

DISCLAIMER: The data represents the results of data collection/processing for a specific US Army Corps of Engineers project. It is not intended for use in any other project. The user is responsible for its intended use, current, time and accuracy specifications. The user is responsible for the results of any of the application of the data for other than its intended purpose.

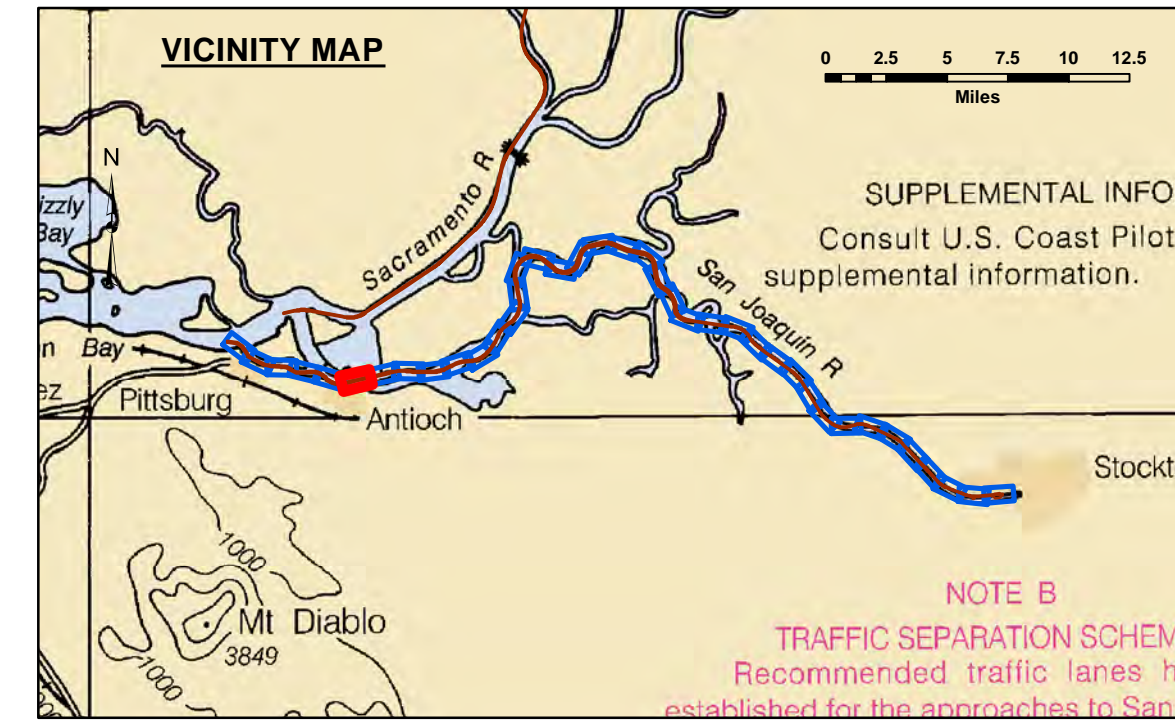
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Chart Date:	Jan 14, 2020
Designed by:	
Drawn by:	PDT
Surveyed By:	
Plotted By:	PDT
Checked By:	PDT
Approved:	
Chief, Construction Branch	

CALIFORNIA
 STOCKTON RIVER
 POST-DREDGE SURVEY
 1, 13 OCTOBER, 4, 7-8, 12, 15, 26 NOVEMBER,
 AND 2, 16 DECEMBER 2019

Sheet Reference Number
 6 of 39



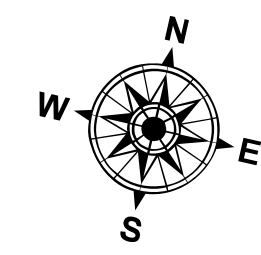
LEGEND		
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**
..... Cable Submarine	▭ Anchorage Area	⊥ Beacon, General
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy
— Contour Line	✦ Wrecks-Submerged	◆ Green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

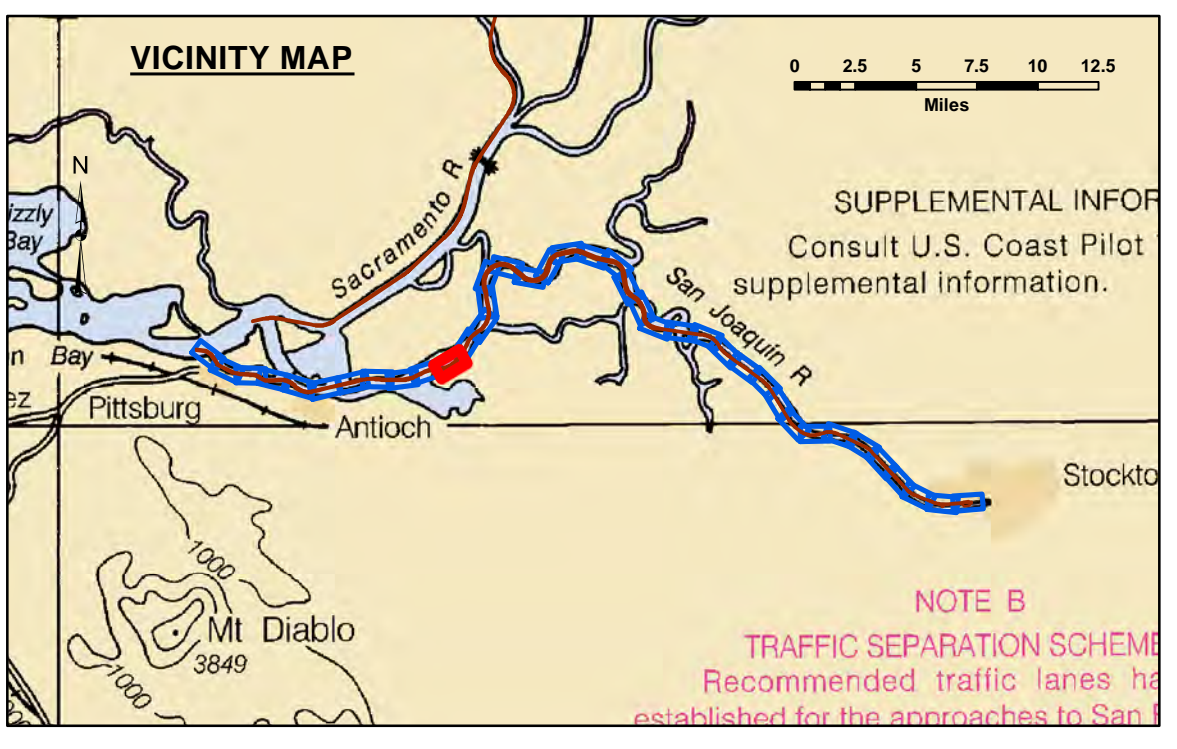
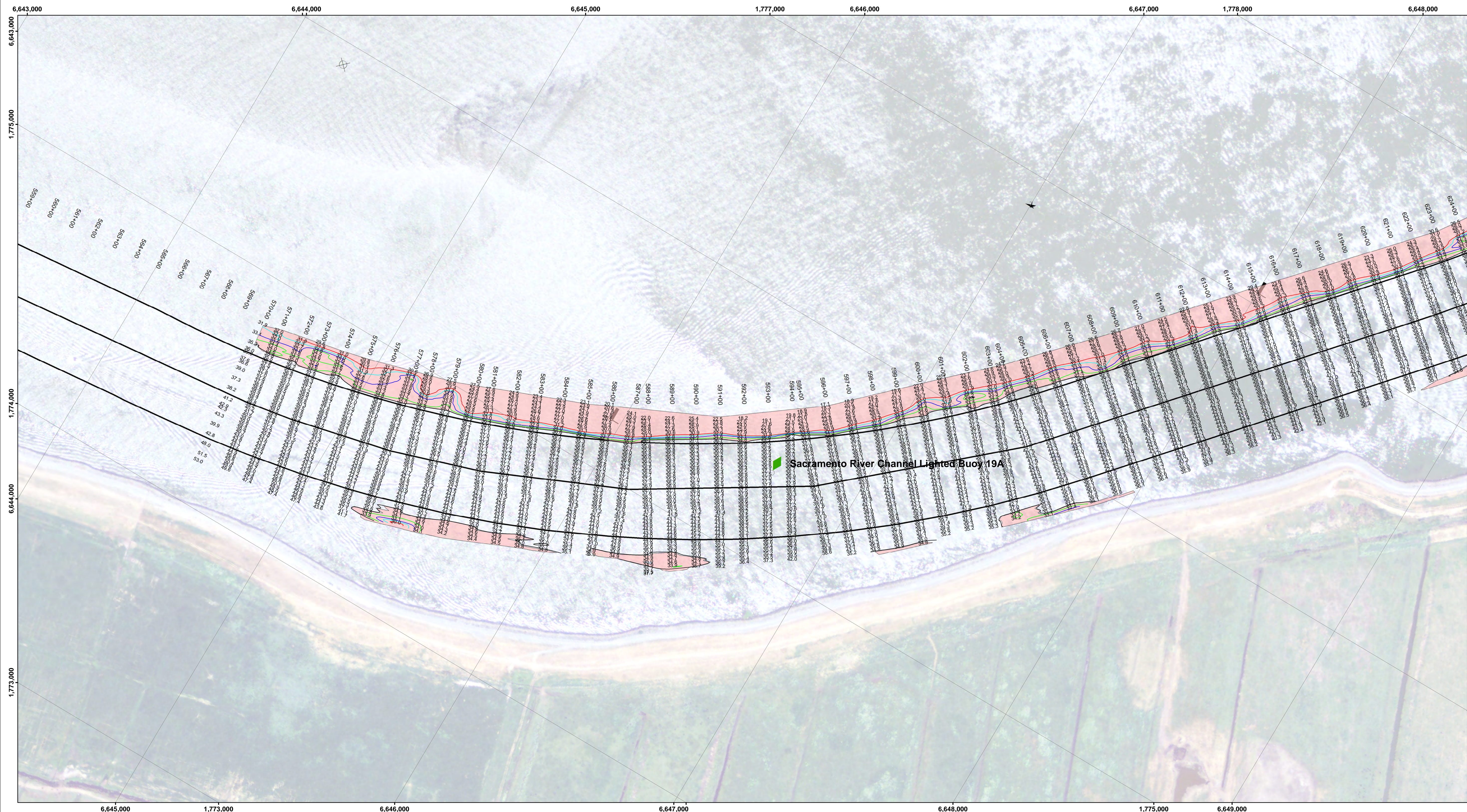
NOTES:
 DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY.
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 SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.
 SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
 PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE 11, 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 4887
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 NAILED @ 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:
 NAILED @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W





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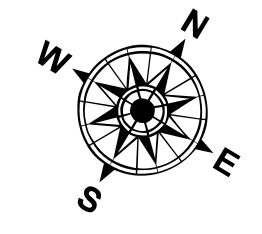
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PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
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CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

