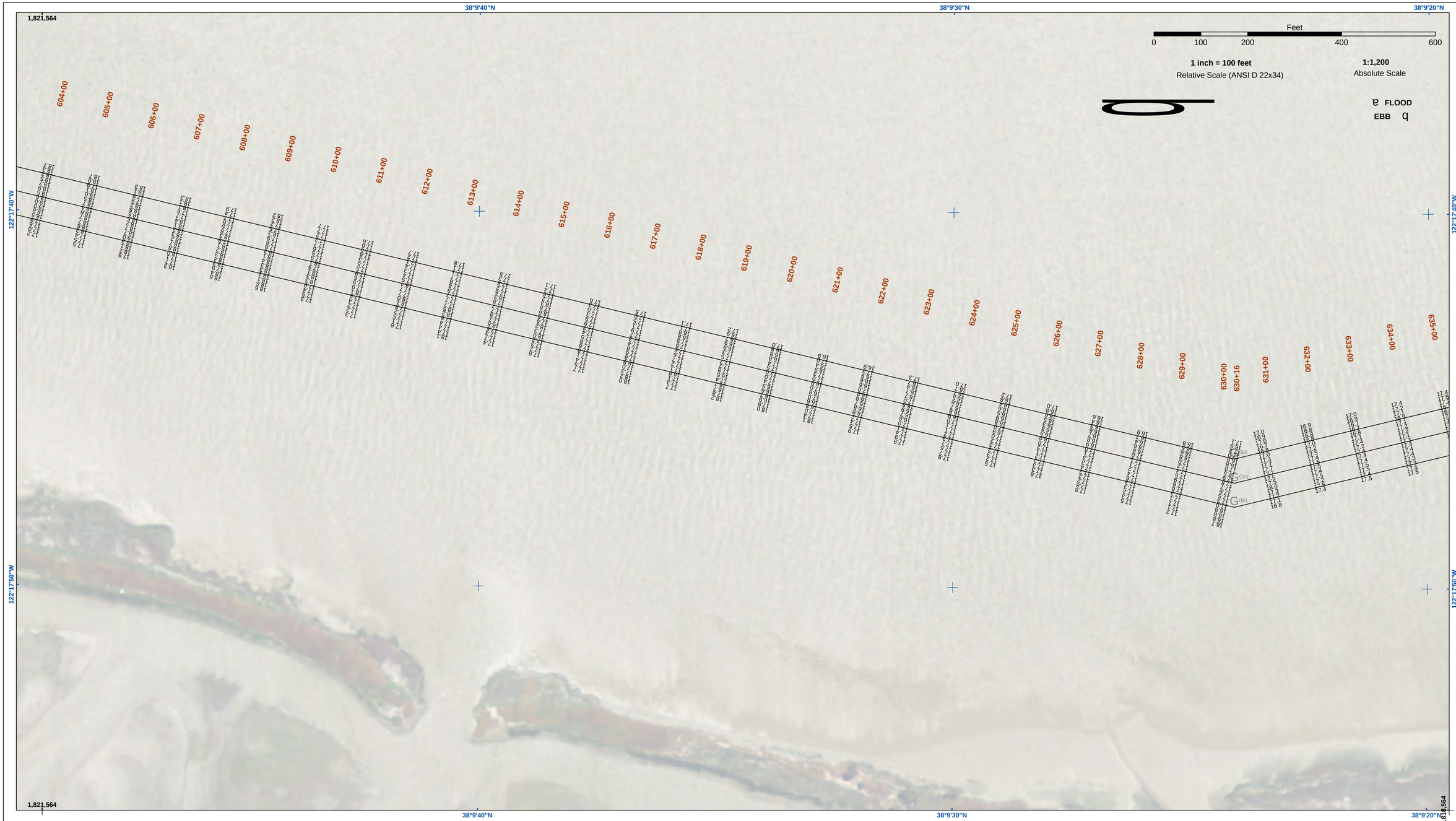

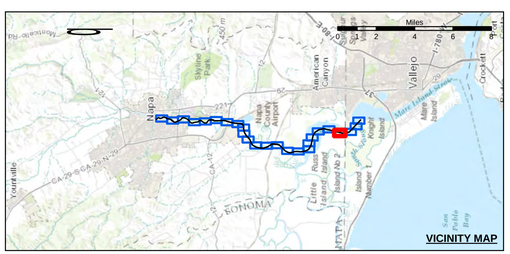

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176+00 TO 224+00 - NAPAR01 - 2.652m MLLW, -29.111m WGS-84 - USACE - RTK BASE STATION WGS-84 ELEVATION FROM OPUS SOLUTION MLLW ELEV.
CALCULATED FROM TRANSECT 11 AND NRFP4 USING RTK OBSERVATIONS PID PENDING.

225+00 TO 640+00 - NAPAR02 - 3.653m MLLW -28.241m WGS-84 - USACE - RTK BASE STATION WGS-84 ELEVATION FROM OPUS SOLUTION MLLW ELEV. CALCULATED BY INTERPOLATING ELEVATIONS BETWEEN NOAA TIDE STATIONS 941 5623 AND 941 5218 PID PENDING.

641+00 TO 692+00 - NAPAR03 - 3.553m MLLW -28.416m WGS-84 - USACE - RTK BASE STATION WGS-84 ELEVATION FROM OPUS SOLUTION MLLW ELEV. TRANSFERRED FROM BM 5218 J 1976 VIA RTK ON 4/10/2012 PID PENDING.

US Army Corps of Engineers
San Francisco District
1455 Market Street
San Francisco, CA 94103

Chart Date: Mar 16, 2016		
Surveyed By:	Designed by:	Drawn by: PDT
