

DISCLAIMER: The data represents the results of data collection for a specific US Army Corps of Engineers project. The data is not intended for navigation purposes. The user is responsible for the results of any use of the data for other than its intended purpose.

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Under no liability whatsoever to any person by reason of any use of the information and the data furnished. The United States shall be held harmless by the recipient fully agrees not to represent these data to anyone as other than Government provided data. The recipient may not transfer these data to others without data handling instructions.

Chart Date:	Apr 21, 2021
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT

CALIFORNIA

SAN JOAQUIN COUNTY

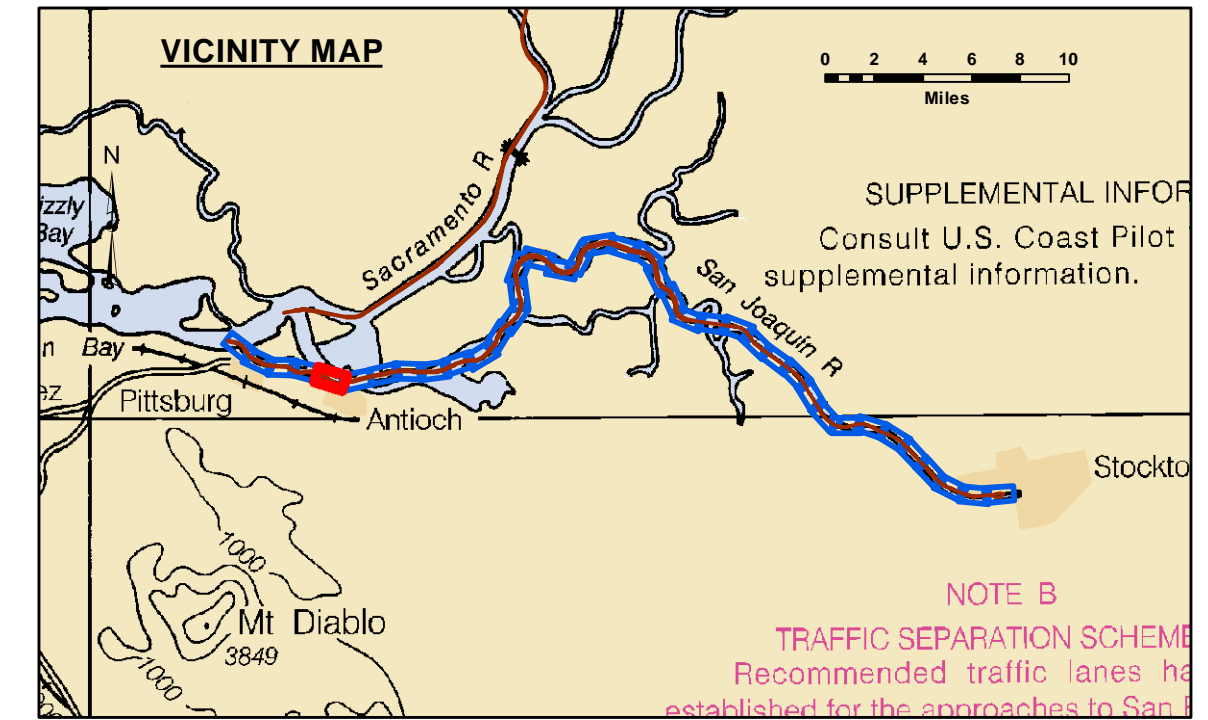
STOCKTON RIVER

CONDITION SURVEY

12-16 APRIL 2021

Sheet Reference Number

5 of 39



LEGEND

--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -35
..... Cable Submarine	⊠ Anchorage Area	⬇ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -33
— Contour Line	✈ Wrecks-Submerged	◆ Green Navigation Buoy	— -32
			— -31

NOTES:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY.
THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.
SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.
SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

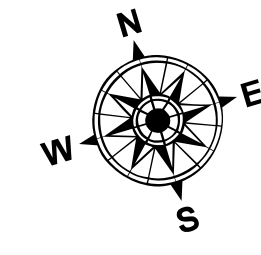
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

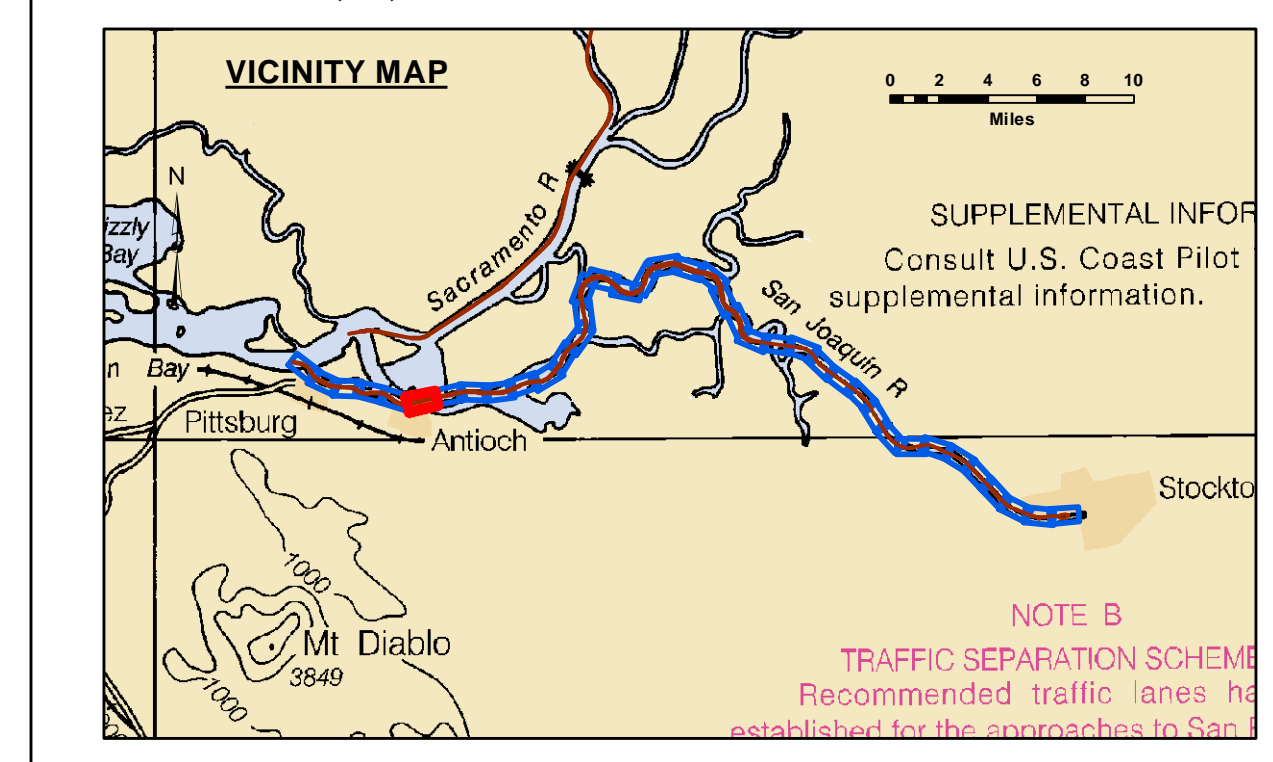
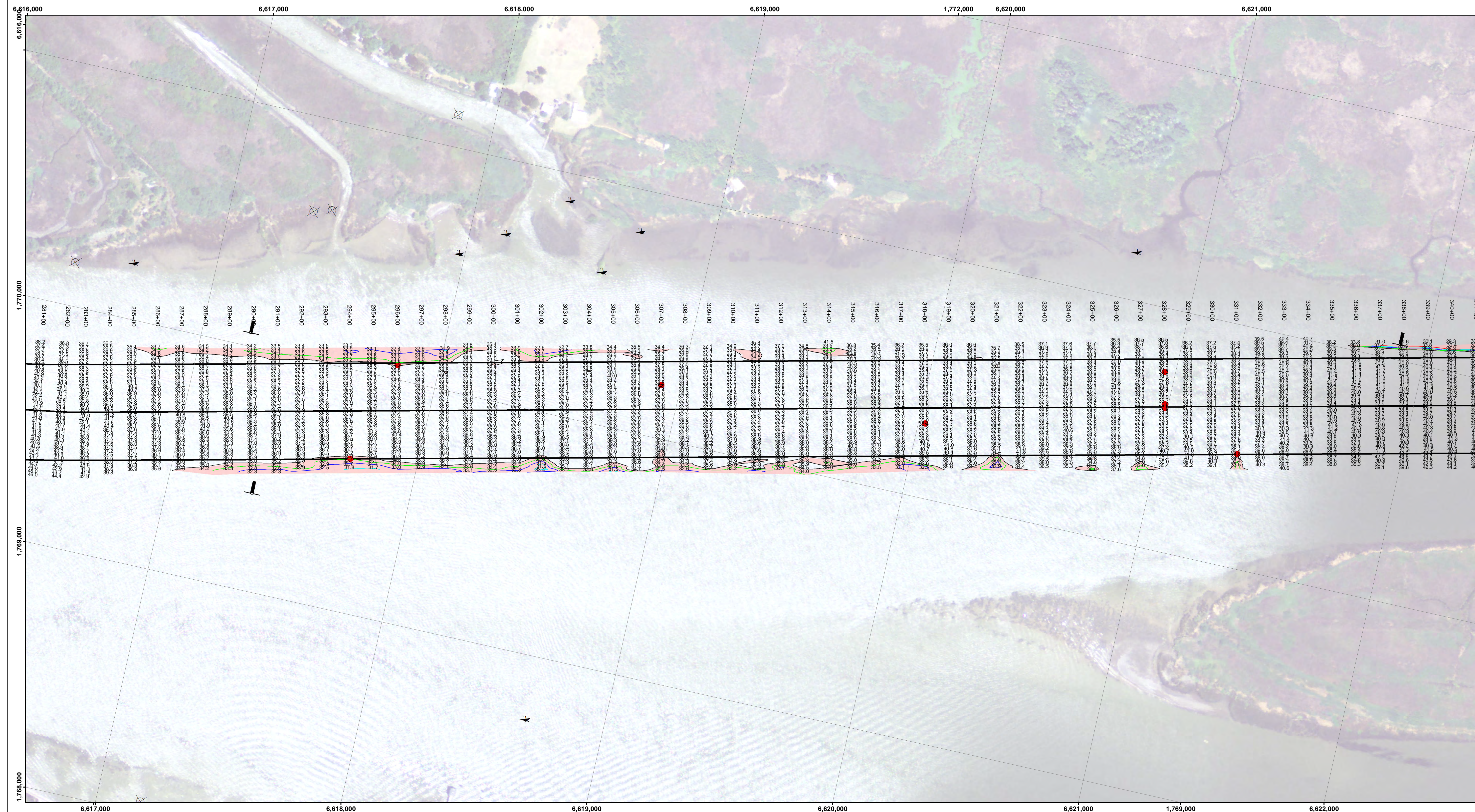
PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW





Feet
0 400 800 1,200

--- Federal Navigation Channel	▨ Cable Area	▭ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -35
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PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
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CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5084-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
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Chart Date:	Apr 21, 2021
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT. COLONEL, C.E., DISTRICT ENGINEER

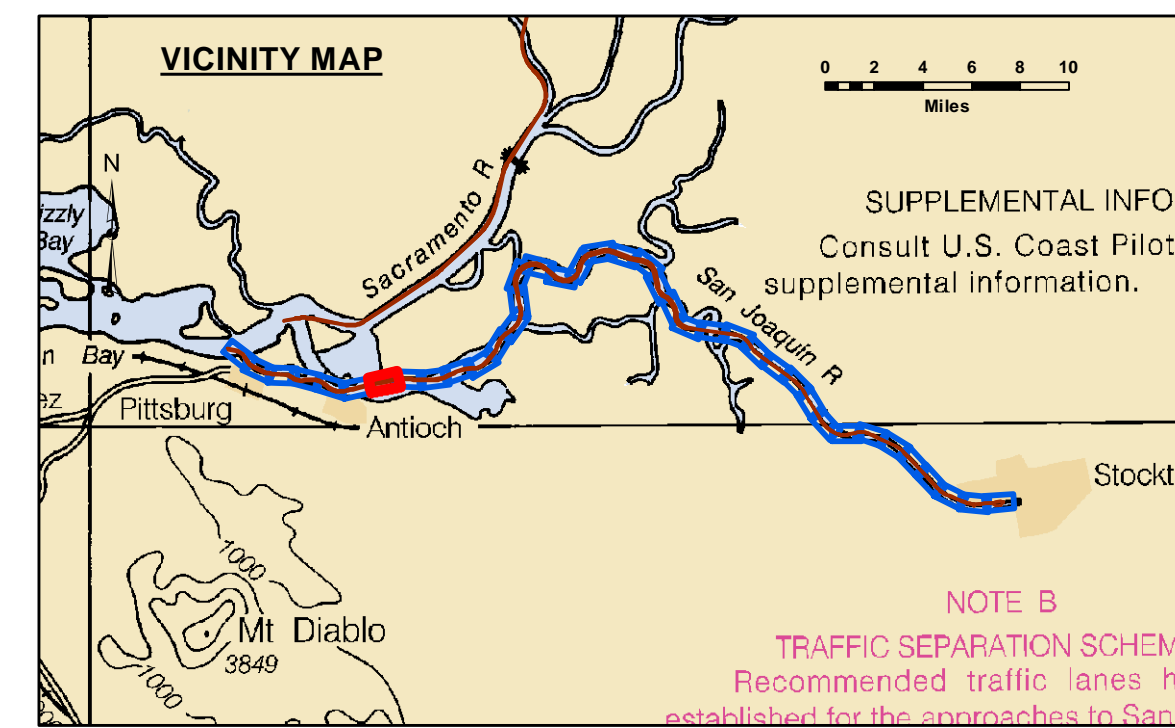
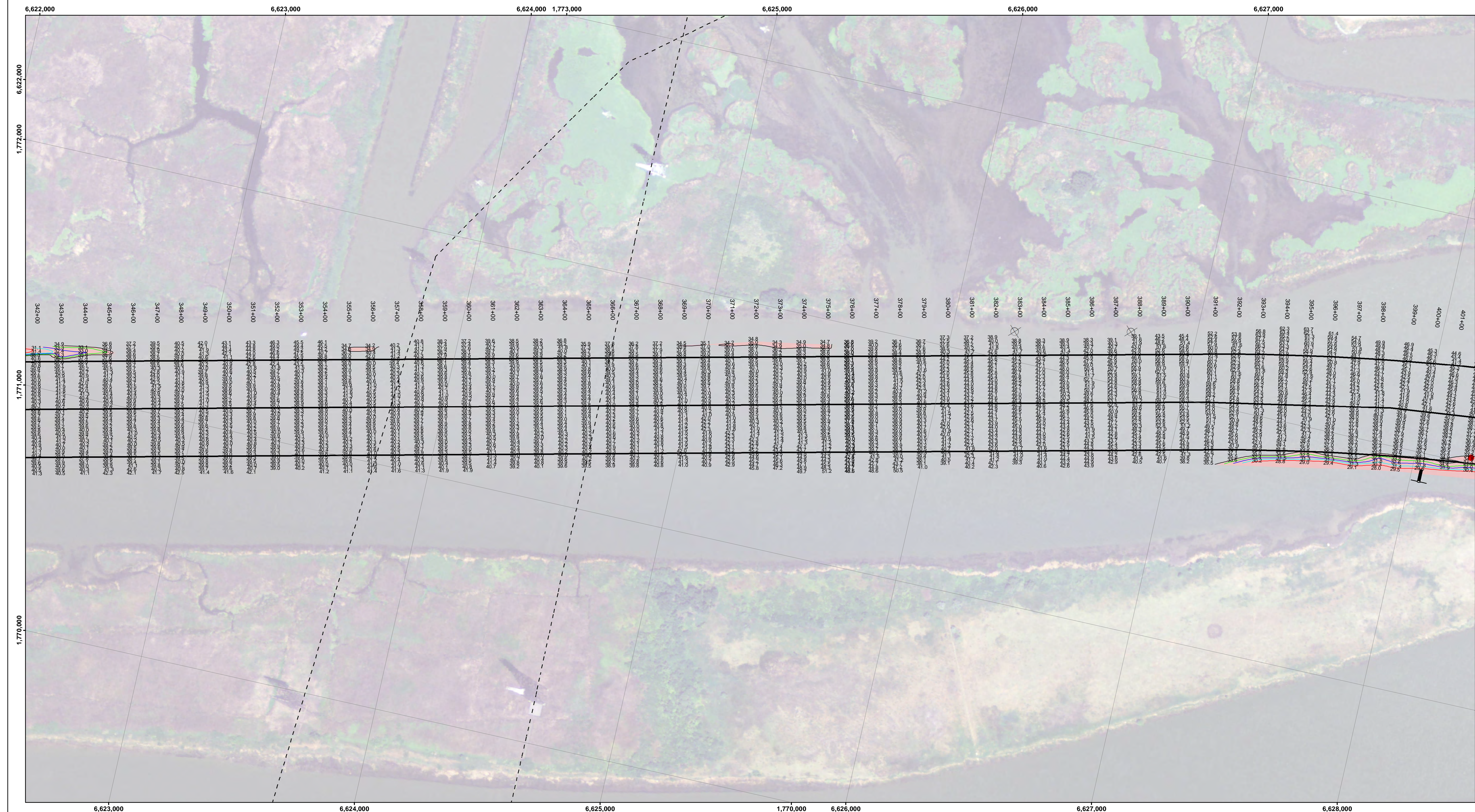
Supervised:
Hydro Survey Team Leader

Recommended:
Chief, Hydro Survey Section

Approved:
Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
6 of 39



LEGEND

--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -35
..... Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General	— -34
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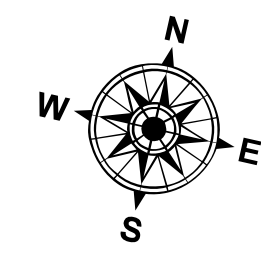
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LOCATION: ANTIOCH
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BENCHMARK: 5084-F (No PID)
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LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
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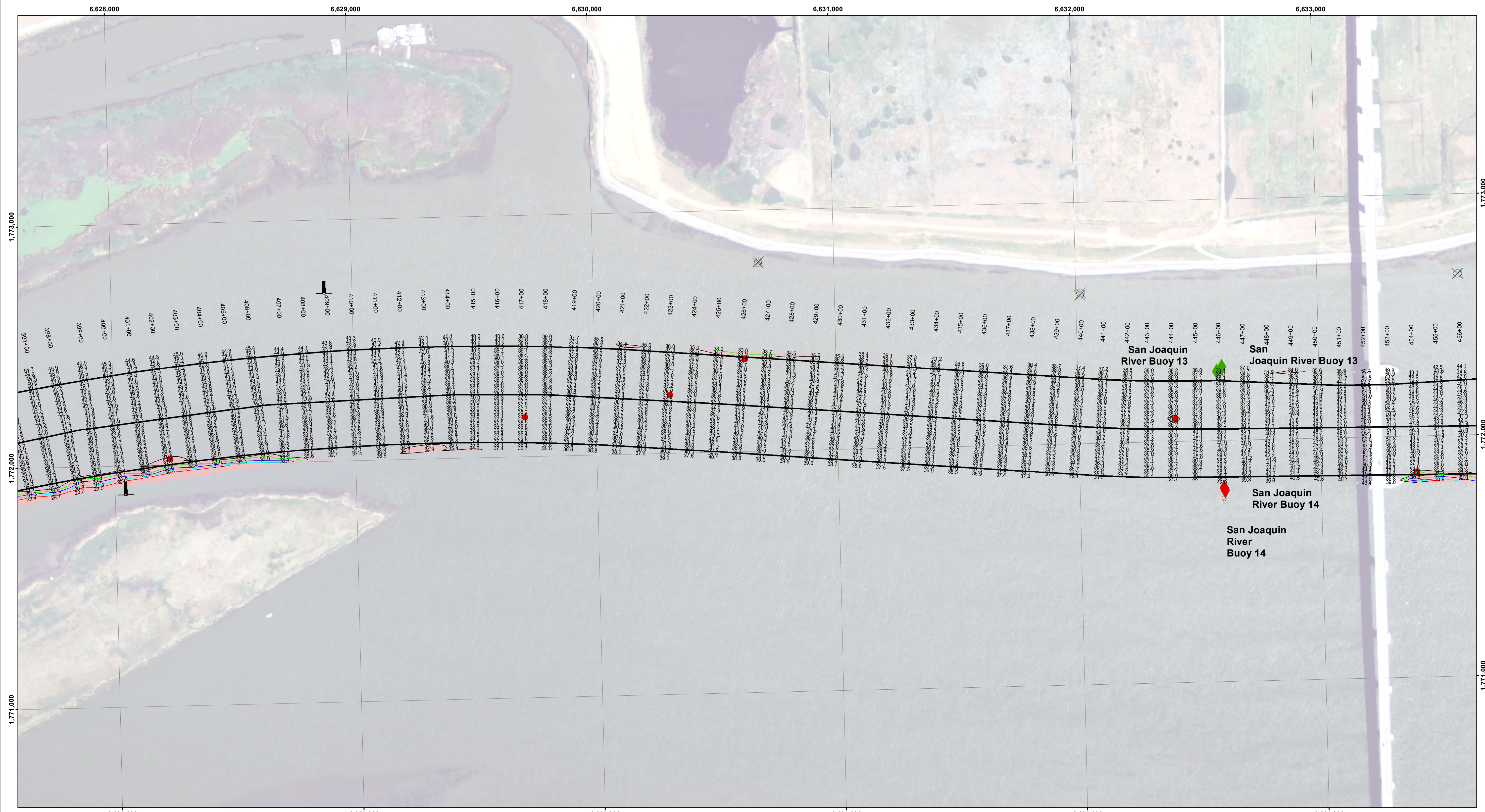


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Chart Date:	Apr 21, 2021
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Designed By:	PDT
Checked By:	PDT
Drawn By:	PDT

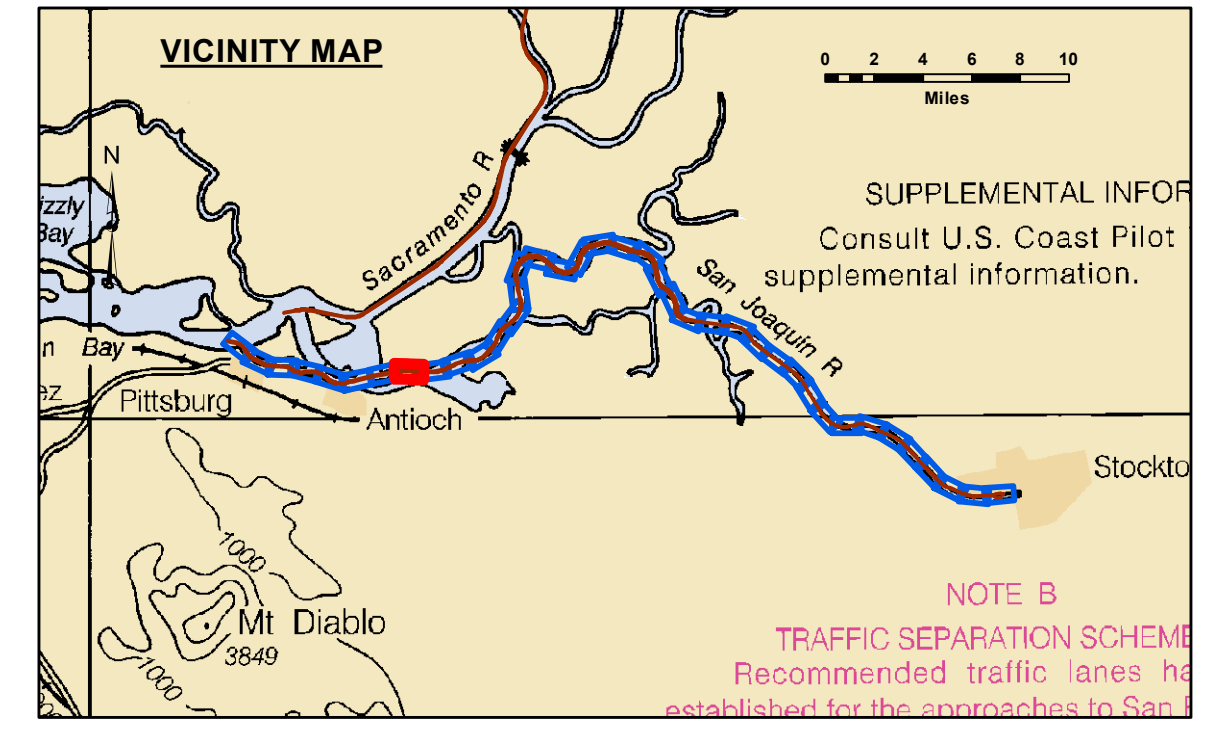
CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
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Chart Date:	Apr 23, 2021
Prepared Under the Direction of:	JOHN D. CUNNINGHAM
Surveiled By:	LT COLONEL C.E. DISTRICT ENGINEER
Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT



Feet
0 400 800 1,200

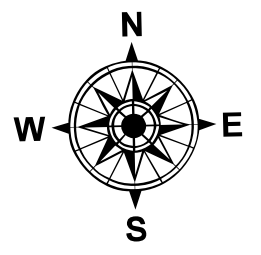
<p>--- Federal Navigation Channel</p> <p>— Federal Navigation Center Line</p> <p>..... Cable Submarine</p> <p>- - - Cable Overhead</p> <p>— Contour Line</p>	<p>LEGEND</p> <p>▨ Cable Area</p> <p>□ Placement Area</p> <p>⊠ Anchorage Area</p> <p>⊗ Obstruction Point</p> <p>✶ Wrecks-Submerged</p>	<p>■ Shoaling Area</p> <p>● Shoalest Sounding within Channel Quarter**</p> <p>⊥ Beacon, General</p> <p>◆ Red Navigation Buoy</p> <p>◆ Green Navigation Buoy</p>	<p>Contours</p> <p>— -35</p> <p>— -34</p> <p>— -33</p> <p>— -32</p> <p>— -31</p>
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NOTES:
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 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 Nail @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 Nail @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
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OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
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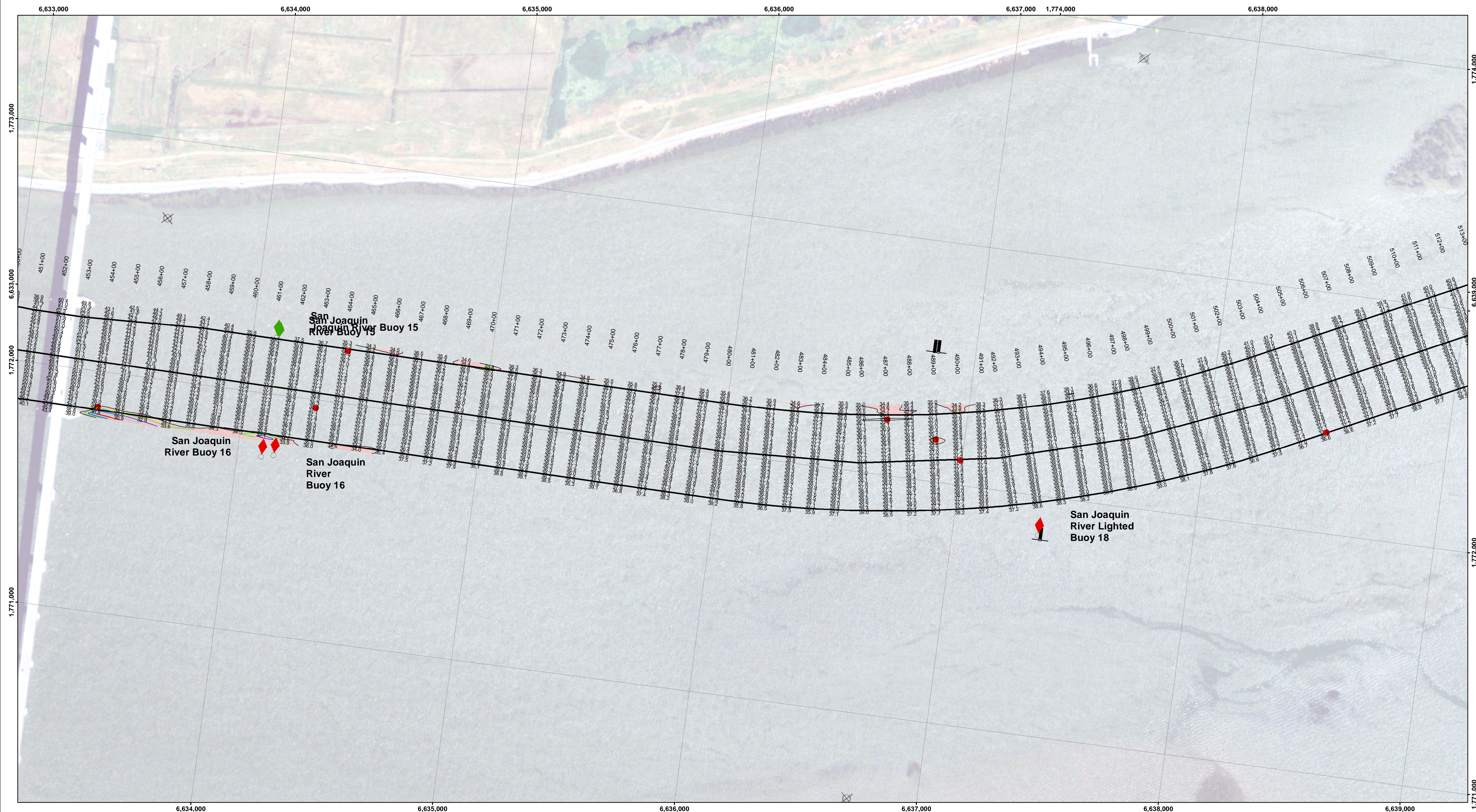


CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
 CONDITION SURVEY
 12-16 APRIL 2021

