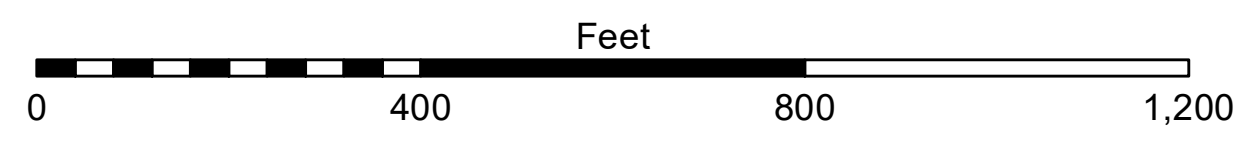
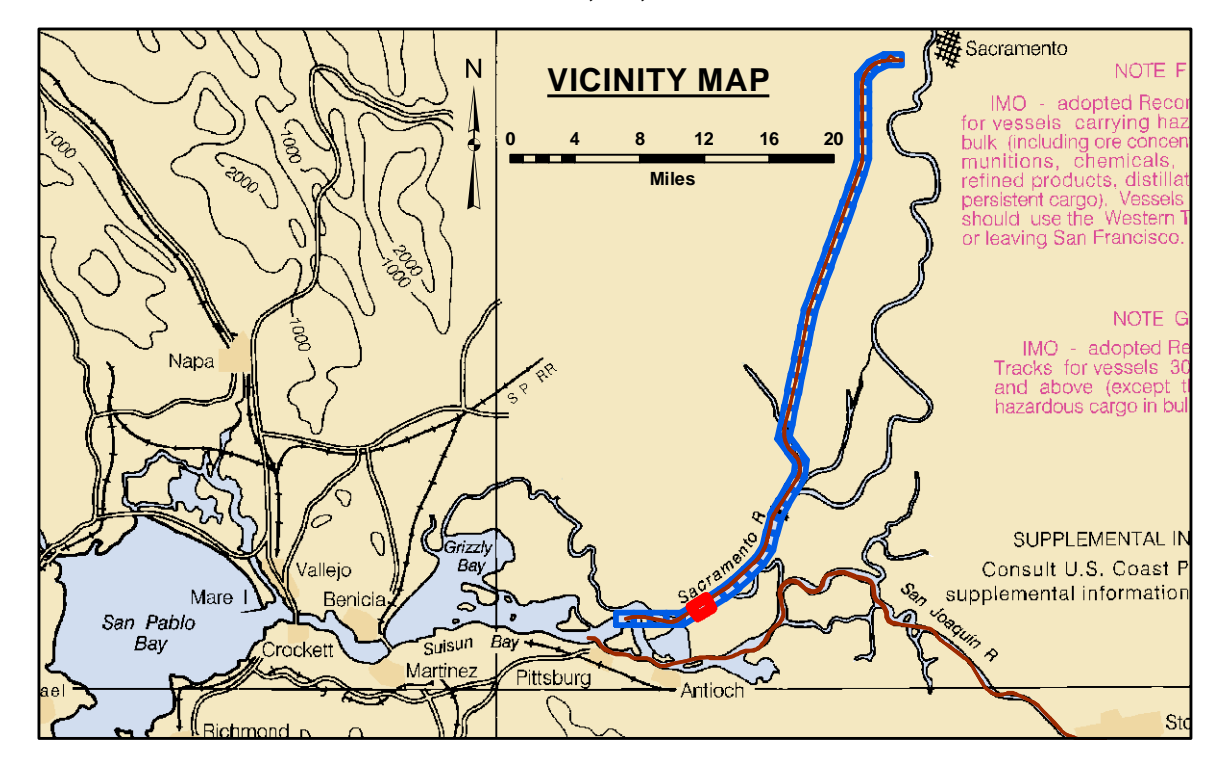


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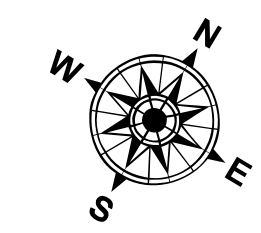
Chart Date:	Nov 08, 2022
Designed by:	
Drawn by:	PDT
Surveyed By:	
Plotted By:	PDT
Checked By:	PDT
Approved:	
Chief, Construction Branch	

CALIFORNIA  
 SAN JOAQUIN COUNTY  
**SACRAMENTO RIVER**  
 POST-DREDGE SURVEY  
 16, 26 AUGUST, 01 SEPTEMBER  
 22, 24 & 28 OCTOBER 2022

Sheet Reference Number  
**6 of 45**



LEGEND		Shoaling Area	Contours
--- Federal Navigation Channel	▨ Cable Area	● Shoalest Sounding within Channel Quarter**	— -30
— Federal Navigation Center Line	□ Placement Area	⬇ Beacon, General	— -29
⋯ Cable Submarine	▨ Anchorage Area	⬆ Red Navigation Buoy	— -28
- - - Cable Overhead	⊗ Obstruction Point	⬆ Green Navigation Buoy	— -27
— Contour Line	✈ Wrecks-Submerged		— -26



**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.

NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CA ZONE II (0402). DISTANCE UNITS IN U.S. SURVEY FEET.

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: -30'

VERTICAL DATUM: MLLW

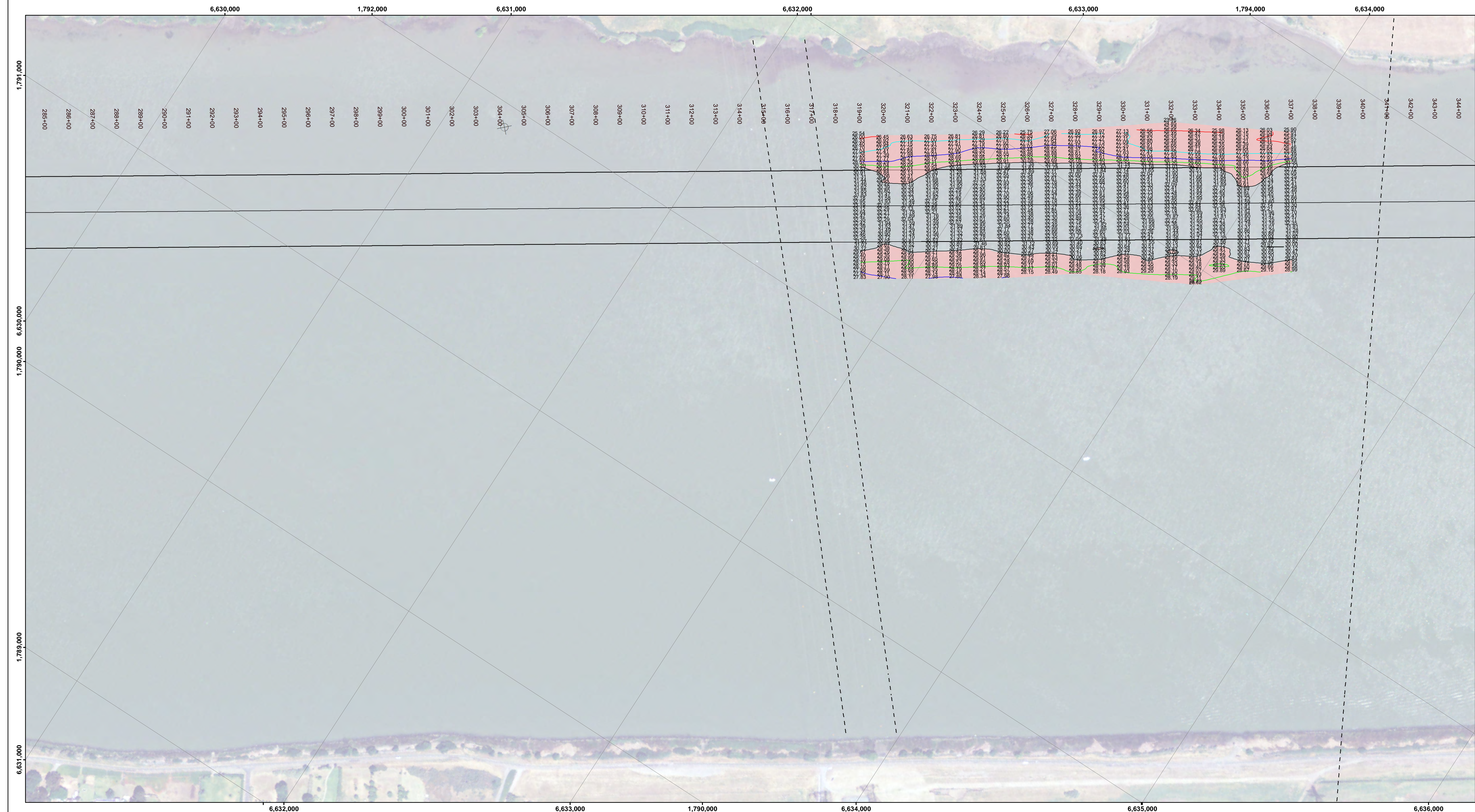
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

**CONTROLS:**  
 LOCATION: RIO VISTA  
 NOAA STATION: 9415316  
 BENCHMARK: 5316 & 1985 (NO PID)  
 TIDE GAUGE: NAIL @ 8.2 FT MLLW  
 METADATA: NAIL SET BY USACE 31 MARCH, 2014

LOCATION: PORT OF WEST SACRAMENTO  
 NOAA STATION: 9416131  
 BENCHMARK: POWS1 (NO PID)  
 TIDE GAUGE: NAIL @ 10.0 FT MLLW  
 METADATA: NAIL SET BY USACE 8 APRIL, 2014

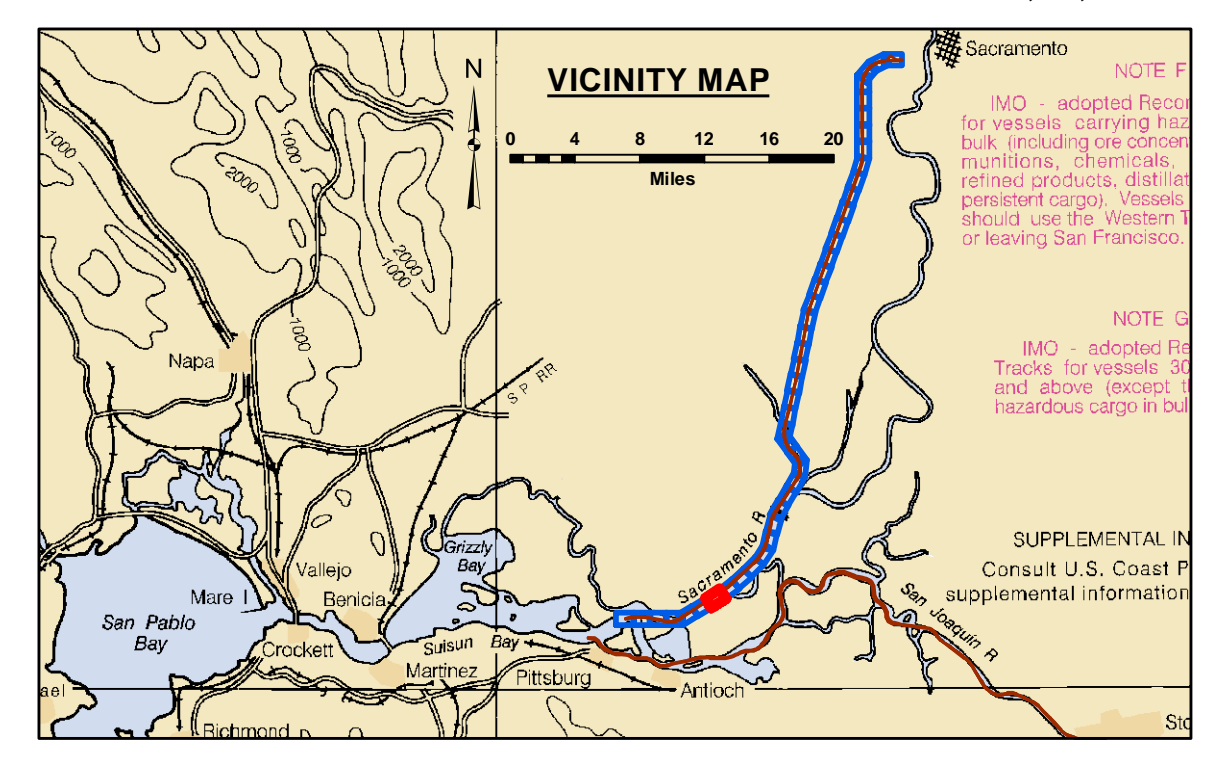
ALL HORIZONTAL POSITIONS AND MLLW ELEVATIONS WERE POST-PROCESSED USING PUBLIC GPS REFERENCE STATIONS IN THE AREA.