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

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DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
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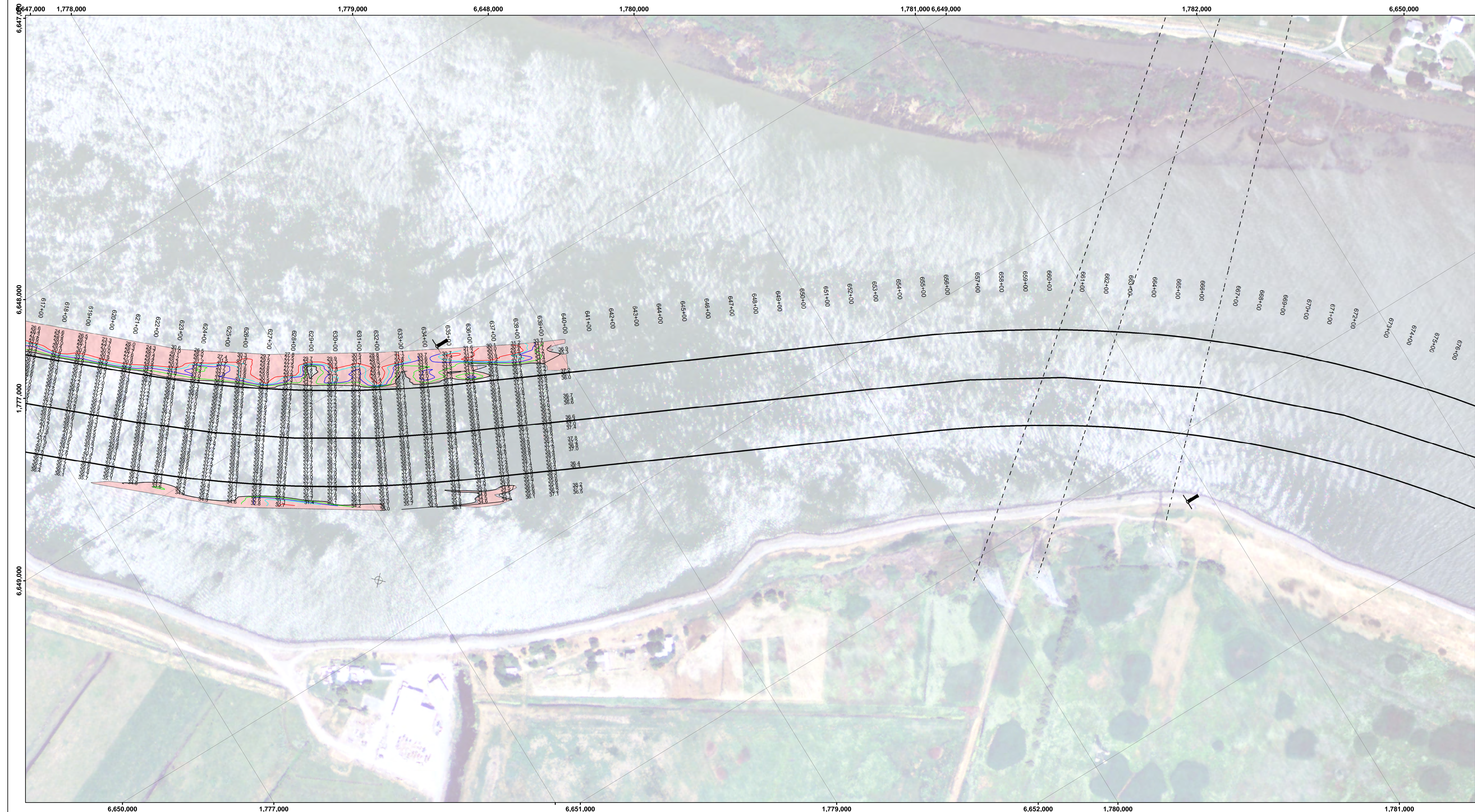
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Chart Date:	Jan 14, 2020
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Designed By:	PDT
Checked By:	PDT
Drawn By:	PDT

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
POST-DREDGE SURVEY
1, 13 OCTOBER; 4, 7-8, 12, 15, 26 NOVEMBER;
AND 2, 16 DECEMBER 2019

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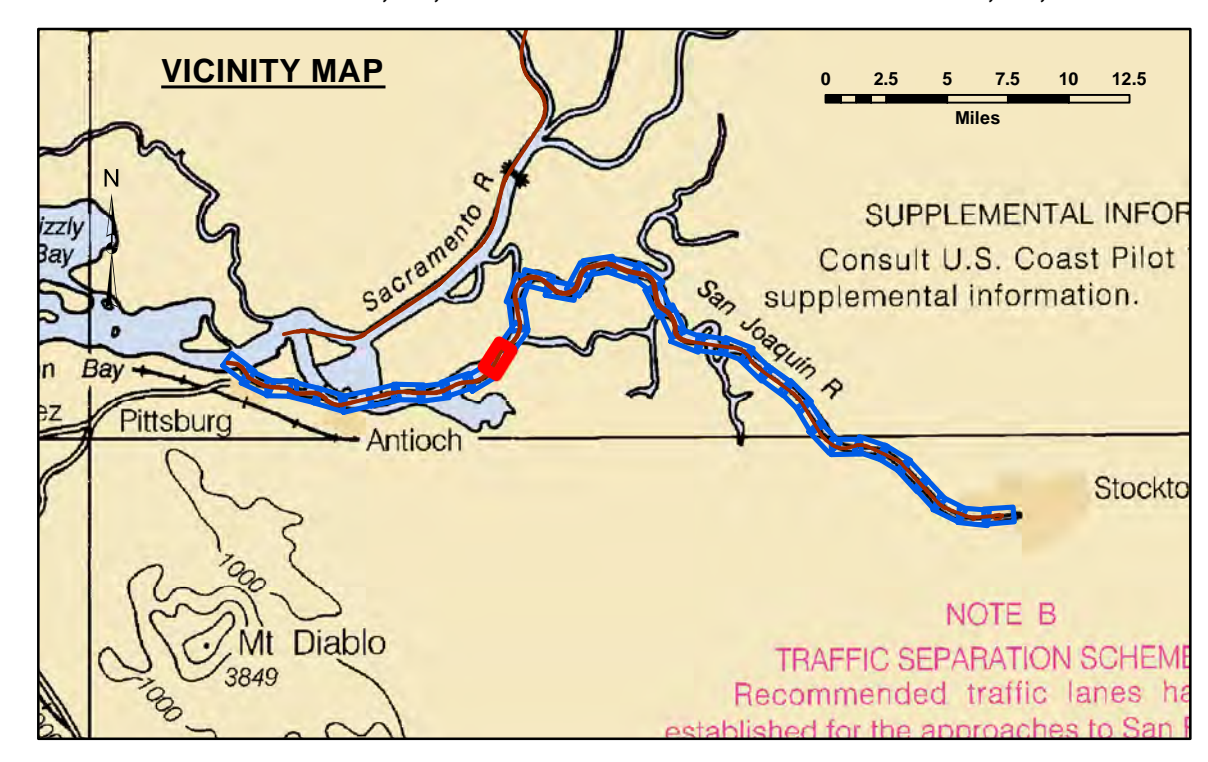
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Plotted By:	PDT
Checked By:	PDT

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



Feet
0 400 800 1,200

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

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: HS0438)
 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
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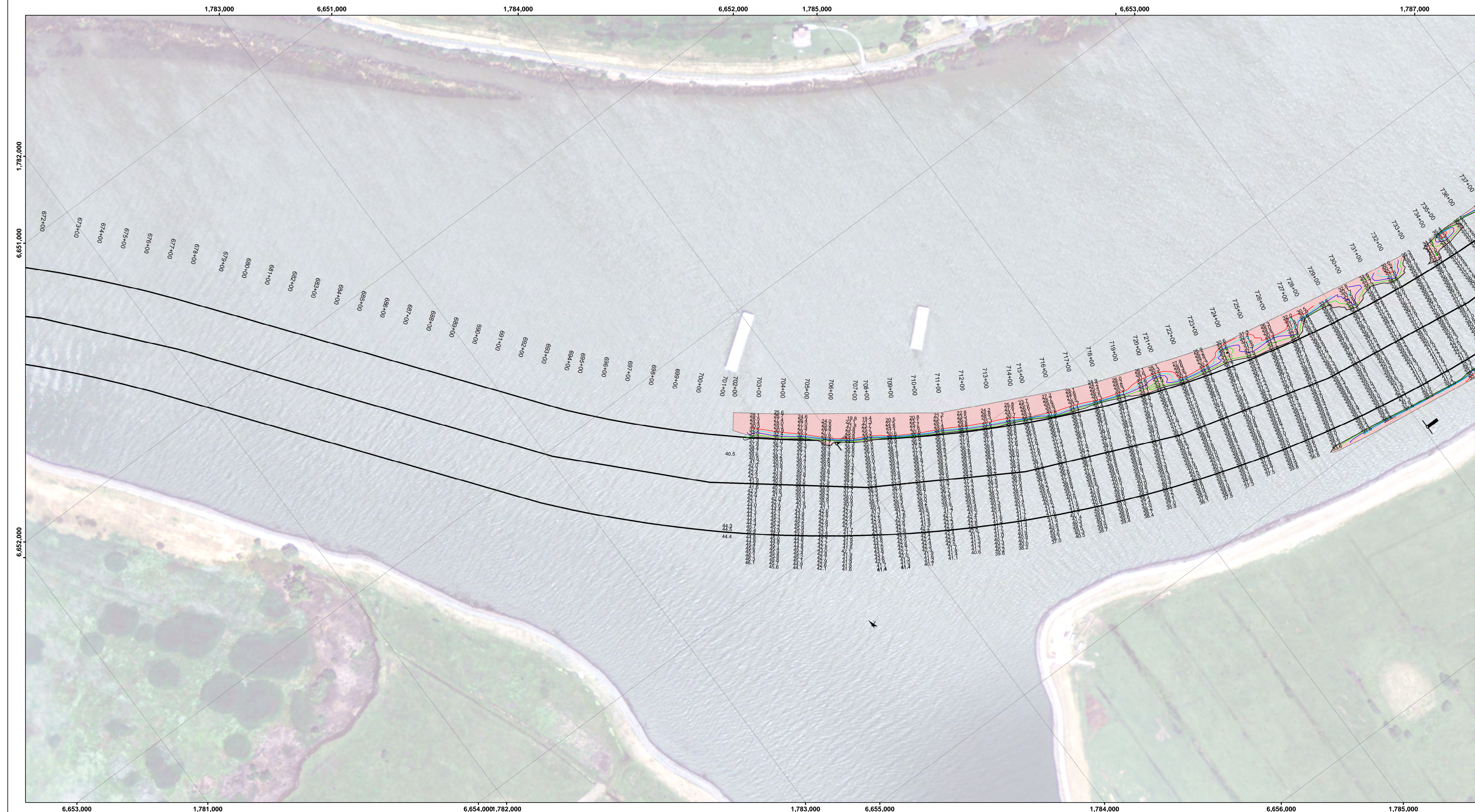
CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 NAIL @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W

CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
 POST-DREDGE SURVEY
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 AND 2, 16 DECEMBER 2019

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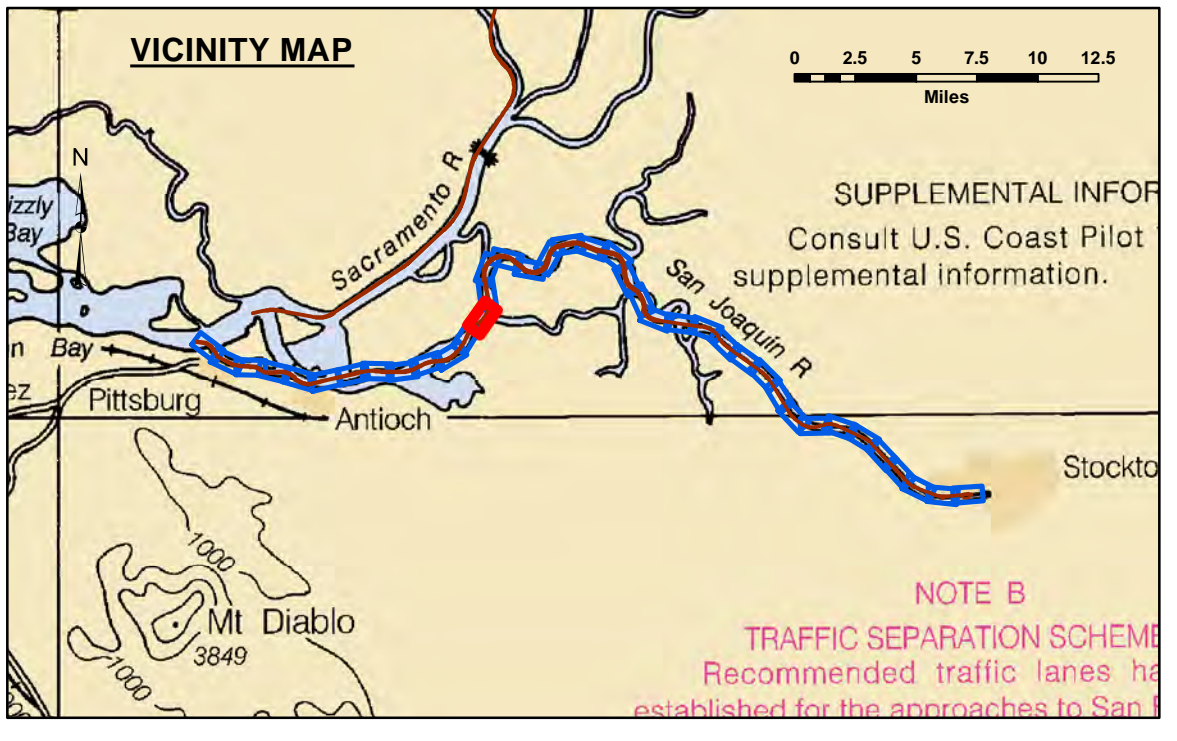
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Plotted By:	PDT
Checked By:	PDT