Sheet Reference Number
8 of 39



US Army Corps of Engineers District: CESP

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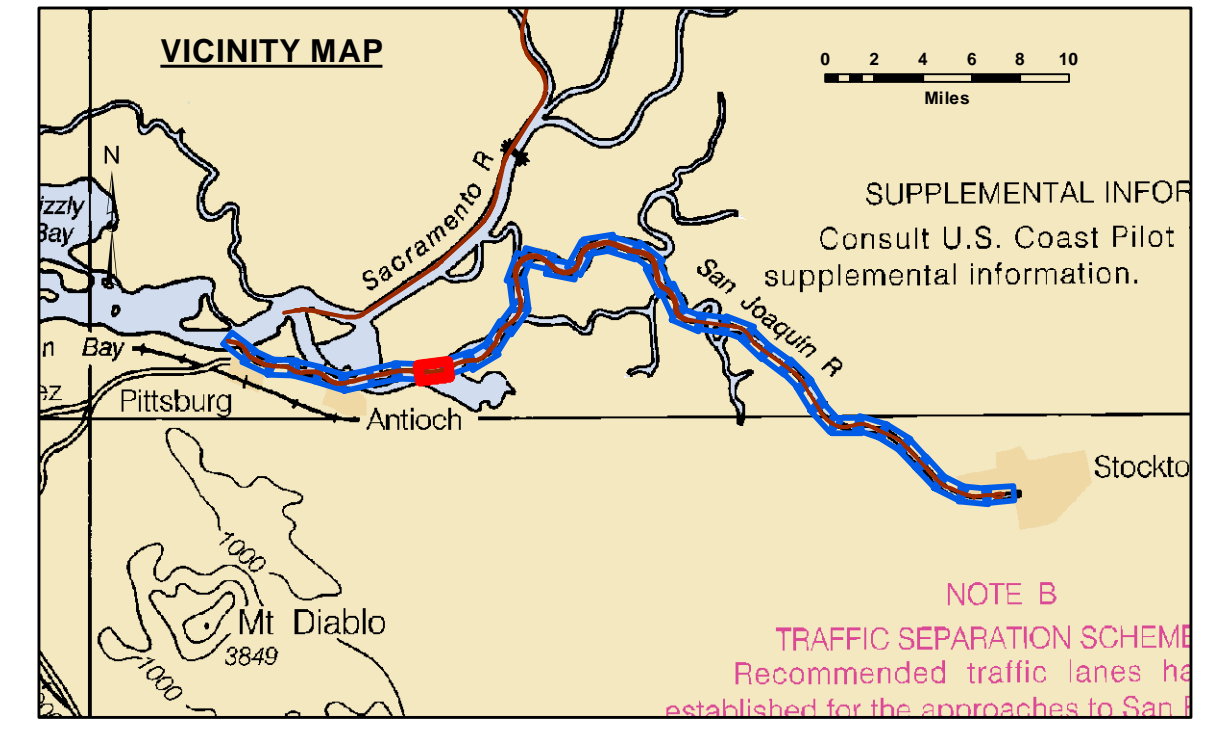
Chart Date:	Apr 21, 2021
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
 LT COLONEL, C.E., DISTRICT ENGINEER

Supervised: _____
 Hydro Survey Team Leader

Recommended: _____
 Chief, Hydro Survey Section

Approved: _____
 Chief, Construction Branch



LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	▭ Shoaling Area	— -35
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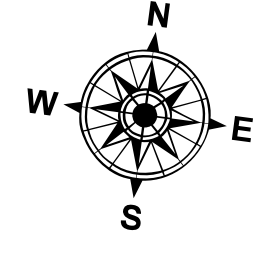
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CALIFORNIA
 SAN JOAQUIN COUNTY

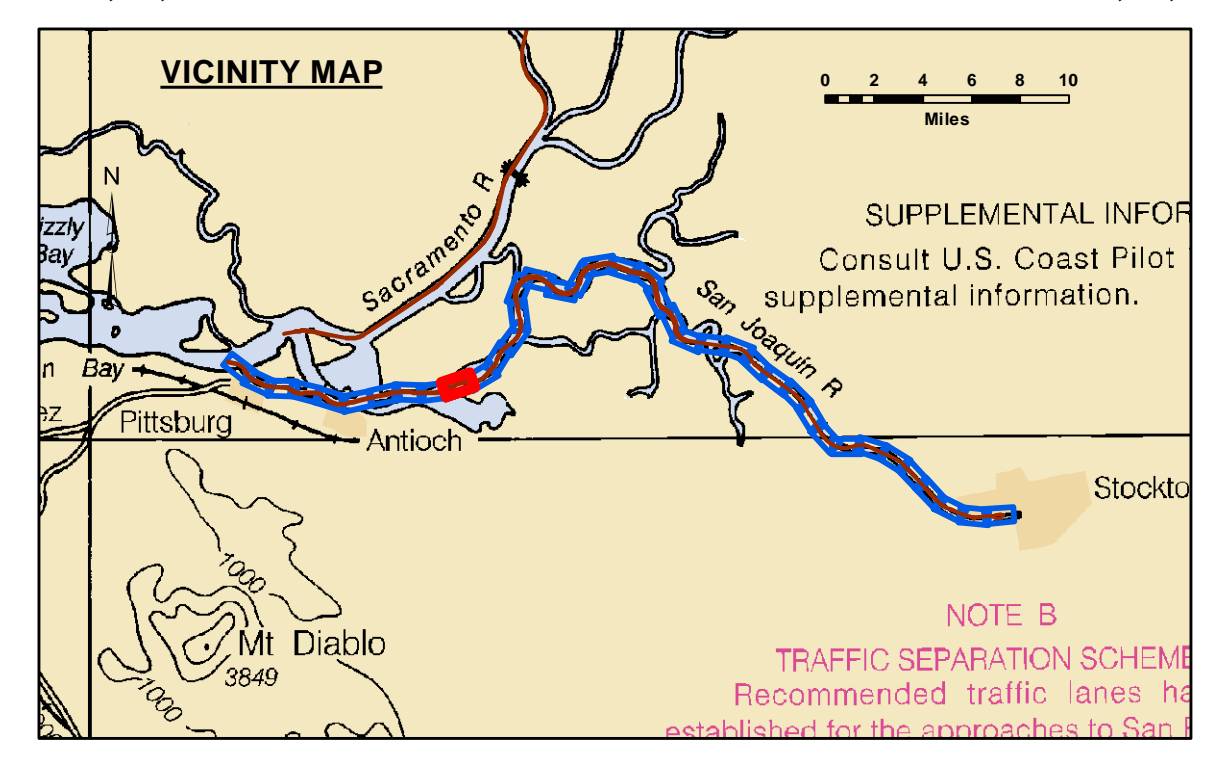
STOCKTON RIVER
 CONDITION SURVEY
 12-16 APRIL 2021

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Plotted By:	PDT
Designed by:	PDT
Checked By:	PDT
Drawn by:	PDT



Feet
0 400 800 1,200

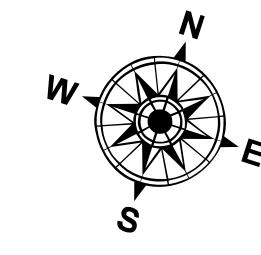
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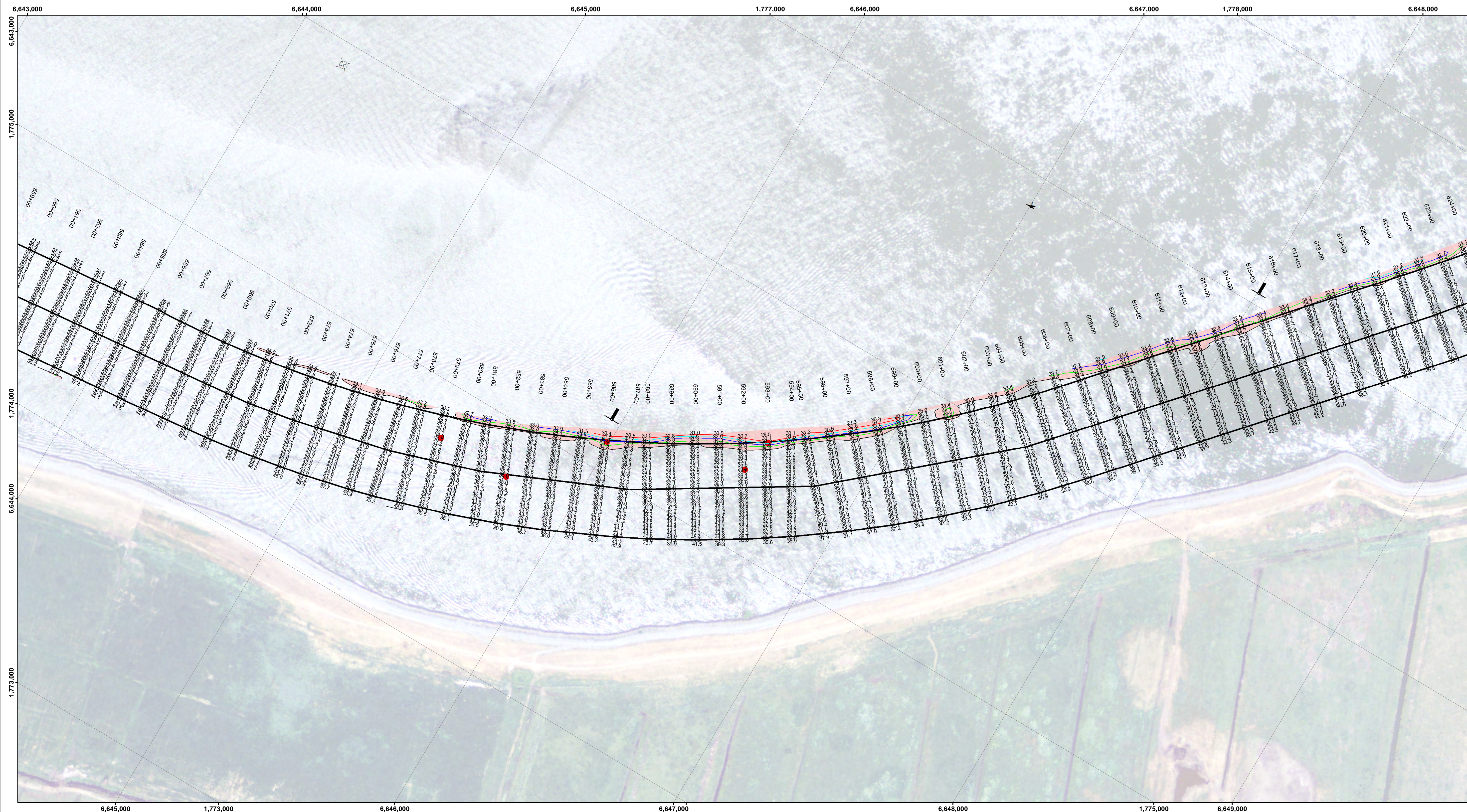
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CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
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Sheet Reference Number
10 of 39

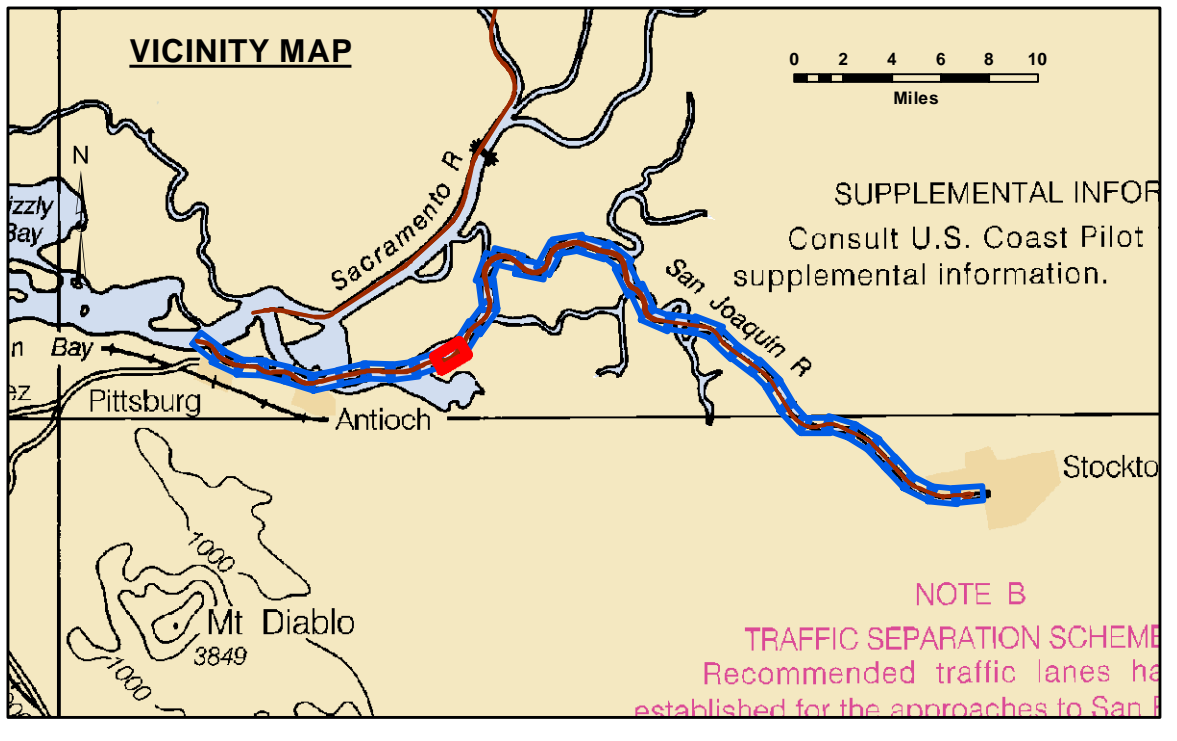


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Checked By:	PDT
Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E., DISTRICT ENGINEER

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



0 400 800 1,200 Feet

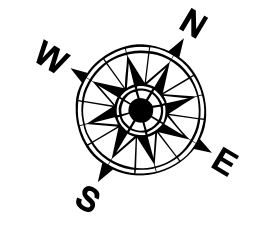
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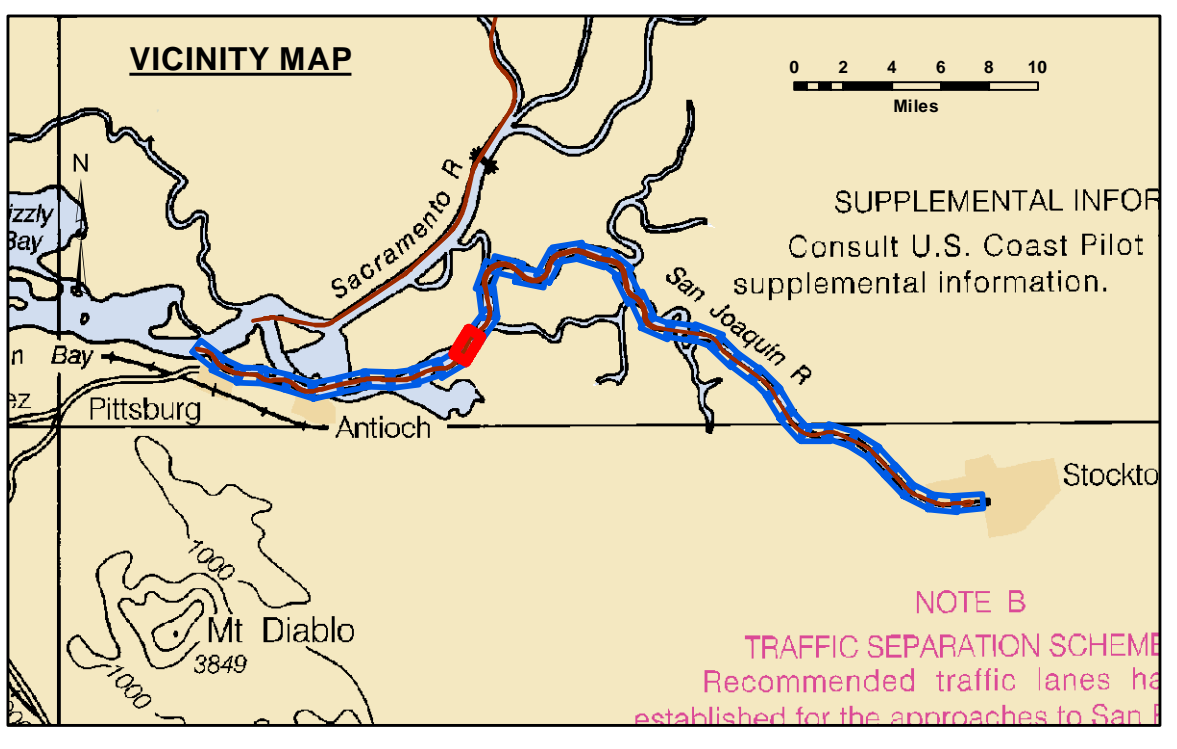
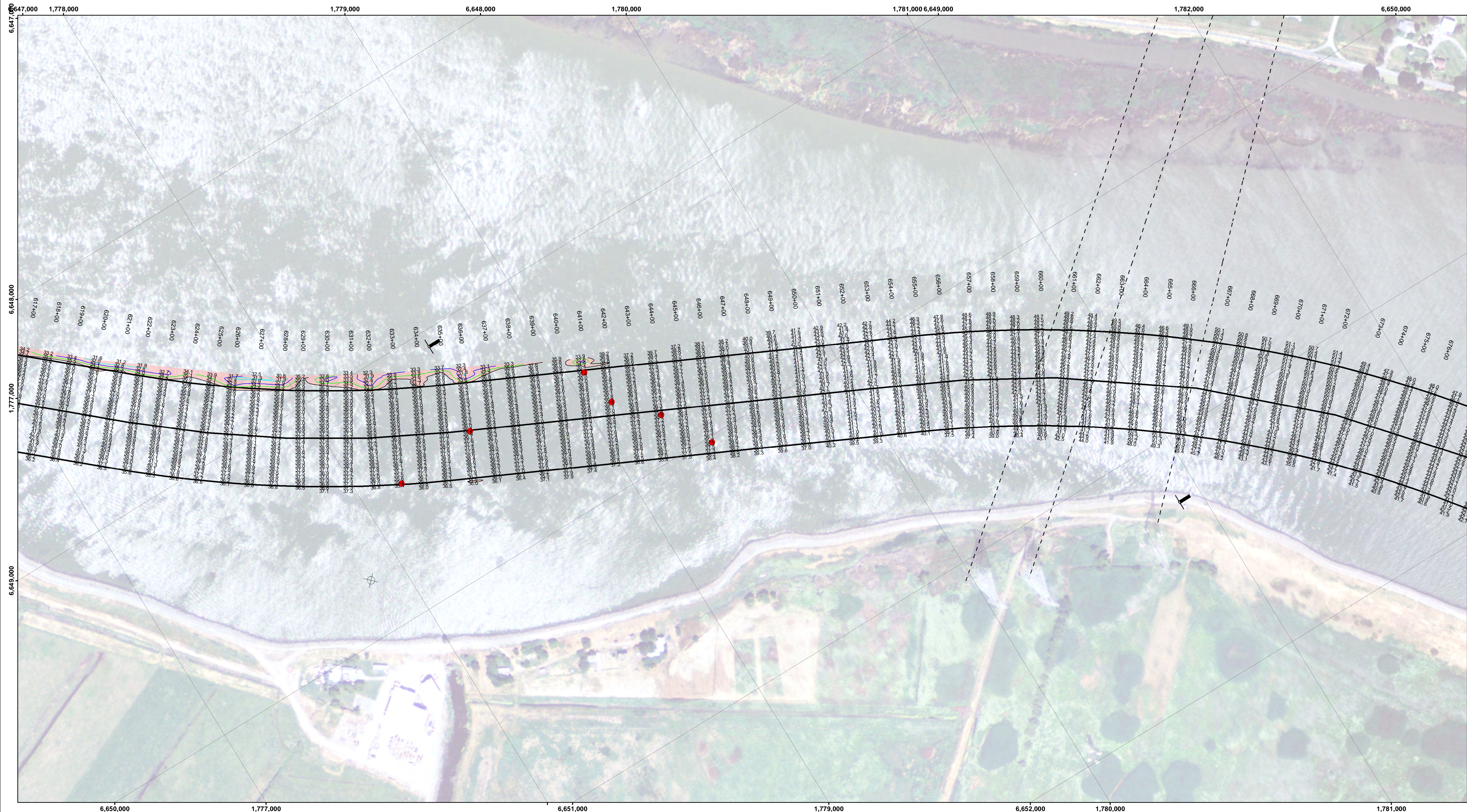


CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
11 of 39



Feet
0 400 800 1,200

--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -35
..... Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -33
— Contour Line	✦ Wrecks-Submerged	◆ Green Navigation Buoy	— -32
			— -31

NOTES:
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SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.
SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

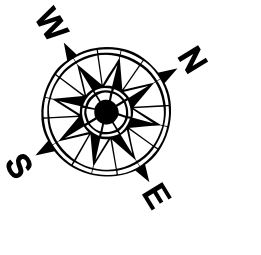
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

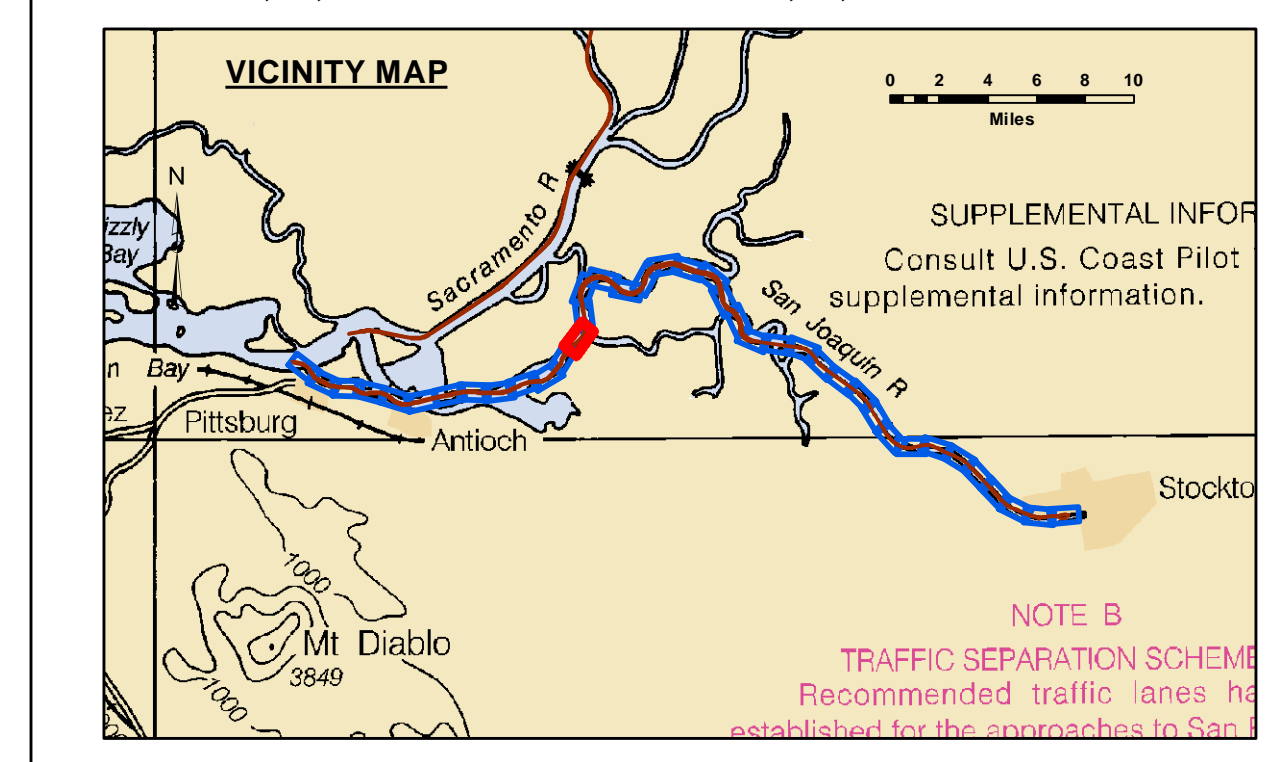
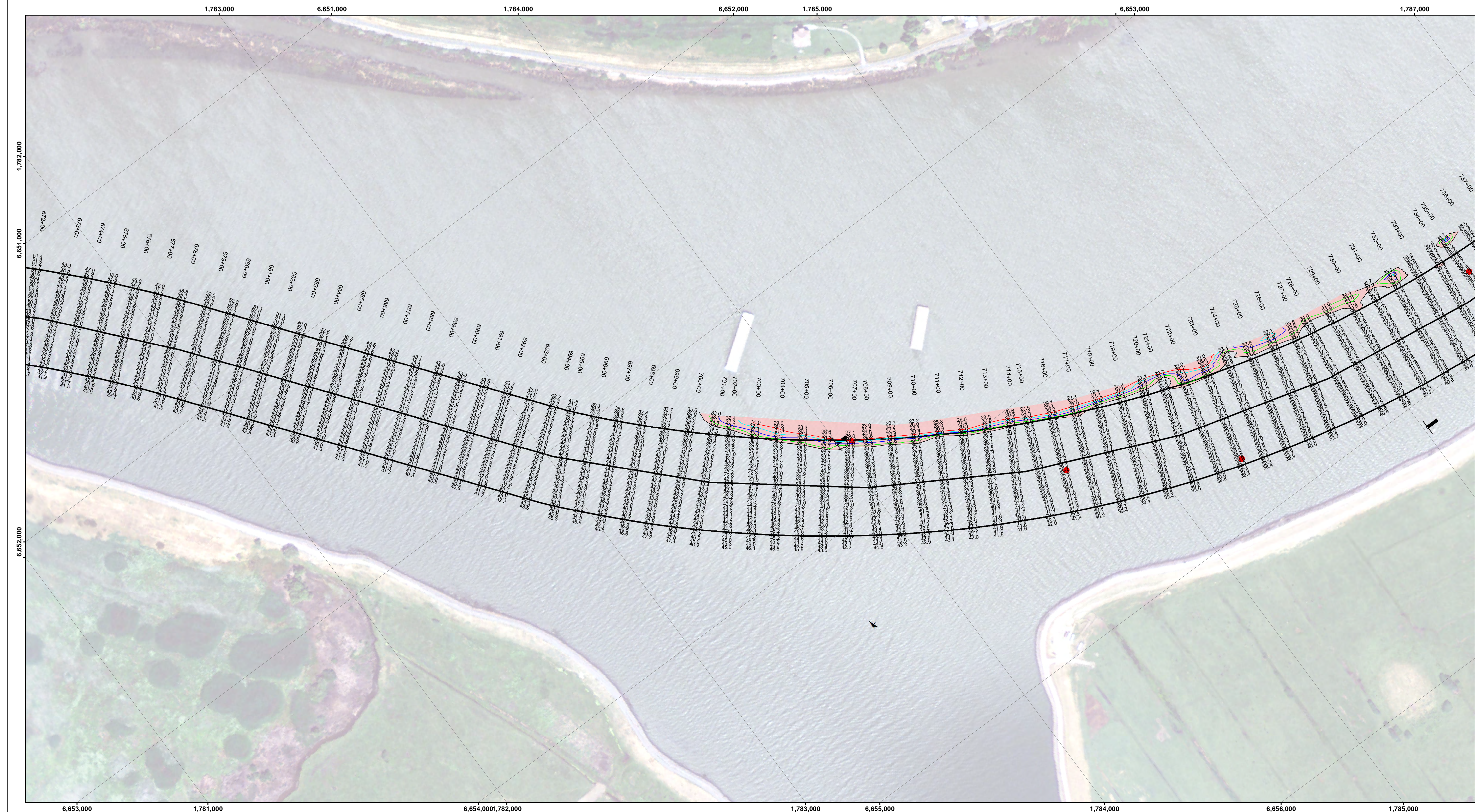


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Chart Date:	Apr 21, 2021
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Designed By:	PDT
Checked By:	PDT
Drawn By:	PDT

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
12 of 39



Feet
0 400 800 1,200

--- Federal Navigation Channel	Cable Area	Shoaling Area	Contours -35
— Federal Navigation Center Line	Placement Area	Shoalest Sounding within Channel Quarter**	Contours -34
..... Cable Submarine	Anchorage Area	Beacon, General	Contours -33
- - - Cable Overhead	Obstruction Point	Red Navigation Buoy	Contours -32
— Contour Line	Wrecks-Submerged	Green Navigation Buoy	Contours -31

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PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
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CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
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PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESP

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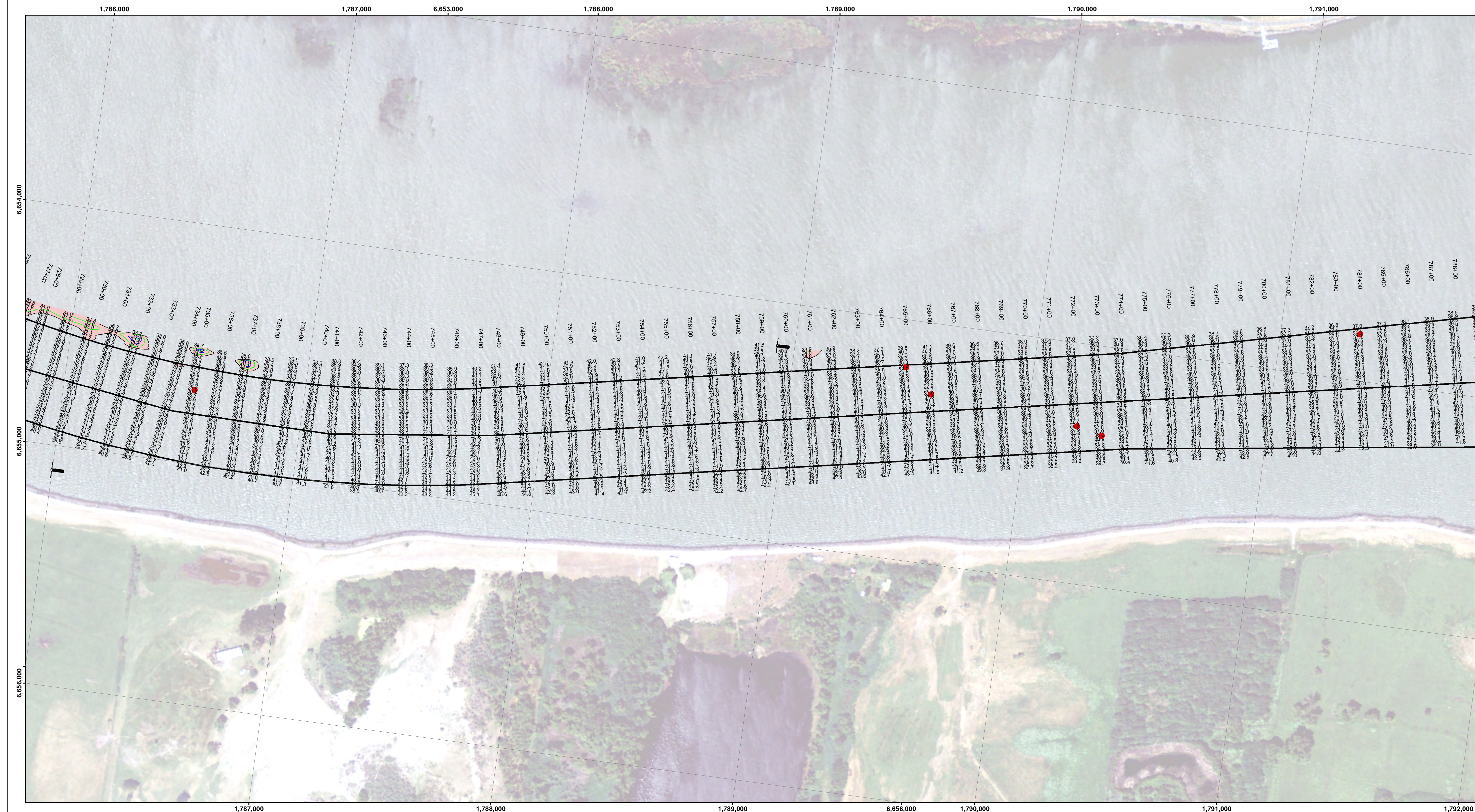
Prepared Under the Direction of JOHN D. CUNNINGHAM LT. COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Apr 21, 2021	Designed by: PDT	Drawn by: PDT
Survised By: Hydro Survey Team Leader	Plotted By: PDT	Checked By: PDT	Drawn by: PDT
Approved: Chief, Hydro Survey Section			
Approved: Chief, Construction Branch			