SURVEYS BY REACHES AND DATES:  
 R1 to R8 - 8/16, 10/22, 10/24, 10/28  
 R9 to R11 - 8/26, 9/1



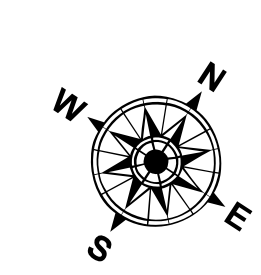
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Chart Date:	Nov 08, 2022
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Plotted by:	PDT
Surveyed By:	KEVIN P. ARNETT
Prepared Under the Direction of:	LT COLONEL C.E. DISTRICT ENGINEER
Staged:	Hydro Survey Team Leader
Recommended:	Chief, Hydro Survey Section
Approved:	Chief, Construction Branch



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**	-29
..... Cable Submarine	Anchorage Area	Beacon, General	-28
- - - Cable Overhead	Obstruction Point	Red Navigation Buoy	-27
— Contour Line	Wrecks-Submerged	Green Navigation Buoy	-26



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PROJECT DEPTH: -30'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

**CONTROLS:**  
 LOCATION: RIO VISTA  
 NOAA STATION: 9415316  
 BENCHMARK: 5316 B 1985 (NO PID)  
 TIDE GAUGE: NAIL @ 8.2 FT MLLW  
 METADATA: NAIL SET BY USACE 31 MARCH, 2014

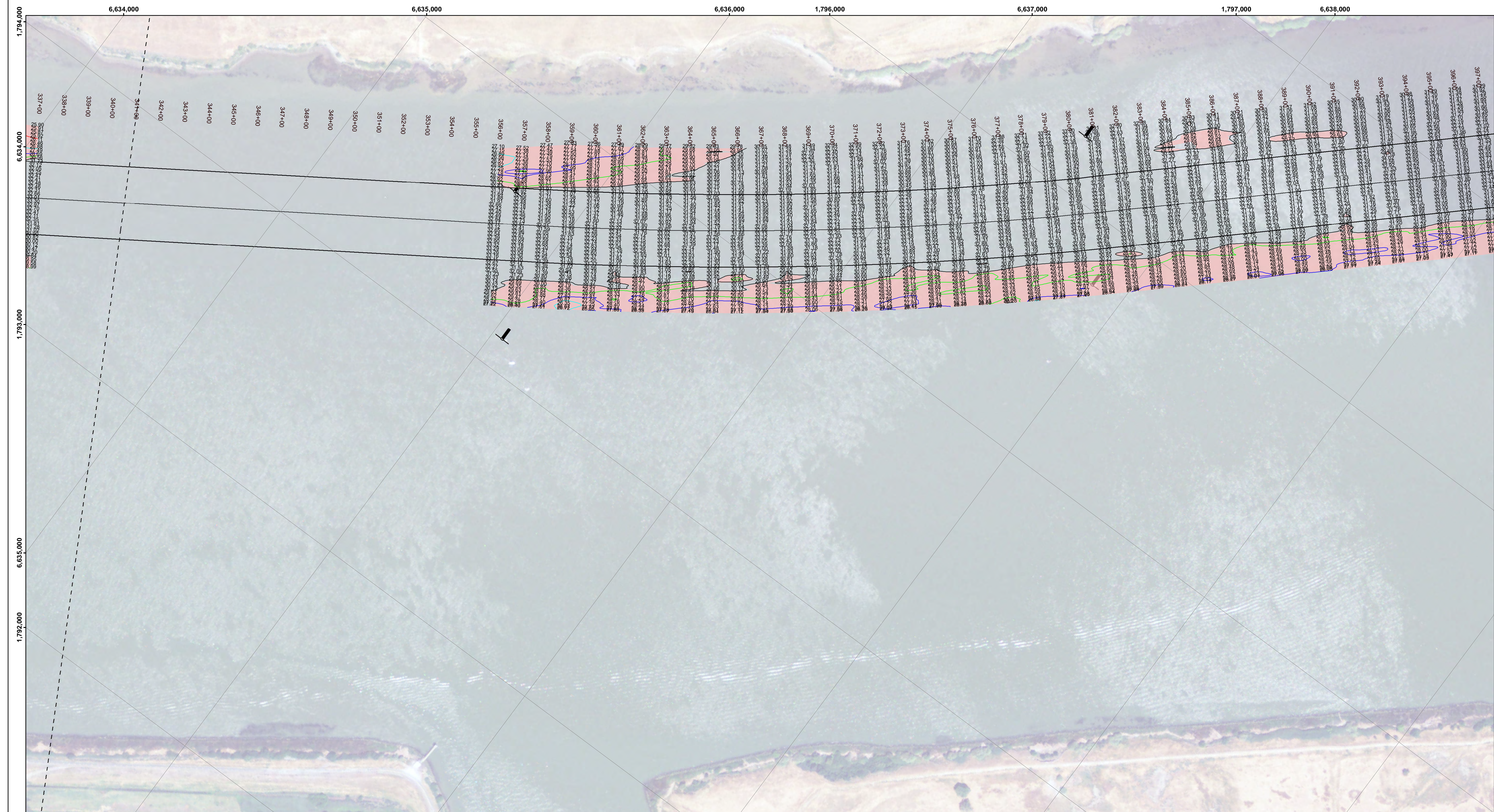
LOCATION: PORT OF WEST SACRAMENTO  
 NOAA STATION: 9416131  
 BENCHMARK: POWS1 (NO PID)  
 TIDE GAUGE: NAIL @ 10.0 FT MLLW  
 METADATA: NAIL SET BY USACE 8 APRIL, 2014

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SURVEYS BY REACHES AND DATES:  
 R1 to R8 - 8/16, 10/22, 10/24, 10/28  
 R9 to R11 - 8/26, 9/1

CALIFORNIA  
 SAN JOAQUIN COUNTY  
**SACRAMENTO RIVER**  
 POST-DREDGE SURVEY  
 16, 26 AUGUST, 01 SEPTEMBER  
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Sheet Reference Number  
**7 of 45**

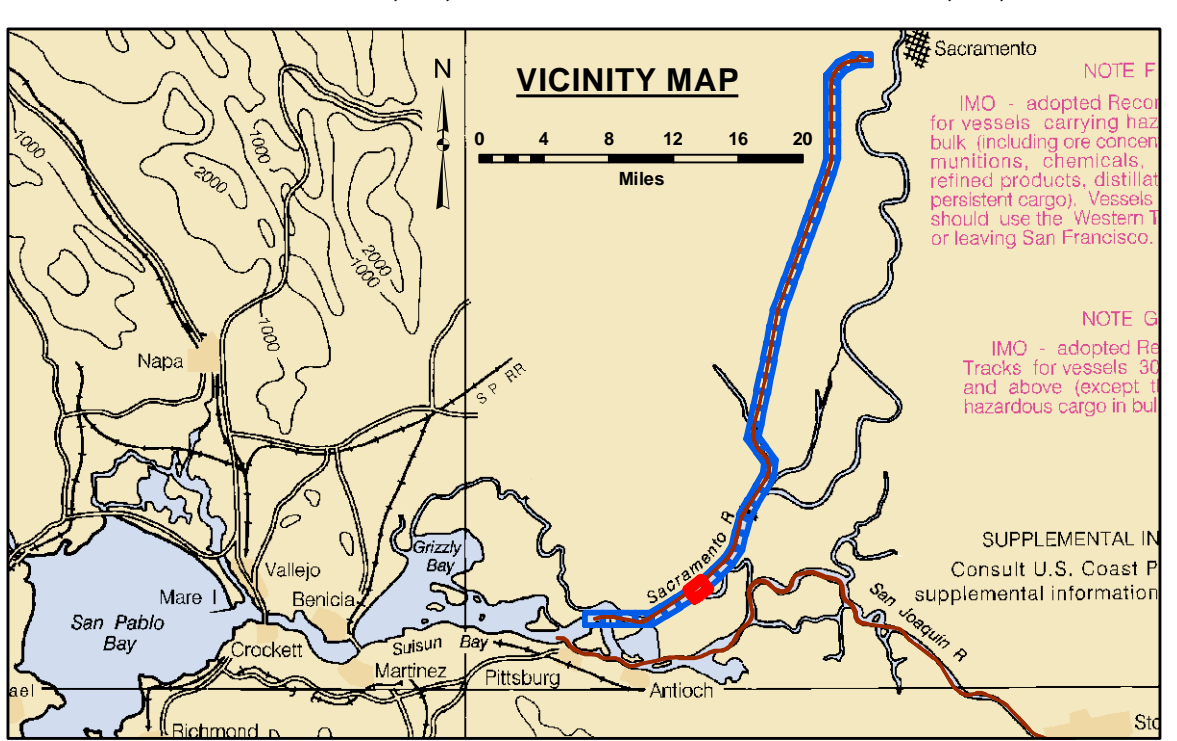


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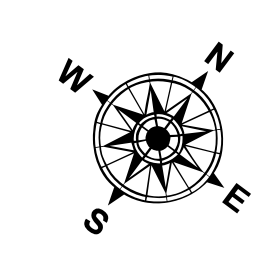
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Chart Date:	Nov 08, 2022
Designed by:	
Drawn by:	PDT
Surveyed By:	
Plotted By:	PDT
Checked By:	PDT
Approved:	
Chief, Construction Branch	
PREPARED UNDER THE DIRECTION OF	
KEVIN P. ARNETT	
LT COLONEL, C.E. DISTRICT ENGINEER	
Stationed:	Hydro Survey Team Leader
Recommended:	Chief, Hydro Survey Section
Approved:	



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**	— -30
..... Cable Submarine	▤ Anchorage Area	⊥ Beacon, General	— -29
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -28
— Contour Line	★ Wrecks-Submerged	◆ Green Navigation Buoy	— -27
			— -26



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NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CA ZONE II (0402). DISTANCE UNITS IN U.S. SURVEY FEET.

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PROJECT DEPTH: -30'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

**CONTROLS:**  
 LOCATION: RIO VISTA  
 NOAA STATION: 9415316  
 BENCHMARK: 5316 & 1995 (NO PID)  
 TIDE GAUGE: NAIL @ 8.2 FT MLLW  
 METADATA: NAIL SET BY USACE 31 MARCH, 2014

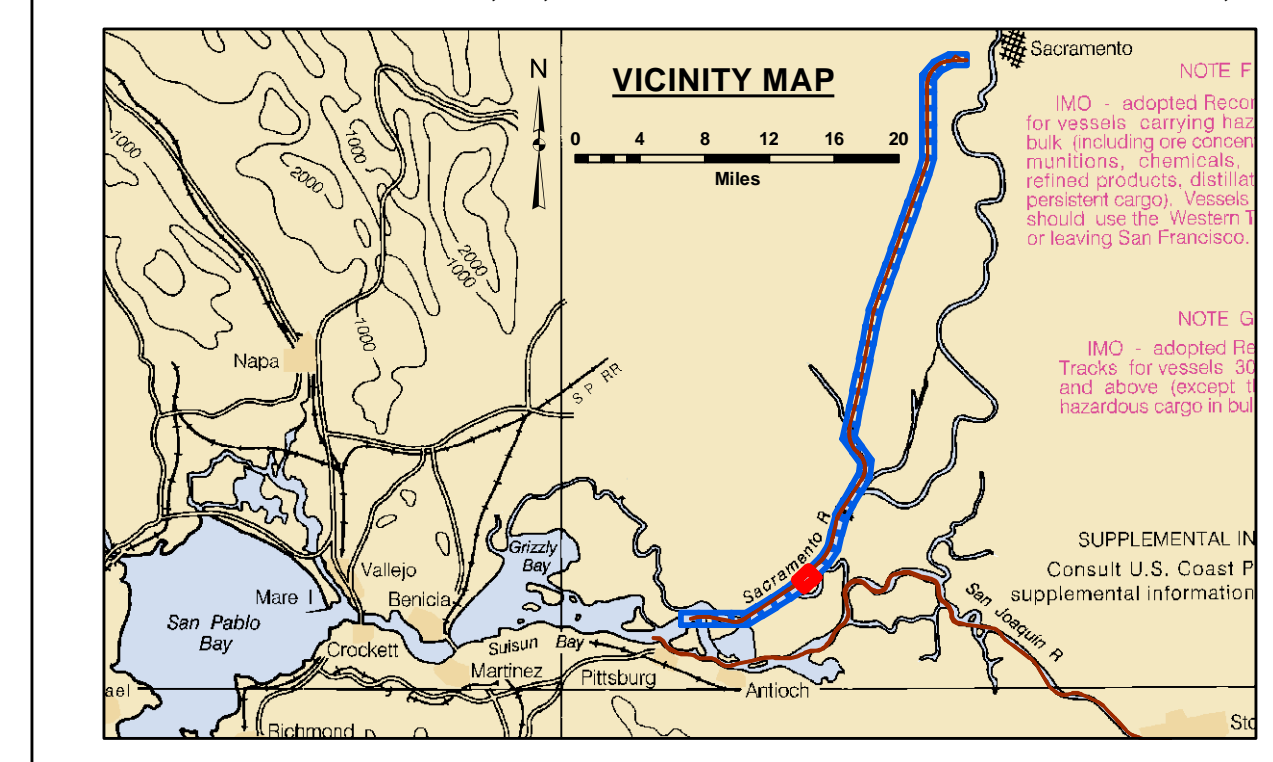
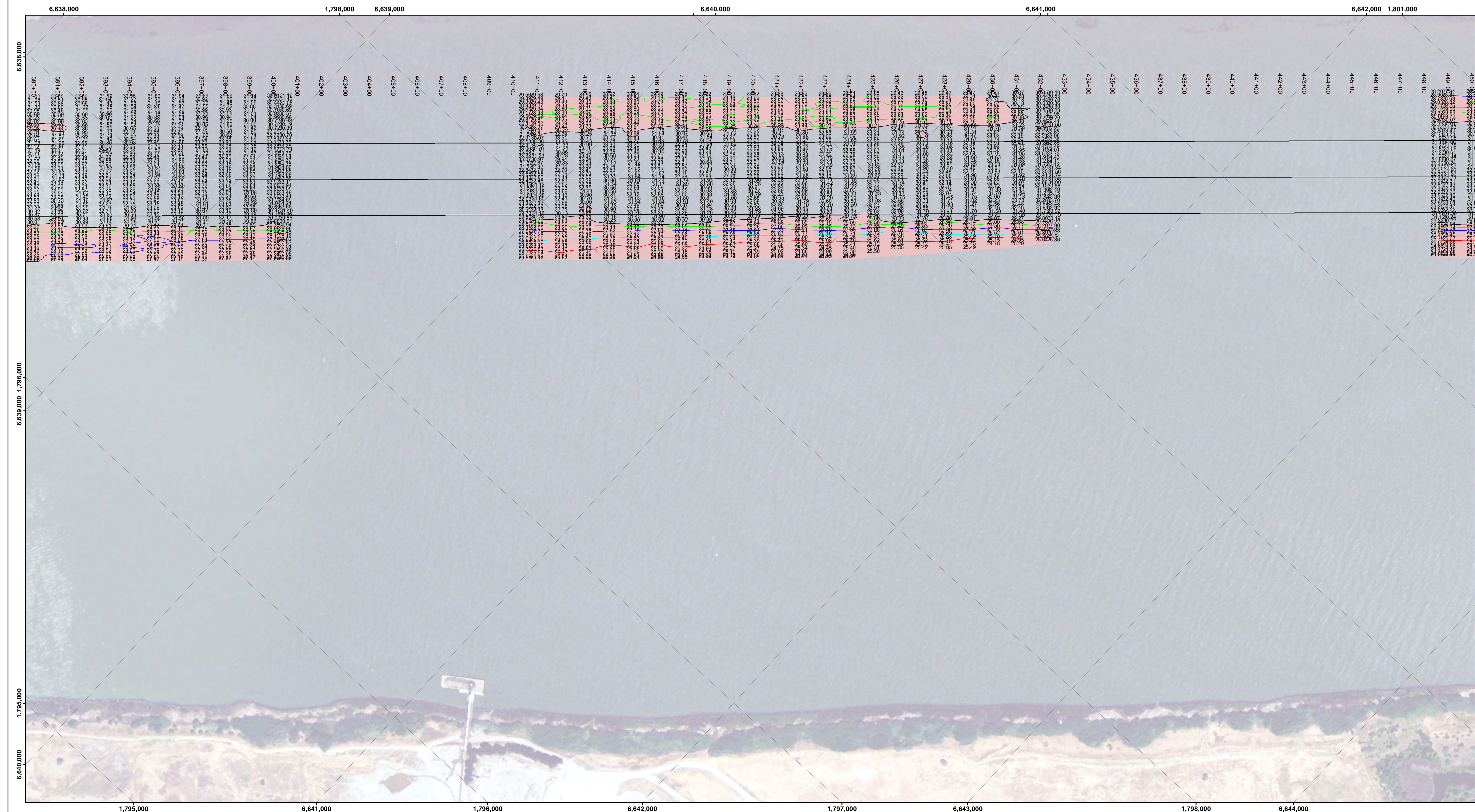
LOCATION: PORT OF WEST SACRAMENTO  
 NOAA STATION: 9416131  
 BENCHMARK: POWS1 (No PID)  
 TIDE GAUGE: NAIL @ 10.0 FT MLLW  
 METADATA: NAIL SET BY USACE 8 APRIL, 2014