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



LEGEND		
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**
..... Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General
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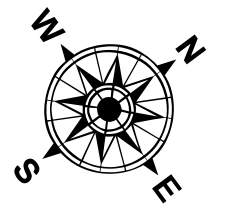
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PROJECT DEPTH: -35'
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CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 Nail @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W

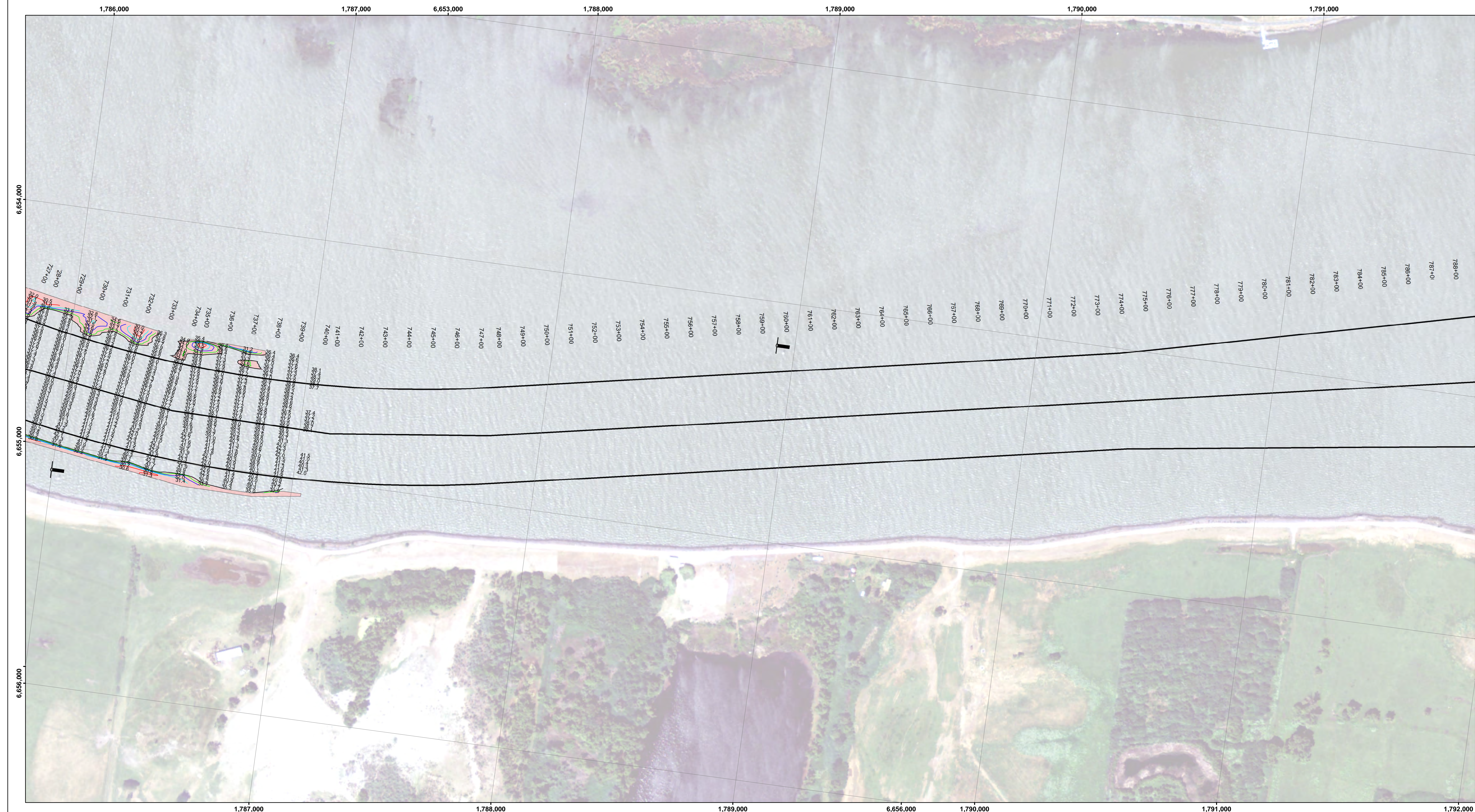
LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4887
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0438)
 TIDE GAUGE:
 Nail @ 10.0 FT MLLW
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 LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
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CALIFORNIA
 SAN JOAQUIN COUNTY
STOCKTON RIVER
 POST-DREDGE SURVEY
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Sheet Reference Number
13 of 39



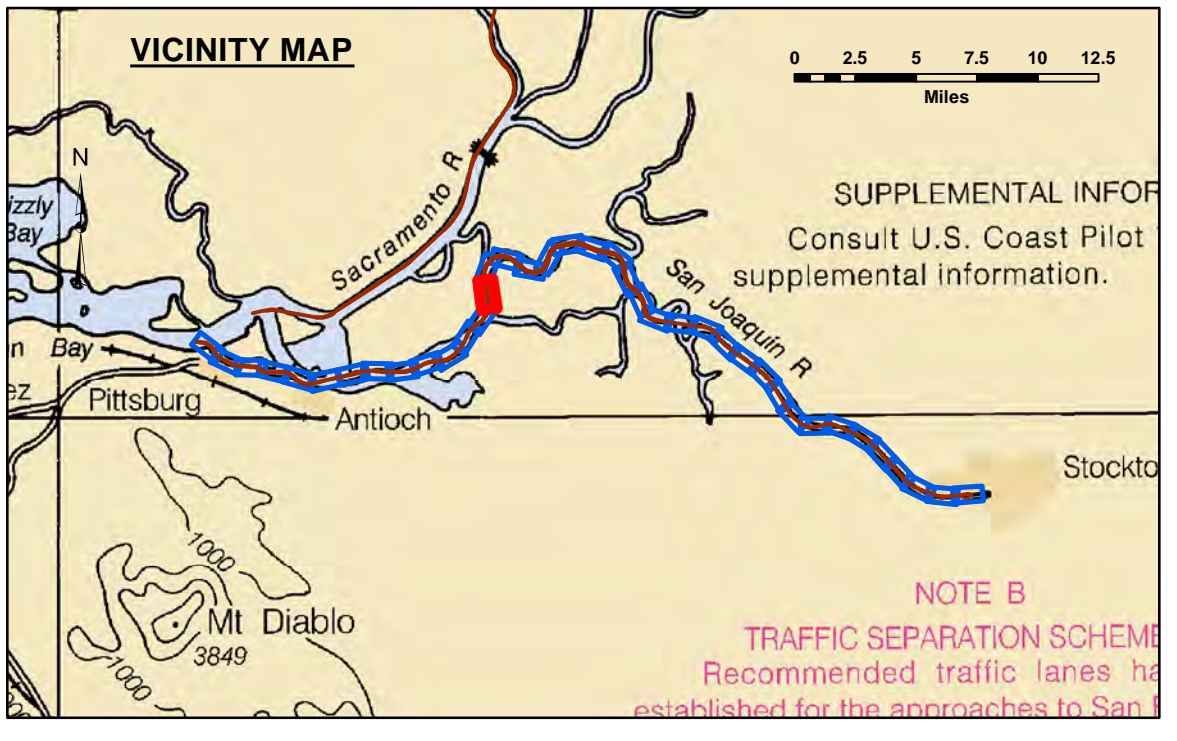
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Designed by:	PDT
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Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT

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



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

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

NOTES:
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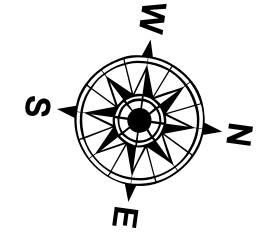
PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW

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CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
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 LONG: 121 48 56.7074 W

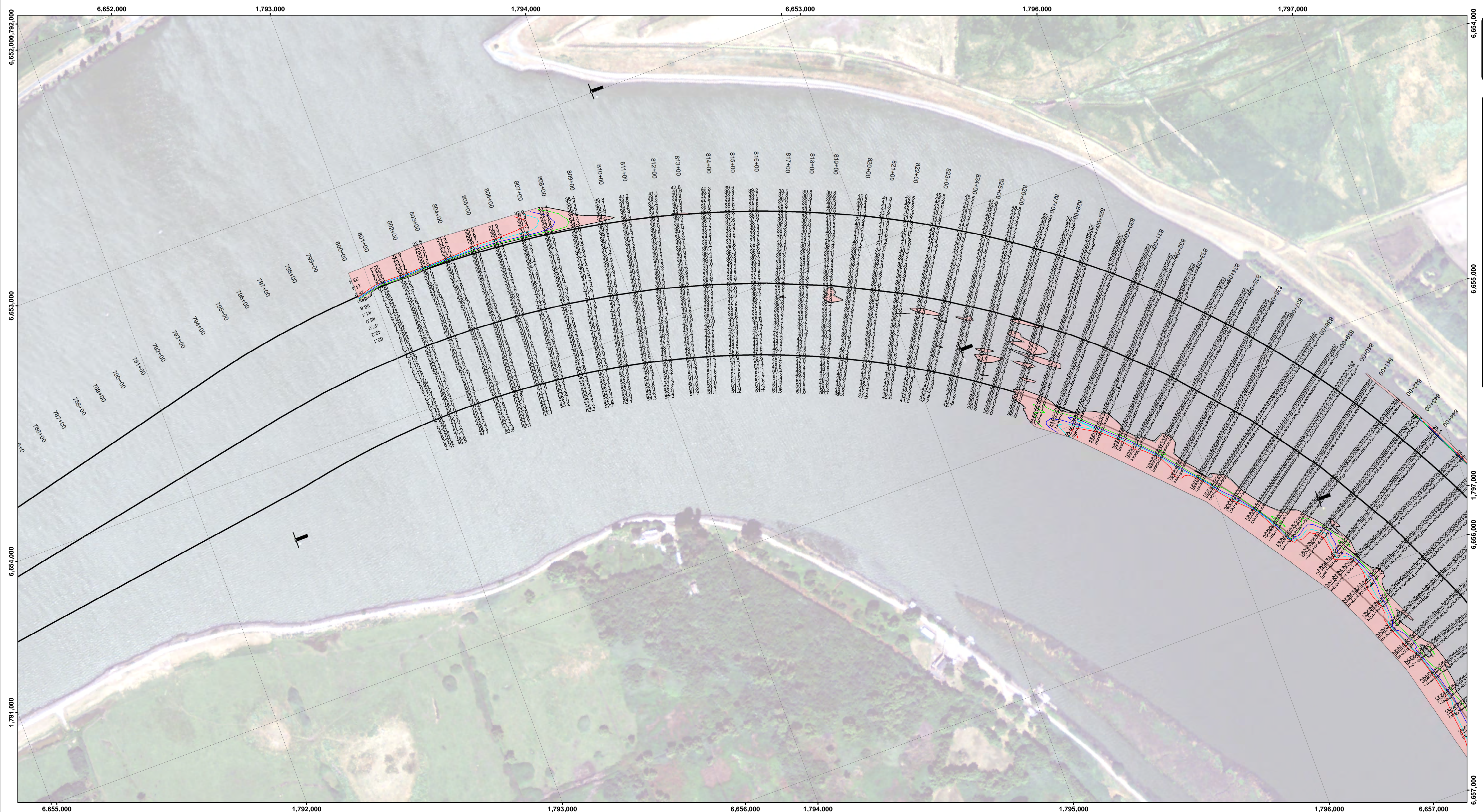
LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 Nail @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
 DAY MARKER 27 = 9.0 FT MLLW
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CALIFORNIA
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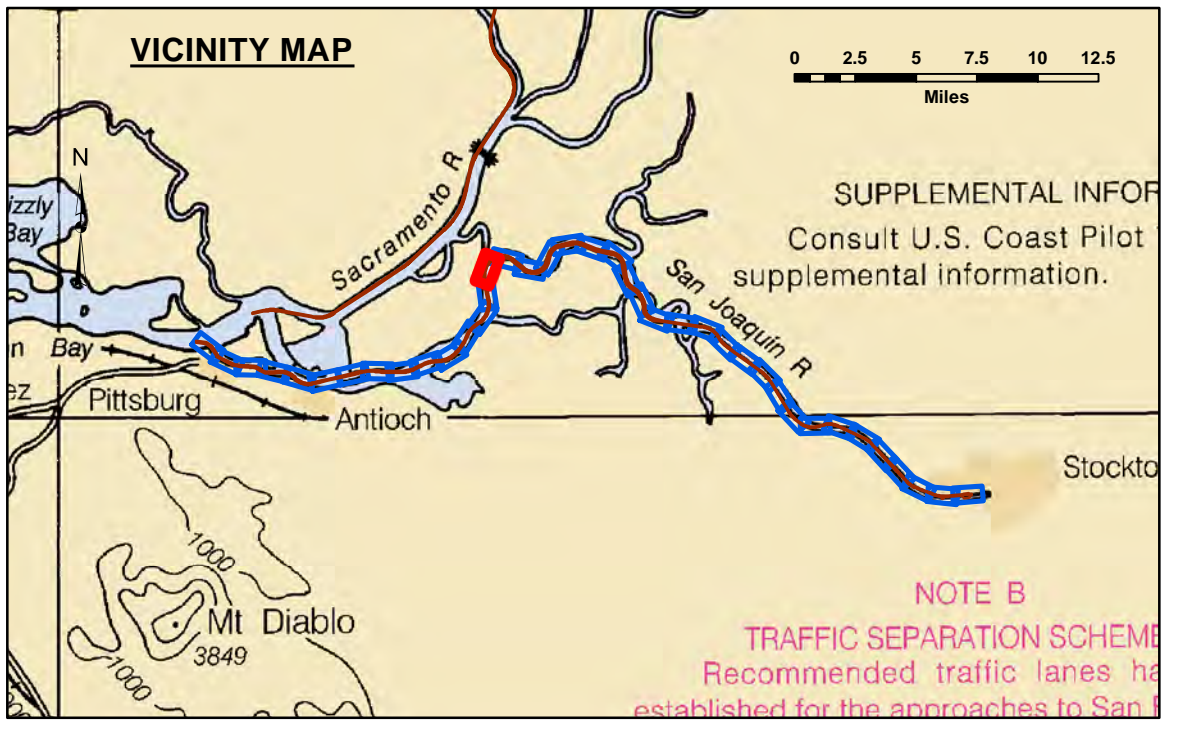
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JOHN D. CUNNINGHAM
 LT. COLONEL, C.E. DISTRICT ENGINEER