CALIFORNIA

STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

SAN JOAQUIN COUNTY

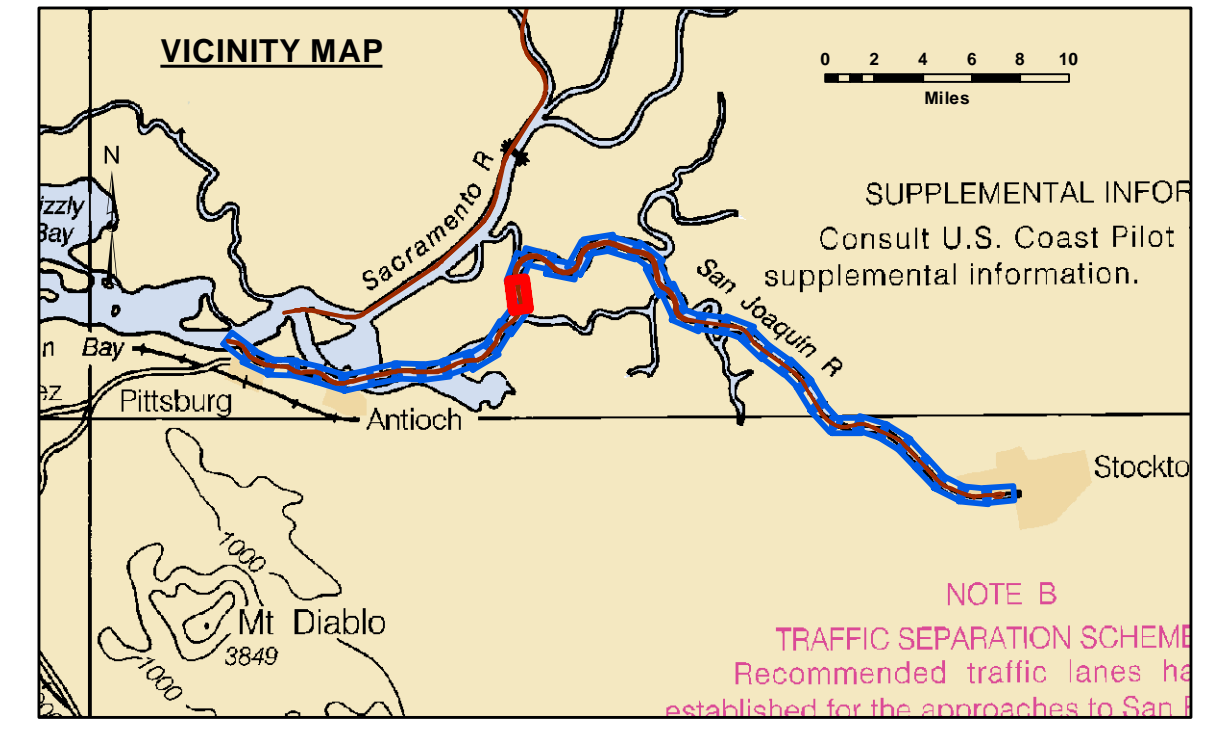
Sheet Reference Number
13 of 39



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Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Designed By:	PDT
Checked By:	PDT
Drawn By:	PDT



Feet
0 400 800 1,200

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— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -35
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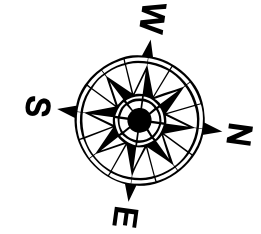
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PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

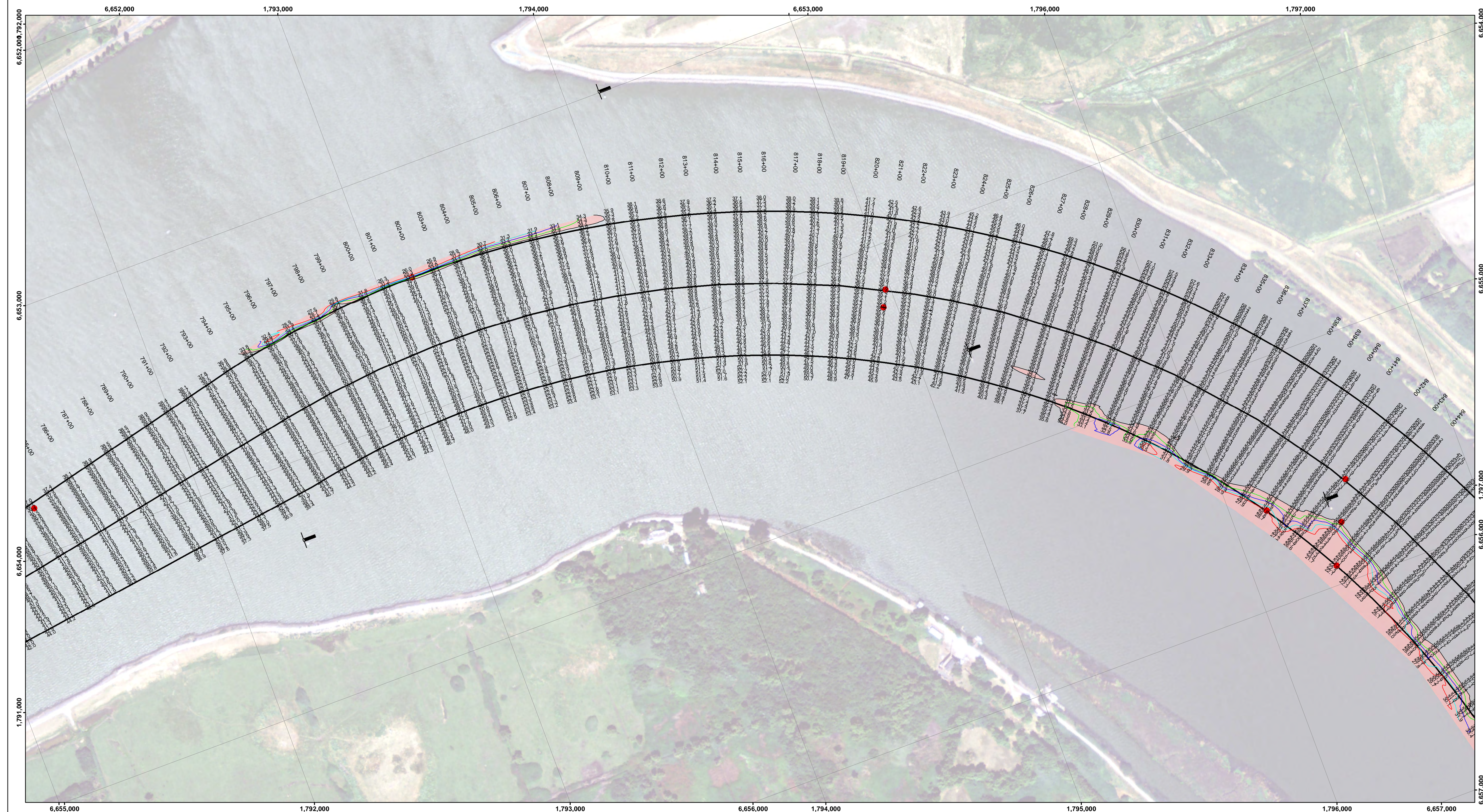
OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
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CALIFORNIA
SAN JOAQUIN COUNTY

**STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021**

Sheet Reference Number
14 of 39

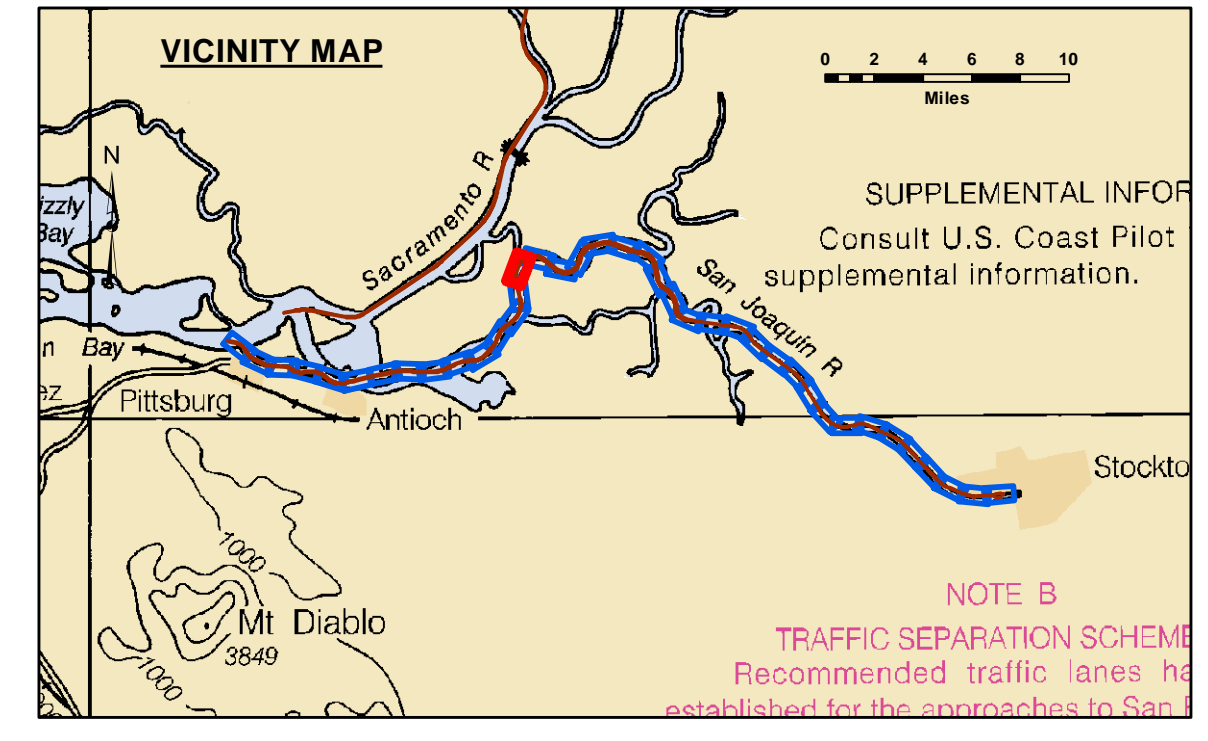


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Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Apr 21, 2021
Surveyed By: PDT	Designed by: PDT
Plotted By: PDT	Drawn by: PDT
Checked By: PDT	

CALIFORNIA
STOCKTON RIVER
 CONDITION SURVEY
 12-16 APRIL 2021

Sheet Reference Number
15 of 39



0 400 800 1,200 Feet

LEGEND

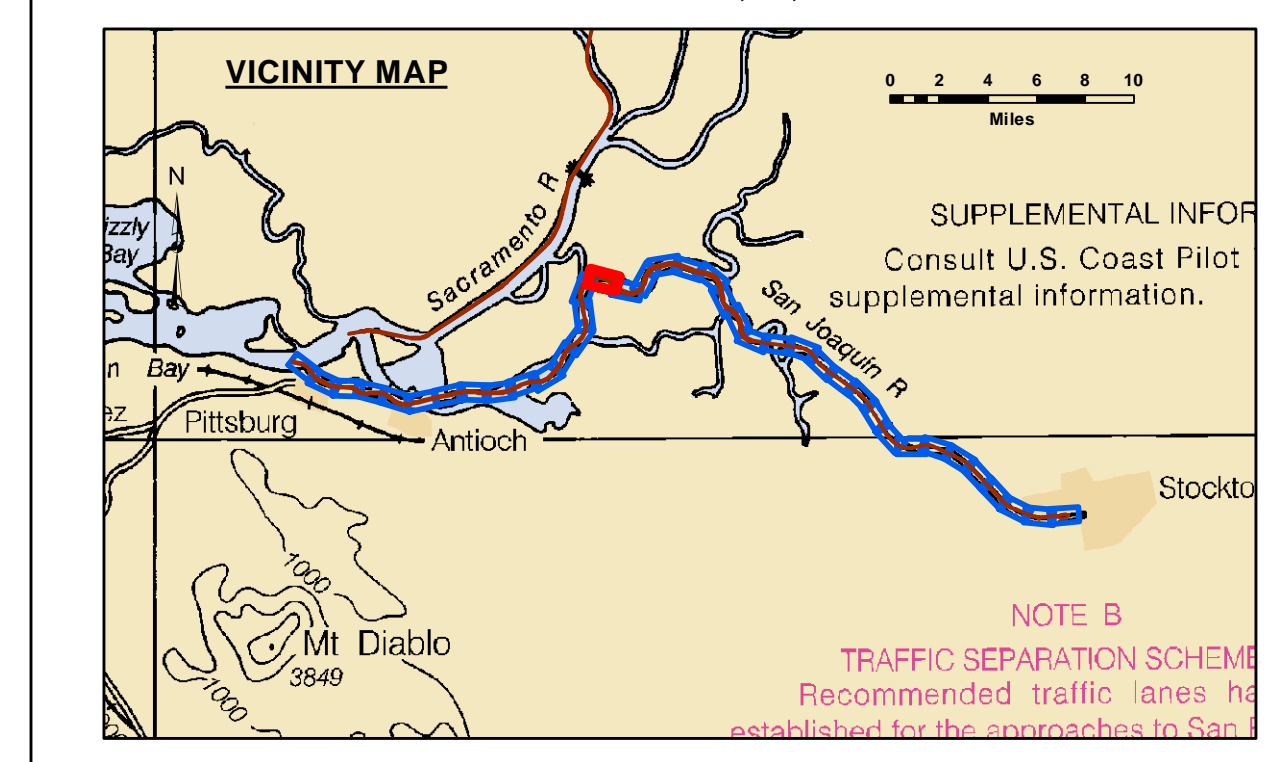
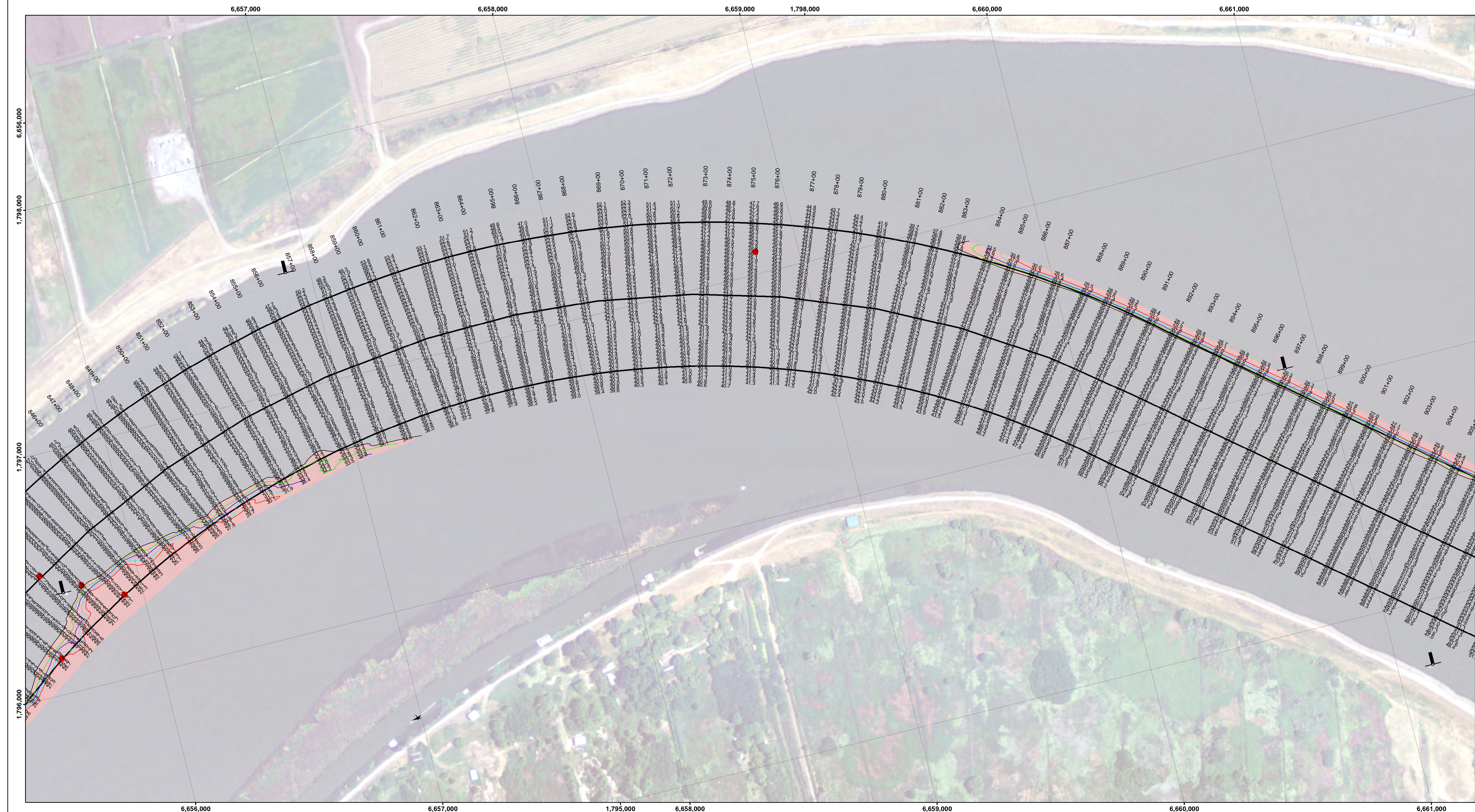
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— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -35
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LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 NAIL @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
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CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 NAIL @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
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LEGEND	
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— Contour Line	✦ Wrecks-Submerged
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⊥ Beacon, General	◆ Red Navigation Buoy
◆ Green Navigation Buoy	

Contours	
—	-35
—	-34
—	-33
—	-32
—	-31

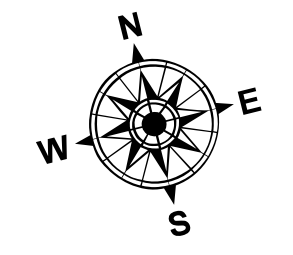


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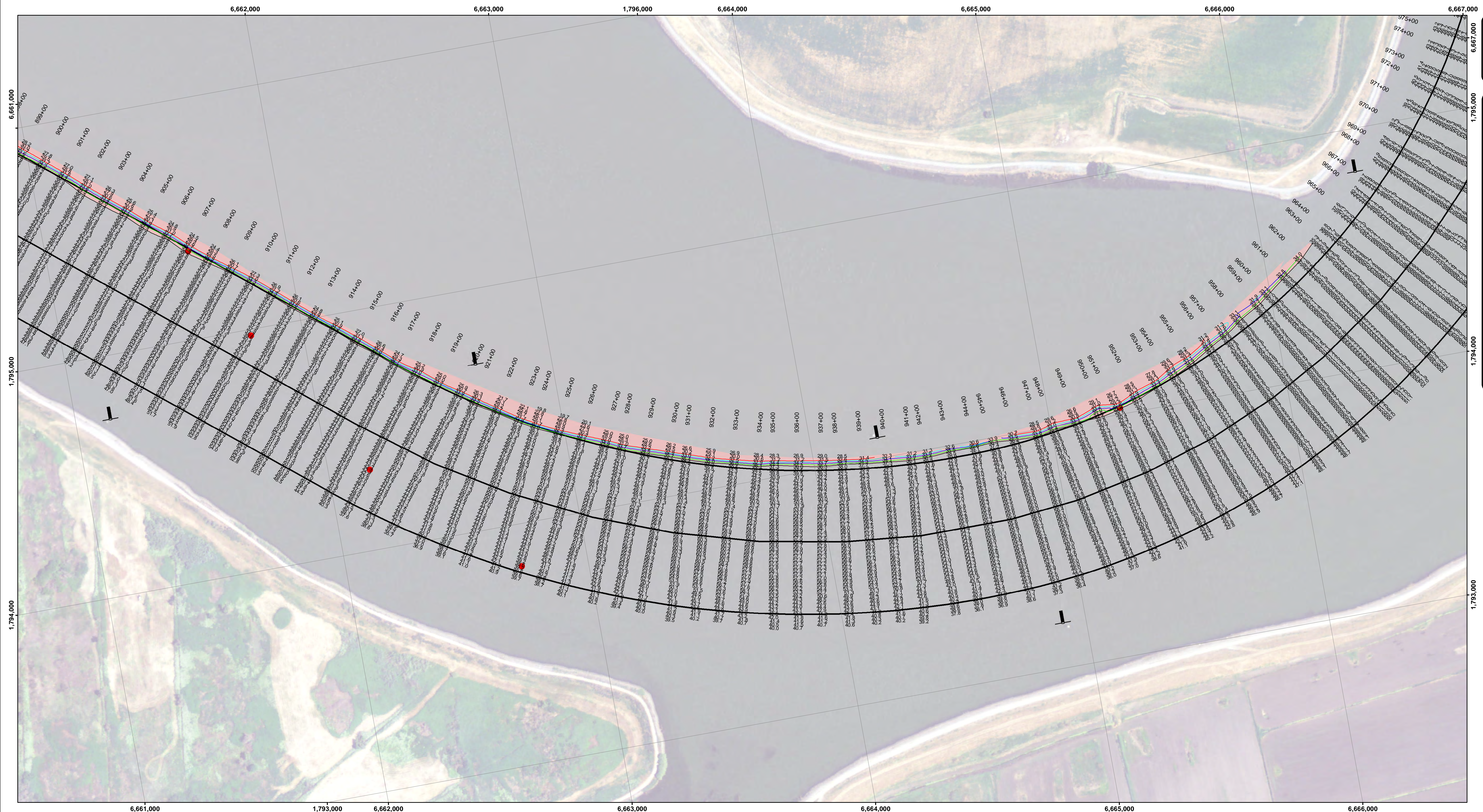
Chart Date:	Apr 21, 2021
Surveyed By:	Plotted By: PDT
Designed By:	Checked By: PDT
Drawn By:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E. DISTRICT ENGINEER

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

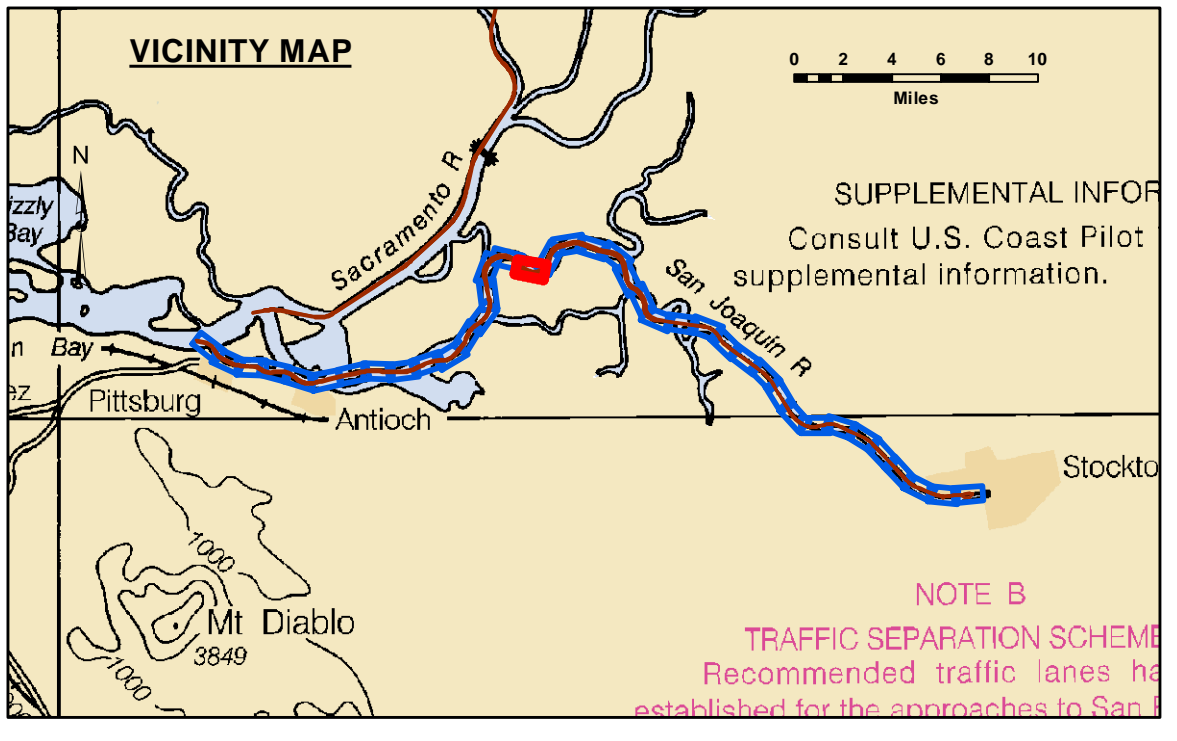
CALIFORNIA
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
16 of 39



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Chart Date:	Apr 21, 2021
Prepared By:	JOHN D. CUNNINGHAM LT COLONEL, C.E. DISTRICT ENGINEER
Surveyed By:	Hydro Survey Team Leader
Plotted By:	PDT
Designed by:	PDT
Checked By:	PDT
Drawn by:	PDT



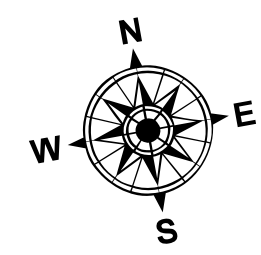
LEGEND	
--- Federal Navigation Channel	▨ Cable Area
— Federal Navigation Center Line	□ Placement Area
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- - - Cable Overhead	⊗ Obstruction Point
— Contour Line	✦ Wrecks-Submerged
▭ Shoaling Area	● Shoalest Sounding within Channel Quarter**
⊥ Beacon, General	◆ Red Navigation Buoy
◆ Green Navigation Buoy	— Contours
	— -35
	— -34
	— -33
	— -32
	— -31

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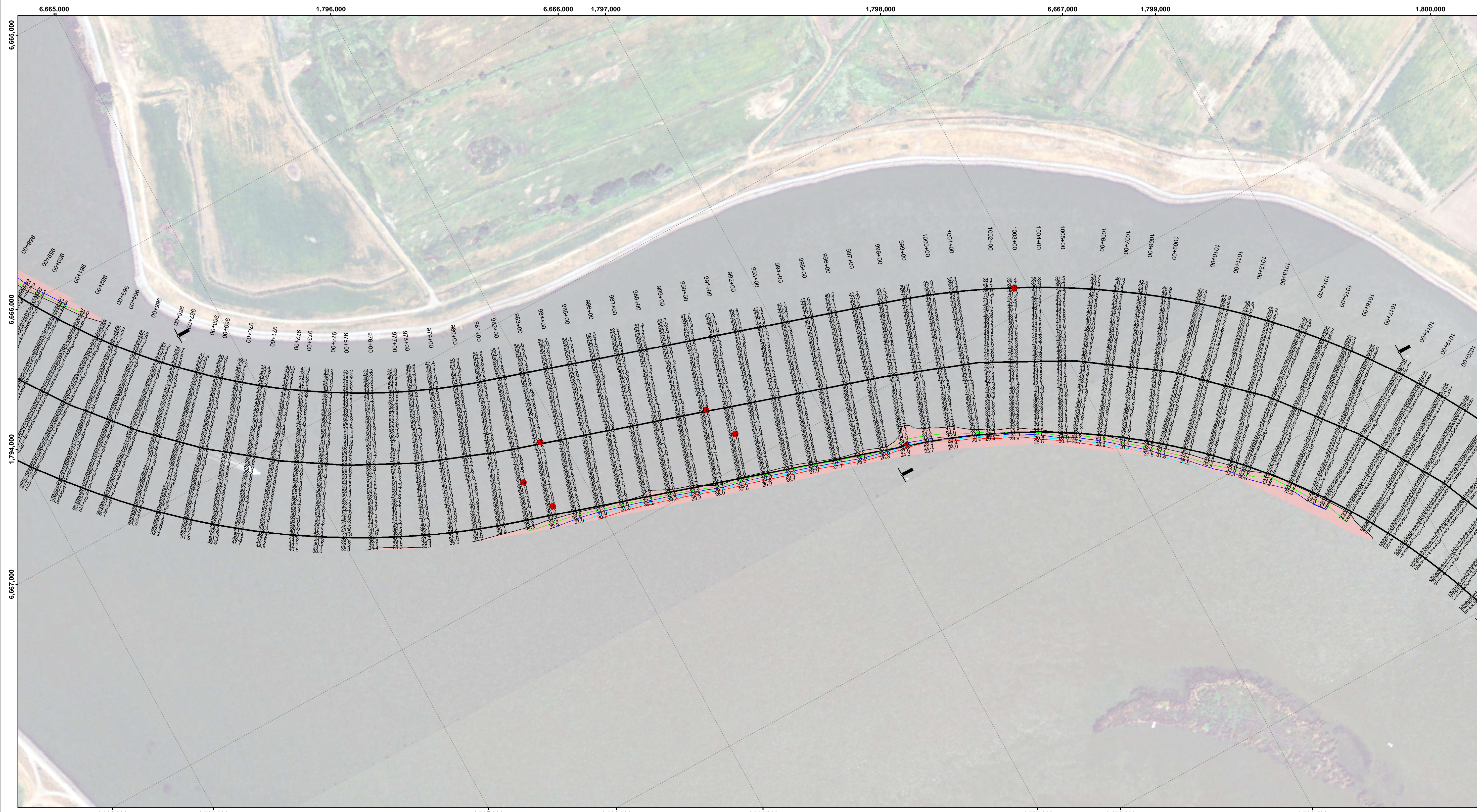


CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
17 of 39

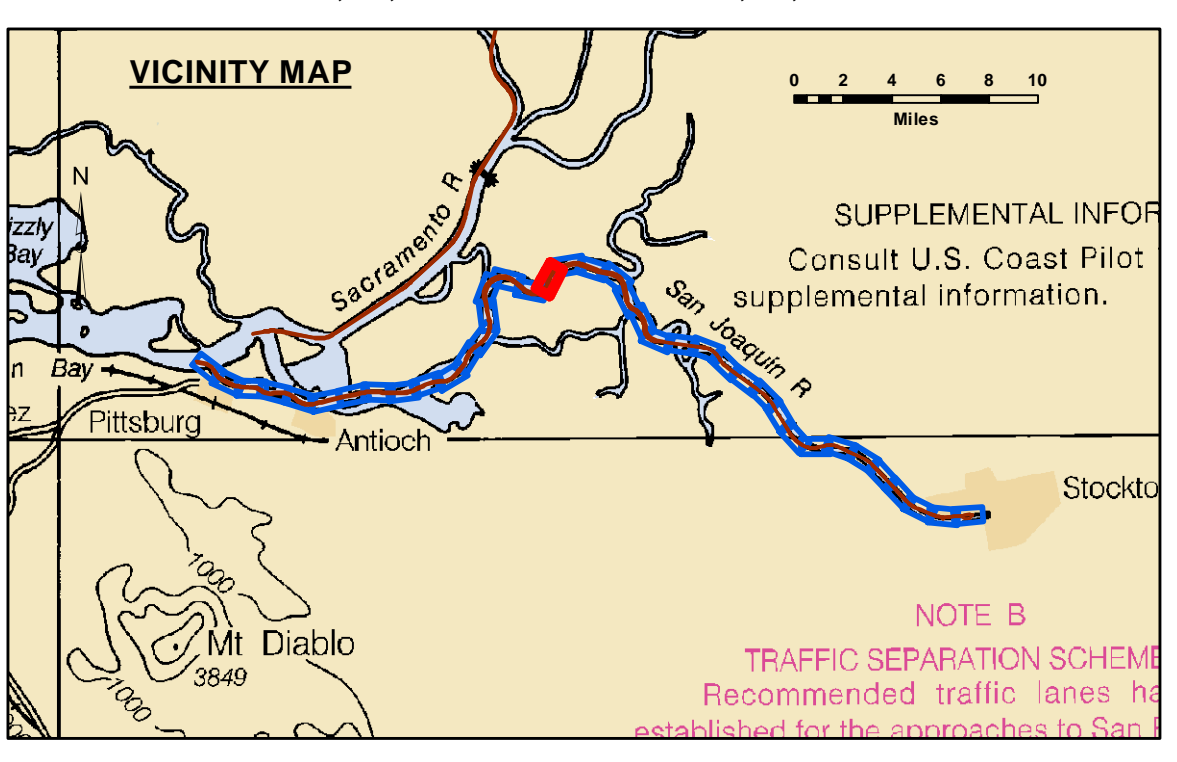


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Chart Date:	Apr 21, 2021
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Designed by:	PDT
Checked By:	PDT
Drawn by:	PDT



0 400 800 1,200 Feet

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CONTROLS:
LOCATION: ANTIOCH
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BENCHMARK: 5084-F (No PID)
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Nail @ 10.15 FT MLLW
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LONG: 121 48 56.7074 W

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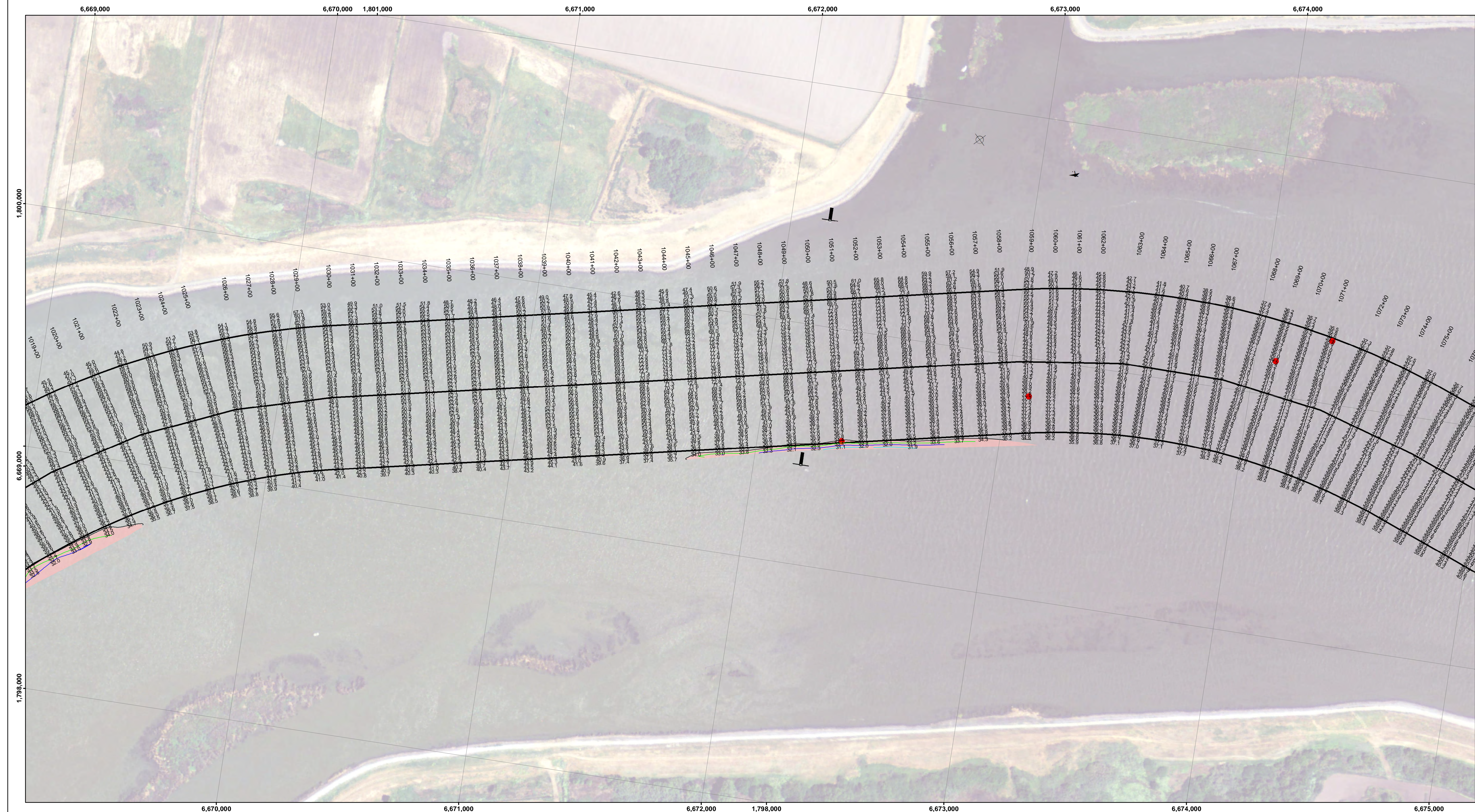
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CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

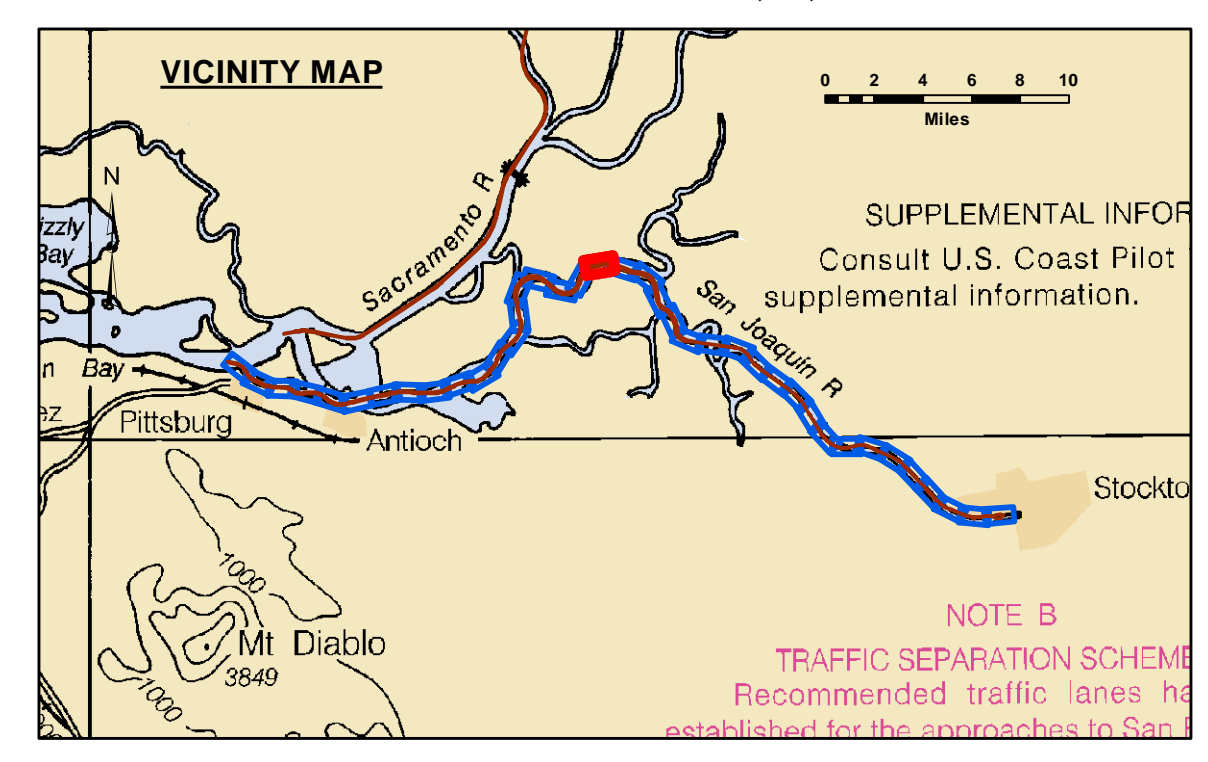
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Chart Date:	Apr 21, 2021
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Plotted By:	PDT
Designed By:	PDT
Checked By:	PDT
Drawn By:	PDT

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021



LEGEND

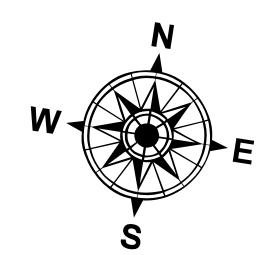
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			— -31

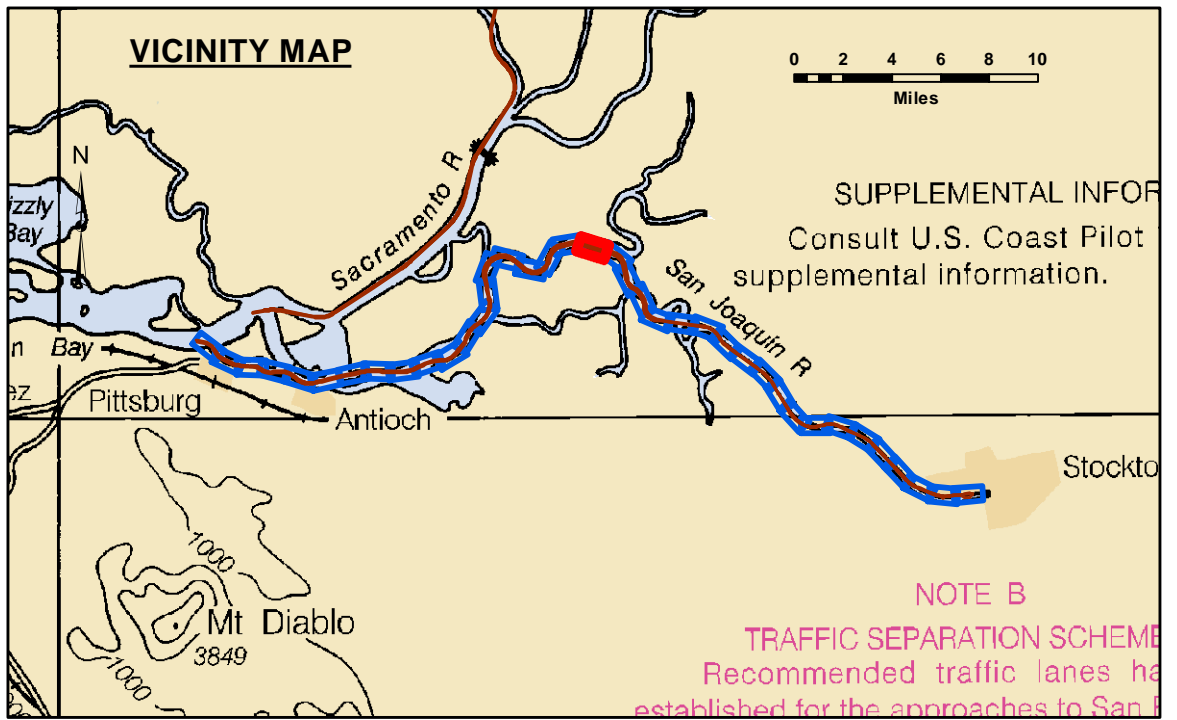
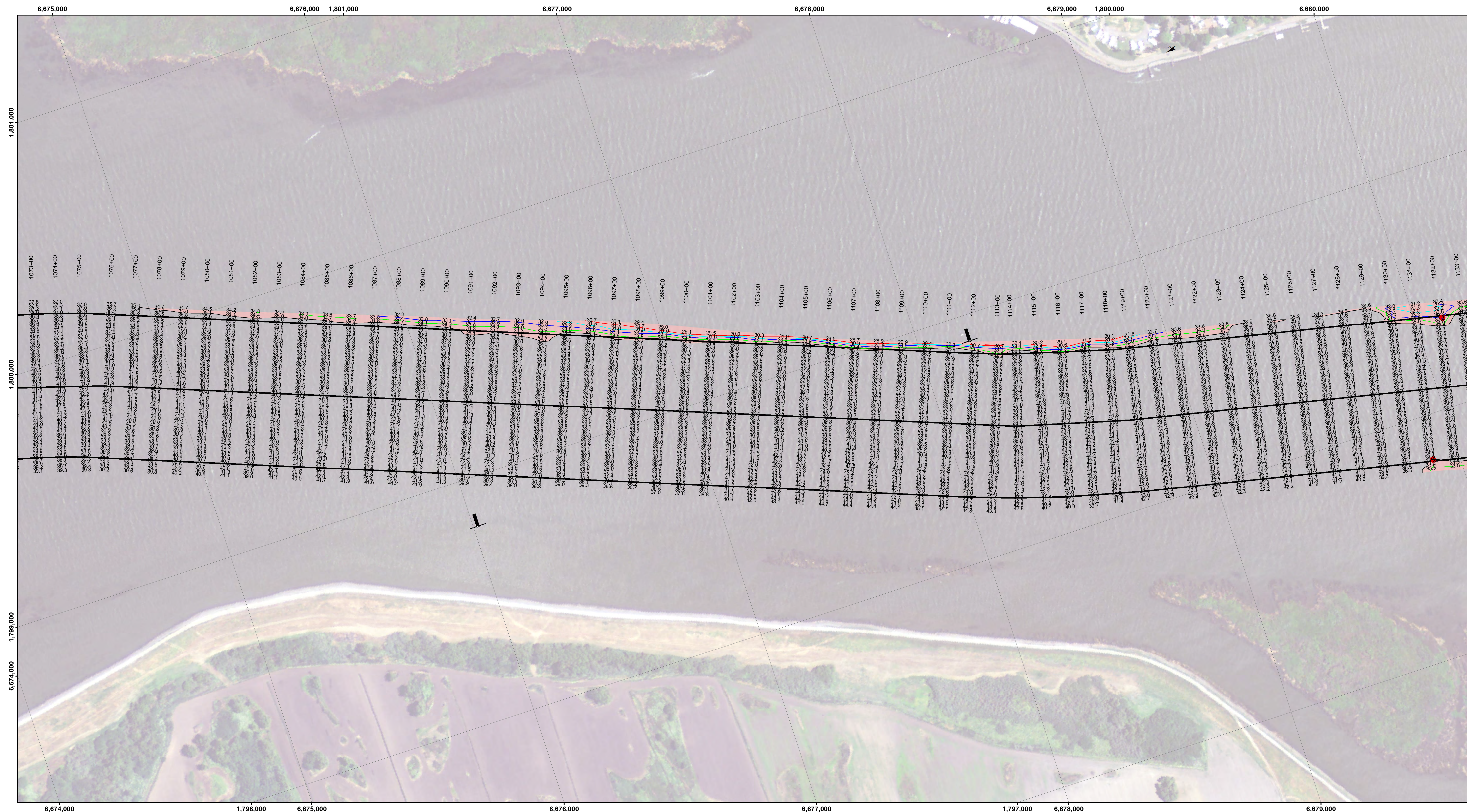
NOTES:
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 SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
 PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 NAIL @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
 DAY MARKER 27 = 9.0 FT MLLW
 DAY MARKER 29 = 9.0 FT MLLW
 PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 NAIL @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W





Feet
0 400 800 1,200

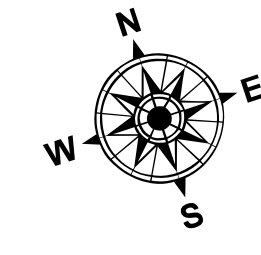
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -35
⋯ Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -33
— Contour Line	✈ Wrecks-Submerged	◆ Green Navigation Buoy	— -32
			— -31

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VERTICAL DATUM: MLLW
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CONTROLS:
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NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

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PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

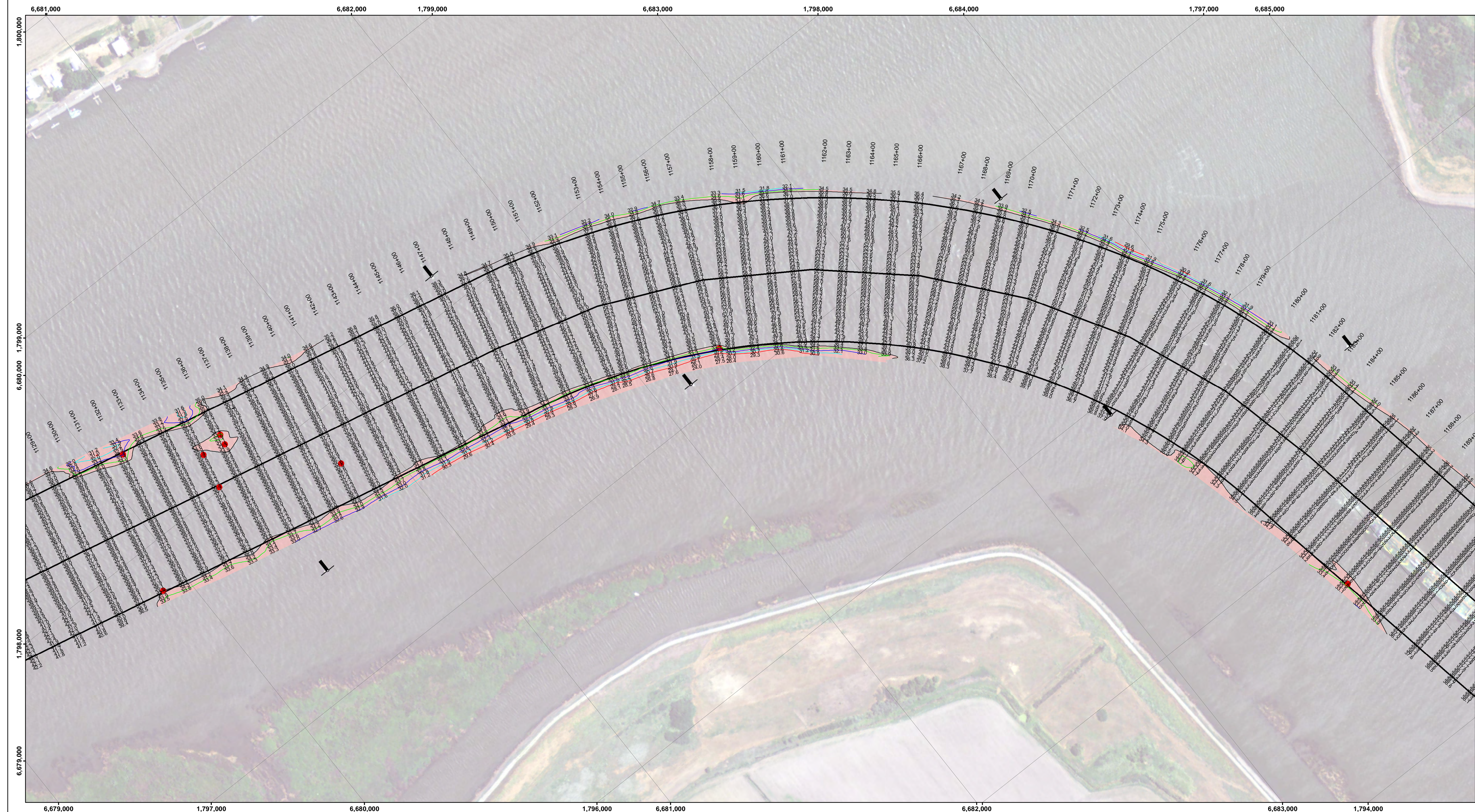


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Chart Date:	Apr 21, 2021
Surveyed By:	JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER
Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT

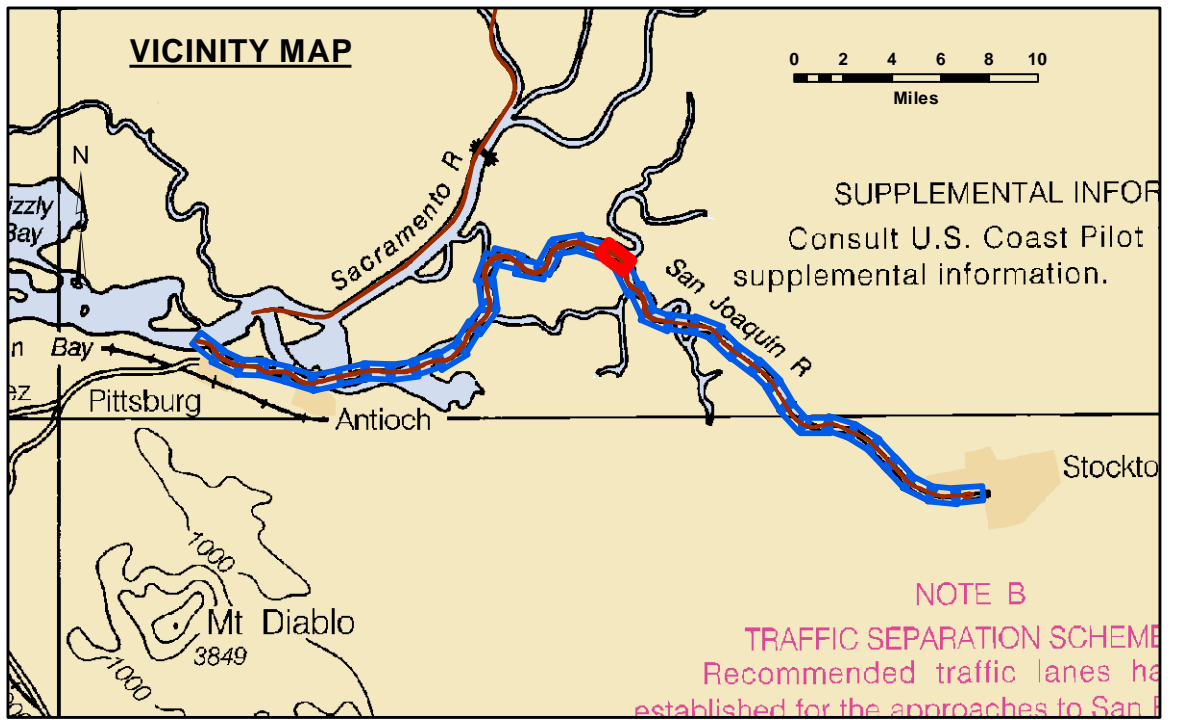
CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
20 of 39



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Prepared Under the Direction of JOHN D. CUNNINGHAM LT Colonel, C.E., District Engineer	Chart Date: Apr 21, 2021
Surveyed By: Hydro Survey Team Leader	Designed by: PDT
Plotted By: PDT	Drawn by: PDT
Recommended: Chief, Hydro Survey Section	Checked by: PDT
Approved: Chief, Construction Branch	



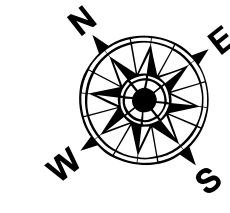
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
..... Cable Submarine	▭ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✦ Wrecks-Submerged	— -31	
	● Shoalest Sounding within Channel Quarter**		
	⊥ Beacon, General		
	◆ Red Navigation Buoy		
	◆ Green Navigation Buoy		

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 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 Nail @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W

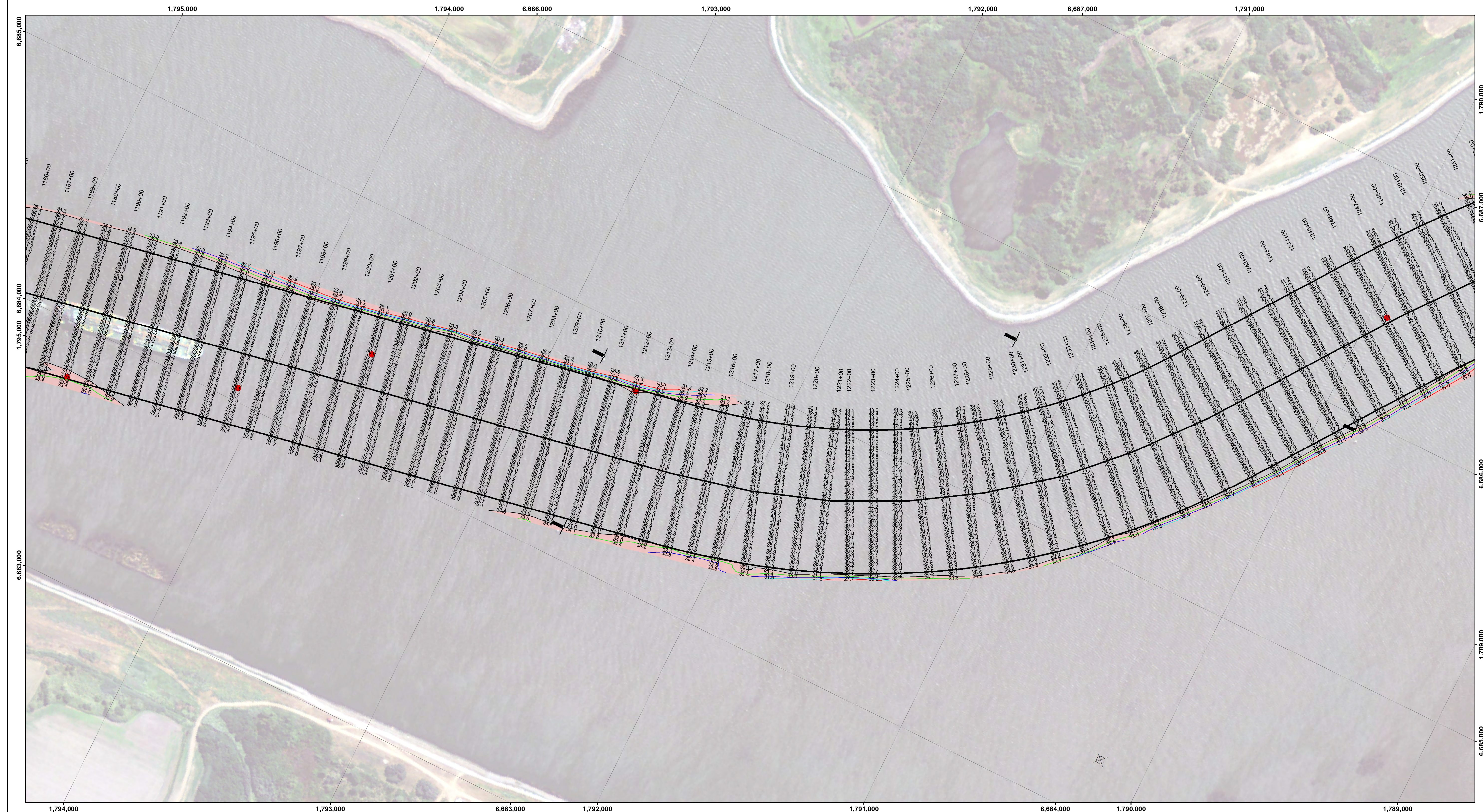
LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 Nail @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
 DAY MARKER 27 = 9.0 FT MLLW
 DAY MARKER 29 = 9.0 FT MLLW
 PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW



CALIFORNIA
STOCKTON RIVER
 CONDITION SURVEY
 12-16 APRIL 2021

SAN JOAQUIN COUNTY
Sheet Reference Number
 21 of 39



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Chart Date:	Apr 21, 2021
Surveyed By:	
Plotted By:	PDT
Designed by:	
Checked By:	PDT
Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
 LT COLONEL, C.E., DISTRICT ENGINEER

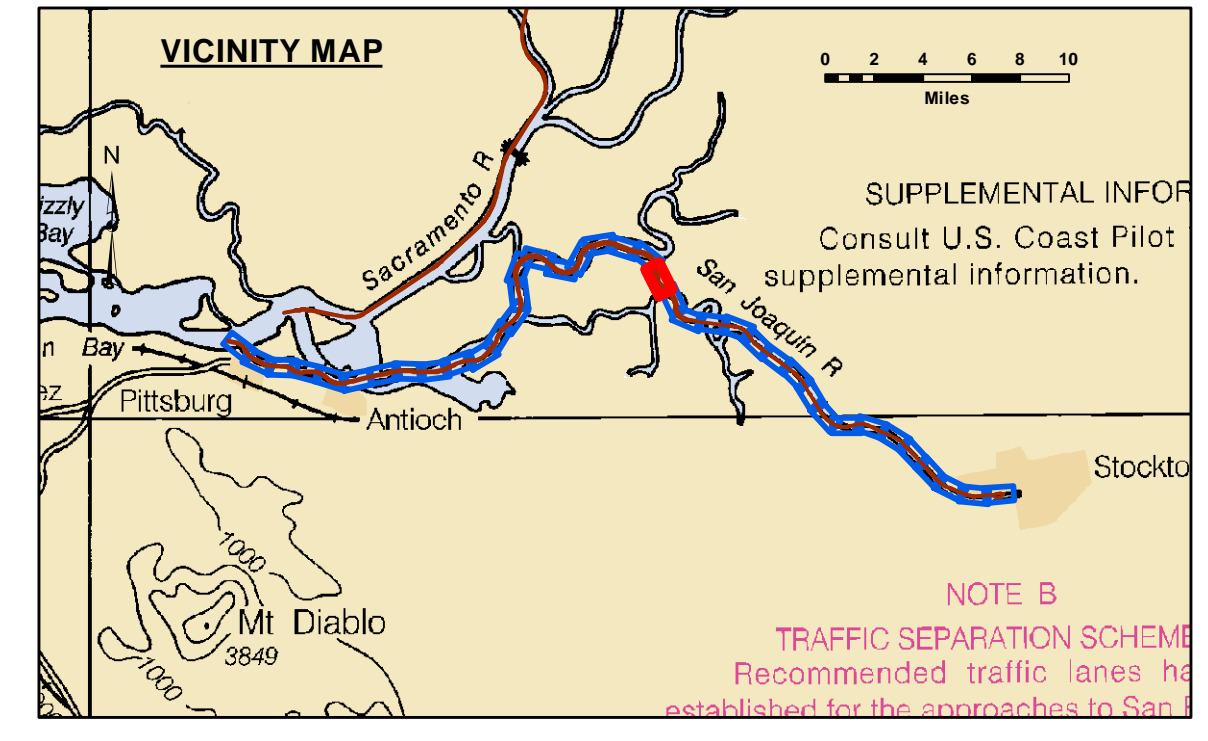
Supervised:
 Hydro Survey Team Leader

Recommended:
 Chief, Hydro Survey Section

Approved:
 Chief, Construction Branch

CALIFORNIA
STOCKTON RIVER
 CONDITION SURVEY
 12-16 APRIL 2021

SAN JOAQUIN COUNTY



0 400 800 1,200 Feet

--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -35
..... Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -33
— Contour Line	✶ Wrecks-Submerged	◆ Green Navigation Buoy	— -32
			— -31