ALL HORIZONTAL POSITIONS AND MLLW ELEVATIONS WERE POST-PROCESSED USING PUBLIC GPS REFERENCE STATIONS IN THE AREA.

SURVEYS BY REACHES AND DATES:  
 R1 to R8 - 8/16, 10/22, 10/24, 10/28  
 R9 to R11 - 8/26, 9/1

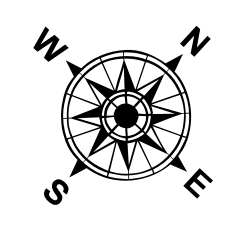
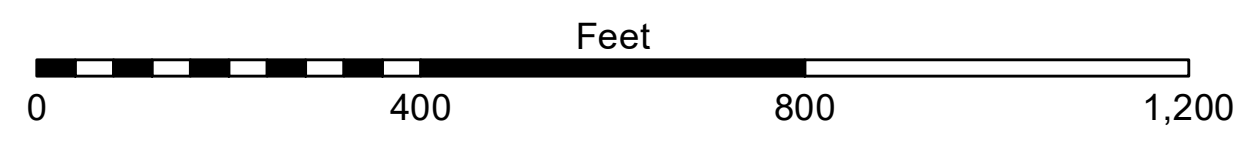
CALIFORNIA  
 SAN JOAQUIN COUNTY  
**SACRAMENTO RIVER**  
 POST-DREDGE SURVEY  
 16, 26 AUGUST, 01 SEPTEMBER  
 22, 24 & 28 OCTOBER 2022

Sheet Reference Number  
**8 of 45**



**LEGEND**

--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -30
..... Cable Submarine	▭ Anchorage Area	⊥ Beacon, General	— -29
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -28
— Contour Line	✈ Wrecks-Submerged	◆ Green Navigation Buoy	— -27
			— -26



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PROJECT DEPTH: -30'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

**CONTROLS:**  
LOCATION: RIO VISTA  
NOAA STATION: 9415316  
BENCHMARK: 5316 B 1985 (NO PID)  
TIDE GAUGE: NAIL @ 8.2 FT MLLW  
METADATA: NAIL SET BY USACE 31 MARCH, 2014

LOCATION: PORT OF WEST SACRAMENTO  
NOAA STATION: 9416131  
BENCHMARK: POWS1 (NO PID)  
TIDE GAUGE: NAIL @ 10.0 FT MLLW  
METADATA: NAIL SET BY USACE 8 APRIL, 2014

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SURVEYS BY REACHES AND DATES:  
R1 to R8 - 8/16, 10/22, 10/24, 10/28  
R9 to R11 - 8/26, 9/1

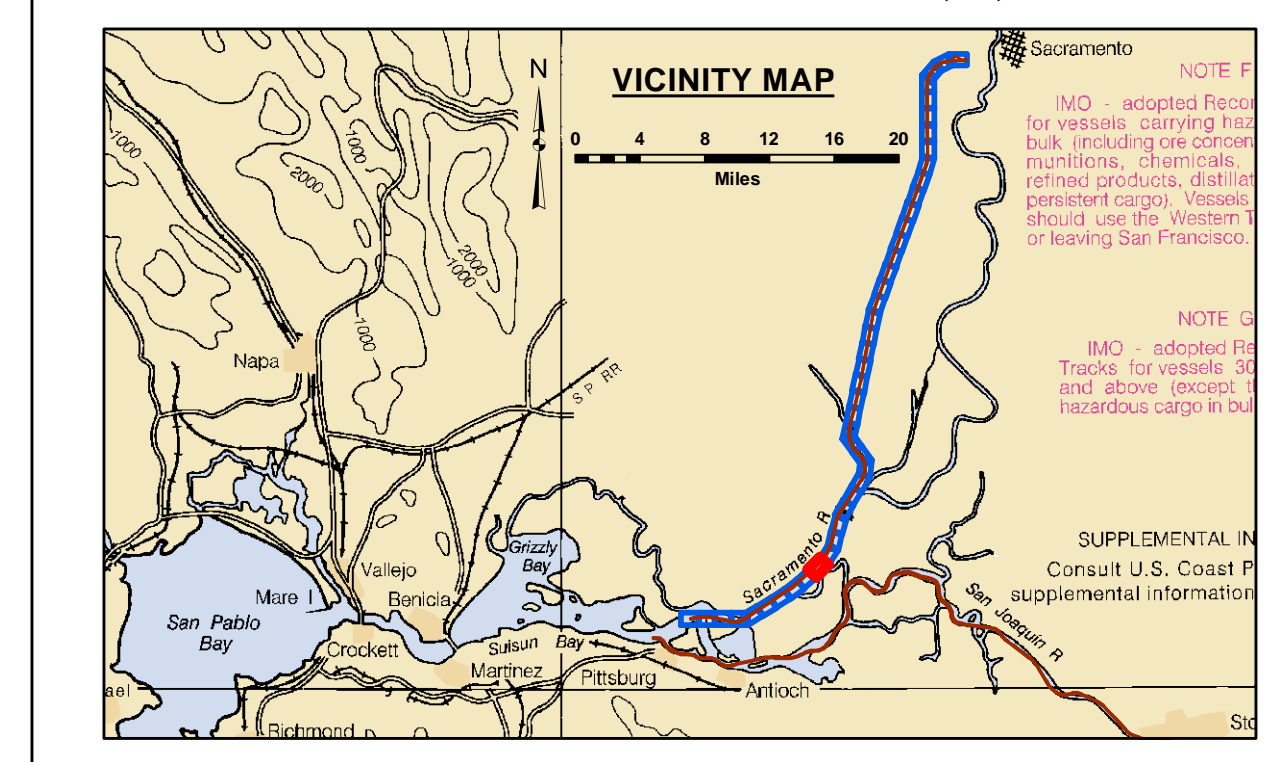
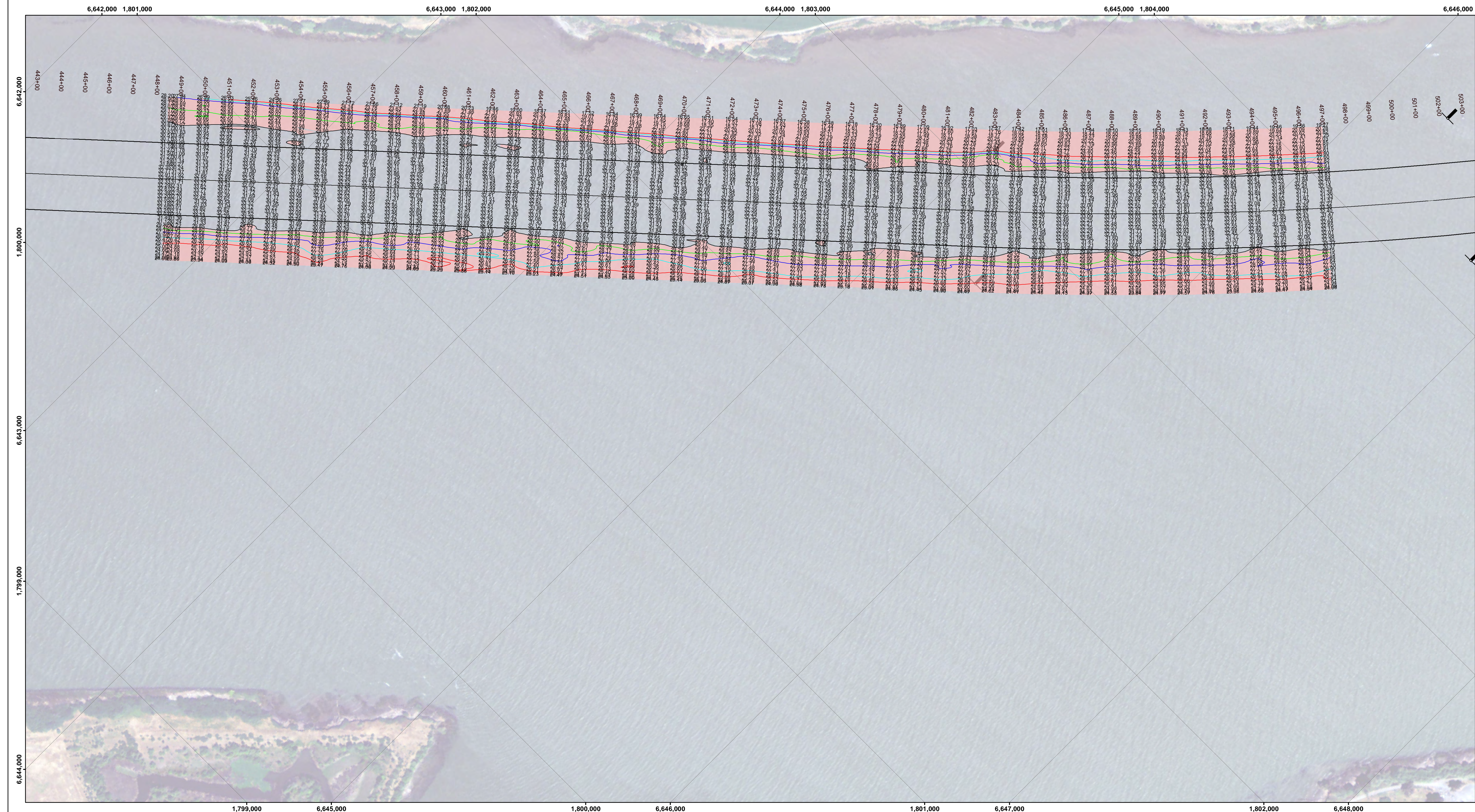


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Chart Date:	Nov 08, 2022
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	KEVIN P. ARNETT LT COLONEL, C.E., DISTRICT ENGINEER
Plotted By:	PDT
Checked By:	PDT
Approved:	Chief, Hydro Survey Section
Approved:	Chief, Construction Branch