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



0 400 800 1,200 Feet

LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— 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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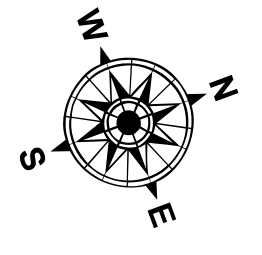
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 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
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 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

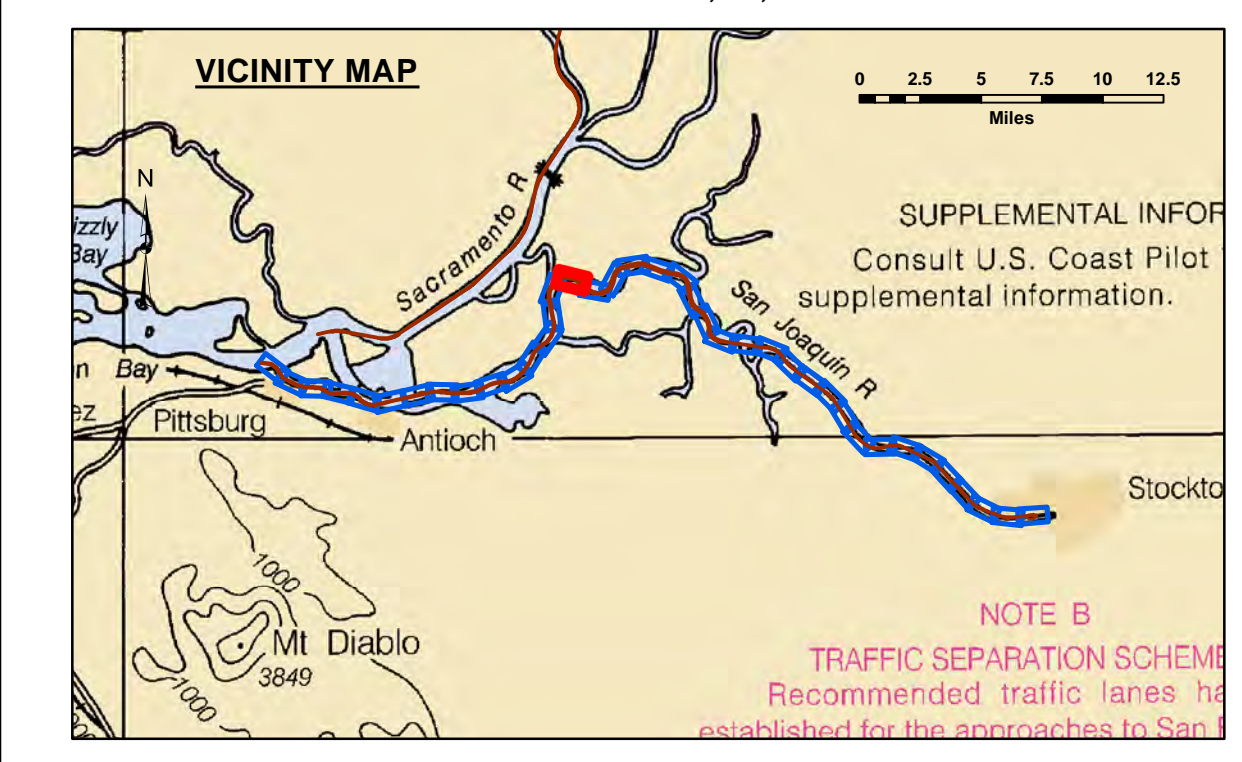
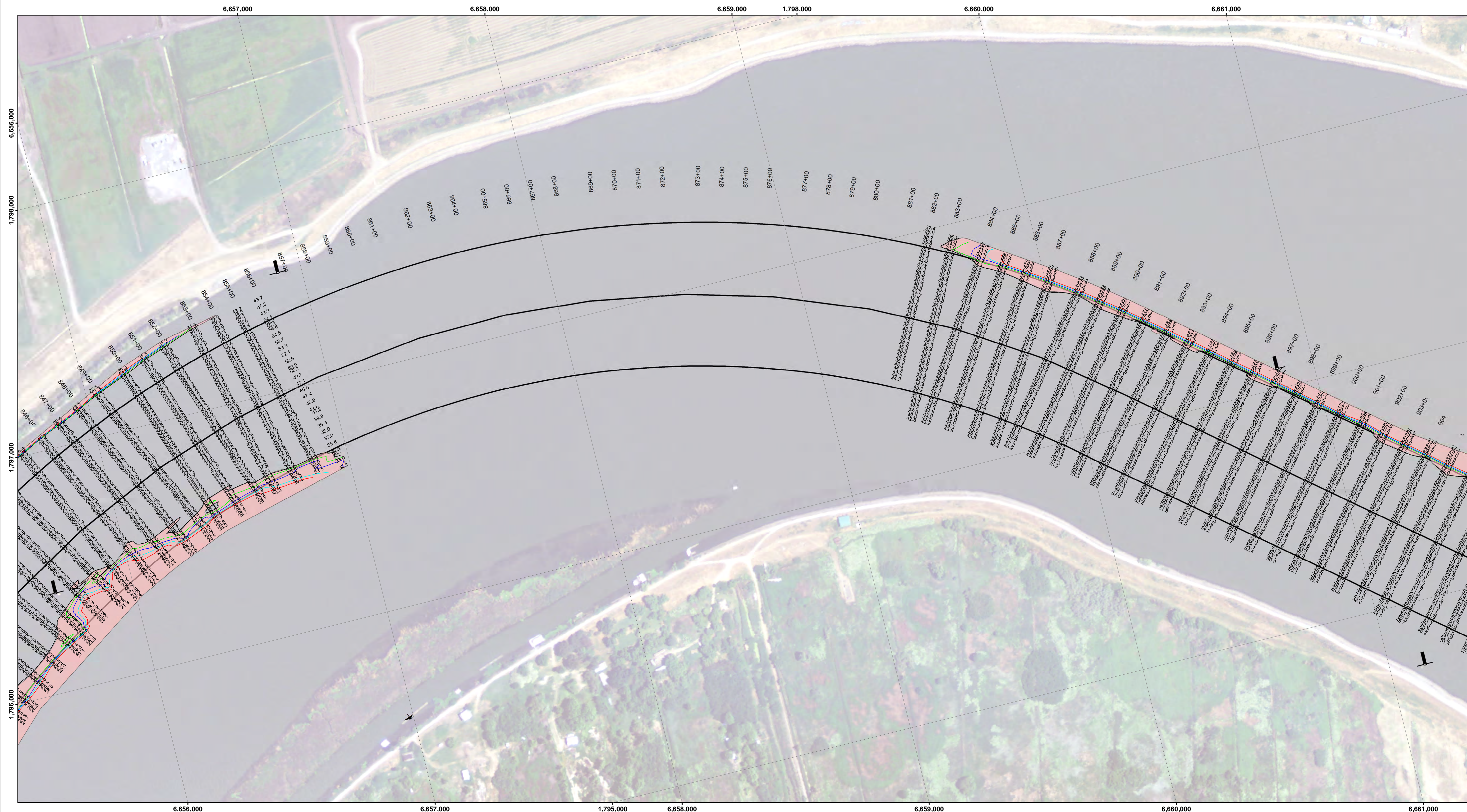
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 DAY MARKER 19 = 9.2 FT MLLW
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 PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
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 SAN JOAQUIN COUNTY
STOCKTON RIVER
 POST-DREDGE SURVEY
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Sheet
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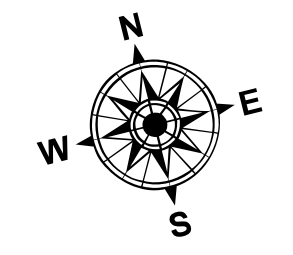
LEGEND			
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -35
⋯ Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General	— -34
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BENCHMARK: 5064-F (No PID)
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LAT. 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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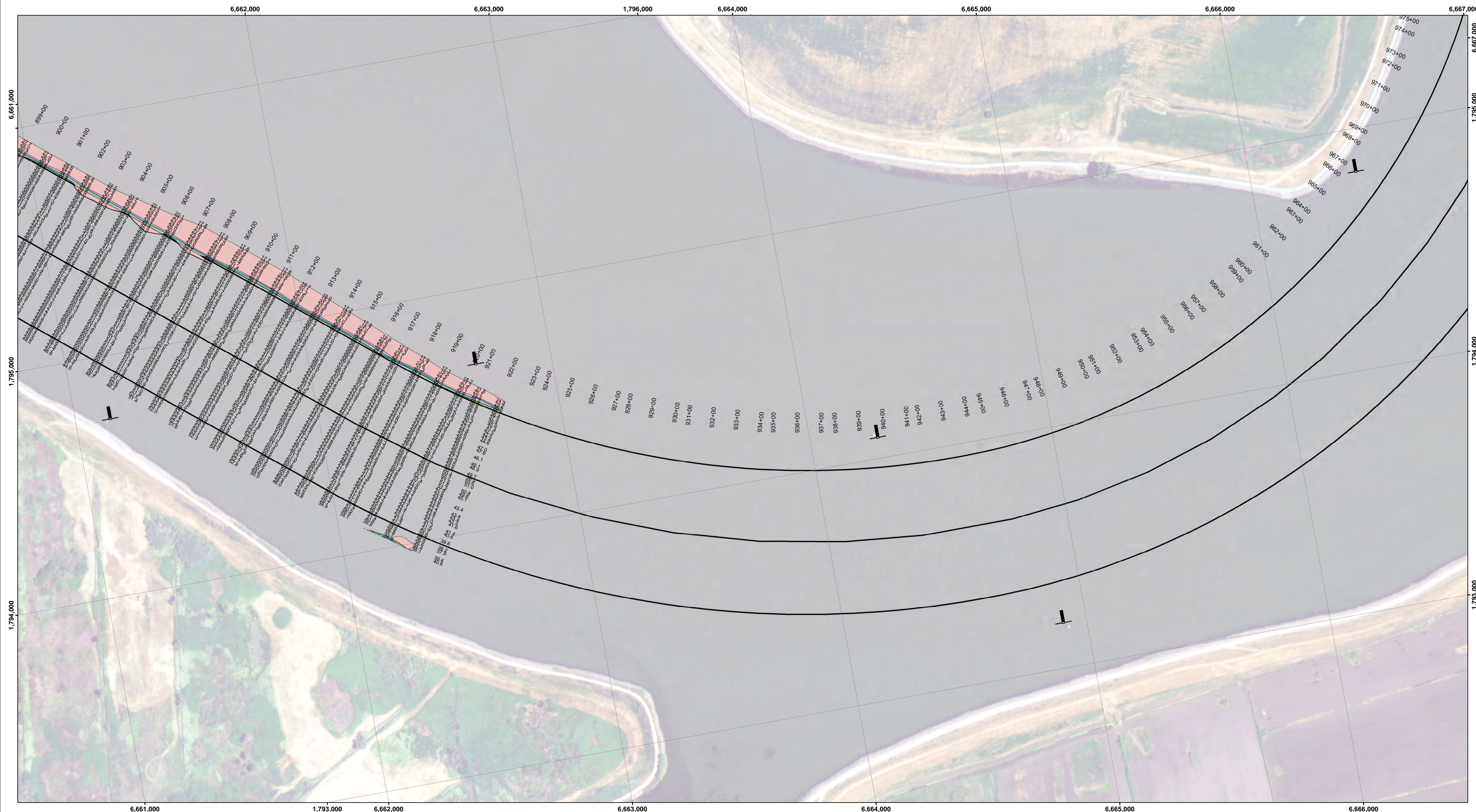
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Chart Date:	Jan 14, 2020
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Designed By:	PDT
Checked By:	PDT
Drawn By:	PDT