	Plotted By: PDT	Checked By: PDT

PREPARED UNDER THE DIRECTION OF
JOHN K. BAKER
LT. COLONEL, C.E. DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
NAPA COUNTY

NAPA RIVER
CONDITION SURVEY
2-7 MARCH 2016

Sheet Reference Number
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38°9'20"N
1,818,605
38°9'10"N
38°9'0"N
122°17'40"W
122°17'50"W
122°17'56"W
1,815,605

Vallejo

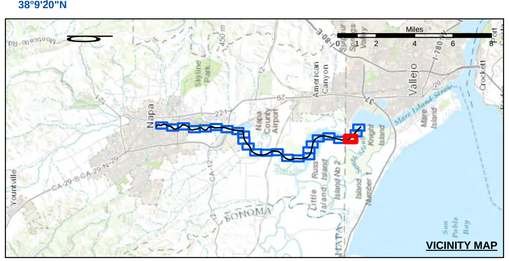
635+00 636+00 637+00 638+00 639+00 640+00 641+00 642+00 643+00 644+00 645+00 646+00 646+39 647+00 648+00 649+00 650+00 651+00 652+00 653+00 654+00 655+00 656+00

Feet
0 100 200 400 600

1 inch = 100 feet
Relative Scale (ANSI D 22x34)

1:1,200
Absolute Scale

FLOOD
EBB



- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding*

Contours
-15
-14
-13
-12
-11

NOTES:
HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83). PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE II. DISTANCE UNITS IN U.S. SURVEY FEET.