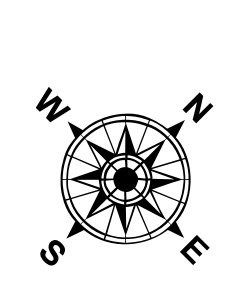
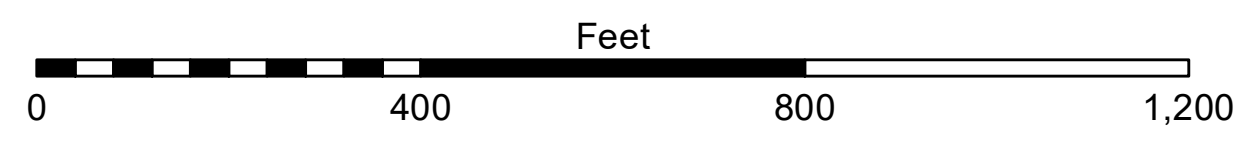
CALIFORNIA  
SAN JOAQUIN COUNTY  
**SACRAMENTO RIVER**  
POST-DREDGE SURVEY  
16, 26 AUGUST, 01 SEPTEMBER  
22, 24 & 28 OCTOBER 2022

Sheet Reference Number  
**9 of 45**



**LEGEND**

- Federal Navigation Channel
- Federal Navigation Center Line
- ..... Cable Submarine
- - - Cable Overhead
- Contour Line
- ▨ Cable Area
- Placement Area
- ⊗ Obstruction Point
- ✈ Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding within Channel Quarter\*\*
- ⬇ Beacon, General
- ◆ Red Navigation Buoy
- ◆ Green Navigation Buoy
- -30
- -29
- -28
- -27
- -26



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PROJECT DEPTH: -30'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

**CONTROLS:**  
LOCATION: RIO VISTA  
NOAA STATION: 9415316  
BENCHMARK: 5316 & 1986 (NO PID)  
TIDE GAUGE: NAIL @ 8.2 FT MLLW  
METADATA: NAIL SET BY USACE 31 MARCH, 2014

LOCATION: PORT OF WEST SACRAMENTO  
NOAA STATION: 9416131  
BENCHMARK: POWS1 (No PID)  
TIDE GAUGE: NAIL @ 10.0 FT MLLW  
METADATA: NAIL SET BY USACE 8 APRIL, 2014

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SURVEYS BY REACHES AND DATES:  
R1 to R8 - 8/16, 10/22, 10/24, 10/28  
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Chart Date:	Nov 08, 2022
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Checked By:	PDT
Approved:	Chief, Hydro Survey Section
Approved:	Chief, Construction Branch

CALIFORNIA  
SAN JOAQUIN COUNTY  
**SACRAMENTO RIVER**  
POST-DREDGE SURVEY  
16, 26 AUGUST, 01 SEPTEMBER  
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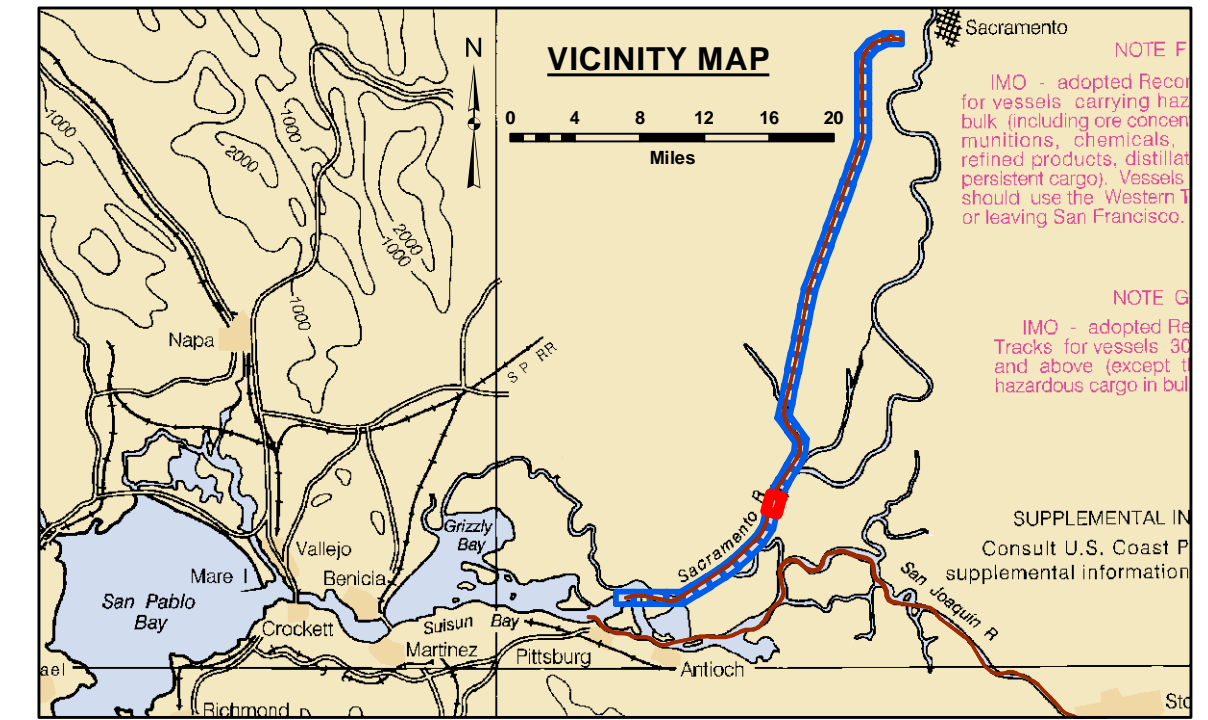


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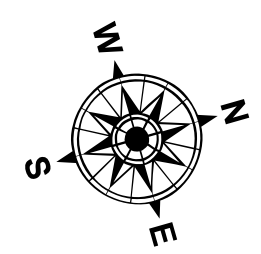
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Chart Date:	Nov 08, 2022
Prepared Under the Direction of:	KEVIN P. ARNETT
Surveilled:	Hydro Survey Team Leader
Recommended:	Chief, Hydro Survey Section
Approved:	Chief, Construction Branch
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT
Designed by:	PDT
Drawn by:	PDT



LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -30	
— Federal Navigation Center Line	□ Placement Area	— -29	
..... Cable Submarine	▨ Anchorage Area	— -28	
- - - Cable Overhead	⊗ Obstruction Point	— -27	
— Contour Line	✈ Wrecks-Submerged	— -26	
	● Shoaling Area		
	● Shoalest Sounding within Channel Quarter**		
	⊥ Beacon, General		
	◆ Red Navigation Buoy		
	◆ Green Navigation Buoy		



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PROJECT DEPTH: -30'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

**CONTROLS:**  
LOCATION: RIO VISTA  
NOAA STATION: 9415316  
BENCHMARK: 5316 & 1995 (NO PID)  
TIDE GAUGE: NAIL @ 8.2 FT MLLW  
METADATA: NAIL SET BY USACE 31 MARCH, 2014

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BENCHMARK: POWS1 (No PID)  
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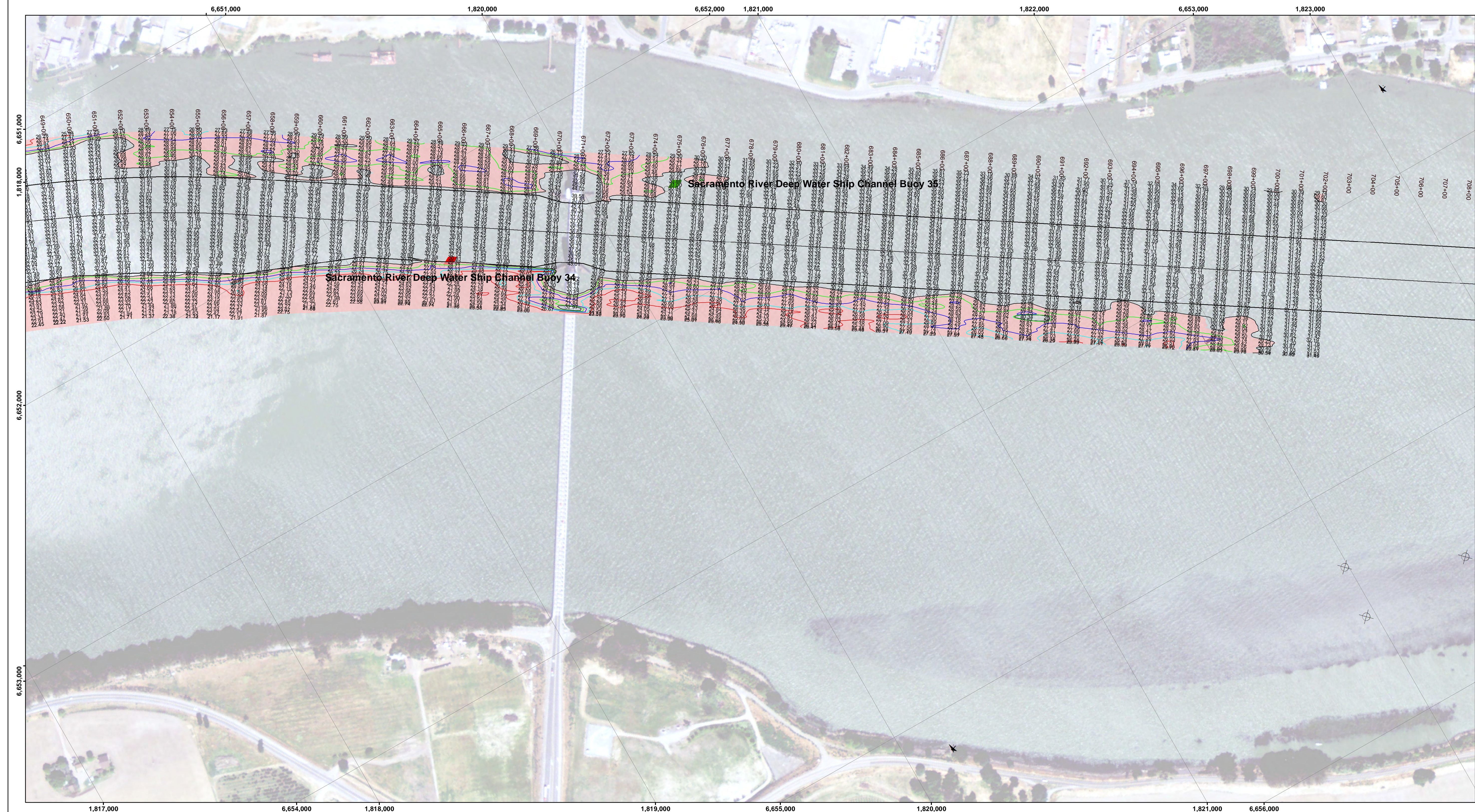
SURVEYS BY REACHES AND DATES:  
R1 to R8 - 8/16, 10/22, 10/24, 10/28  
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CALIFORNIA

SAN JOAQUIN COUNTY

**SACRAMENTO RIVER**  
POST-DREDGE SURVEY  
16, 26 AUGUST, 01 SEPTEMBER  
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Sheet Reference Number  
**13 of 45**

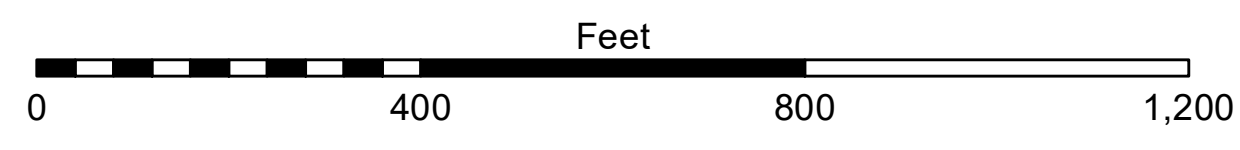
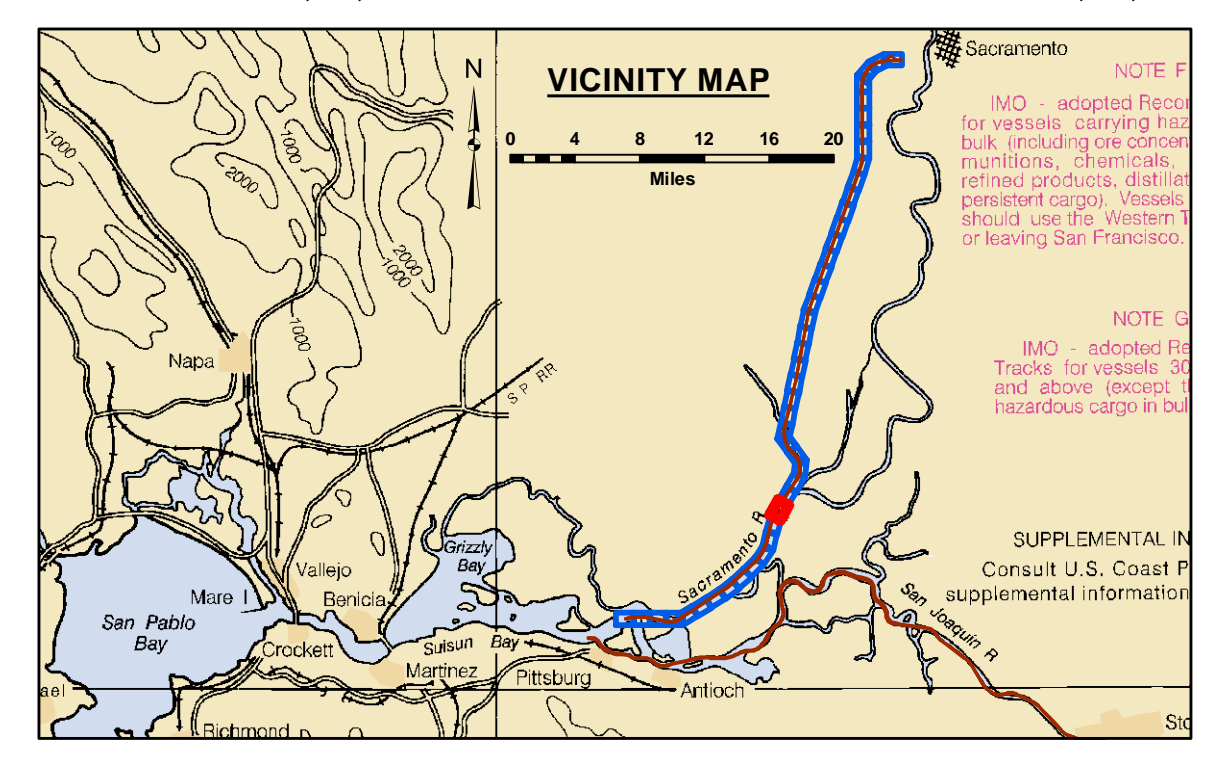