PREPARED UNDER THE DIRECTION OF
LT. COLONEL C.E. DISTRICT ENGINEER
Sounding: Hydro Survey Team Leader
Recommend: Chief, Hydro Survey Section
Approve: Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
POST-DREDGE SURVEY
1, 13 OCTOBER; 4, 7-8, 12, 15, 26 NOVEMBER;
AND 2, 16 DECEMBER 2019

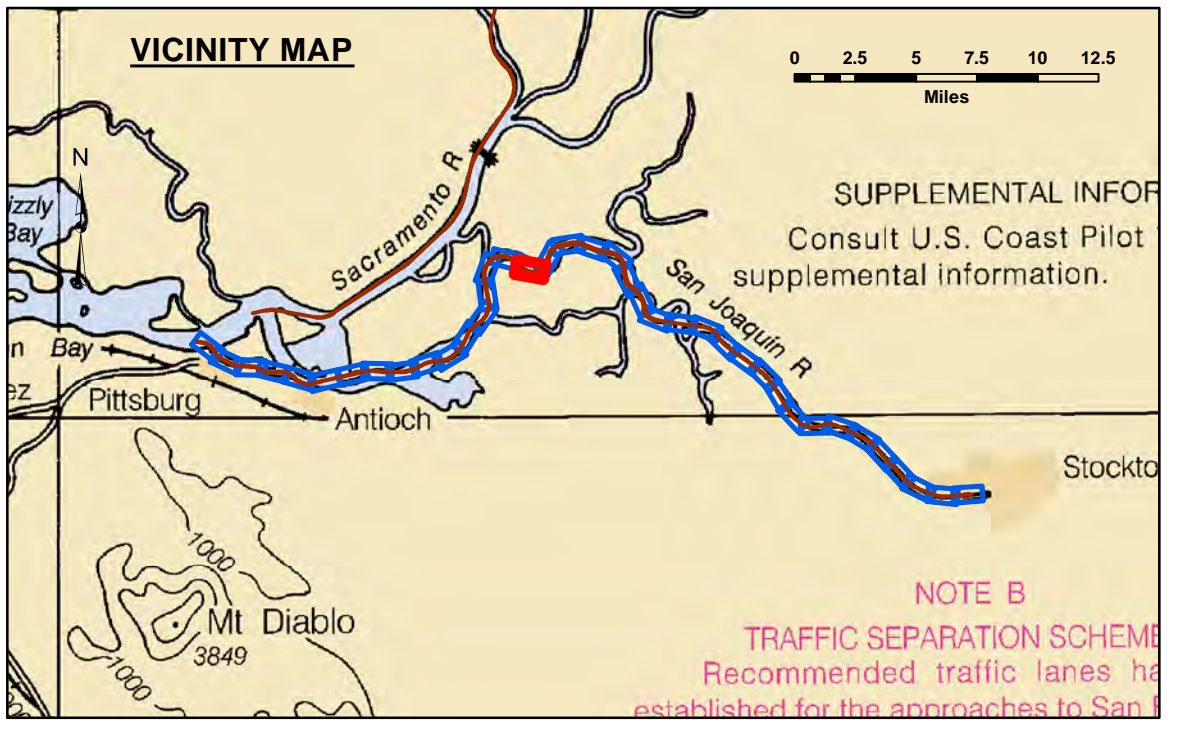
Sheet Reference Number
16 of 39



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Chart Date:	Jan 14, 2020
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Designed By:	PDT
Checked By:	PDT
Drawn By:	PDT



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**		
	⬇ Beacon, General		
	◆ Red Navigation Buoy		
	◆ Green Navigation Buoy		
	■ Shoaling Area		

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.

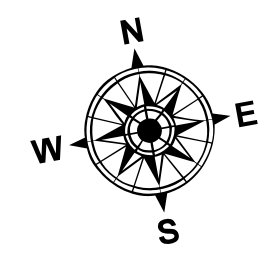
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

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

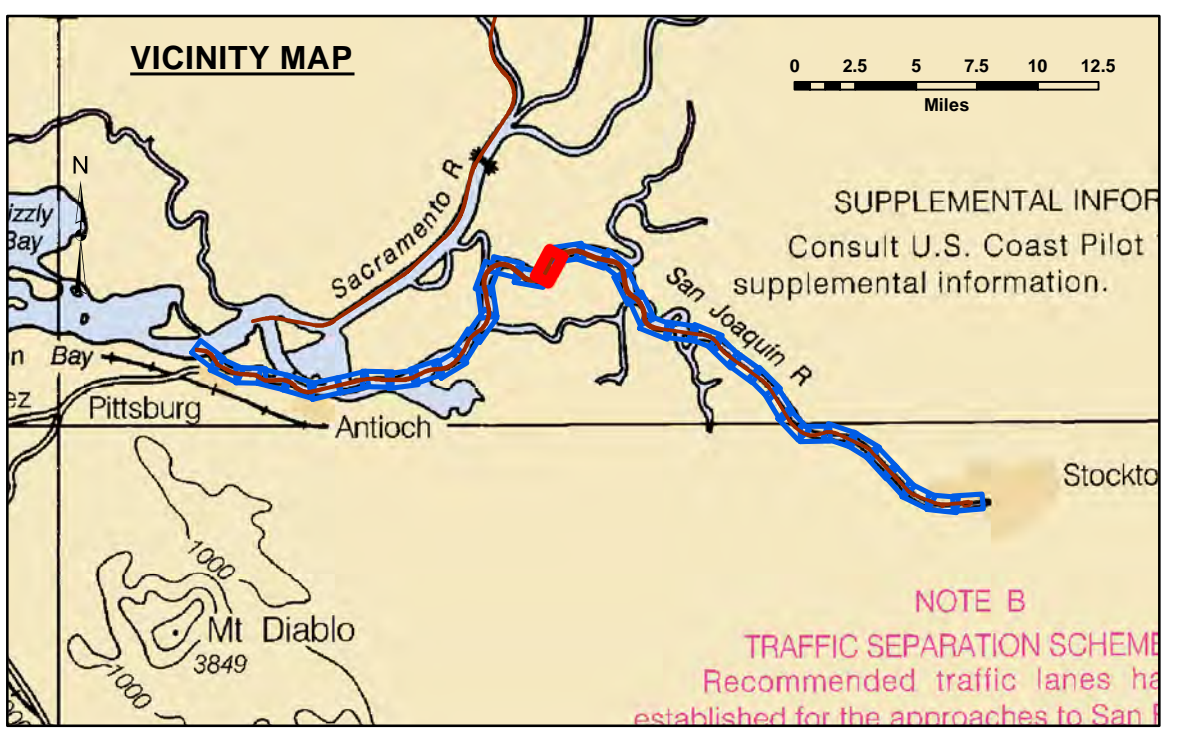
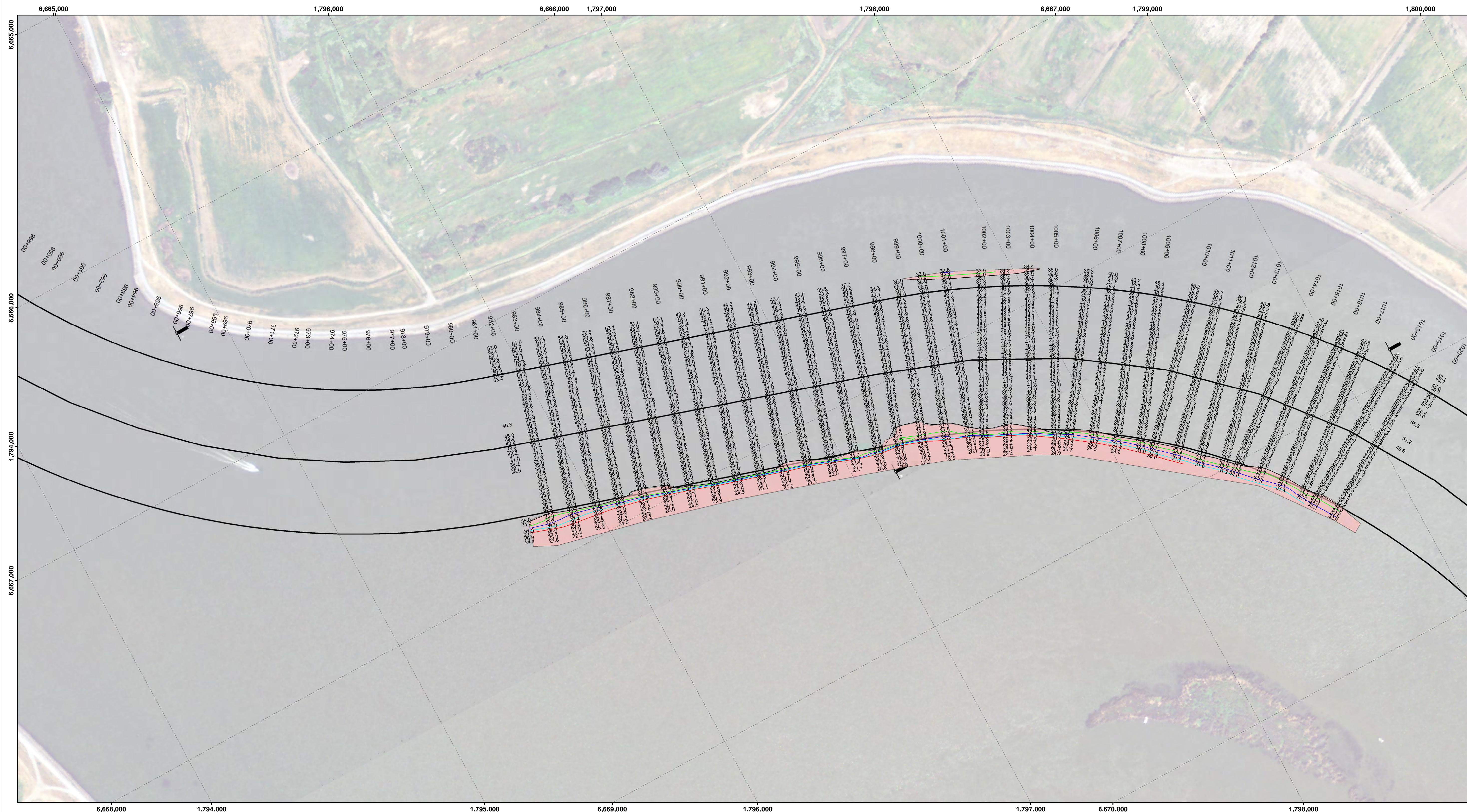
LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