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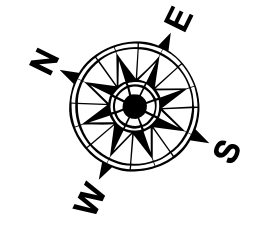
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PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

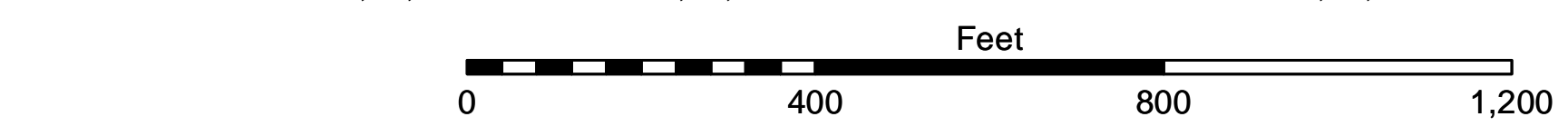
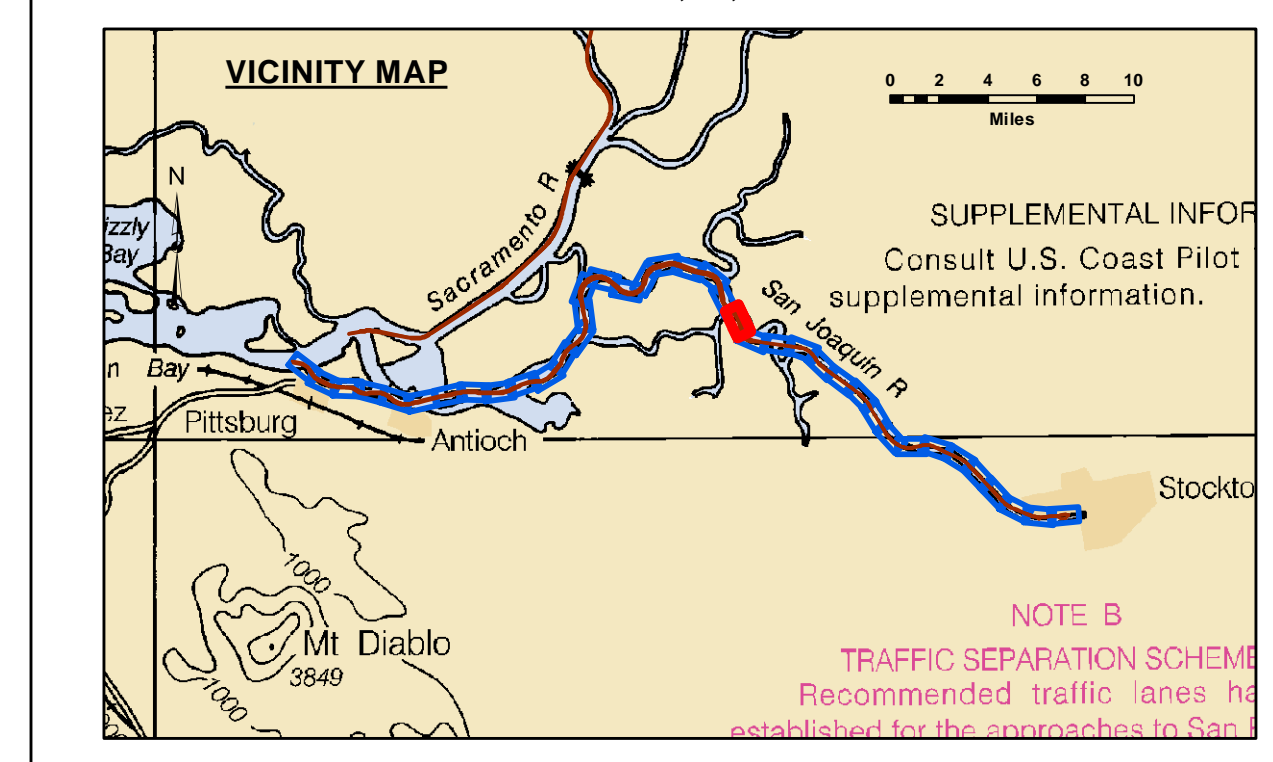
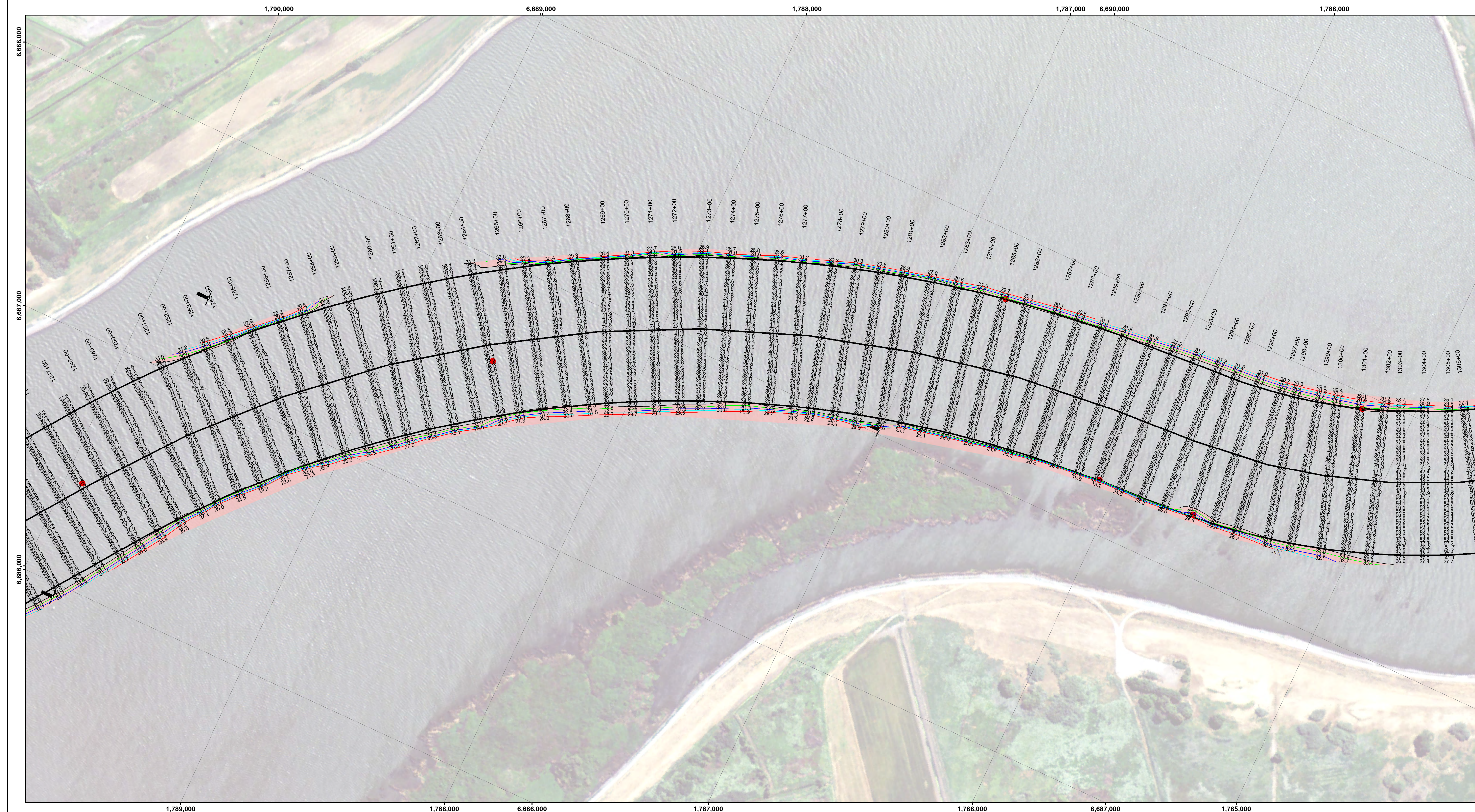
CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (NO PID)
 TIDE GAUGE:
 Nail @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 Nail @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
 DAY MARKER 27 = 9.0 FT MLLW
 DAY MARKER 29 = 9.0 FT MLLW
 PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW



Sheet Reference Number
22 of 39



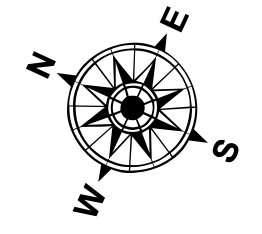
LEGEND	
--- Federal Navigation Channel	▨ Cable Area
— Federal Navigation Center Line	□ Placement Area
⋯ Cable Submarine	⊠ Anchorage Area
- - - Cable Overhead	⊗ Obstruction Point
— Contour Line	✦ Wrecks-Submerged
▭ Shoaling Area	● Shoalest Sounding within Channel Quarter**
⬇ Beacon, General	◆ Red Navigation Buoy
◆ Green Navigation Buoy	

NOTES:
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NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
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LAT: 37 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
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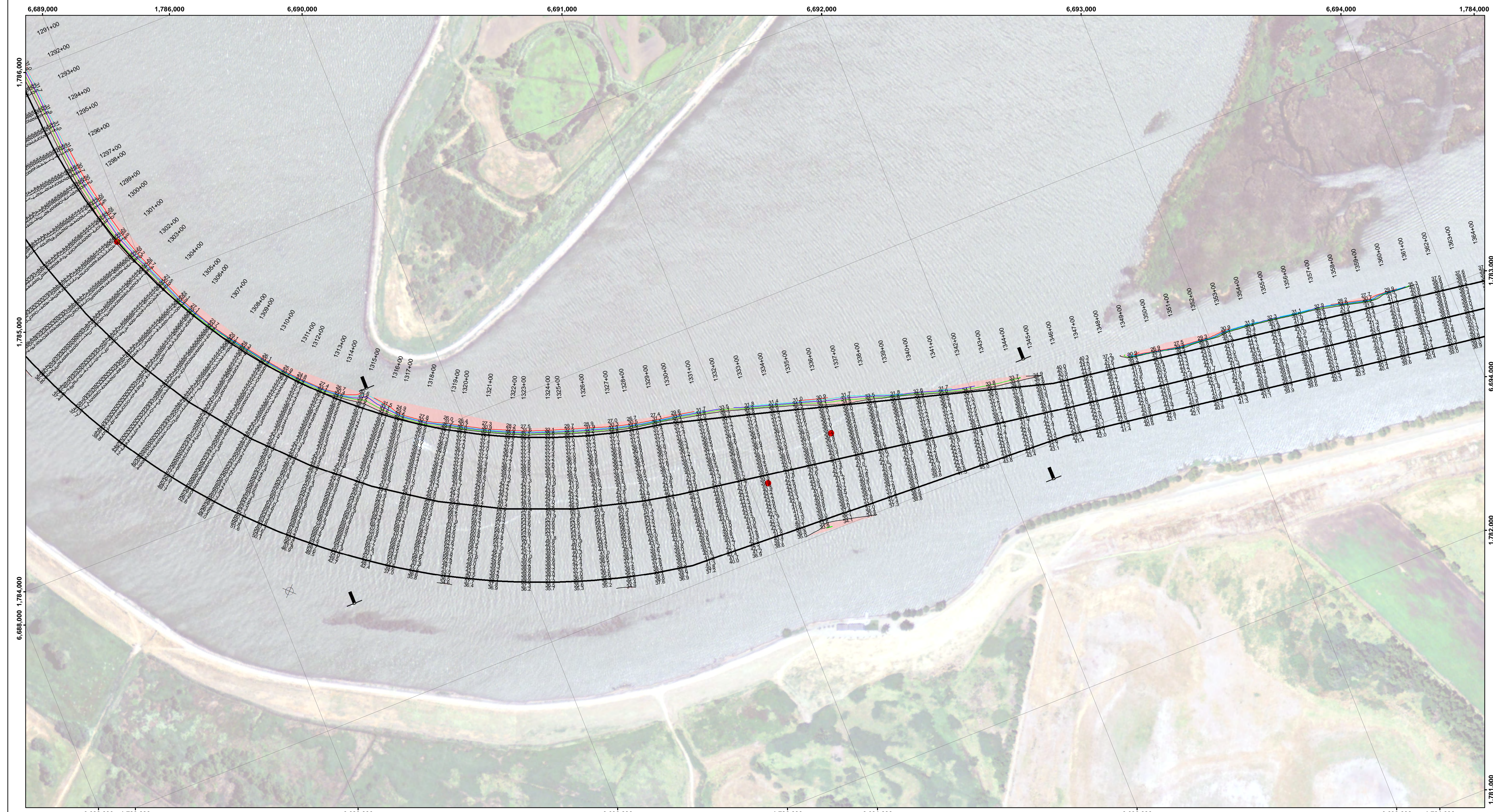
Chart Date:	Apr 21, 2021
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Plotted by:	PDT
Surveyed By:	

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E., DISTRICT ENGINEER

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

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

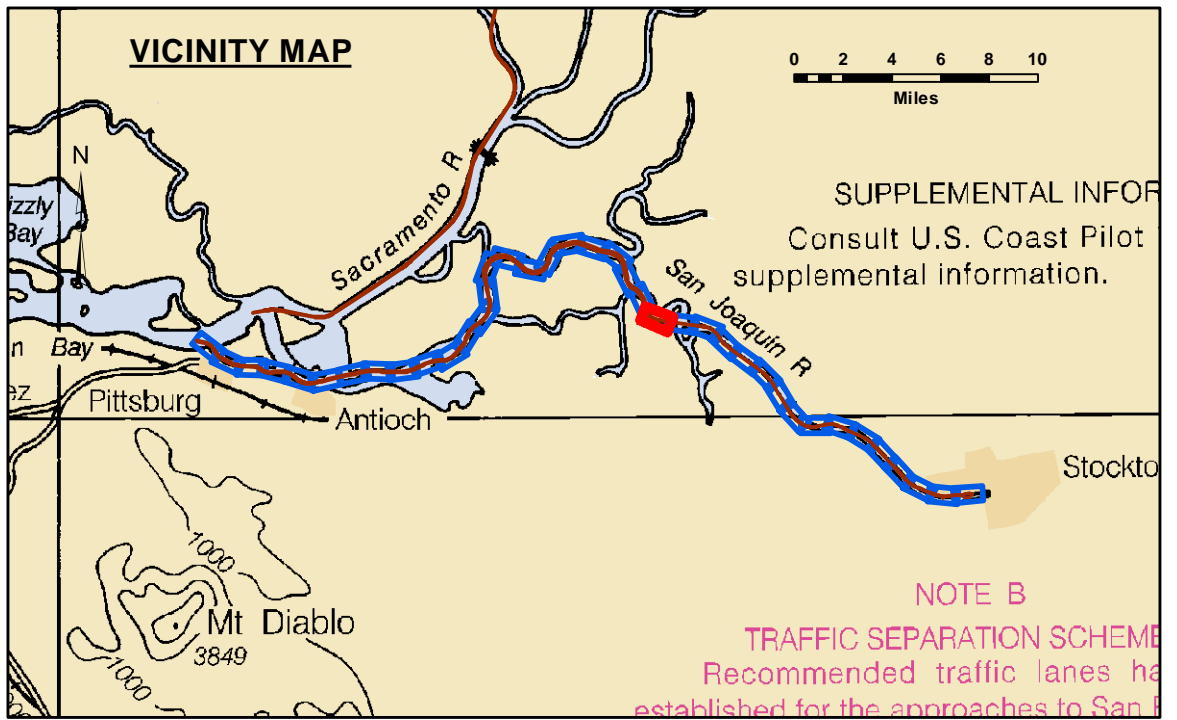
Sheet Reference Number
23 of 39



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Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Apr 21, 2021
Supervised By: Hydro Survey Team Leader	Designed by: PDT
Recommended by: Chief, Hydro Survey Section	Drawn by: PDT
Approved by: Chief, Construction Branch	



LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— Shoaling Area	— -35
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -34
⋯ Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General	— -33
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -32
— Contour Line	✦ Wrecks-Submerged	◆ Green Navigation Buoy	— -31



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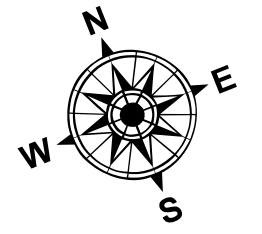
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PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

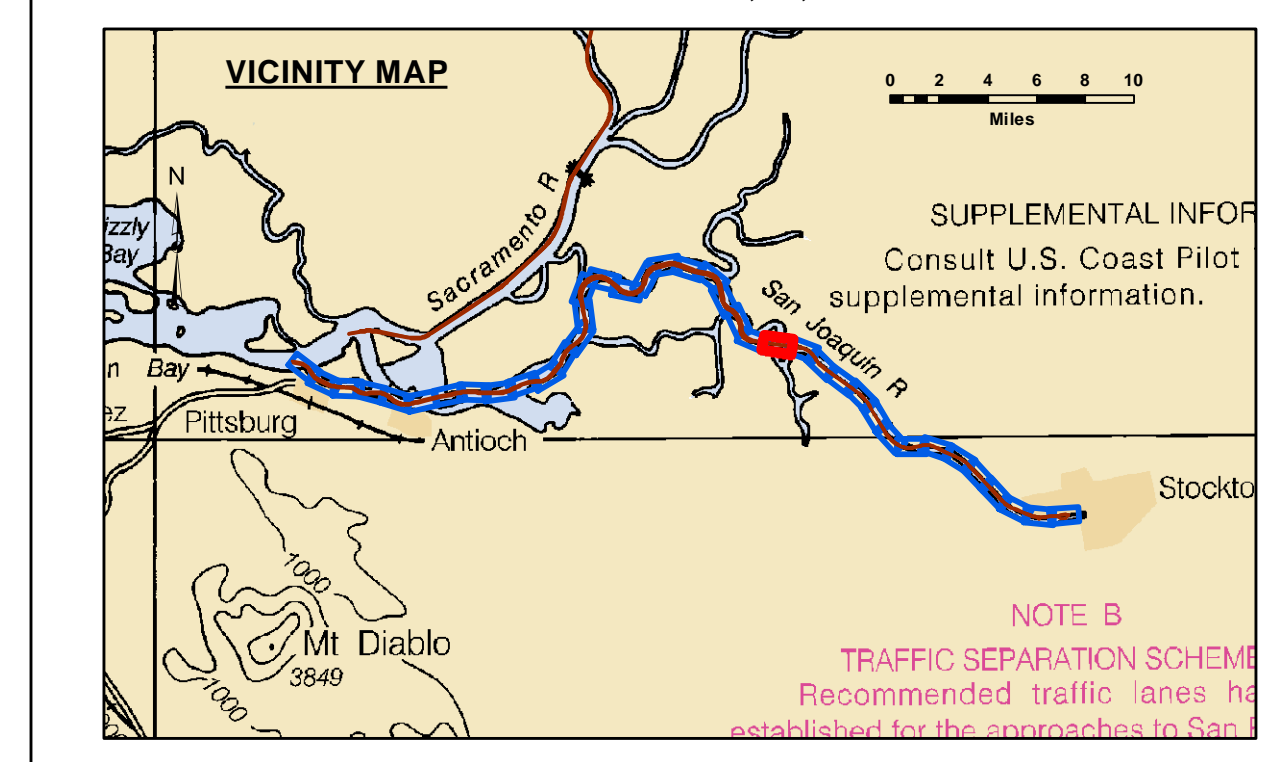
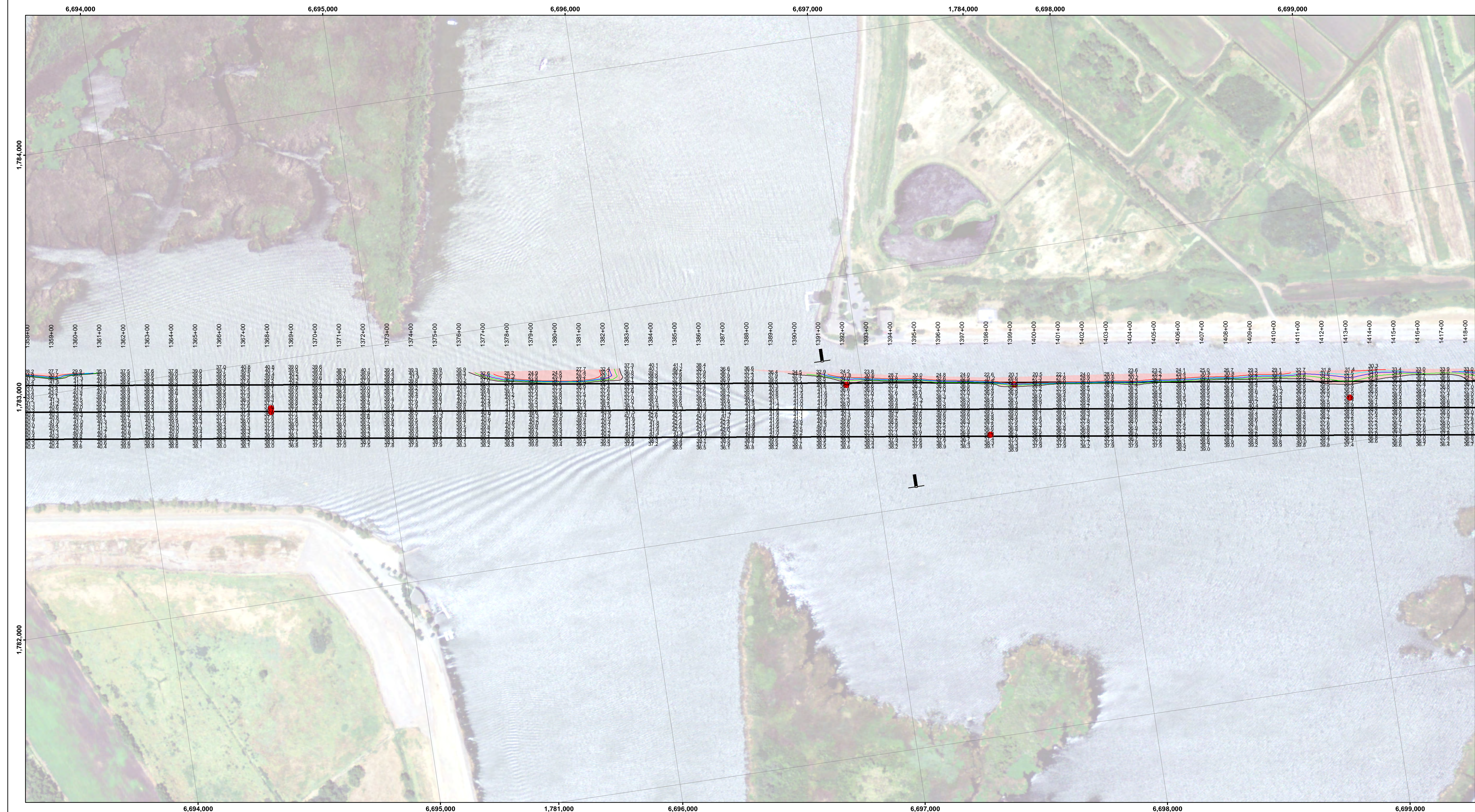
LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
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PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW



CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
24 of 39



Feet
0 400 800 1,200

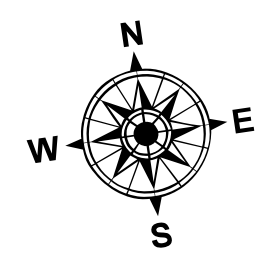
--- Federal Navigation Channel	▨ Cable Area	▭ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -35
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— Contour Line	✦ Wrecks-Submerged	◆ Green Navigation Buoy	— -32
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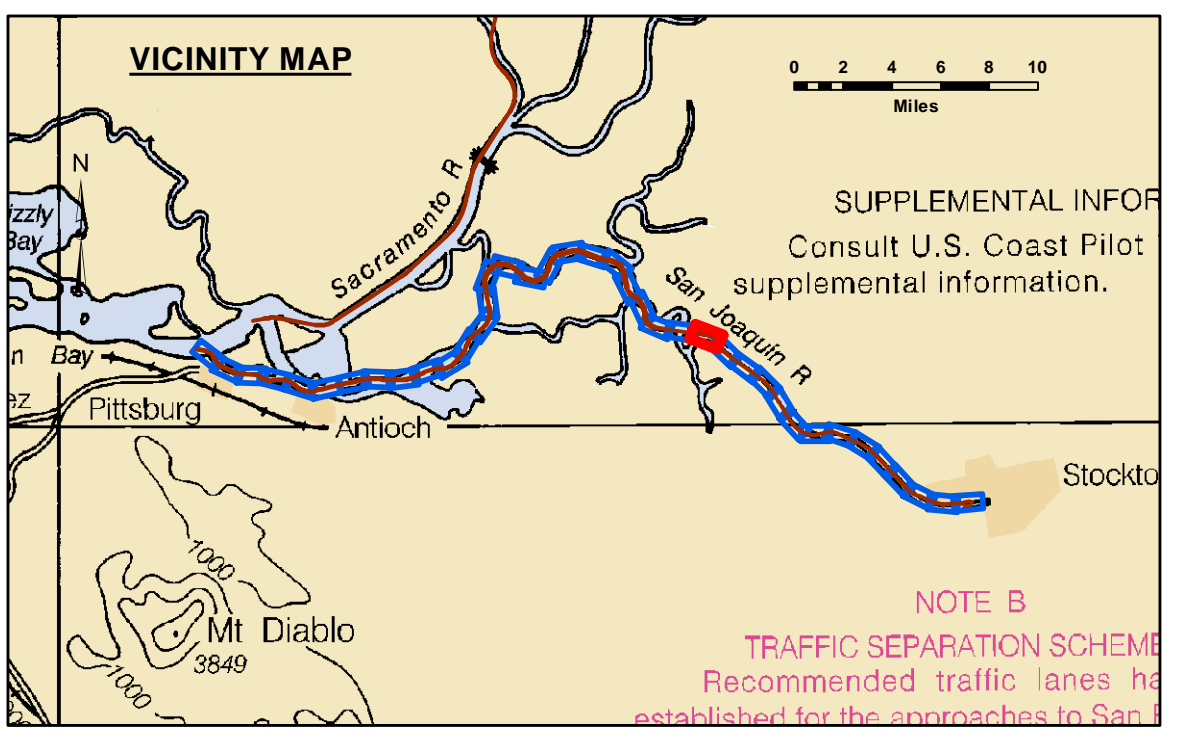
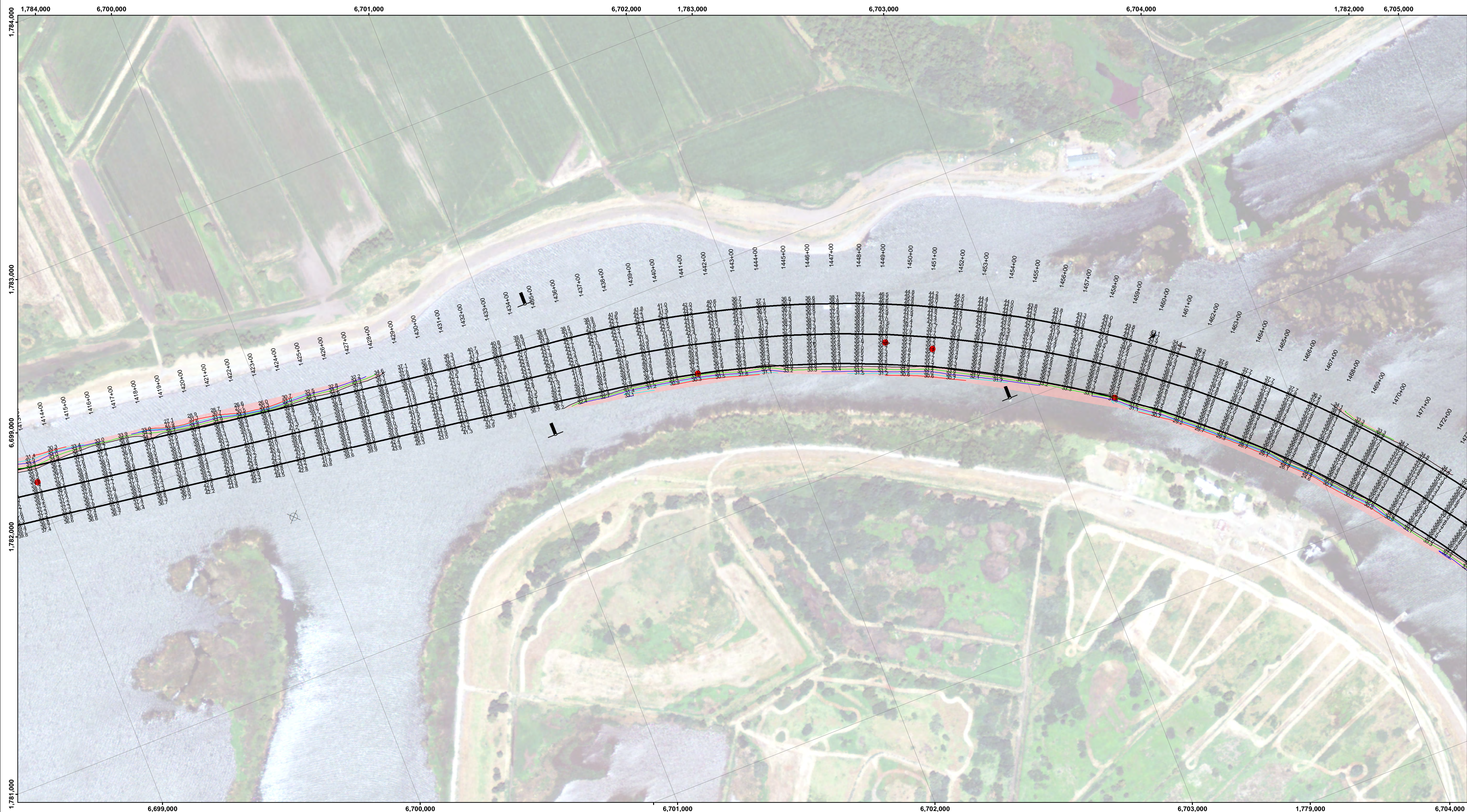


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Chart Date:	Apr 21, 2021
Prepared Under the Direction of:	JOHN D. CUNNINGHAM
Surveiled By:	LT. COLONEL C.E. DISTRICT ENGINEER
Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
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0 400 800 1,200 Feet

LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	— -34
— Federal Navigation Center Line	□ Placement Area	— -33	— -32
⋯ Cable Submarine	⊠ Anchorage Area	— -31	
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— Contour Line	✦ Wrecks-Submerged		
	■ Shoaling Area		
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	◆ Green Navigation Buoy		

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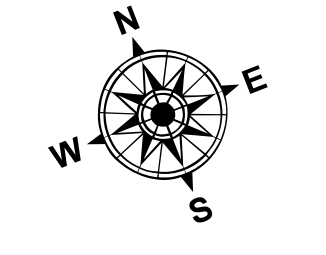
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PROJECT DEPTH: -35'
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CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
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LONG: 121 48 56.7074 W

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BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
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LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW



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Chart Date:	Apr 21, 2021
Surveyed By:	
Plotted By:	PDT
Designed by:	
Checked By:	PDT
Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E., DISTRICT ENGINEER

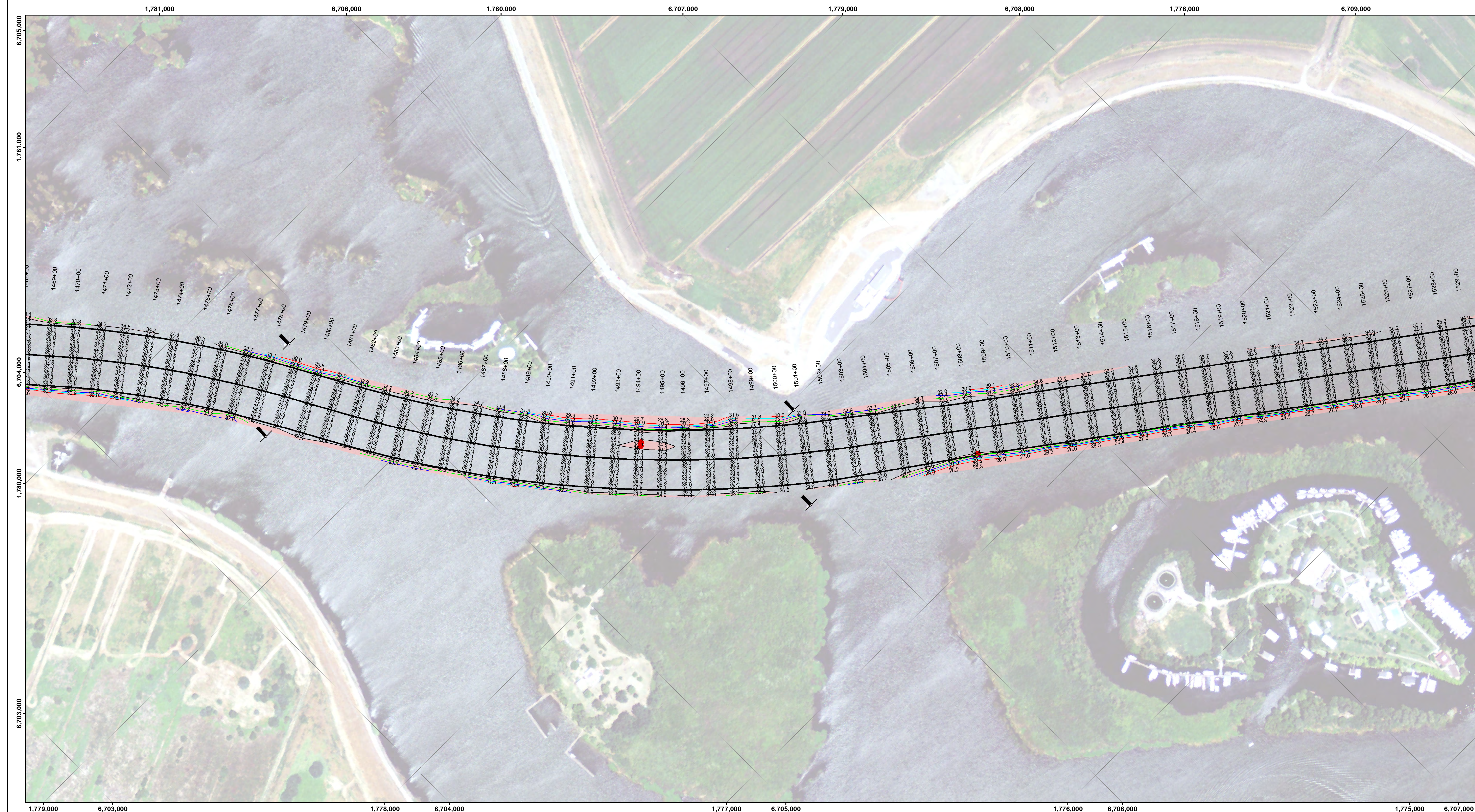
Supervised: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
26 of 39

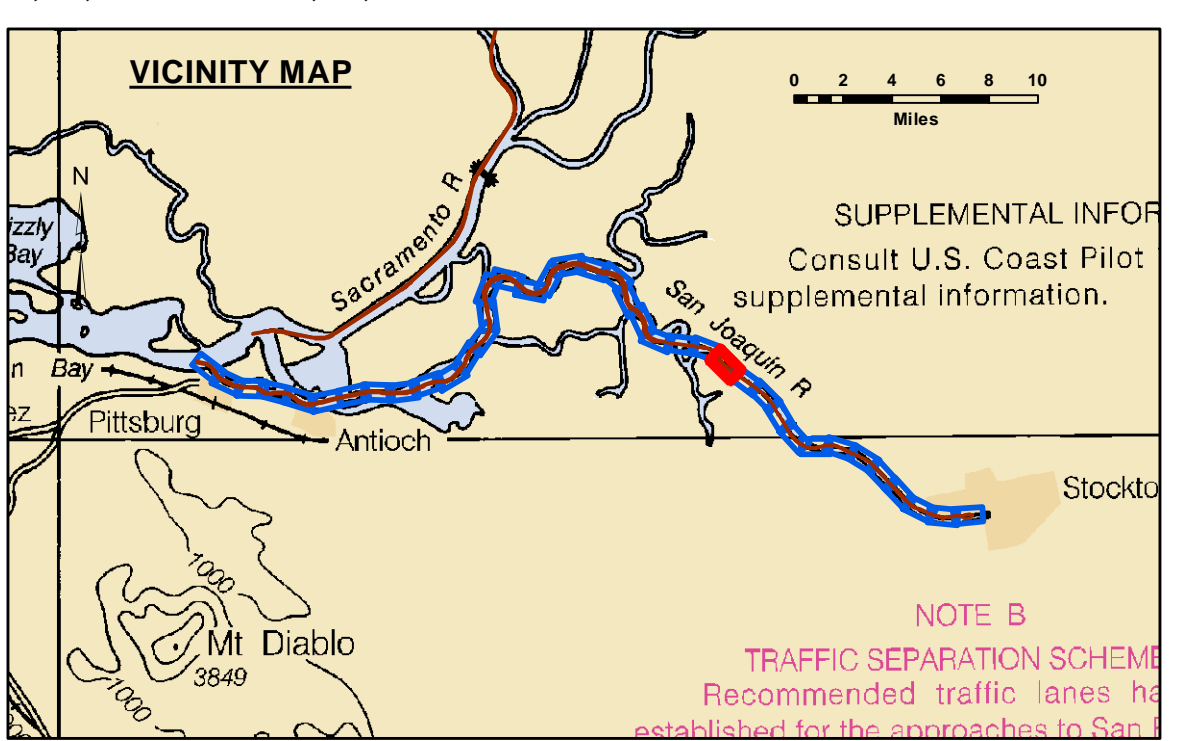


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Chart Date:	Apr 21, 2021
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT
Approved:	Chief, Construction Branch

CALIFORNIA
STOCKTON RIVER
 CONDITION SURVEY
 12-16 APRIL 2021

Sheet Reference Number
27 of 39



0 400 800 1,200 Feet

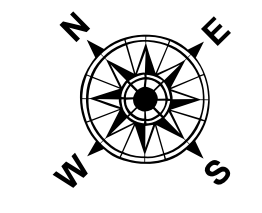
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -35
..... Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -33
— Contour Line	✈ Wrecks-Submerged	◆ Green Navigation Buoy	— -32
			— -31

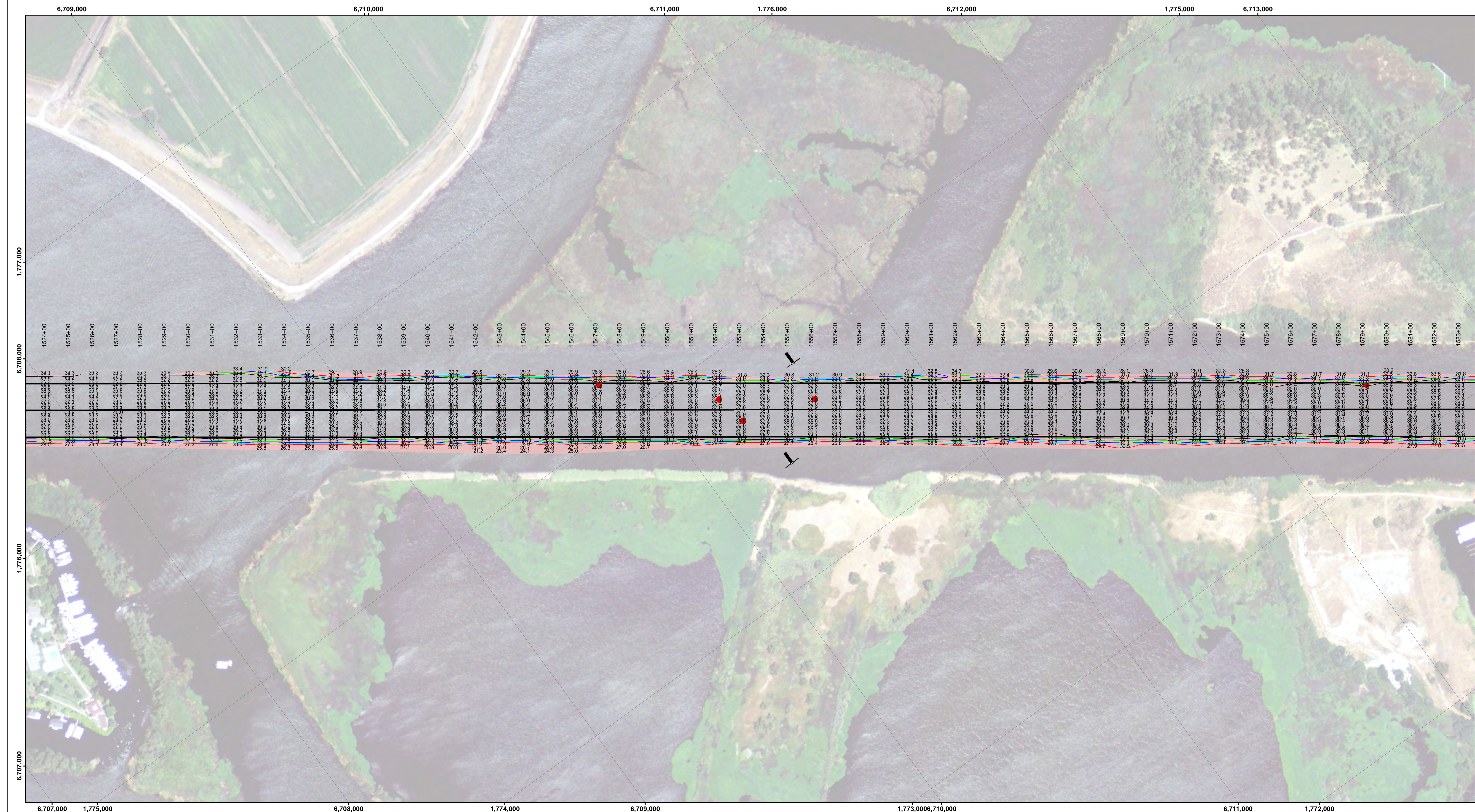
NOTES:
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 SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
 PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 NAIL @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
 DAY MARKER 27 = 9.0 FT MLLW
 DAY MARKER 29 = 9.0 FT MLLW
 PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 NAIL @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W





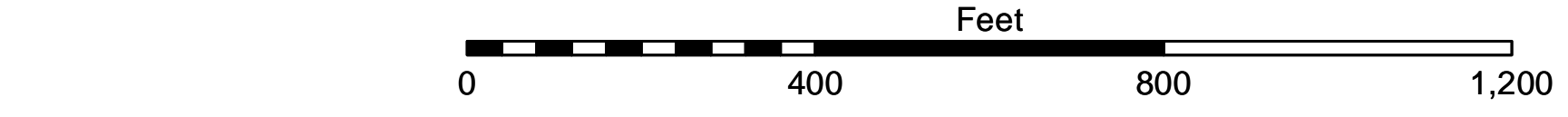
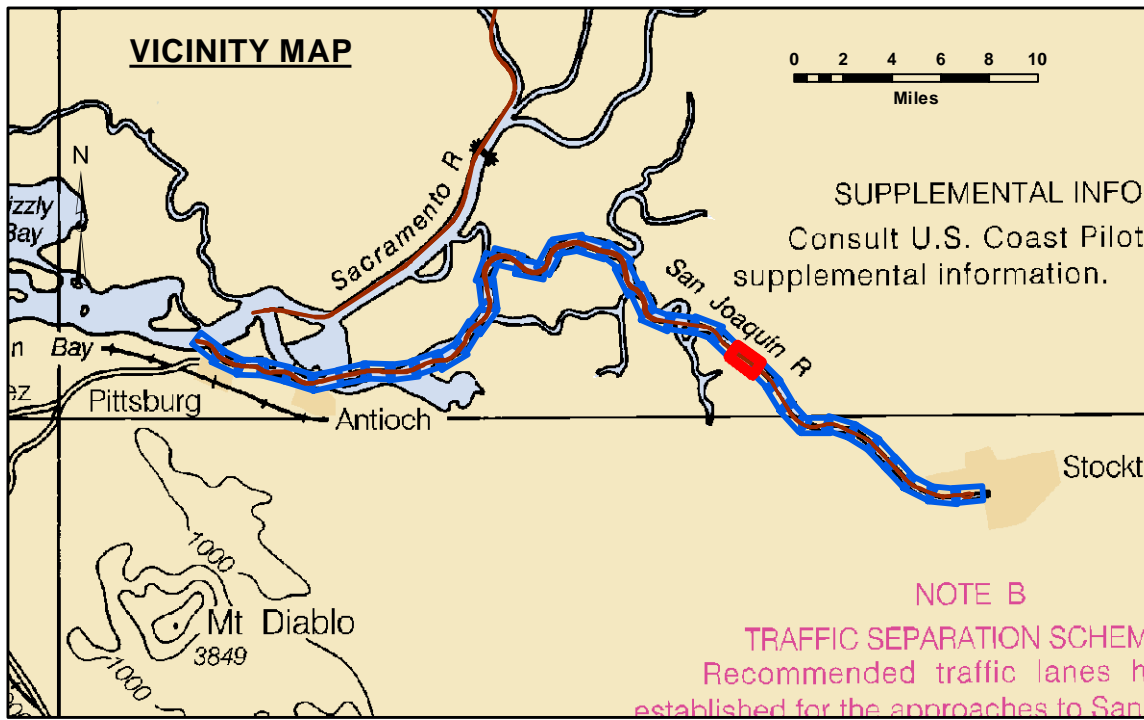
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Chart Date:	Apr 21, 2021
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT
Approved:	PDT

SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
28 of 39



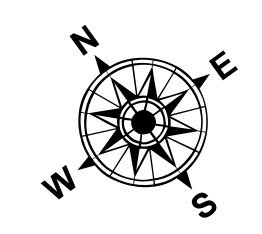
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	▬ -35	
— Federal Navigation Center Line	□ Placement Area	▬ -34	
⋯ Cable Submarine	⊠ Anchorage Area	▬ -33	
- - - Cable Overhead	⊗ Obstruction Point	▬ -32	
— Contour Line	✦ Wrecks-Submerged	▬ -31	
	● Shoaling Area		
	● Shoalest Sounding within Channel Quarter**		
	⌄ Beacon, General		
	◆ Red Navigation Buoy		
	◆ Green Navigation Buoy		

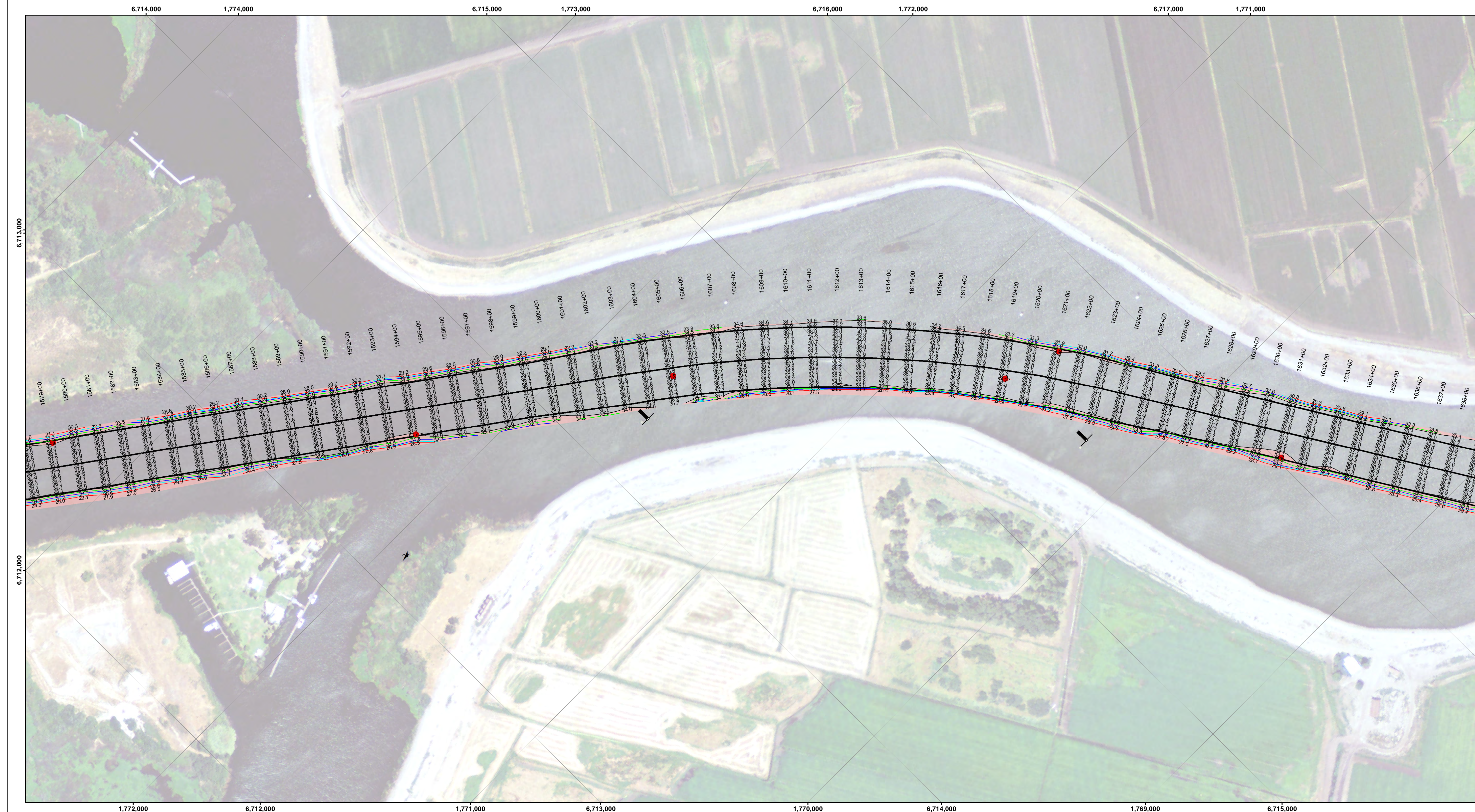
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 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 Nail @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 Nail @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

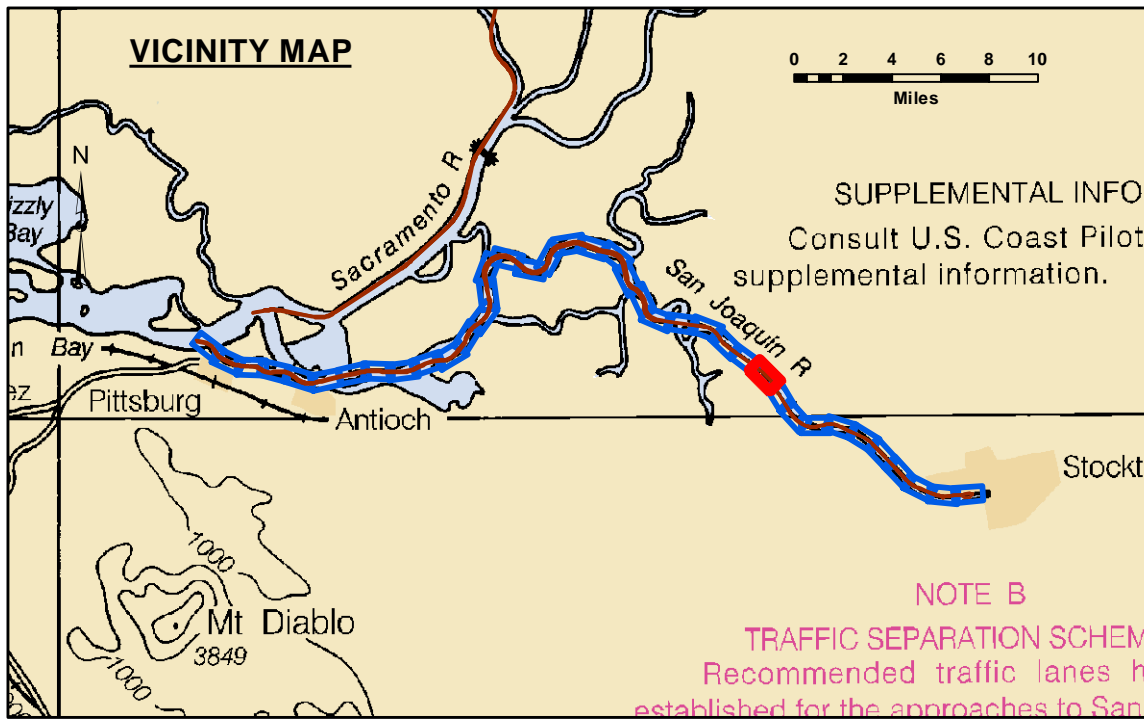
OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 9.0 FT MLLW
 DAY MARKER 27 = 9.0 FT MLLW
 DAY MARKER 29 = 9.0 FT MLLW
 PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW





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Chart Date:	Apr 21, 2021
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Designed By:	PDT
Checked By:	PDT
Drawn By:	PDT



LEGEND	
--- Federal Navigation Channel	▨ Cable Area
— Federal Navigation Center Line	□ Placement Area
..... Cable Submarine	⊠ Anchorage Area
- - - Cable Overhead	⊗ Obstruction Point
— Contour Line	✦ Wrecks-Submerged
■ Shoaling Area	● Shoalest Sounding within Channel Quarter**
⊥ Beacon, General	◆ Red Navigation Buoy
◆ Green Navigation Buoy	

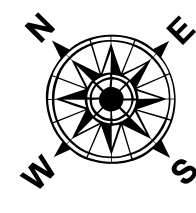
Contours	
—	-35
—	-34
—	-33
—	-32
—	-31

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 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
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CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 Nail @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W

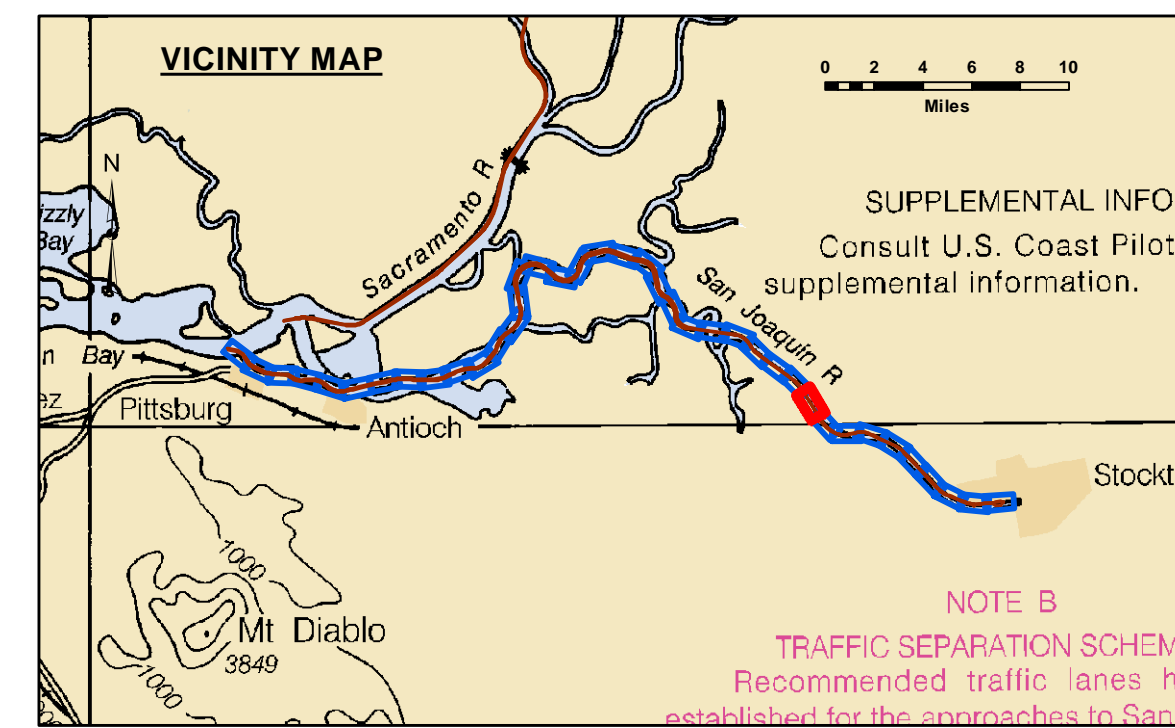
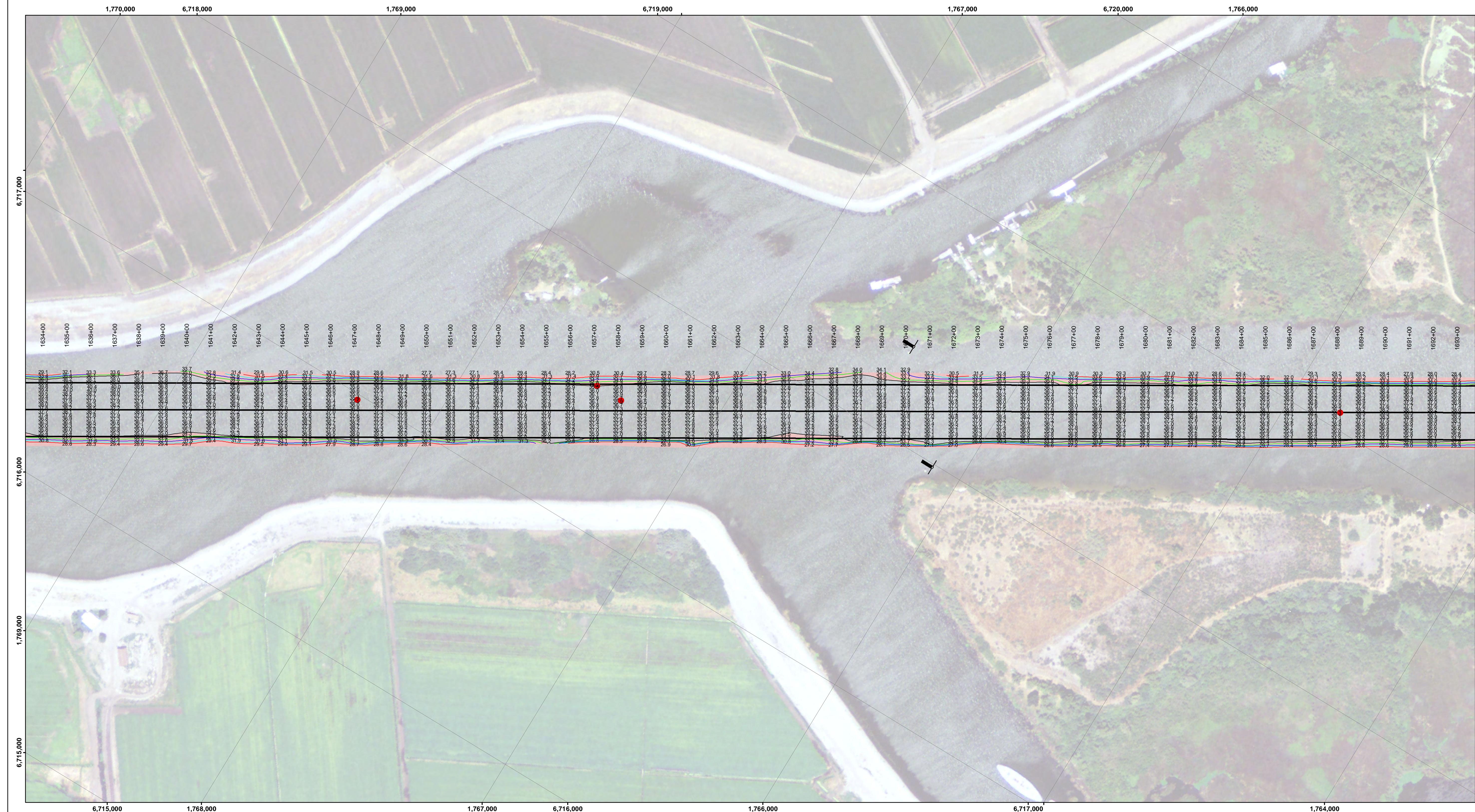
LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 Nail @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
 DAY MARKER 27 = 9.0 FT MLLW
 DAY MARKER 29 = 9.0 FT MLLW
 PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW



CALIFORNIA
 SAN JOAQUIN COUNTY
STOCKTON RIVER
 CONDITION SURVEY
 12-16 APRIL 2021

Sheet Reference Number
29 of 39



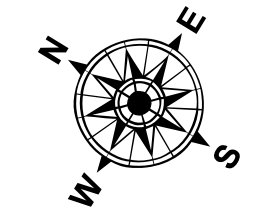
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
⋯ Cable Submarine	⊠ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✈ Wrecks-Submerged	— -31	
		■ Shoaling Area	
		● Shoalest Sounding within Channel Quarter**	
		⊥ Beacon, General	
		◆ Red Navigation Buoy	
		◆ Green Navigation Buoy	