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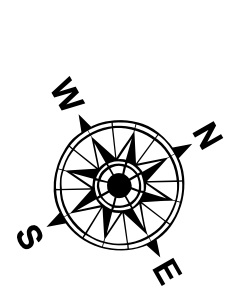
Chart Date:	Nov 08, 2022
Designed by:	PDT
Drawn by:	PDT
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Checked By:	PDT
Approved:	Chief, Construction Branch

CALIFORNIA  
 SAN JOAQUIN COUNTY  
**SACRAMENTO RIVER**  
 POST-DREDGE SURVEY  
 16, 26 AUGUST, 01 SEPTEMBER  
 22, 24 & 28 OCTOBER 2022

Sheet  
 Reference  
 Number  
**14 of 45**



LEGEND		Shoaling Area	Contours
--- Federal Navigation Channel	▨ Cable Area	● Shoalest Sounding within Channel Quarter**	— -30
— Federal Navigation Center Line	□ Placement Area	⬇ Beacon, General	— -29
⋯ Cable Submarine	⊠ Anchorage Area	⬇ Red Navigation Buoy	— -28
- - - Cable Overhead	⊗ Obstruction Point	⬇ Green Navigation Buoy	— -27
— Contour Line	✈ Wrecks-Submerged		— -26



**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.

NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CA ZONE II (0402). DISTANCE UNITS IN U.S. SURVEY FEET.

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: -30'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

**CONTROLS:**  
 LOCATION: RIO VISTA  
 NOAA STATION: 9415316  
 BENCHMARK: 5316 & 1985 (NO PID)  
 TIDE GAUGE: NAIL @ 8.2 FT MLLW  
 METADATA: NAIL SET BY USACE 31 MARCH, 2014

LOCATION: PORT OF WEST SACRAMENTO  
 NOAA STATION: 9416131  
 BENCHMARK: POWS1 (No PID)  
 TIDE GAUGE: NAIL @ 10.0 FT MLLW  
 METADATA: NAIL SET BY USACE 8 APRIL, 2014

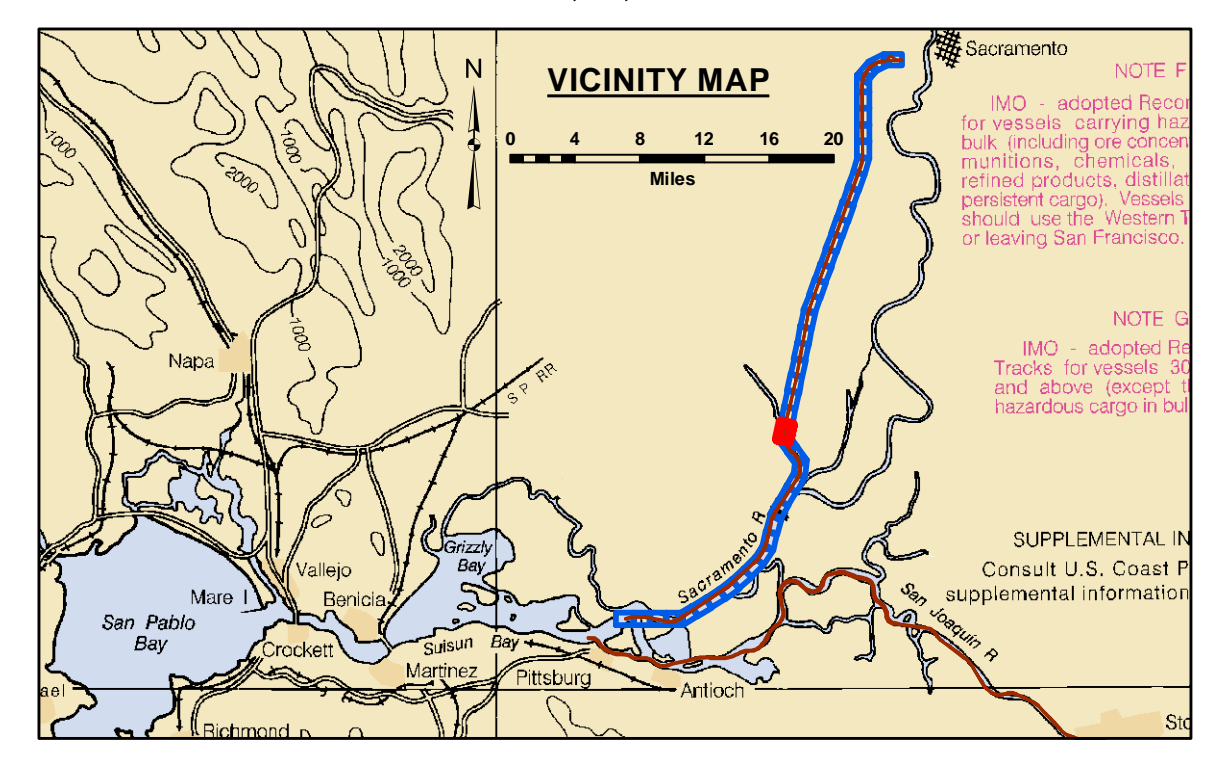
ALL HORIZONTAL POSITIONS AND MLLW ELEVATIONS WERE POST-PROCESSED USING PUBLIC GPS REFERENCE STATIONS IN THE AREA.

SURVEYS BY REACHES AND DATES:  
 R1 to R8 - 8/16, 10/22, 10/24, 10/28  
 R9 to R11 - 8/26, 9/1



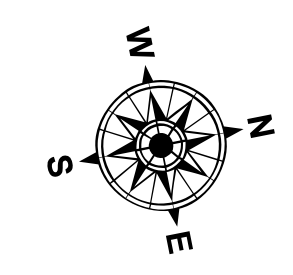
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Chart Date:	Nov 08, 2022
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Checked By:	PDT



0 400 800 1,200  
Feet

--- Federal Navigation Channel	Cable Area	Shoaling Area	-30
— Federal Navigation Center Line	Placement Area	Shoalest Sounding within Channel Quarter**	-29
..... Cable Submarine	Anchorage Area	Beacon, General	-28
- - - Cable Overhead	Obstruction Point	Red Navigation Buoy	-27
— Contour Line	Wrecks-Submerged	Green Navigation Buoy	-26



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PROJECT DEPTH: -30'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

**CONTROLS:**  
LOCATION: RIO VISTA  
NOAA STATION: 9415316  
BENCHMARK: 5316 & 1995 (NO PID)  
TIDE GAUGE: NAIL @ 8.2 FT MLLW  
METADATA: NAIL SET BY USACE 8 APRIL, 2014

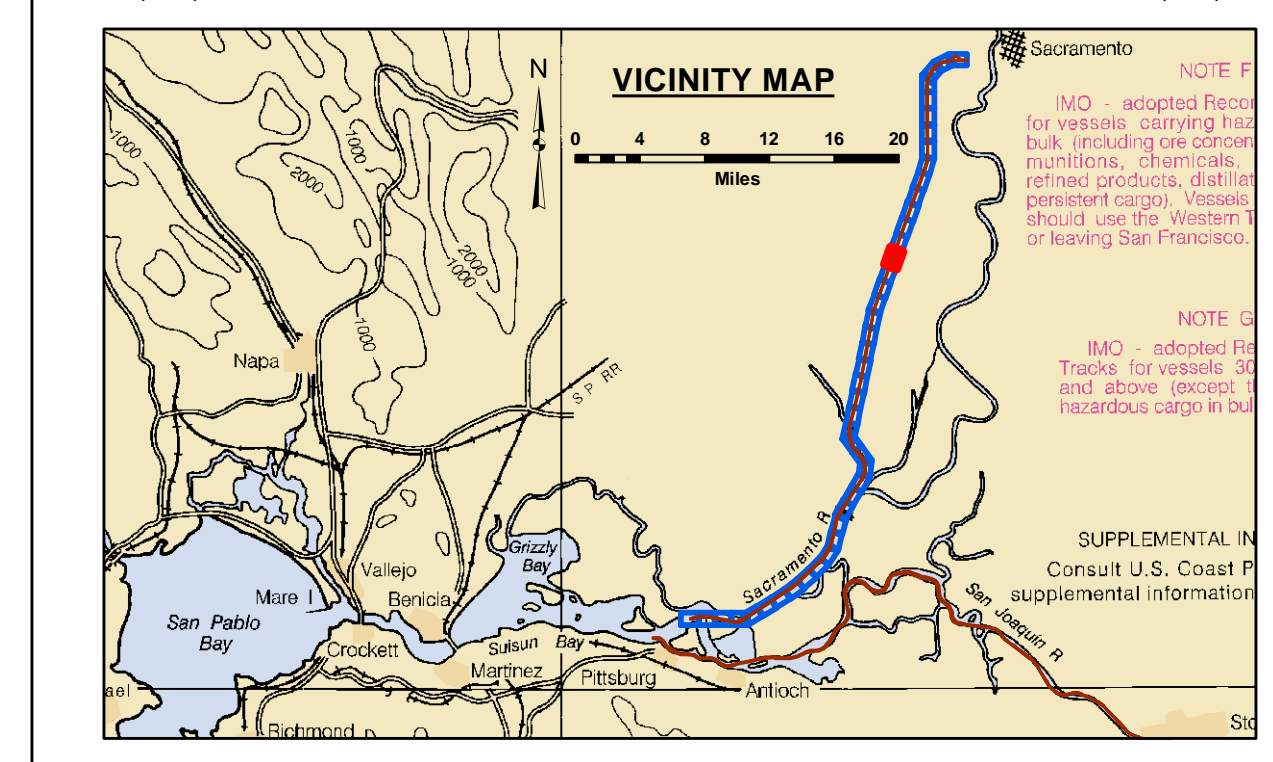
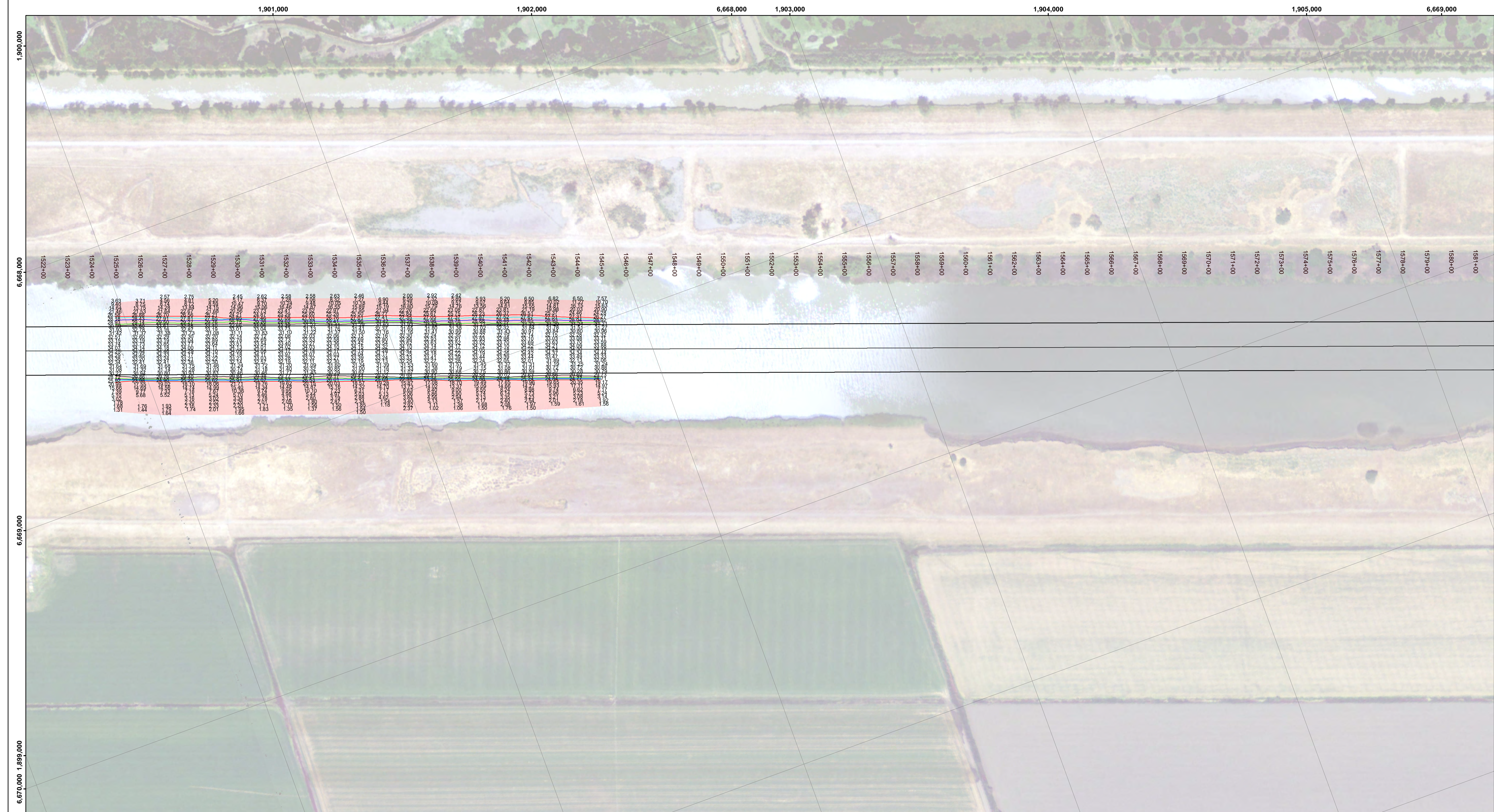
LOCATION: PORT OF WEST SACRAMENTO  
NOAA STATION: 9416131  
BENCHMARK: POWS1 (No PID)  
TIDE GAUGE: NAIL @ 10.0 FT MLLW  
METADATA: NAIL SET BY USACE 8 APRIL, 2014