VERTICAL DATUM:
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CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY NATIONAL OCEAN SURVEY.
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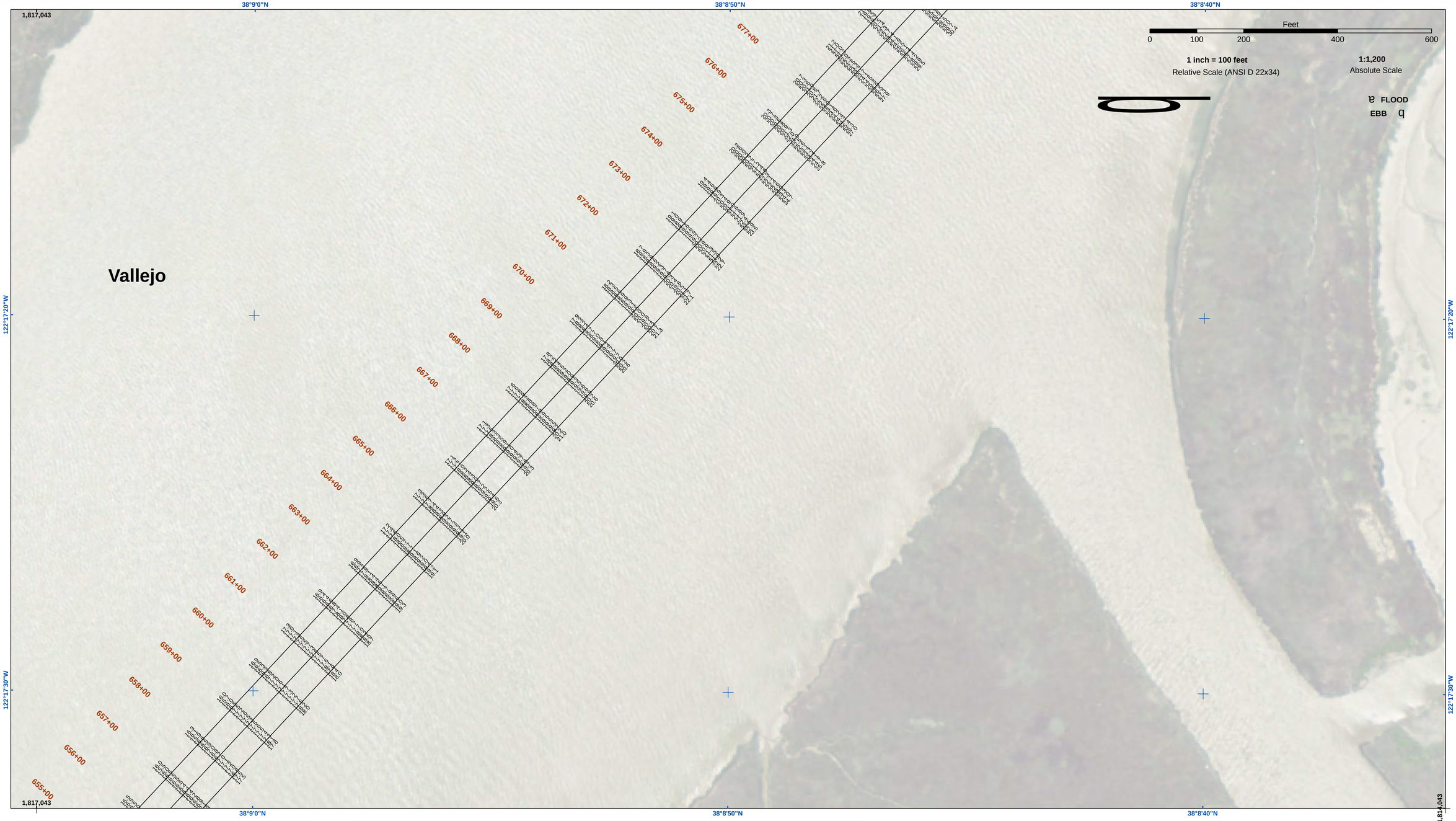