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



CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
POST-DREDGE SURVEY
1, 13 OCTOBER; 4, 7-8, 12, 15, 26 NOVEMBER;
AND 2, 16 DECEMBER 2019

Sheet Reference Number
17 of 39



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

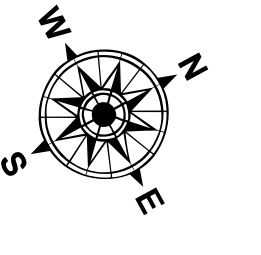
Contours	
—	-35
—	-34
—	-33
—	-32
—	-31

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

LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0438)
 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



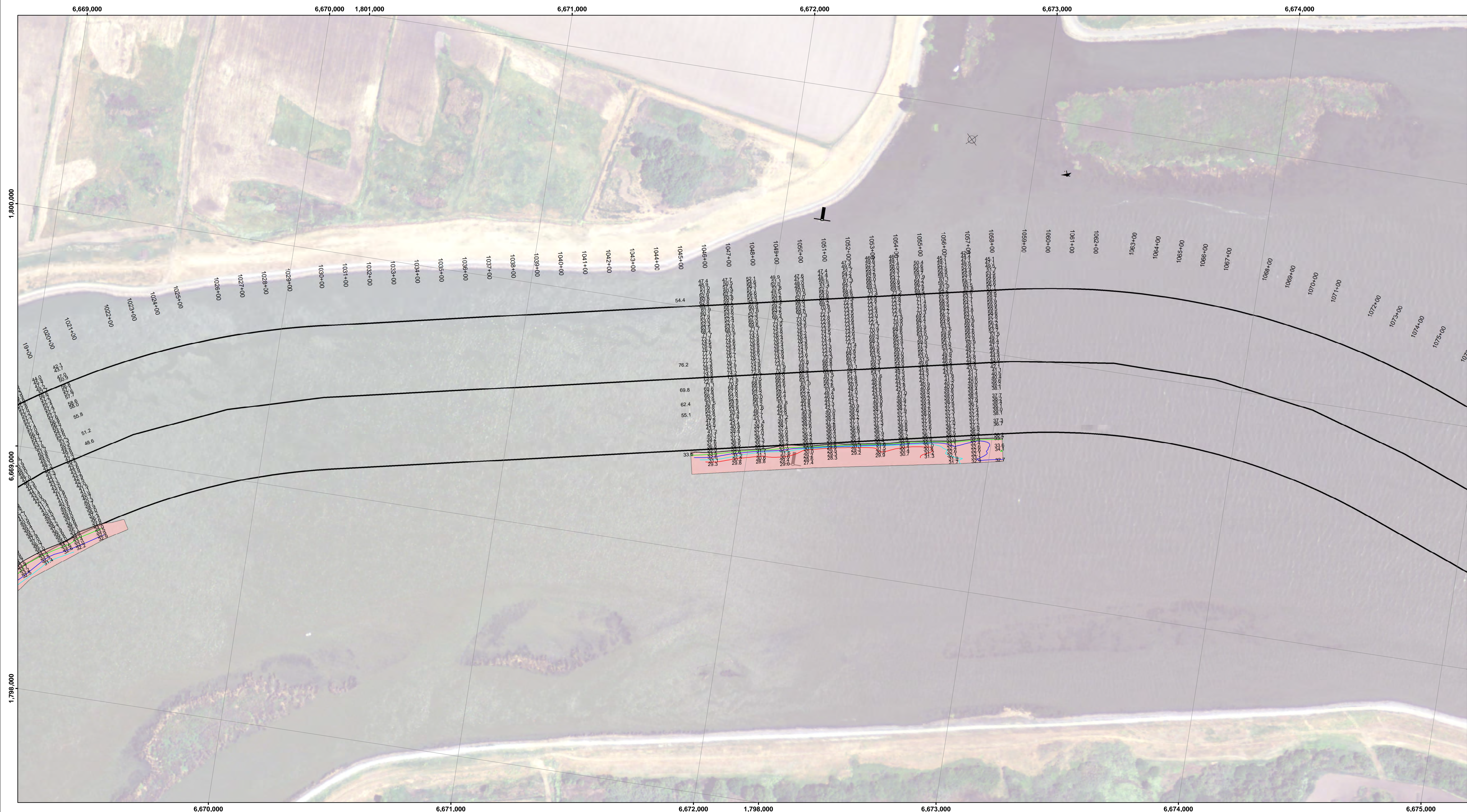
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Chart Date:	Jan 14, 2020
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT
Approved:	Chief, Construction Branch

CALIFORNIA
 SAN JOAQUIN COUNTY
STOCKTON RIVER
 POST-DREDGE SURVEY
 1, 13 OCTOBER; 4, 7-8, 12, 15, 26 NOVEMBER;
 AND 2, 16 DECEMBER 2019

Sheet Reference Number
18 of 39



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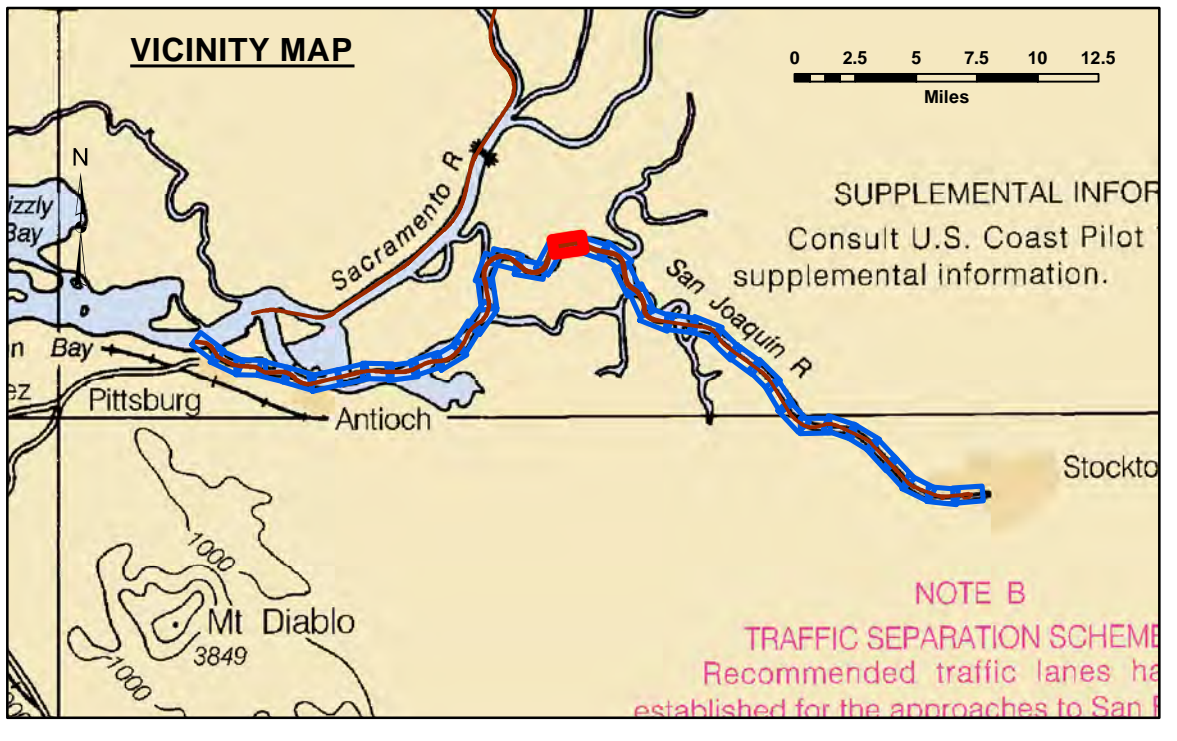
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Chart Date:	Jan 14, 2020
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Designed by:	PDT
Checked By:	PDT
Drawn By:	PDT

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



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

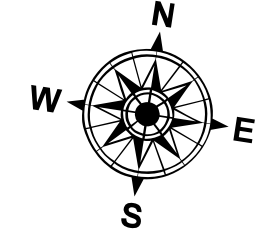
Contours	
—	-35
—	-34
—	-33
—	-32
—	-31

NOTES:
 DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY.
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 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