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SURVEYS BY REACHES AND DATES:  
R1 to R8 - 8/16, 10/22, 10/24, 10/28  
R9 to R11 - 8/26, 9/1

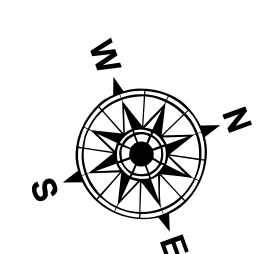
CALIFORNIA  
SAN JOAQUIN COUNTY  
**SACRAMENTO RIVER**  
POST-DREDGE SURVEY  
16, 26 AUGUST, 01 SEPTEMBER  
22, 24 & 28 OCTOBER 2022





**LEGEND**

- Federal Navigation Channel
- Federal Navigation Center Line
- ..... Cable Submarine
- - - Cable Overhead
- Contour Line
- ▨ Cable Area
- Placement Area
- ⊠ Anchorage Area
- ⊗ Obstruction Point
- ✈ Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding within Channel Quarter\*\*
- ⊥ Beacon, General
- ◆ Red Navigation Buoy
- ◆ Green Navigation Buoy
- -30
- -29
- -28
- -27
- -26



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PROJECT DEPTH: -30'

VERTICAL DATUM: MLLW

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**CONTROLS:**  
LOCATION: RIO VISTA  
NOAA STATION: 9415316  
BENCHMARK: 5316 & 1986 (NO PID)  
TIDE GAUGE: NAIL @ 8.2 FT MLLW  
METADATA: NAIL SET BY USACE 31 MARCH, 2014

LOCATION: PORT OF WEST SACRAMENTO  
NOAA STATION: 9416131  
BENCHMARK: POWS1 (No PID)  
TIDE GAUGE: NAIL @ 10.0 FT MLLW  
METADATA: NAIL SET BY USACE 8 APRIL, 2014

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SURVEYS BY REACHES AND DATES:  
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R9 to R11 - 8/26, 9/1



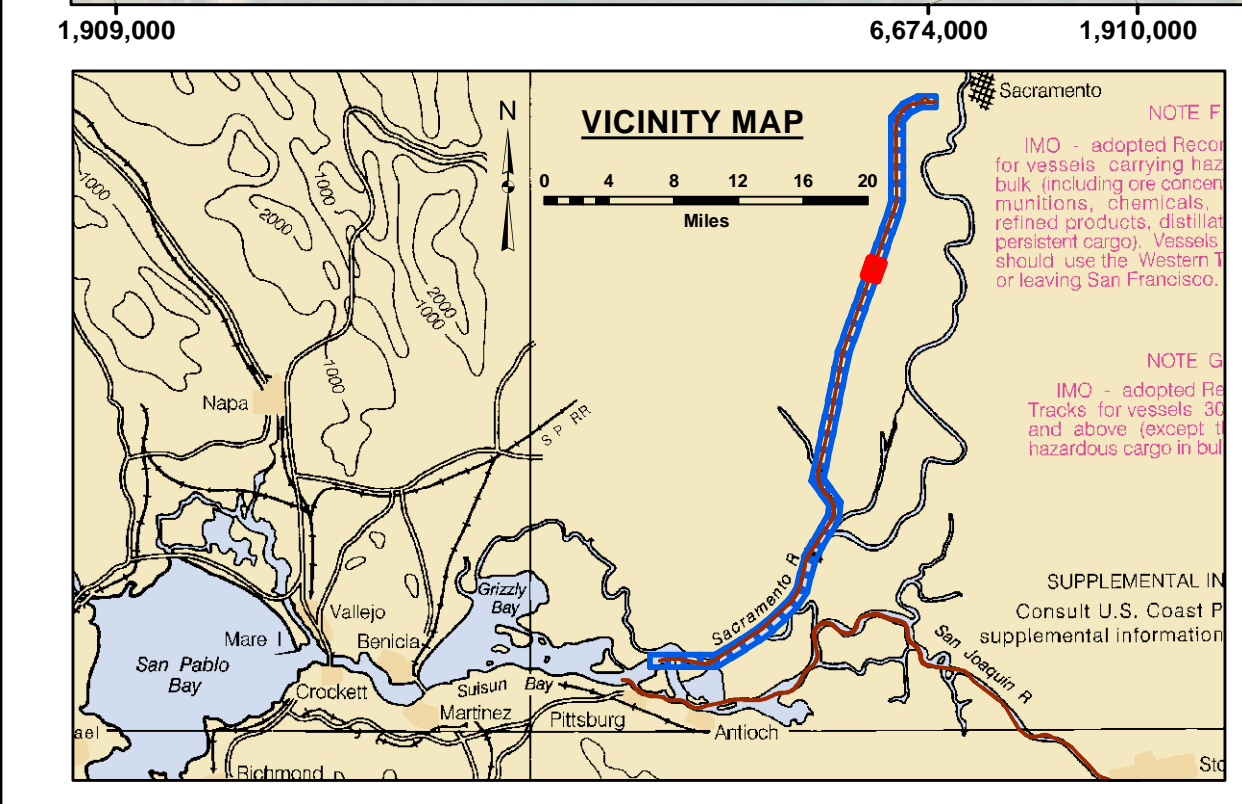
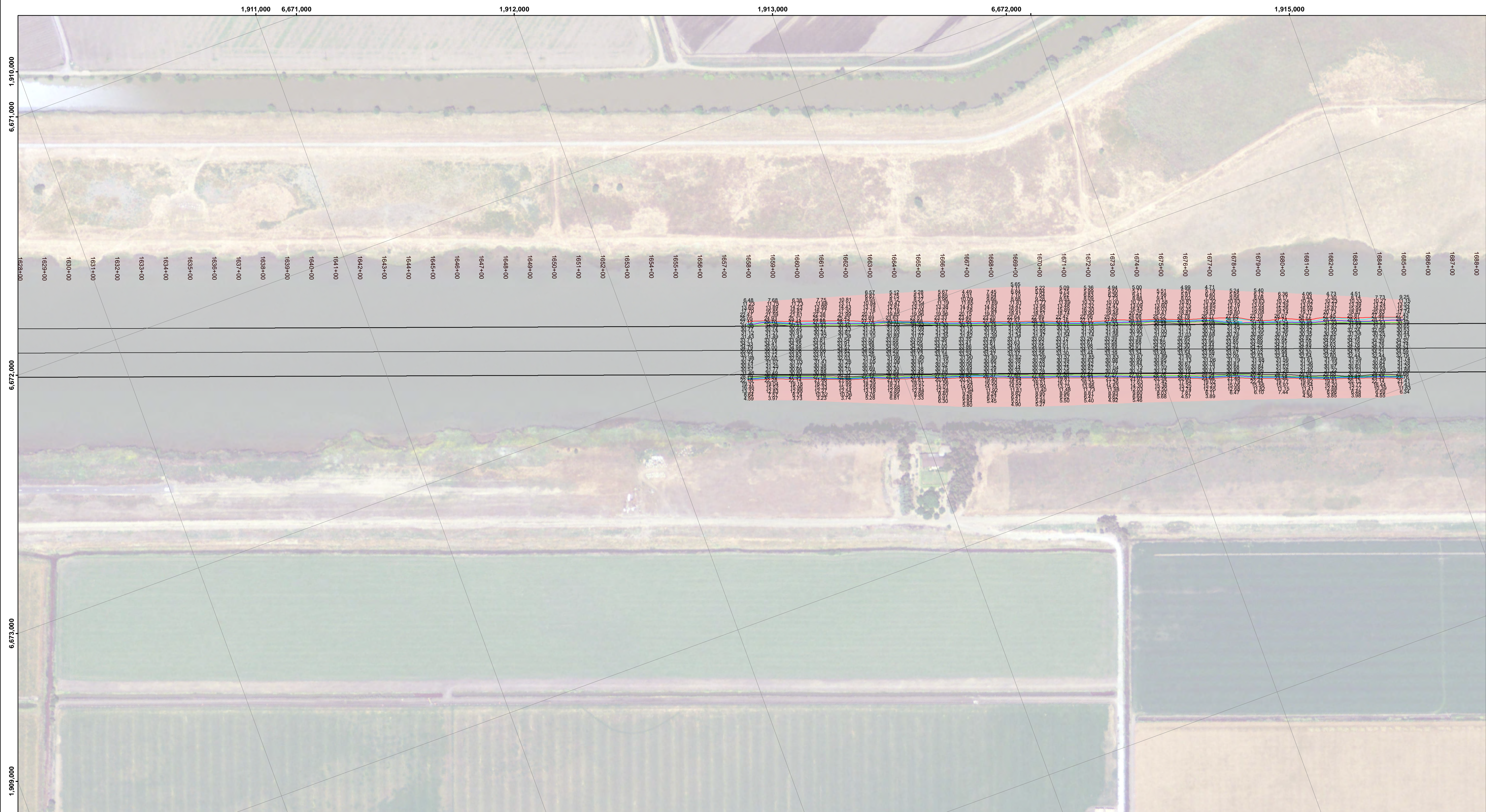
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Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Designed by:	PDT
Checked By:	PDT
Drawn By:	PDT

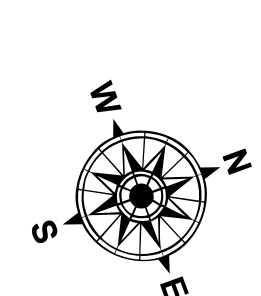
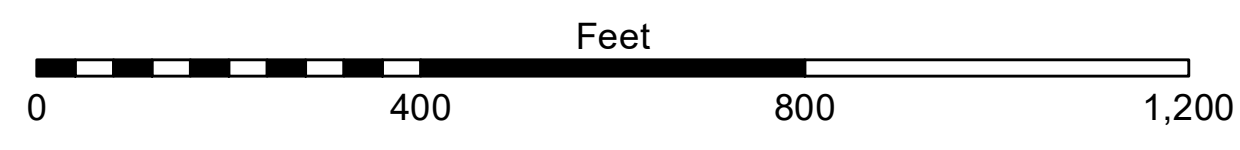
CALIFORNIA  
SAN JOAQUIN COUNTY  
**SACRAMENTO RIVER**  
POST-DREDGE SURVEY  
16, 26 AUGUST, 01 SEPTEMBER  
22, 24 & 28 OCTOBER 2022

Sheet Reference Number  
**31 of 45**



**LEGEND**

- Federal Navigation Channel
- Federal Navigation Center Line
- ..... Cable Submarine
- - - Cable Overhead
- Contour Line
- ▨ Cable Area
- Placement Area
- ⊠ Anchorage Area
- ⊗ Obstruction Point
- ✈ Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding within Channel Quarter\*\*
- ⊥ Beacon, General
- ◆ Red Navigation Buoy
- ◆ Green Navigation Buoy
- -30
- -29
- -28
- -27
- -26



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PROJECT DEPTH: -30'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

**CONTROLS:**  
LOCATION: RIO VISTA  
NOAA STATION: 9415316  
BENCHMARK: 5316 & 1986 (NO PID)  
TIDE GAUGE: NAIL @ 8.2 FT MLLW  
METADATA: NAIL SET BY USACE 31 MARCH, 2014

LOCATION: PORT OF WEST SACRAMENTO  
NOAA STATION: 9416131  
BENCHMARK: POWS1 (No PID)  
TIDE GAUGE: NAIL @ 10.0 FT MLLW  
METADATA: NAIL SET BY USACE 8 APRIL, 2014