NOTES:
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PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
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CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
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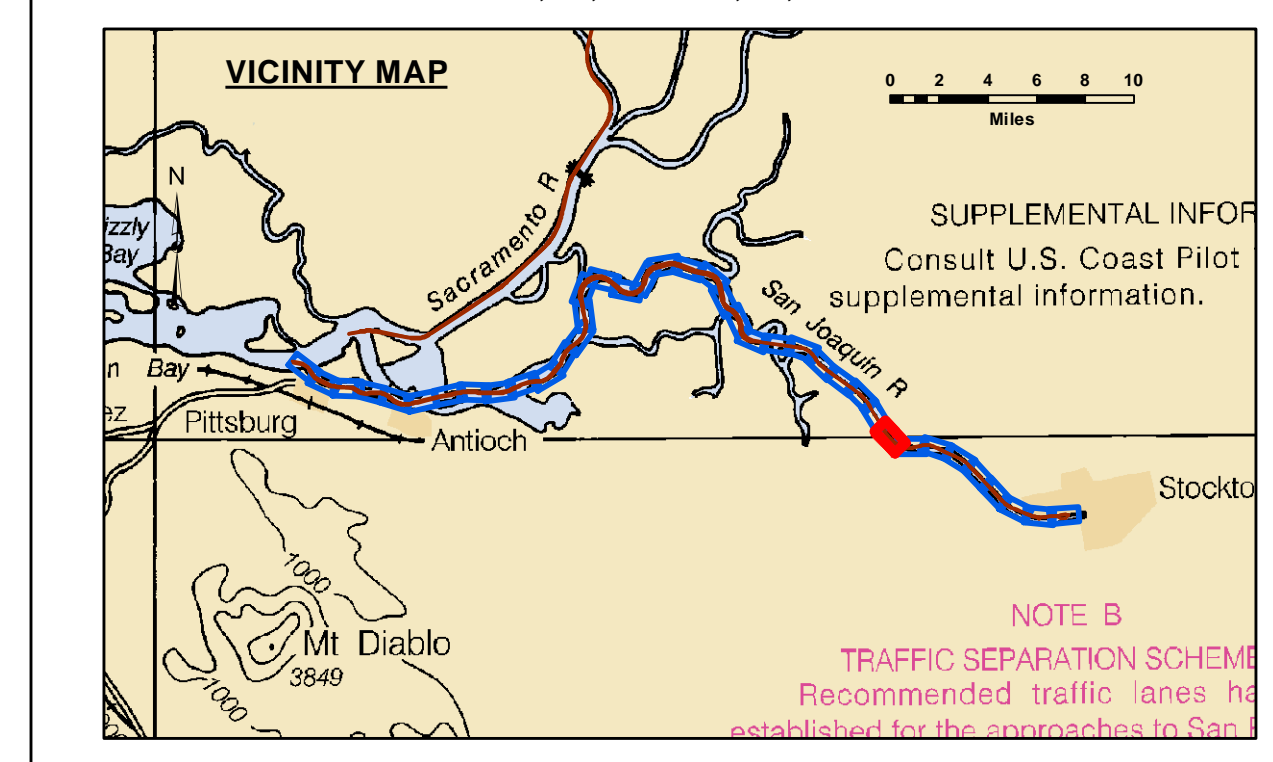
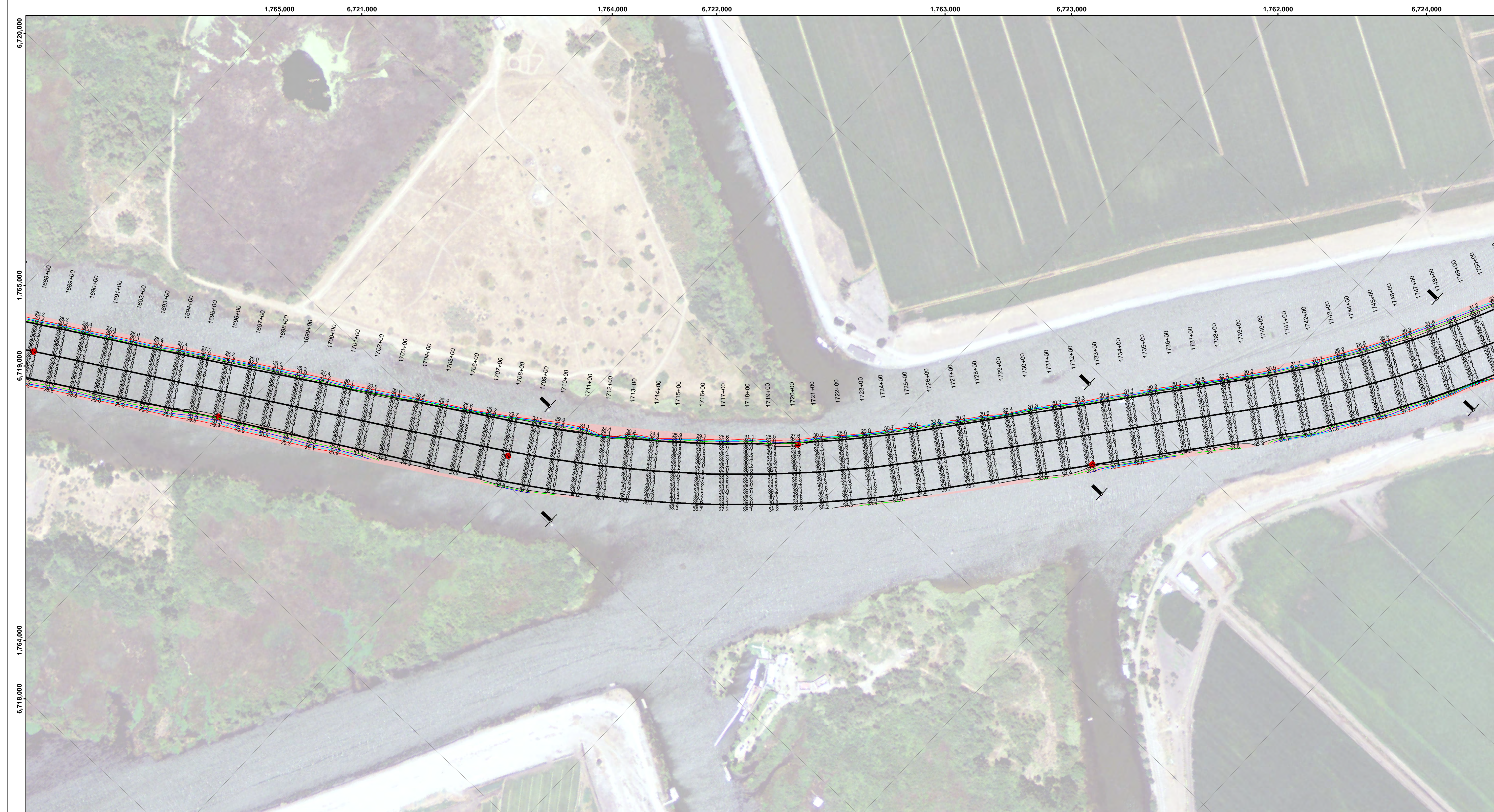
Chart Date:	Apr 21, 2021
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E. DISTRICT ENGINEER

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

CALIFORNIA
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
30 of 39



Feet
0 400 800 1,200

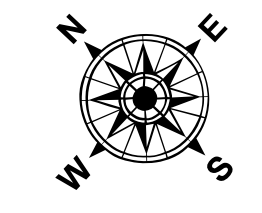
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	▭ Shoaling Area	— -35
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -34
⋯ Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General	— -33
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -32
— Contour Line	✈ Wrecks-Submerged	◆ Green Navigation Buoy	— -31

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NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
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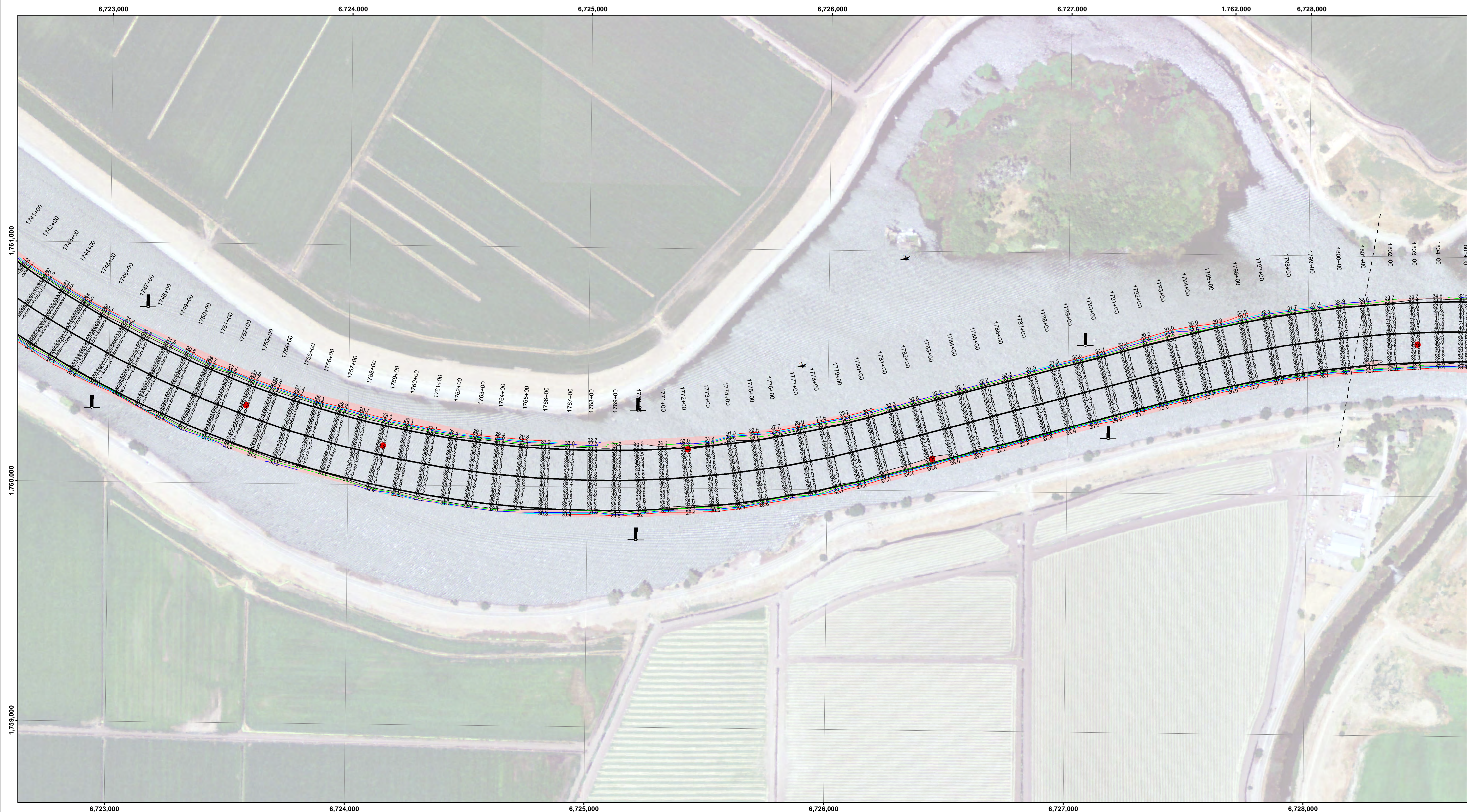


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Prepared Under the Direction of JOHN D. CUNNINGHAM LT. COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Apr 21, 2021
Survised By: Hydro Survey Team Leader	Designed by: PDT
Plotted By: PDT	Checked by: PDT
Recommended: Chief, Hydro Survey Section	Drawn by: PDT
Approved: Chief, Construction Branch	

CALIFORNIA
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
31 of 39

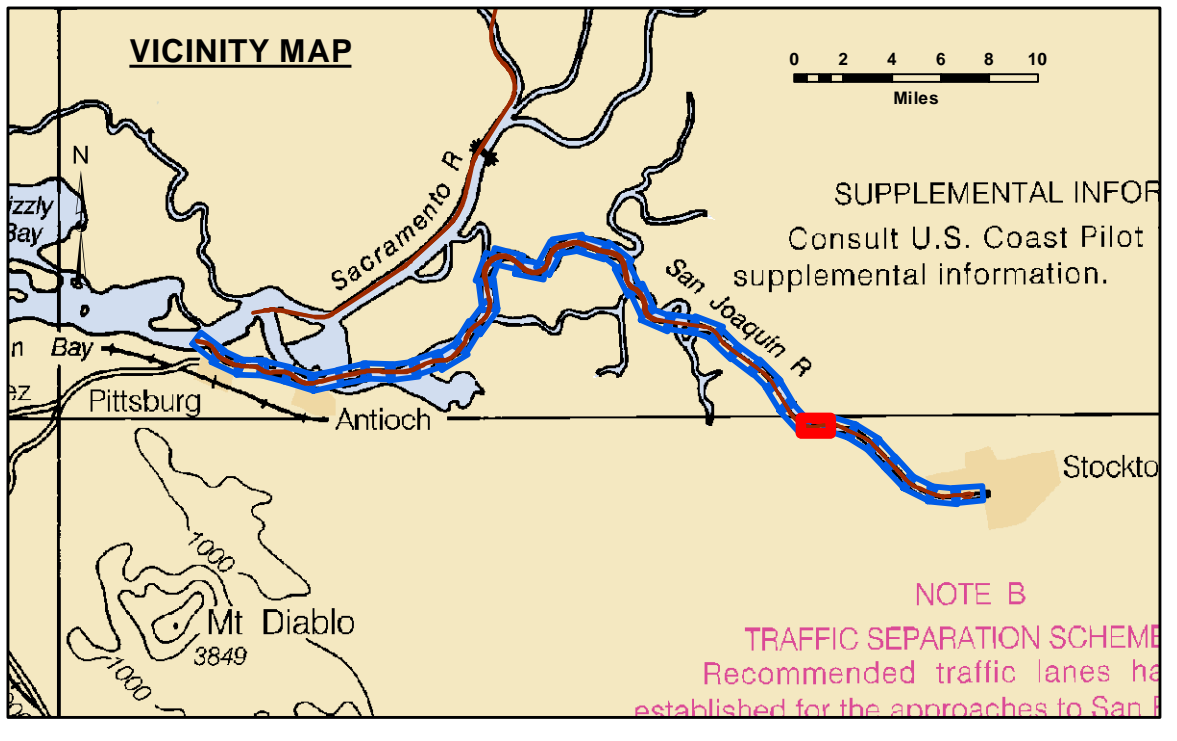


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Drawn by:	PDT
Surveyed By:	PDT
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CALIFORNIA
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
32 of 39



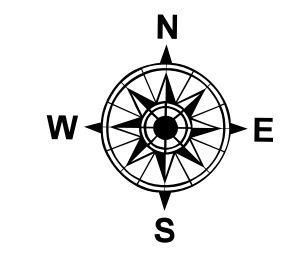
LEGEND		Contours	
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— Federal Navigation Center Line	□ Placement Area	— -34	
..... Cable Submarine	⊠ Anchorage Area	— -33	
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		⊥ Beacon, General	
		◆ Red Navigation Buoy	
		◆ Green Navigation Buoy	

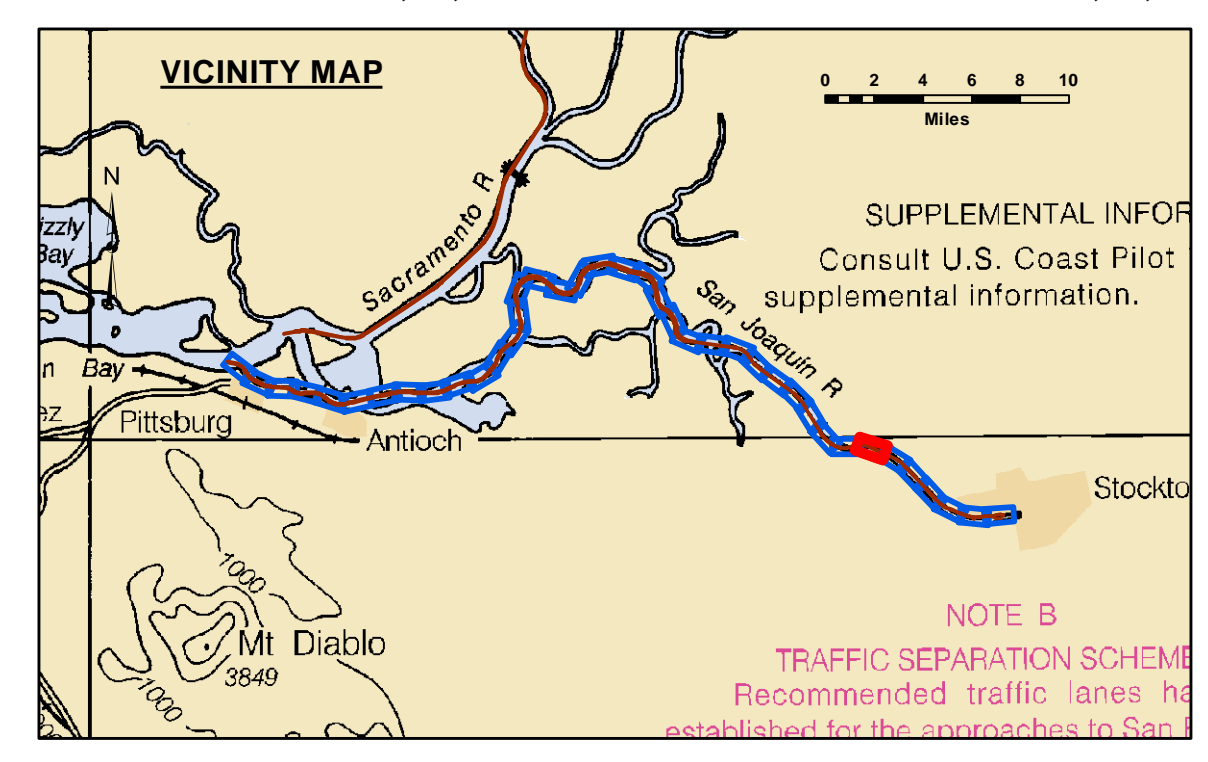
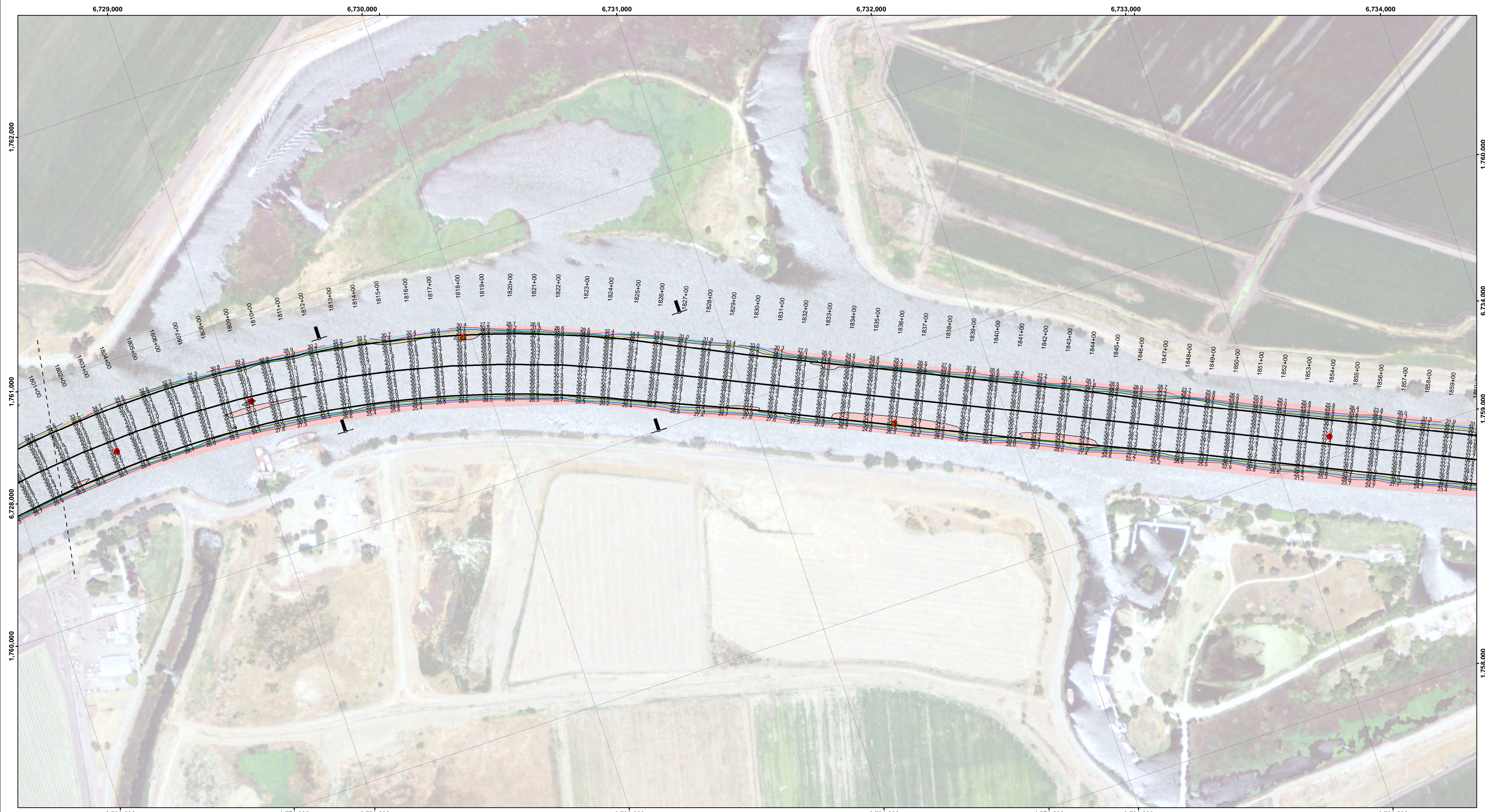
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 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 Nail @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 Nail @ 10.0 FT MLLW
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 LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
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Feet
0 400 800 1,200

--- Federal Navigation Channel	▨ Cable Area	▭ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -35
⋯ Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General	— -34
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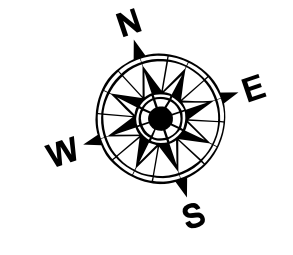
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DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW



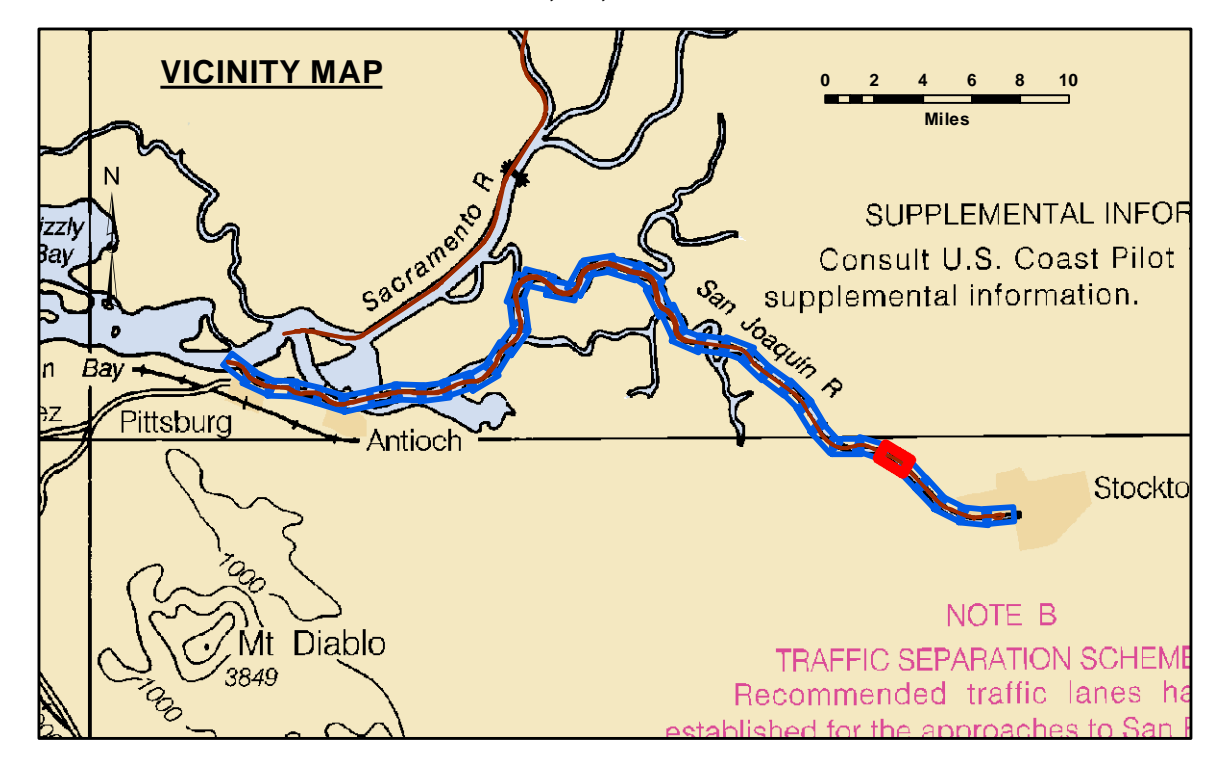
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Chart Date:	Apr 21, 2021
Surveyed By:	JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER
Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
33 of 39



Feet
0 400 800 1,200

--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -35
..... Cable Submarine	▭ Anchorage Area	⬇ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -33
— Contour Line	✈ Wrecks-Submerged	◆ Green Navigation Buoy	— -32
			— -31

NOTES:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY.
THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.
SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.
SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

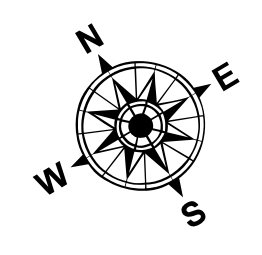
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

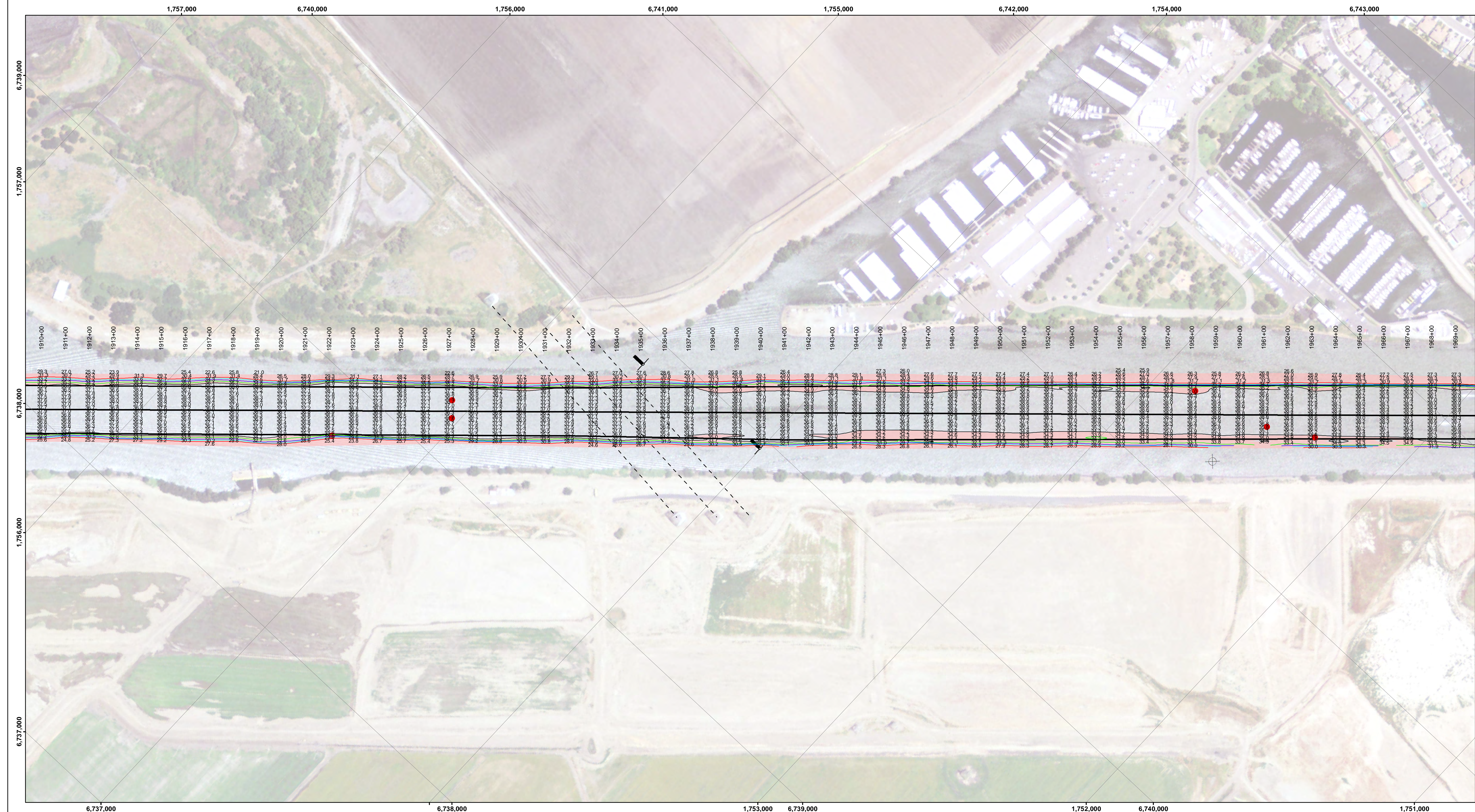


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Chart Date:	Apr 21, 2021
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
34 of 39



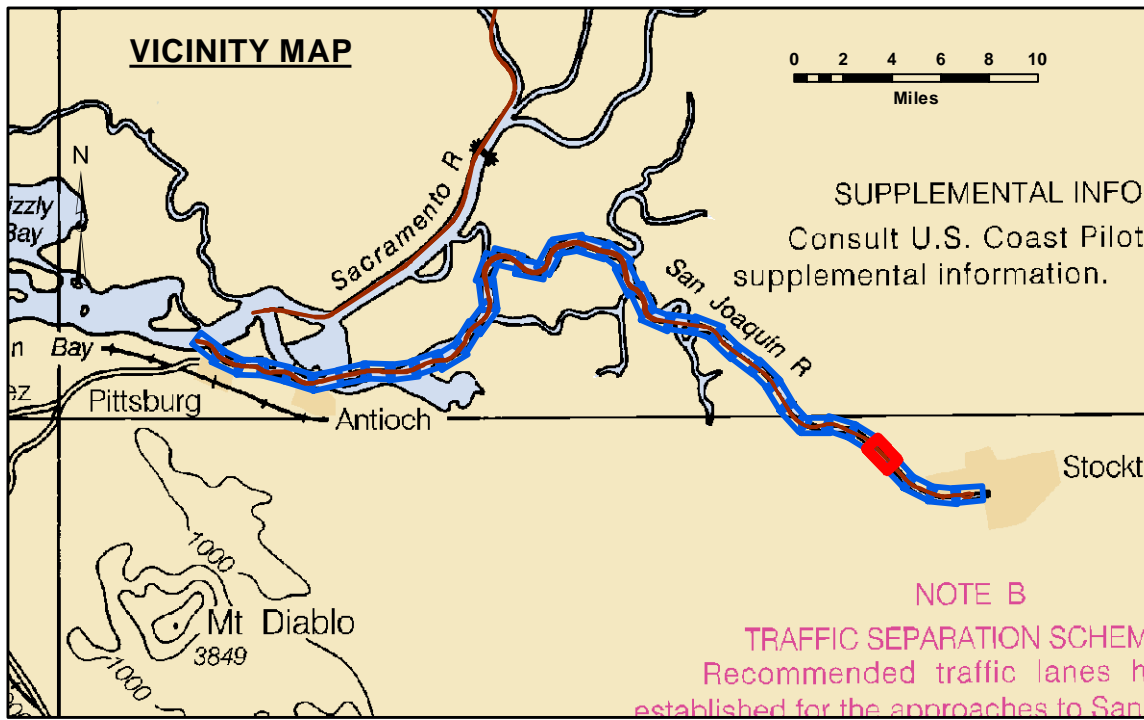
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Chart Date:	Apr 21, 2021
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT