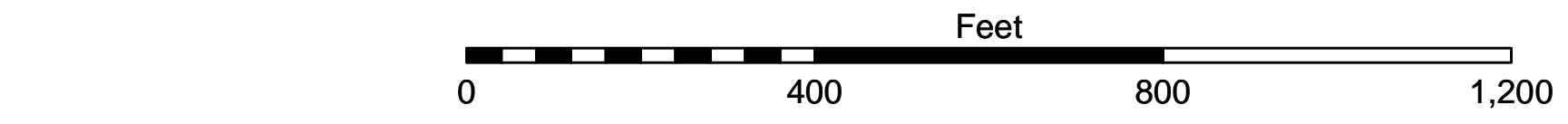
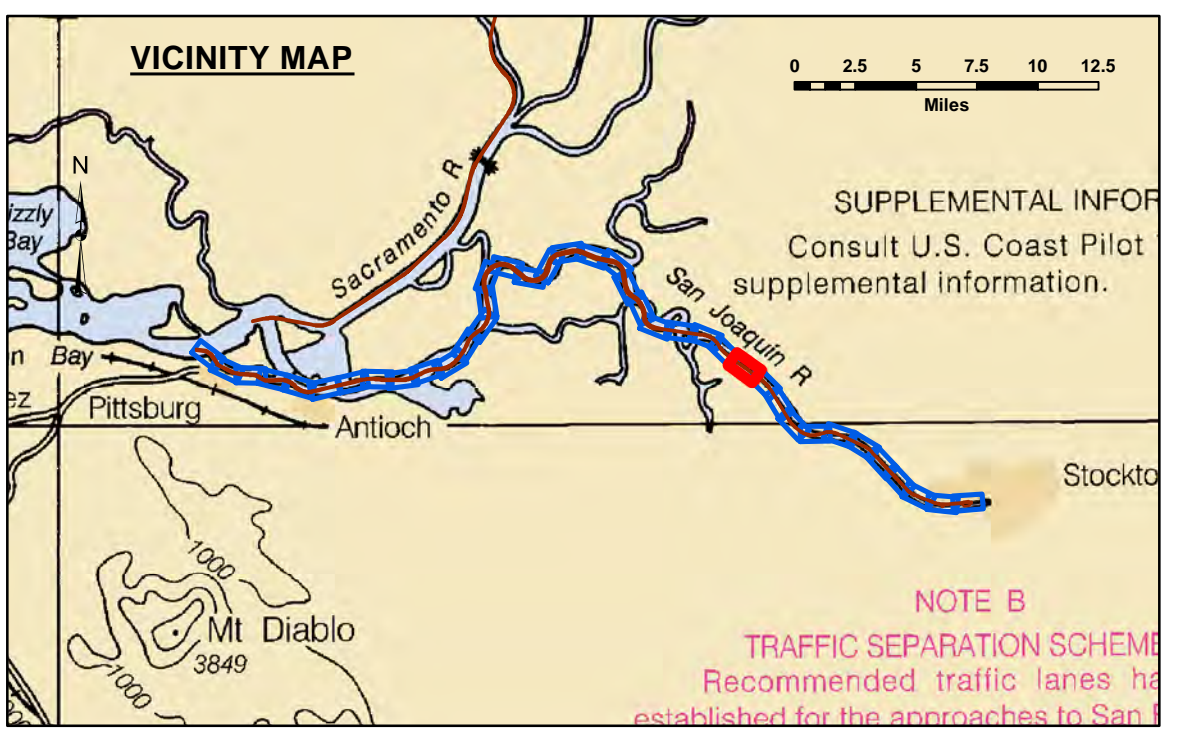
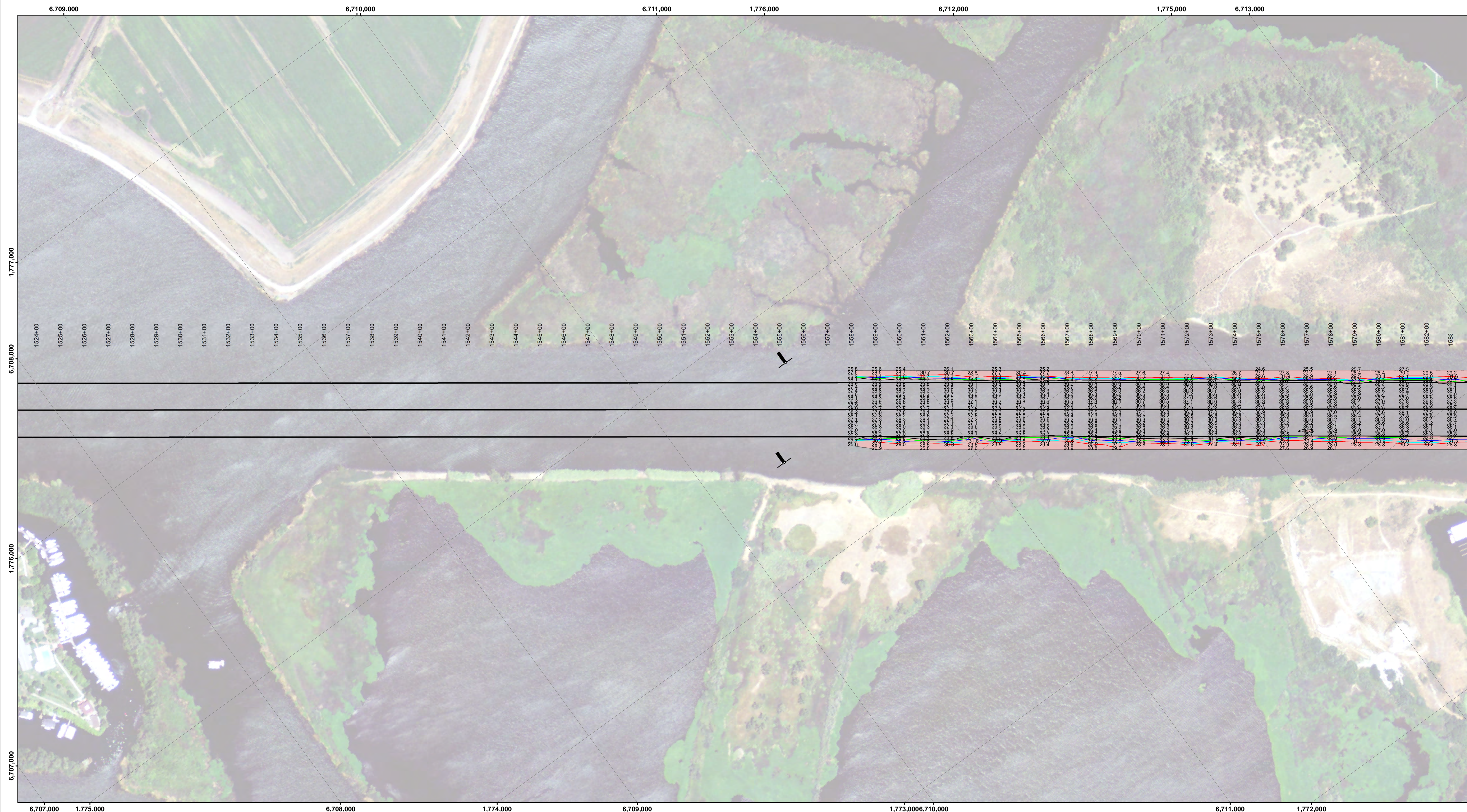
CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 NAIL @ 10.15 FT MLLW
 LAT: 38 01 6.939 N
 LONG: 121 48 56.7074 W



CALIFORNIA
 SAN JOAQUIN COUNTY

STOCKTON RIVER
 POST-DREDGE SURVEY
 1, 13 OCTOBER; 4, 7-8, 12, 15, 26 NOVEMBER;
 AND 2, 16 DECEMBER 2019

Sheet Reference Number
19 of 39



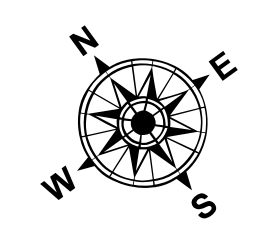
LEGEND			
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -35
..... Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	♦ Red Navigation Buoy	— -33
— Contour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

NOTES:
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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



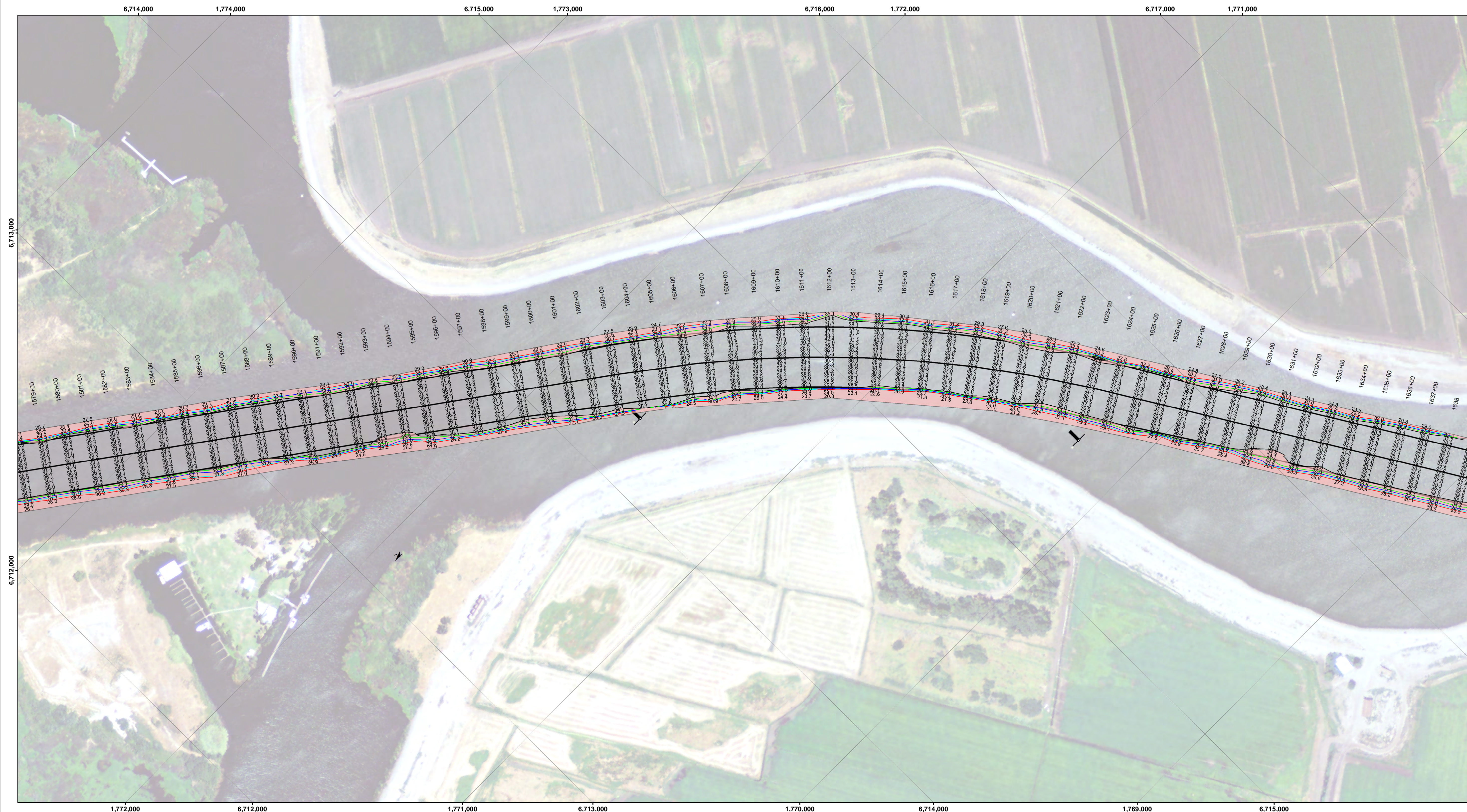
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Prepared Under the Direction of JOHN D. CUNNINGHAM LT. COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Jan 14, 2020
Submitted: Hydro Survey Team Leader	Surveyed By: PDT
Recommended: Chief, Hydro Survey Section	Plotted By: PDT
Approved: Chief, Construction Branch	Checked By: PDT
	Designed by: PDT
	Drawn by: PDT

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
POST-DREDGE SURVEY
1, 13 OCTOBER; 4, 7-8, 12, 15, 26 NOVEMBER;
AND 2, 16 DECEMBER 2019

Sheet Reference Number
28 of 39

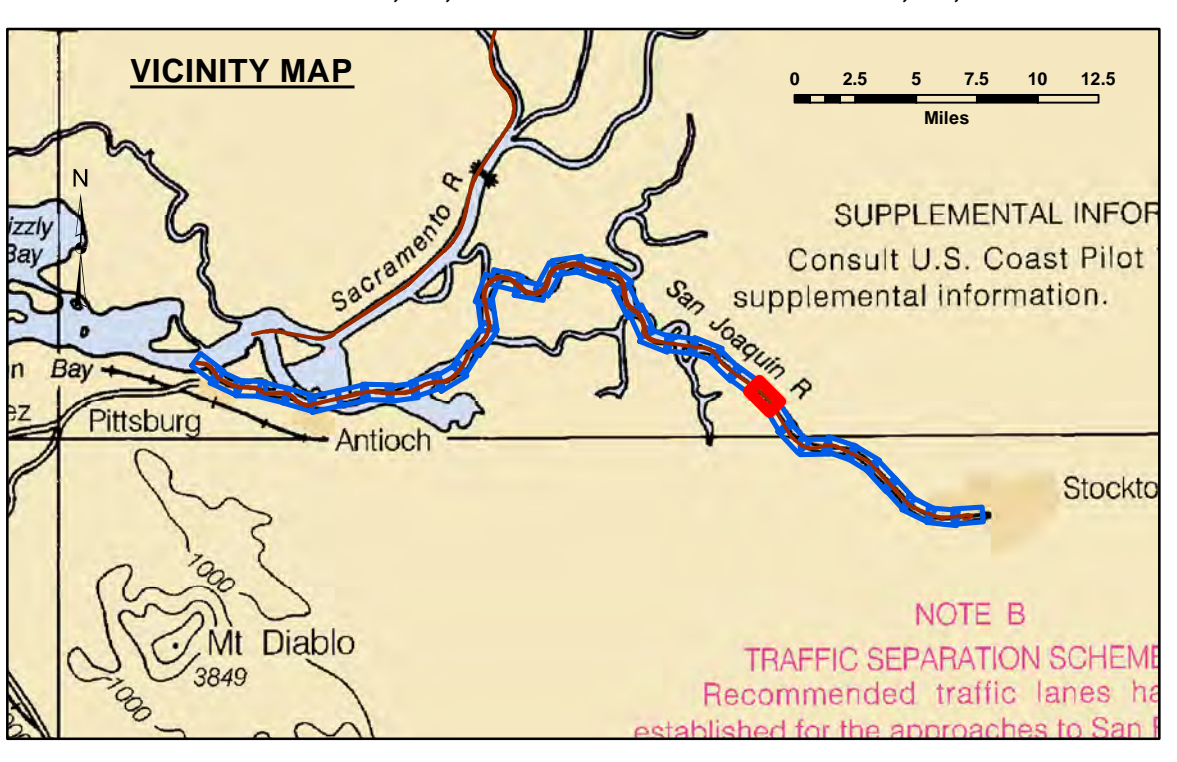


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Under no liability whatsoever to any person by reason of any use of the information and the data furnished. The United States shall be liable only for damages resulting from negligence of the United States Government provided data. The recipient may not transfer these data to others without first obtaining this Declaration.