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CONDITION SURVEY
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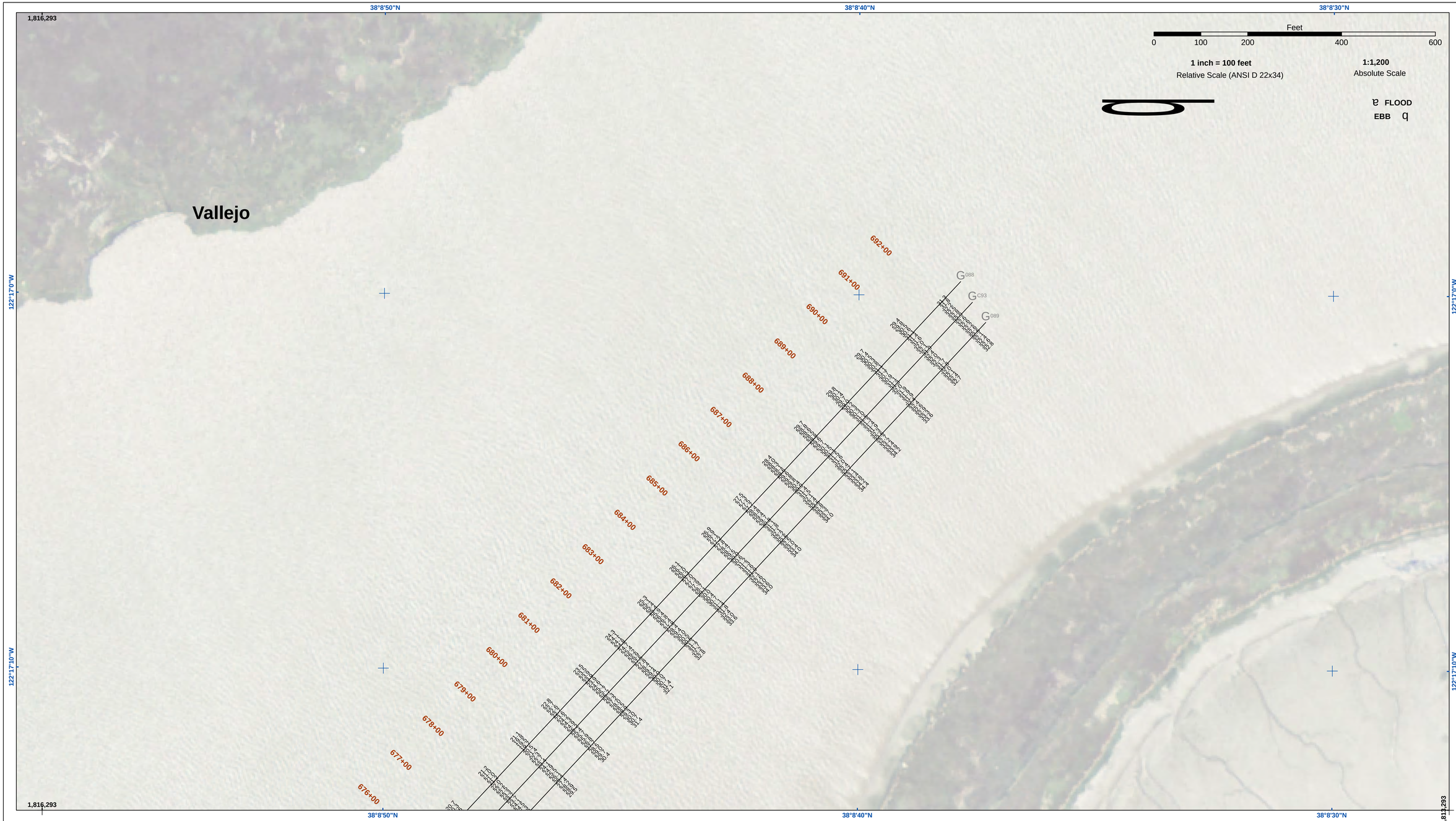

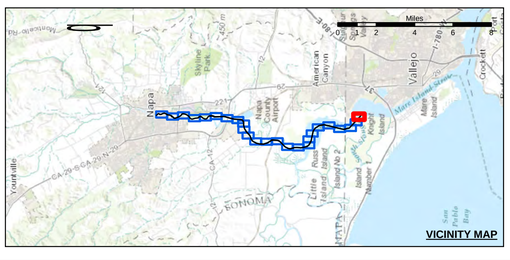

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