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SURVEYS BY REACHES AND DATES:  
R1 to R8 - 8/16, 10/22, 10/24, 10/28  
R9 to R11 - 8/26, 9/1



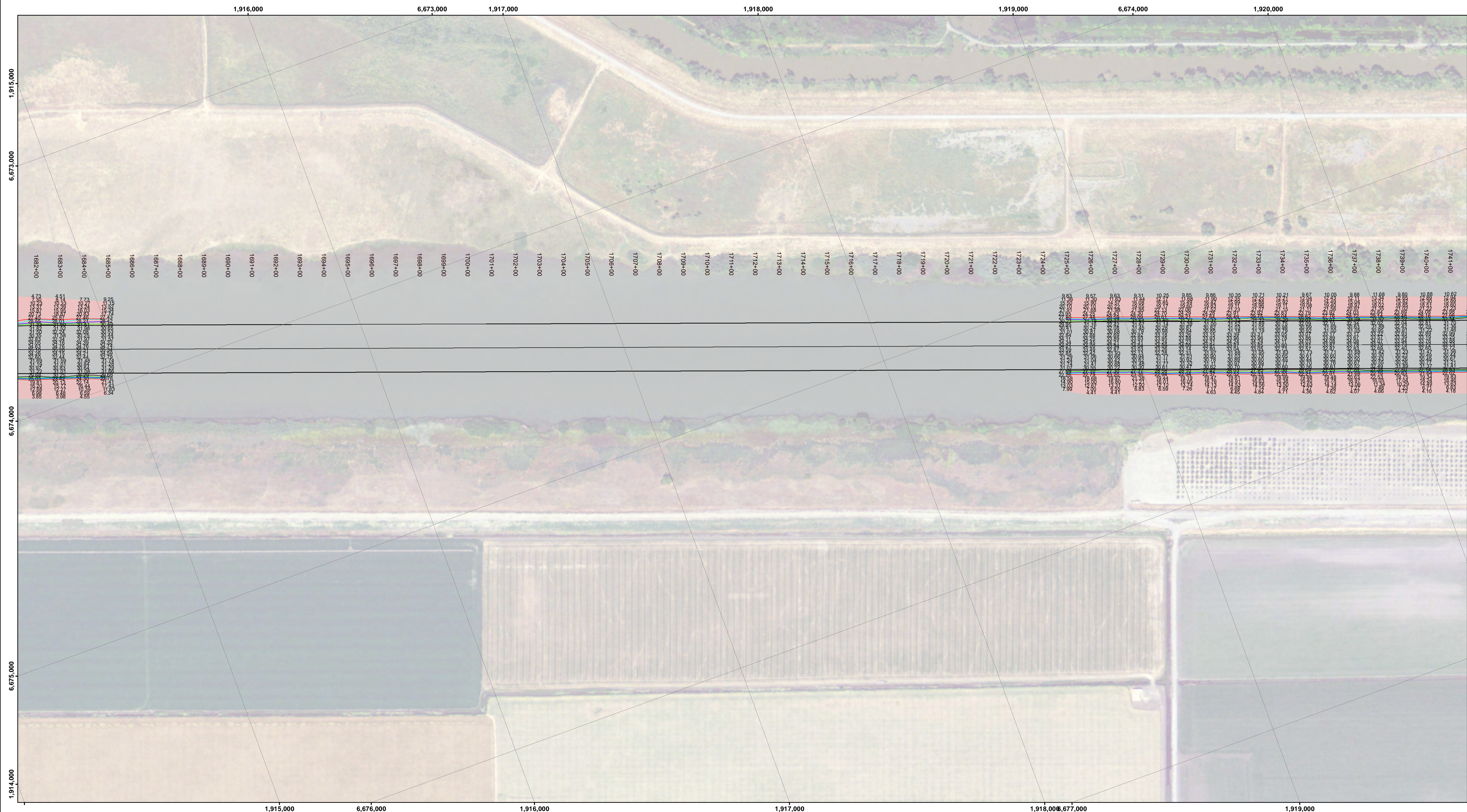
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Prepared Under the Direction of <b>KEVIN P. ARNETT</b> LT COLONEL, C.E., DISTRICT ENGINEER	Surveyed By: PDT	Chart Date: Nov 08, 2022
Stipulated: Hydro Survey Team Leader	Plotted By: PDT	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Drawn by: PDT
Approved: Chief, Construction Branch		

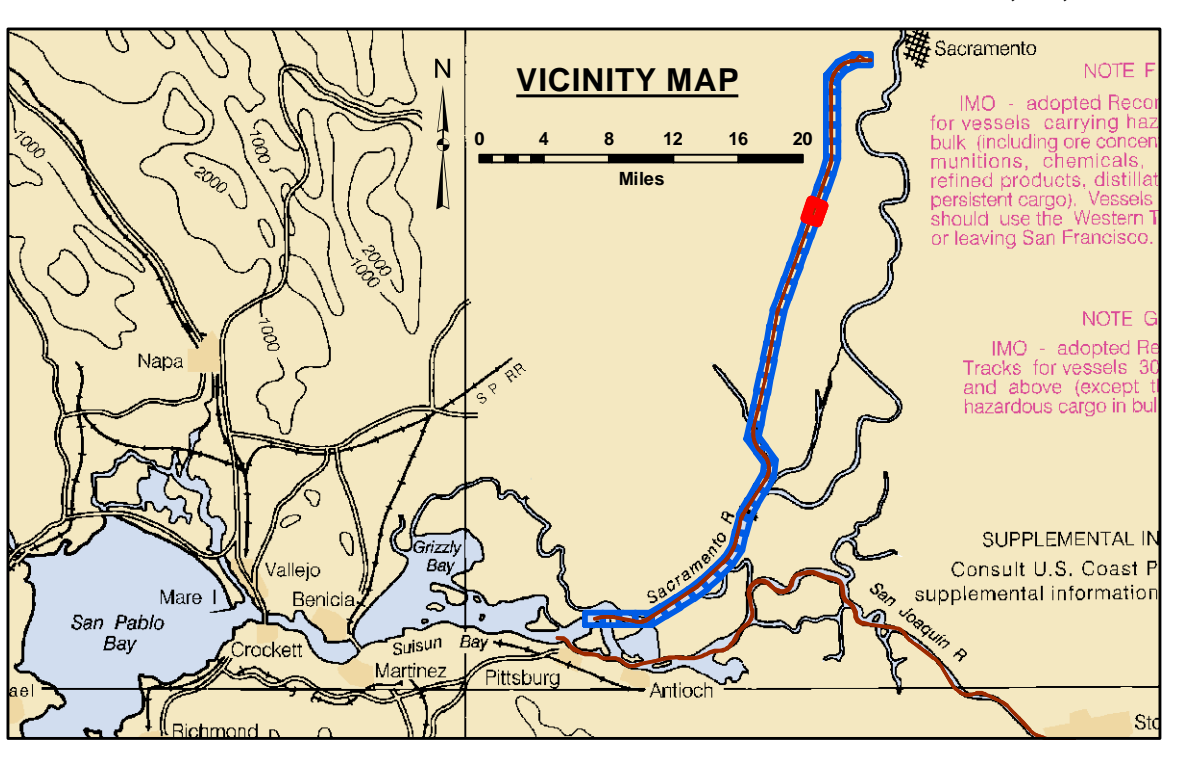
CALIFORNIA  
SAN JOAQUIN COUNTY  
**SACRAMENTO RIVER**  
POST-DREDGE SURVEY  
16, 26 AUGUST, 01 SEPTEMBER  
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Sheet Reference Number  
**33 of 45**



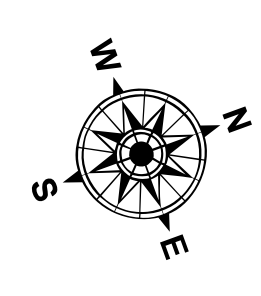
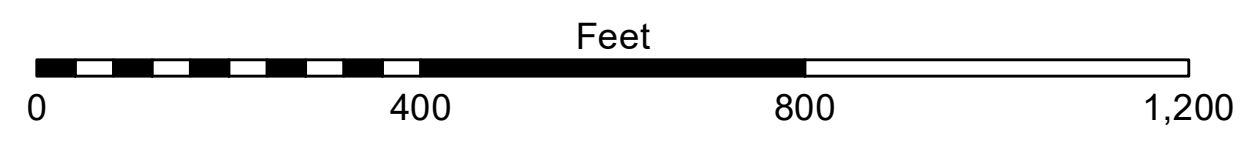
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Prepared Under the Direction of <b>KEVIN P. ARNETT</b> LT COLONEL, C.E., DISTRICT ENGINEER	Surveyed By: PDT	Chart Date: Nov 08, 2022
Staged by: Hydro Survey Team Leader	Plotted By: PDT	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Drawn by: PDT
Approved: Chief, Construction Branch		



**LEGEND**

--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding within Channel Quarter**	— -30
..... Cable Submarine	▭ Anchorage Area	⬇ Beacon, General	— -29
- - - Cable Overhead	⊗ Obstruction Point	⬆ Red Navigation Buoy	— -28
— Contour Line	✈ Wrecks-Submerged	◆ Green Navigation Buoy	— -27
			— -26



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PROJECT DEPTH: -30'

VERTICAL DATUM: MLLW

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**CONTROLS:**  
LOCATION: RIO VISTA  
NOAA STATION: 9415316  
BENCHMARK: 5316 B 1986 (NO PID)  
TIDE GAUGE: NAIL @ 8.2 FT MLLW  
METADATA: NAIL SET BY USACE 31 MARCH, 2014

LOCATION: PORT OF WEST SACRAMENTO  
NOAA STATION: 9416131  
BENCHMARK: POWS1 (No PID)  
TIDE GAUGE: NAIL @ 10.0 FT MLLW  
METADATA: NAIL SET BY USACE 8 APRIL, 2014

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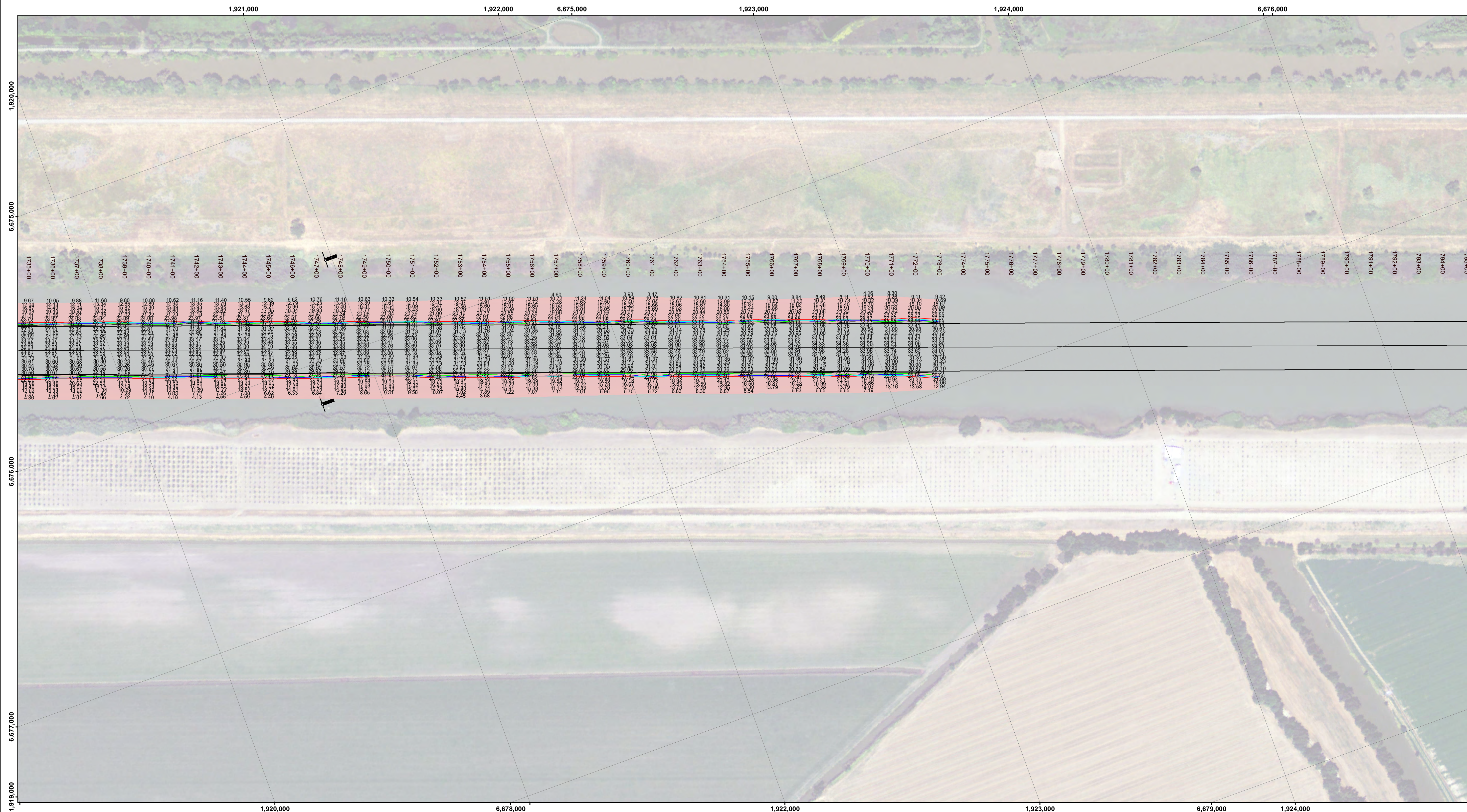
SURVEYS BY REACHES AND DATES:  
R1 to R8 - 8/16, 10/22, 10/24, 10/28  
R9 to R11 - 8/26, 9/1