Chart Date:	Jan 14, 2020
Surveyed By:	JOHN D. CUNNINGHAM
Designed By:	PDT
Plotted 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**
⬇ Beacon, General	◆ Red Navigation Buoy
◆ Green Navigation Buoy	

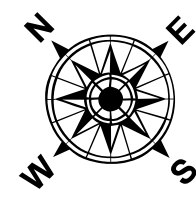
Contours	
—	-35
—	-34
—	-33
—	-32
—	-31

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 4887
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

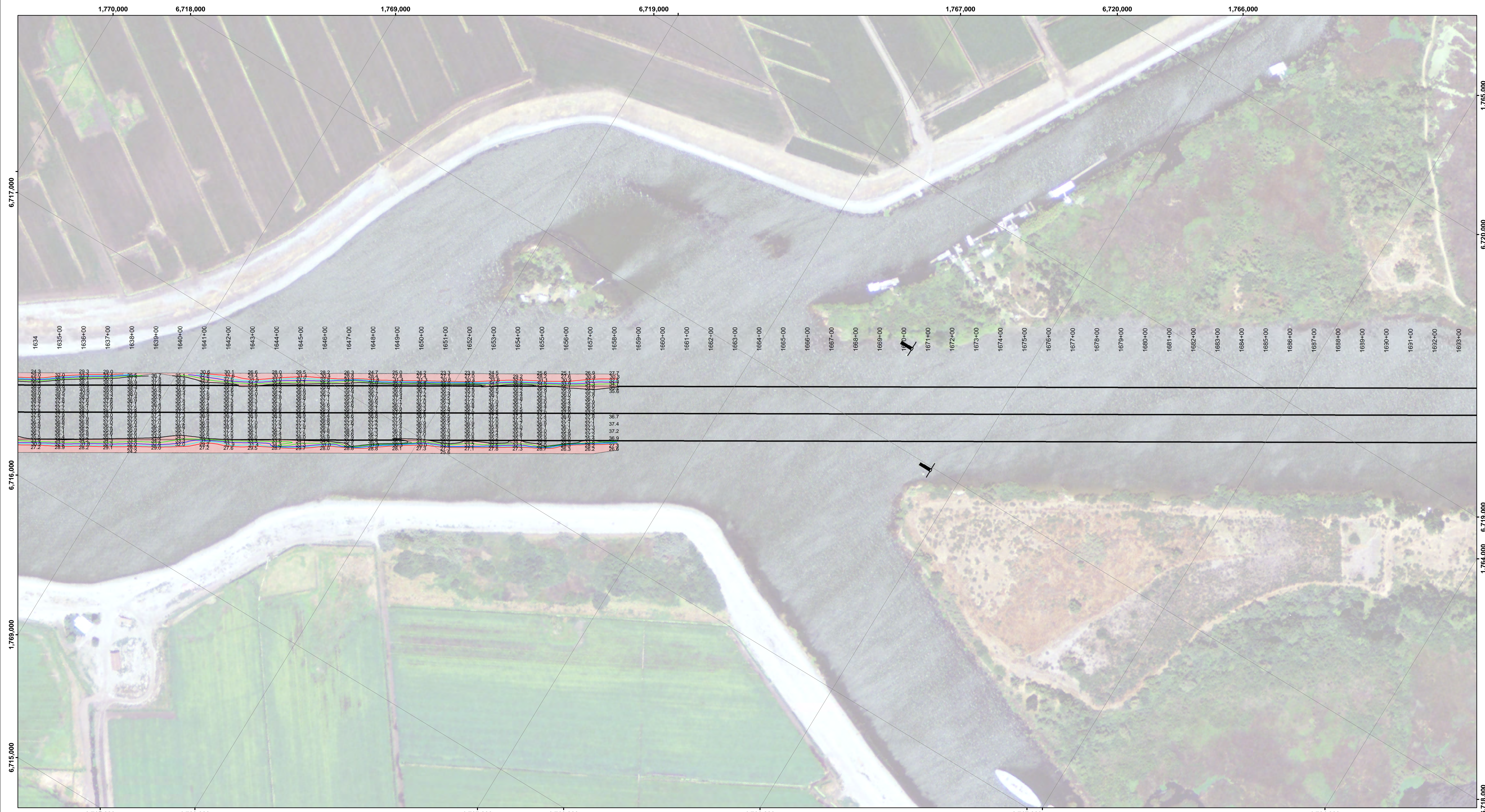
OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

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



CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
POST-DREDGE SURVEY
1, 13 OCTOBER; 4, 7-8, 12, 15, 26 NOVEMBER;
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Sheet Reference Number
29 of 39

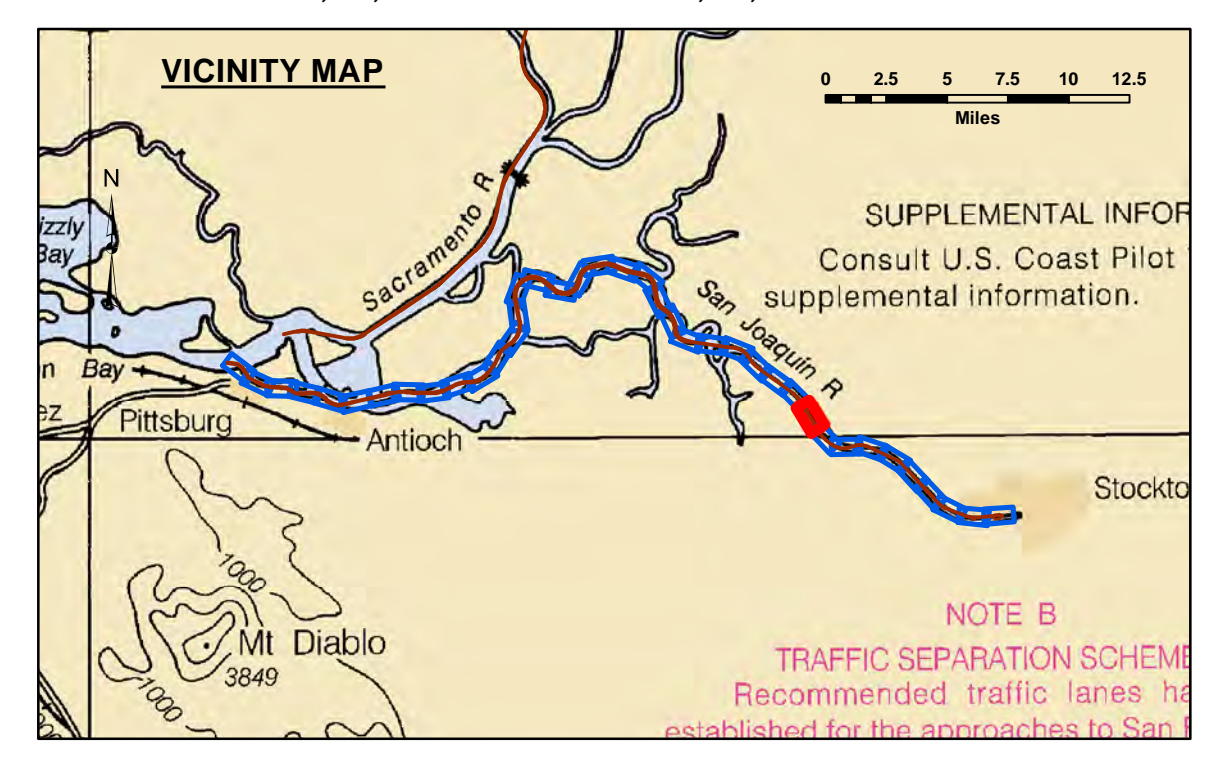


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Prepared Under the Direction of JOHN D. CUNNINGHAM LT Colonel, C.E. District Engineer	Chart Date: Jan 14, 2020
Subproject: Hydro Survey Team Leader	Designed by: _____
Recommended: Chief, Hydro Survey Section	Plotted by: PDT
Approved: Chief, Construction Branch	Checked by: PDT
	Drawn by: PDT

CALIFORNIA
STOCKTON RIVER
 POST-DREDGE SURVEY
 1, 13 OCTOBER; 4, 7-8, 12, 15, 26 NOVEMBER;
 AND 2, 16 DECEMBER 2019

Sheet Reference Number
30 of 39



Feet
 0 400 800 1,200

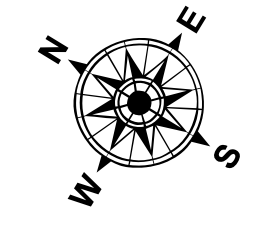
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -35
..... Cable Submarine	▭ Anchorage Area	⊥ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	♦ Red Navigation Buoy	— -33
— Contour Line	✦ Wrecks-Submerged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

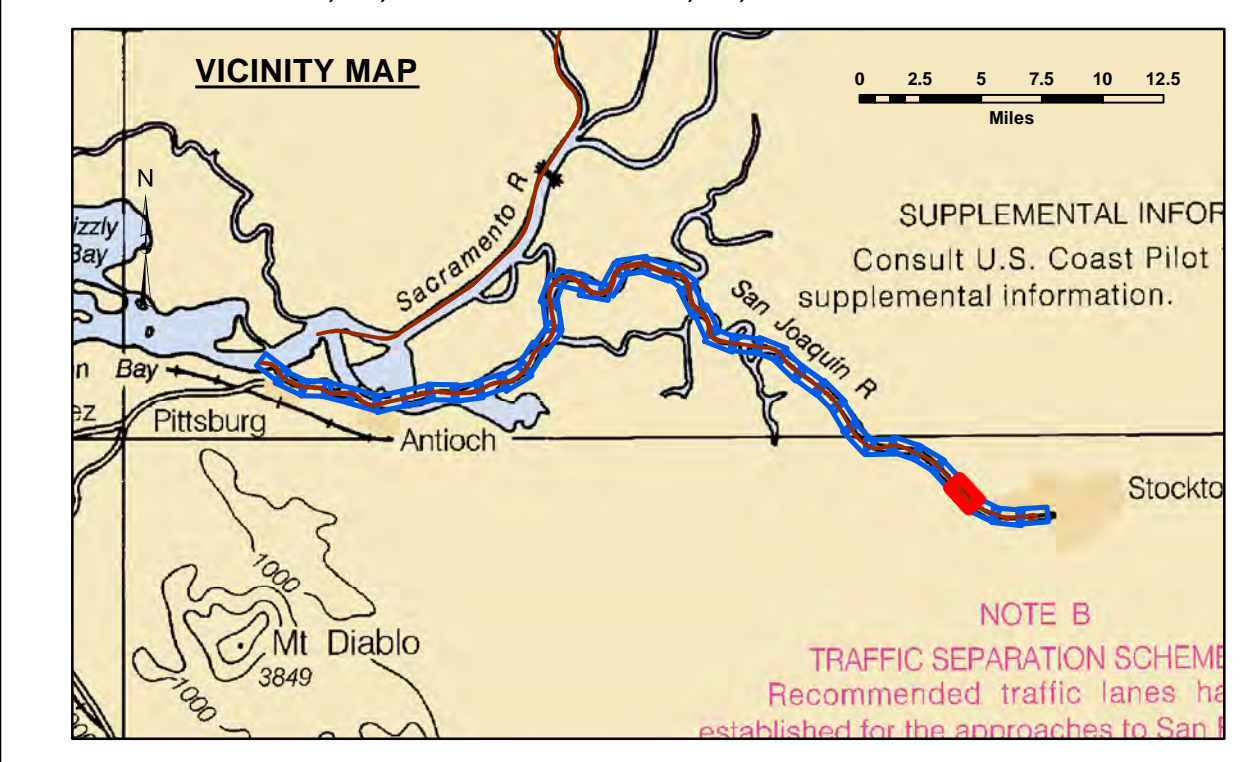
NOTES:
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 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

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

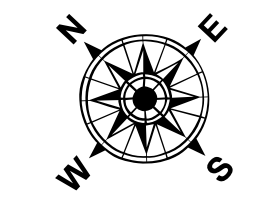
LEGEND			
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -35
..... Cable Submarine	▭ Anchorage Area	⊥ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	♦ Red Navigation Buoy	— -33
— Contour 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

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4887
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



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Chart Date:	Jan 14, 2020
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Checked By:	PDT
Approved:	Chief, Hydro Survey Section
Approved:	Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
POST-DREDGE SURVEY
1, 13 OCTOBER; 4, 7-8, 12, 15, 26 NOVEMBER;
AND 2, 16 DECEMBER 2019

Sheet Reference Number
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