STOCKTON RIVER
 CONDITION SURVEY
 12-16 APRIL 2021

Sheet Reference Number
 35 of 39



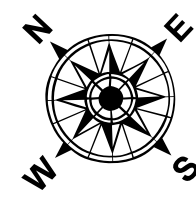
LEGEND	
--- Federal Navigation Channel	▨ Cable Area
— Federal Navigation Center Line	□ Placement Area
..... Cable Submarine	⊠ Anchorage Area
- - - Cable Overhead	⊗ Obstruction Point
— Contour Line	★ Wrecks-Submerged
▭ Shoaling Area	● Shoalest Sounding within Channel Quarter**
⊥ Beacon, General	◆ Red Navigation Buoy
◆ Green Navigation Buoy	

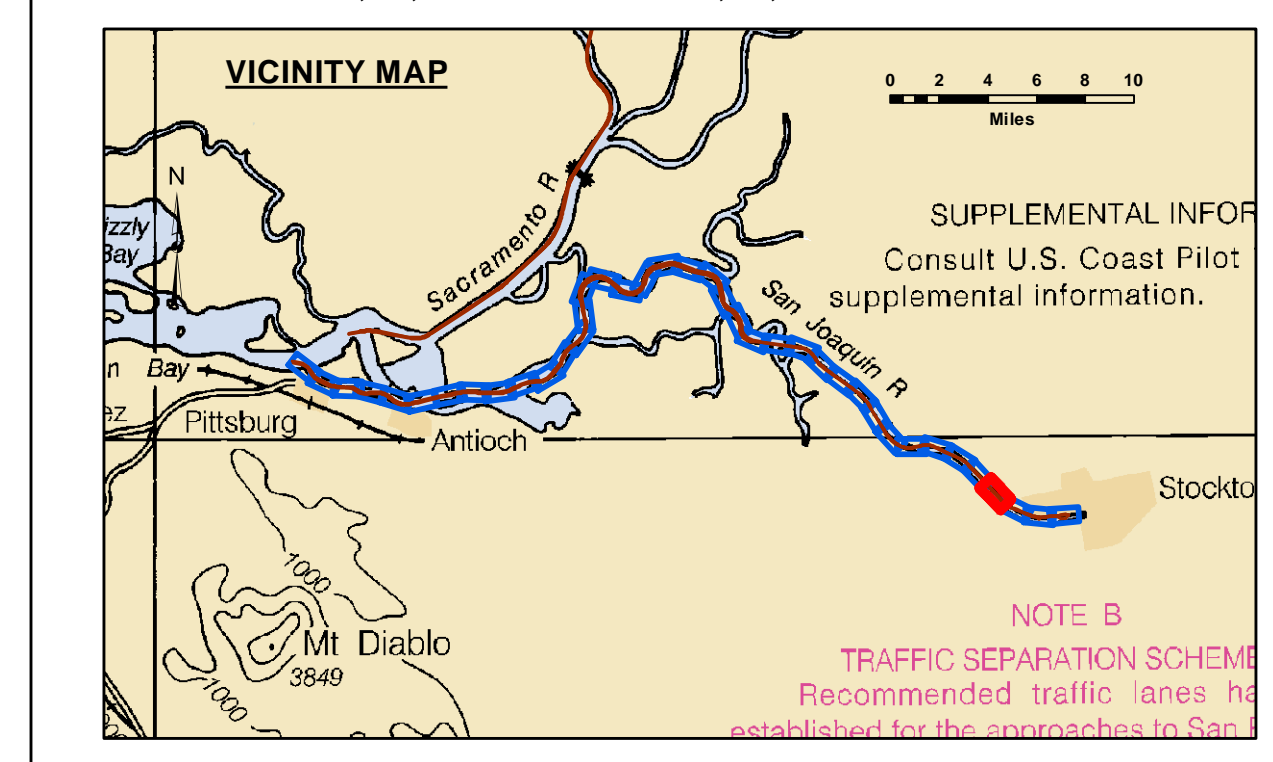
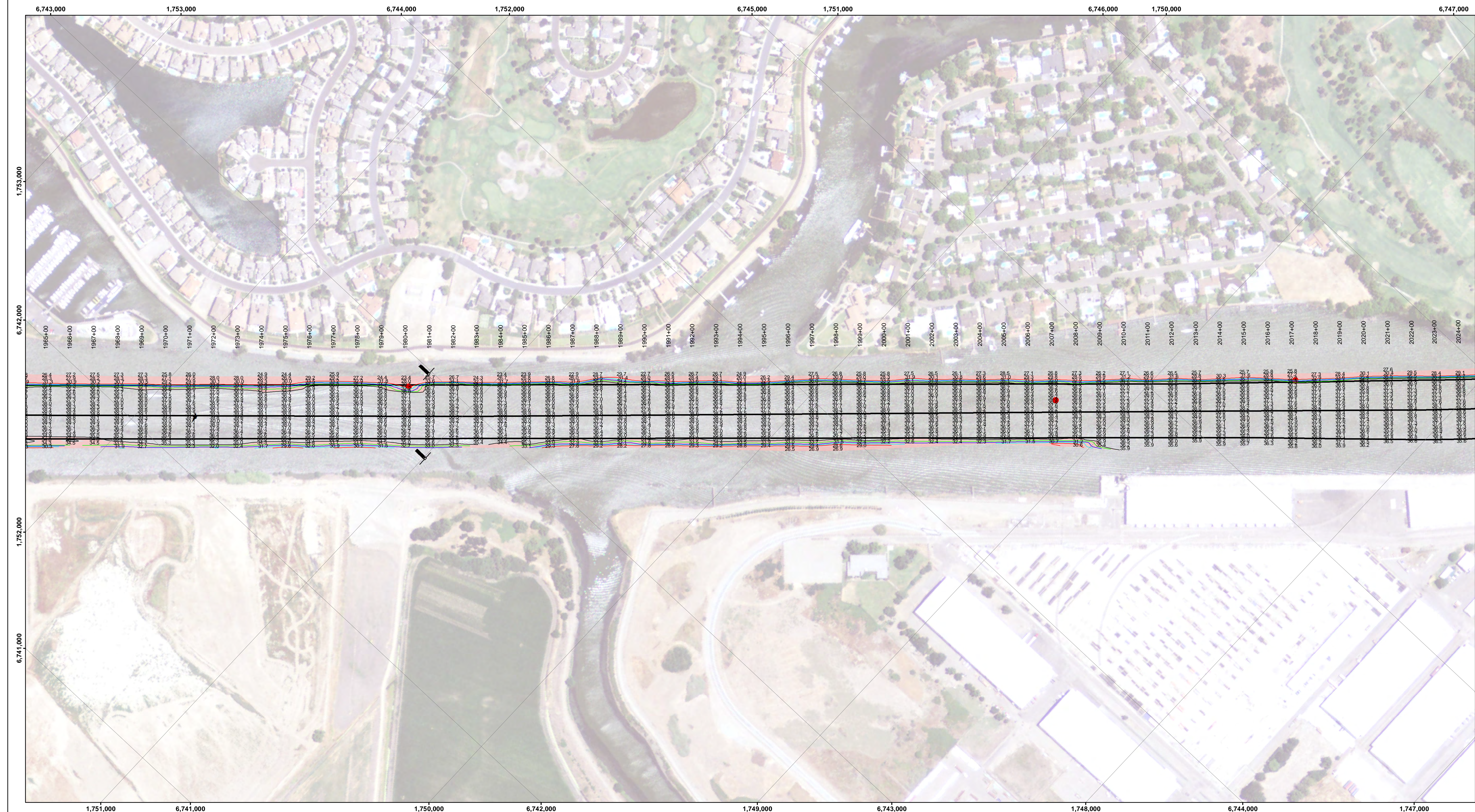
NOTES:
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 SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.
 SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
 PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 Nail @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 Nail @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
 DAY MARKER 27 = 9.0 FT MLLW
 DAY MARKER 29 = 9.0 FT MLLW
 PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW





Feet
0 400 800 1,200

--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -35
⋯ Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -33
— Contour Line	✈ Wrecks-Submerged	◆ Green Navigation Buoy	— -32
			— -31

NOTES:
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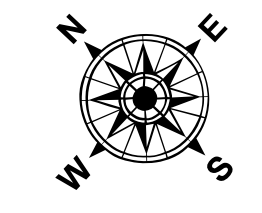
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PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TIG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW



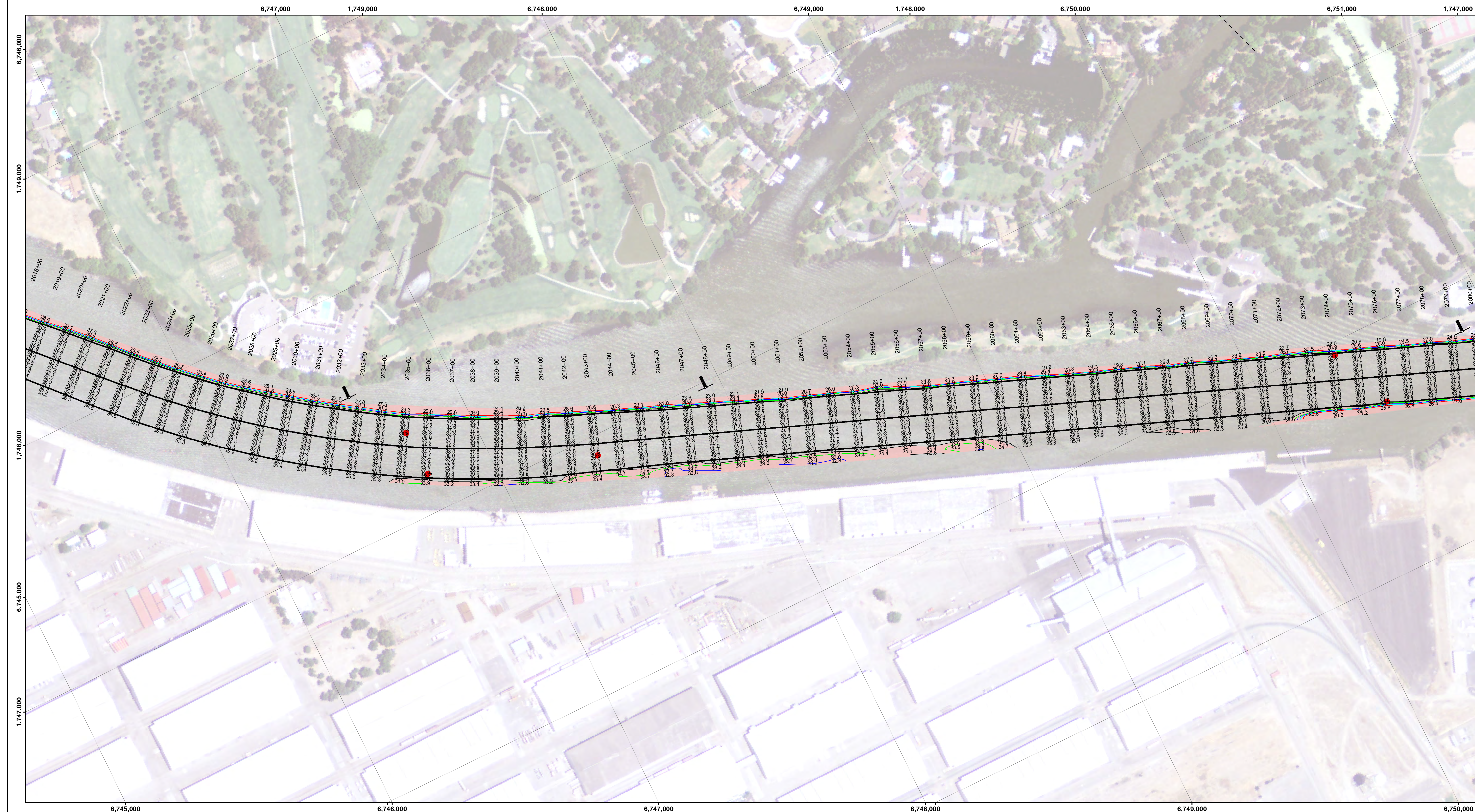
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Chart Date:	Apr 21, 2021
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Designed By:	PDT
Checked By:	PDT
Drawn By:	PDT

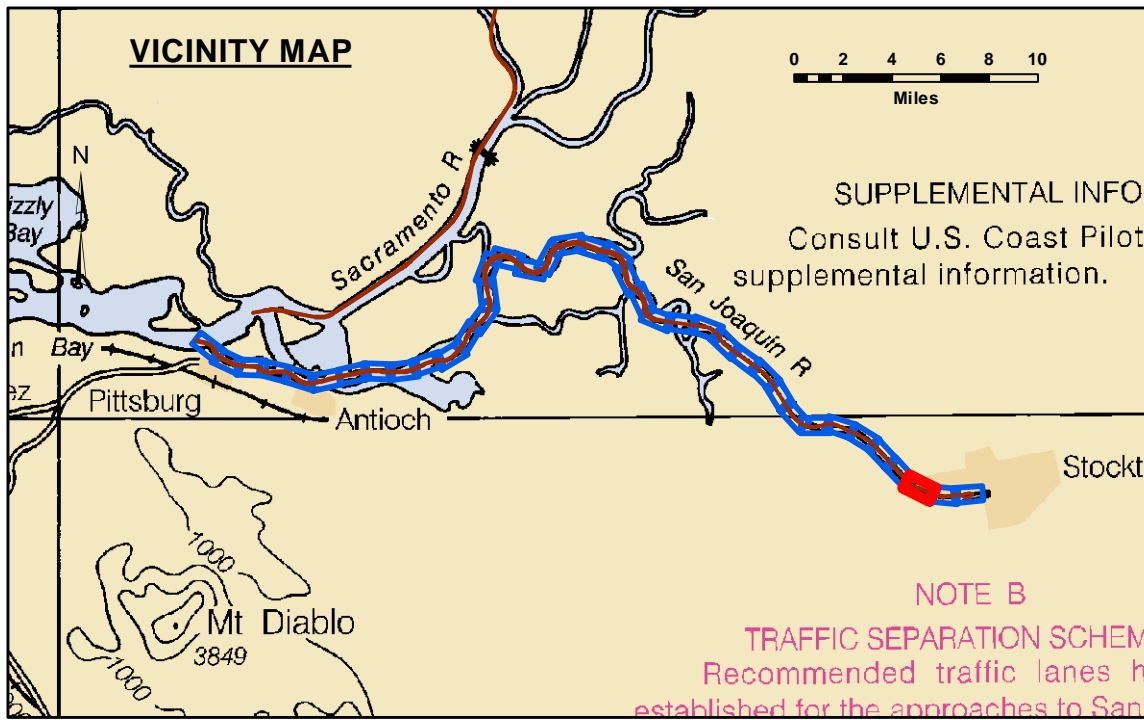
CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
36 of 39



DISCLAIMER
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Prepared Under the Direction of JOHN D. CUNNINGHAM LT Colonel, C.E., District Engineer	Chart Date: Apr 21, 2021
Surveyed By: Hydro Survey Team Leader	Designed by: PDT
Plotted By: PDT	Drawn by: PDT
Checked by: PDT	
Approved: Chief, Construction Branch	



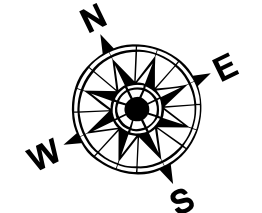
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
⋯ Cable Submarine	⊠ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✦ Wrecks-Submerged	— -31	
	● Shoalest Sounding within Channel Quarter**		
	⊥ Beacon, General		
	◆ Red Navigation Buoy		
	◆ Green Navigation Buoy		

NOTES:
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 SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.
 SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
 PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 Nail @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W

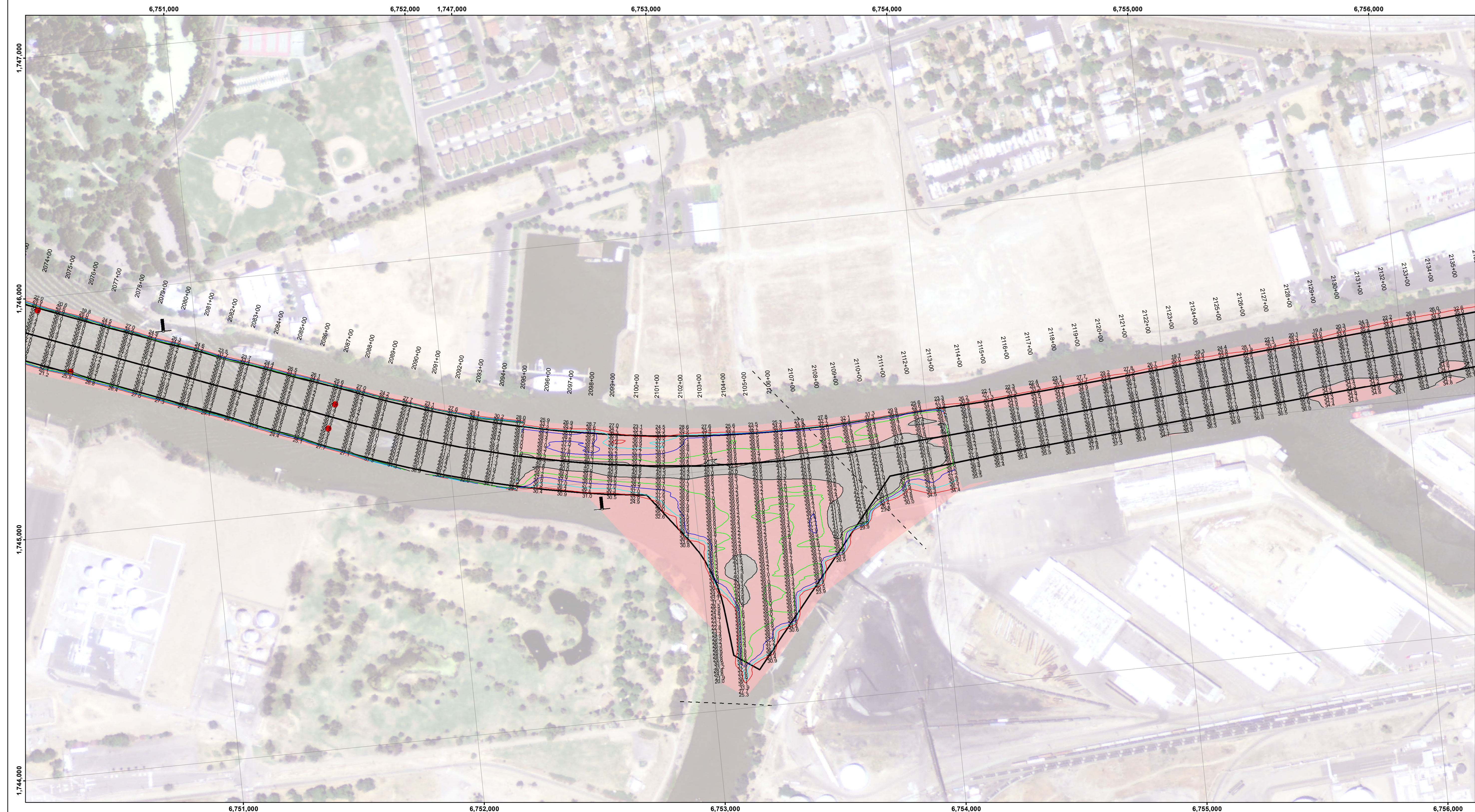
LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 Nail @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
 DAY MARKER 27 = 9.0 FT MLLW
 DAY MARKER 29 = 9.0 FT MLLW
 PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW



CALIFORNIA
 SAN JOAQUIN COUNTY
STOCKTON RIVER
 CONDITION SURVEY
 12-16 APRIL 2021

Sheet Reference Number
37 of 39



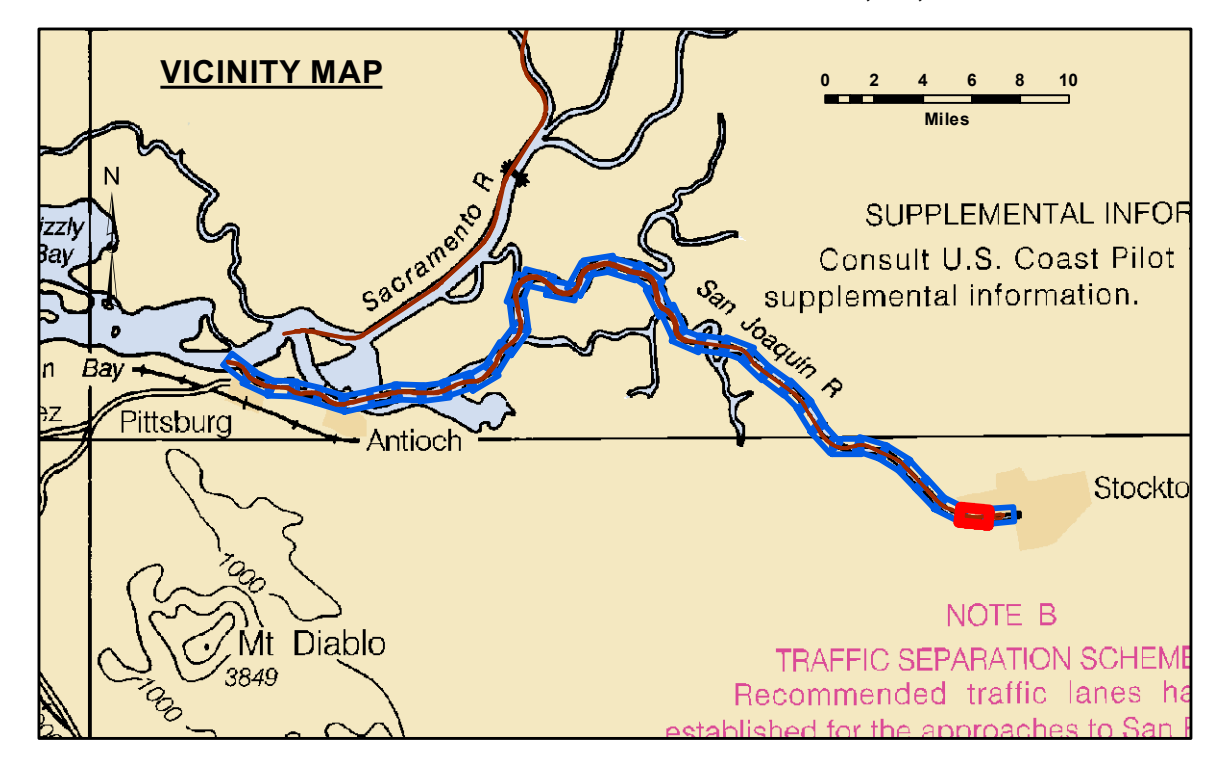
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Chart Date:	Apr 21, 2021
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
 LT COLONEL, C.E. DISTRICT ENGINEER

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



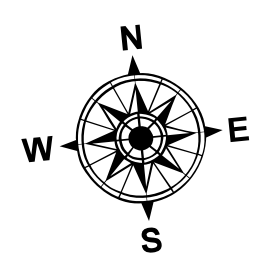
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— -40
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -39
⋯ Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General	— -38
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -37
— Contour Line	✦ Wrecks-Submerged	◆ Green Navigation Buoy	— -36

NOTES:
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 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 NAIL @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

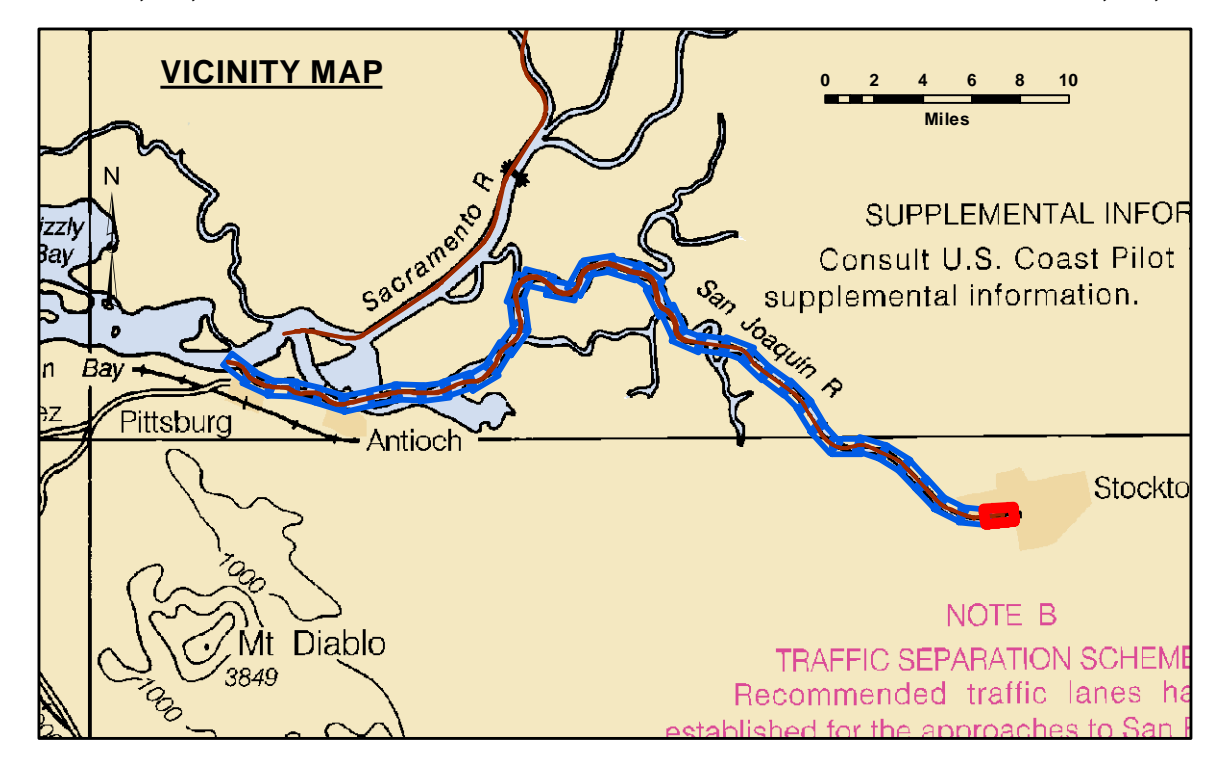
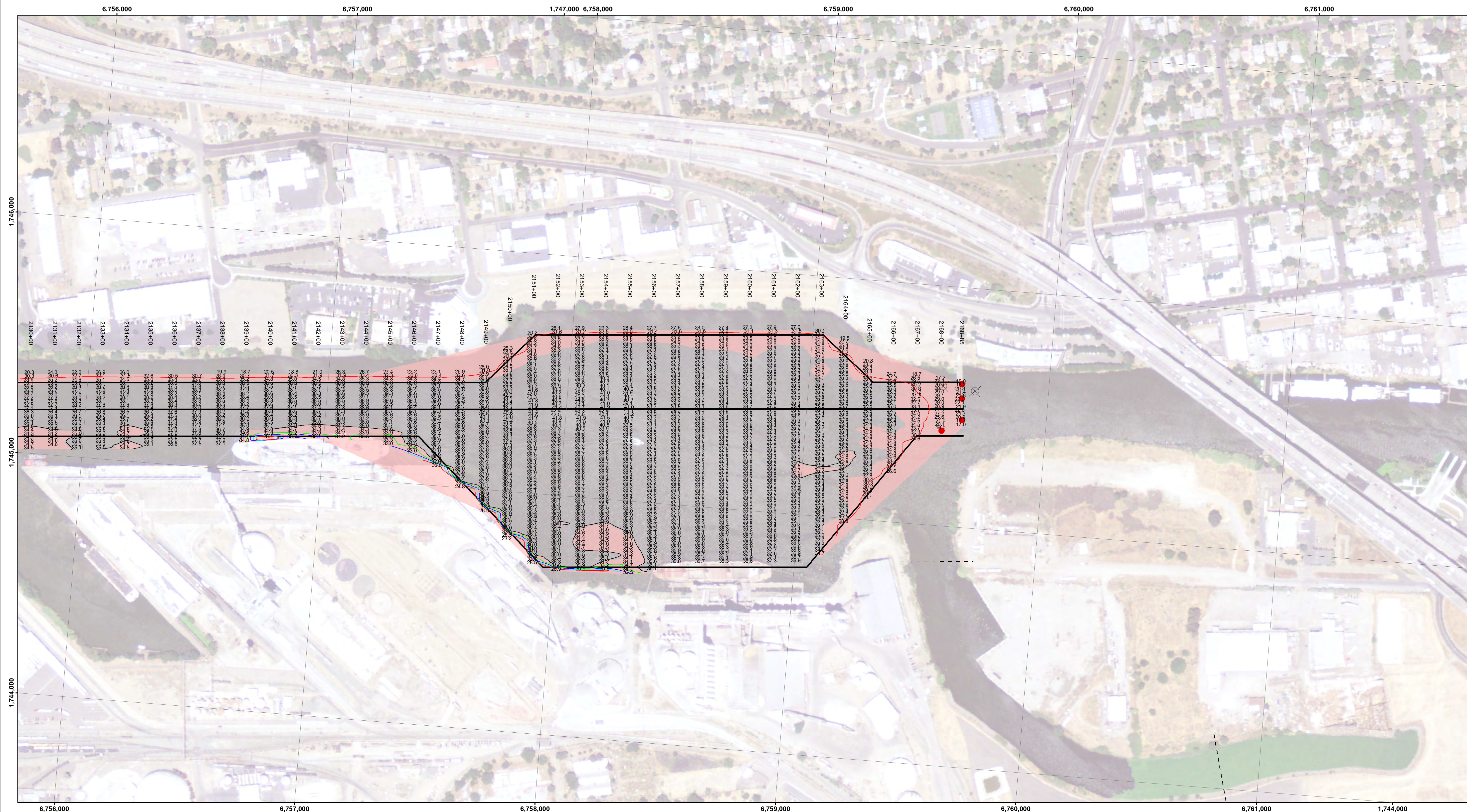
OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
 DAY MARKER 27 = 9.0 FT MLLW
 DAY MARKER 29 = 9.0 FT MLLW
 PORT OF STOCKTON TIG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 NAIL @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W



CALIFORNIA
 SAN JOAQUIN COUNTY
STOCKTON RIVER
 SEDIMENT TRAP
 CONDITION SURVEY
 12-16 APRIL 2021

Sheet Reference Number
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Feet
0 400 800 1,200

LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
⋯ Cable Submarine	⊠ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✦ Wrecks-Submerged	— -31	
		● Shoalest Sounding within Channel Quarter**	
		⊥ Beacon, General	
		◆ Red Navigation Buoy	
		◆ Green Navigation Buoy	

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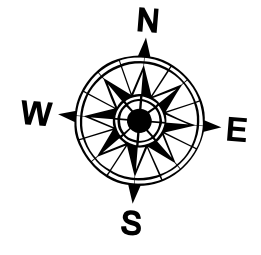
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PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
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NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
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Chart Date:	Apr 21, 2021
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Designed by:	PDT
Checked By:	PDT
Drawn by:	PDT

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
12-16 APRIL 2021

Sheet Reference Number
39 of 39