CALIFORNIA

SAN JOAQUIN COUNTY

**SACRAMENTO RIVER**  
POST-DREDGE SURVEY  
16, 26 AUGUST, 01 SEPTEMBER  
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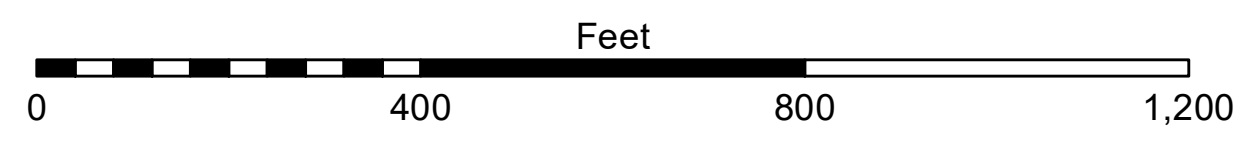
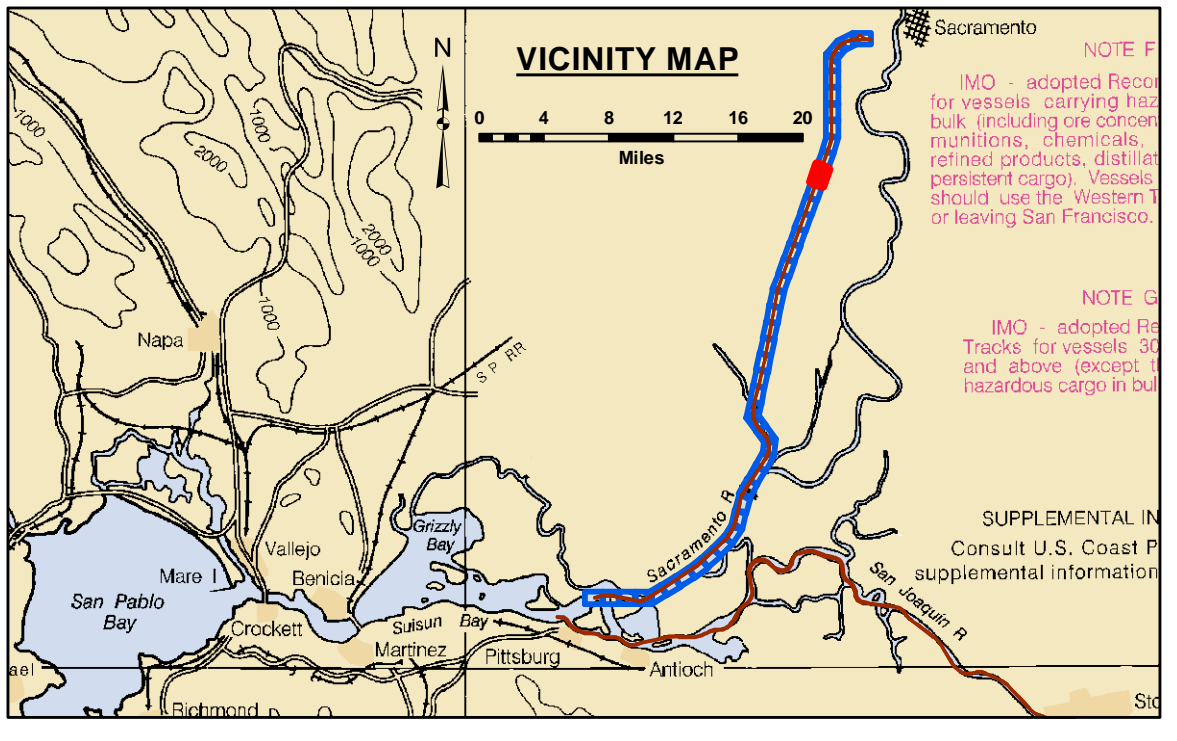
Sheet Reference Number  
**34 of 45**



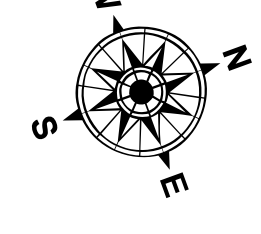
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Chart Date:	Nov 08, 2022
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Drawn by:	PDT
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT
Approved:	Chief, Construction Branch

CALIFORNIA  
 SAN JOAQUIN COUNTY  
**SACRAMENTO RIVER**  
 POST-DREDGE SURVEY  
 16, 26 AUGUST, 01 SEPTEMBER  
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**35 of 45**

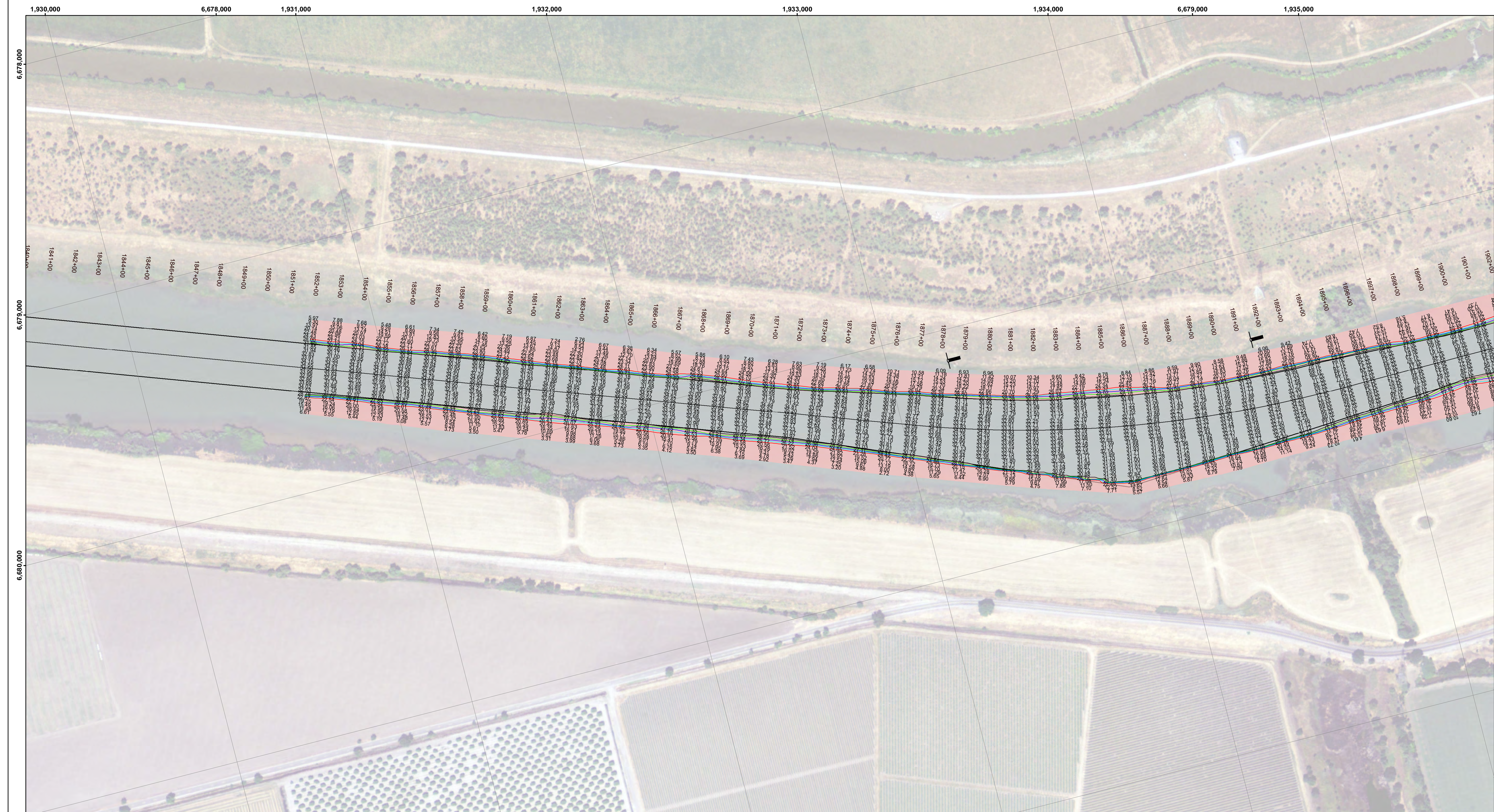


LEGEND		Shoaling Area	Contours
--- Federal Navigation Channel	▨ Cable Area	● Shoalest Sounding within Channel Quarter**	— -30
— Federal Navigation Center Line	□ Placement Area	⌵ Beacon, General	— -29
⋯ Cable Submarine	▭ Anchorage Area	◆ Red Navigation Buoy	— -28
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 PROJECT DEPTH: -30'  
 VERTICAL DATUM: MLLW  
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 BENCHMARK: 5316 8 1985 (NO PID)  
 TIDE GAUGE: NAIL @ 8.2 FT MLLW  
 METADATA: NAIL SET BY USACE 31 MARCH, 2014  
 LOCATION: PORT OF WEST SACRAMENTO  
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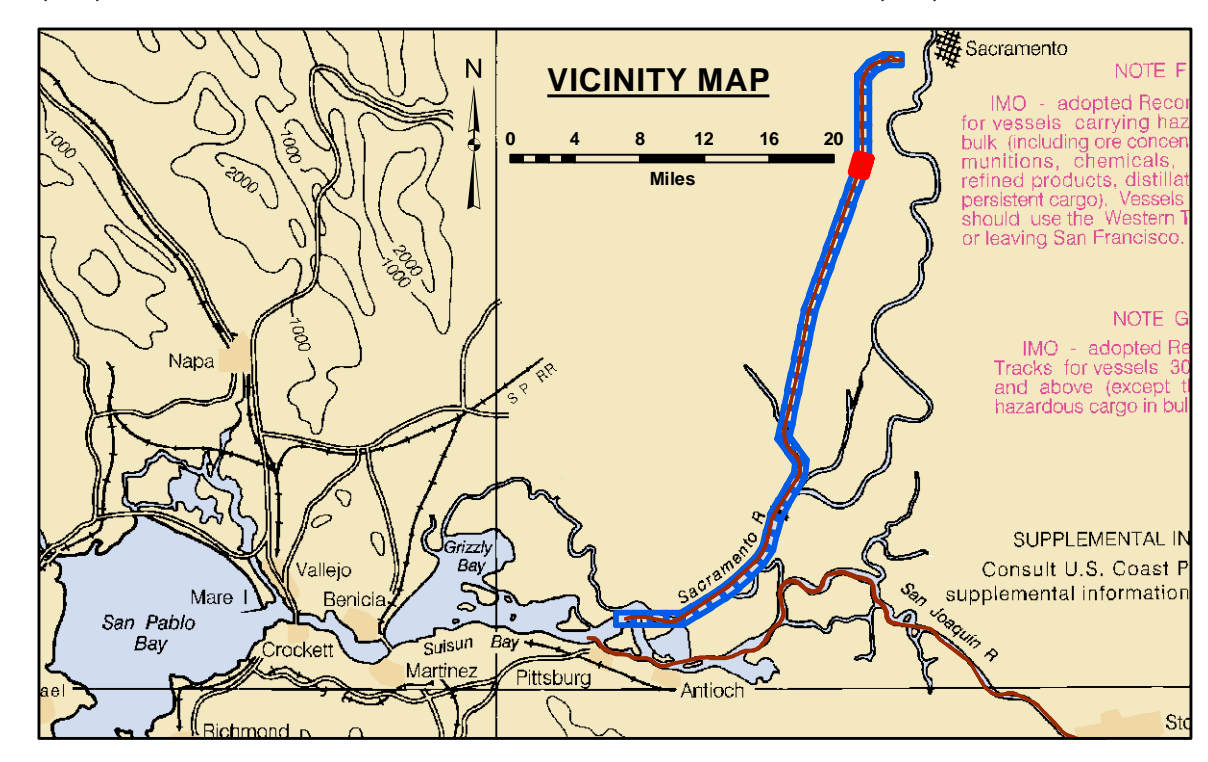
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Plotted By:	PDT
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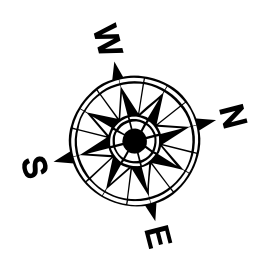
CALIFORNIA  
 SAN JOAQUIN COUNTY  
**SACRAMENTO RIVER**  
 POST-DREDGE SURVEY  
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Sheet  
 Reference  
 Number  
**37 of 45**



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><b>LEGEND</b></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><b>Contours</b></p> <p>— -30</p> <p>— -29</p> <p>— -28</p> <p>— -27</p> <p>— -26</p>
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SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CA ZONE II (0402). DISTANCE UNITS IN U.S. SURVEY FEET.

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: -30'

VERTICAL DATUM: MLLW

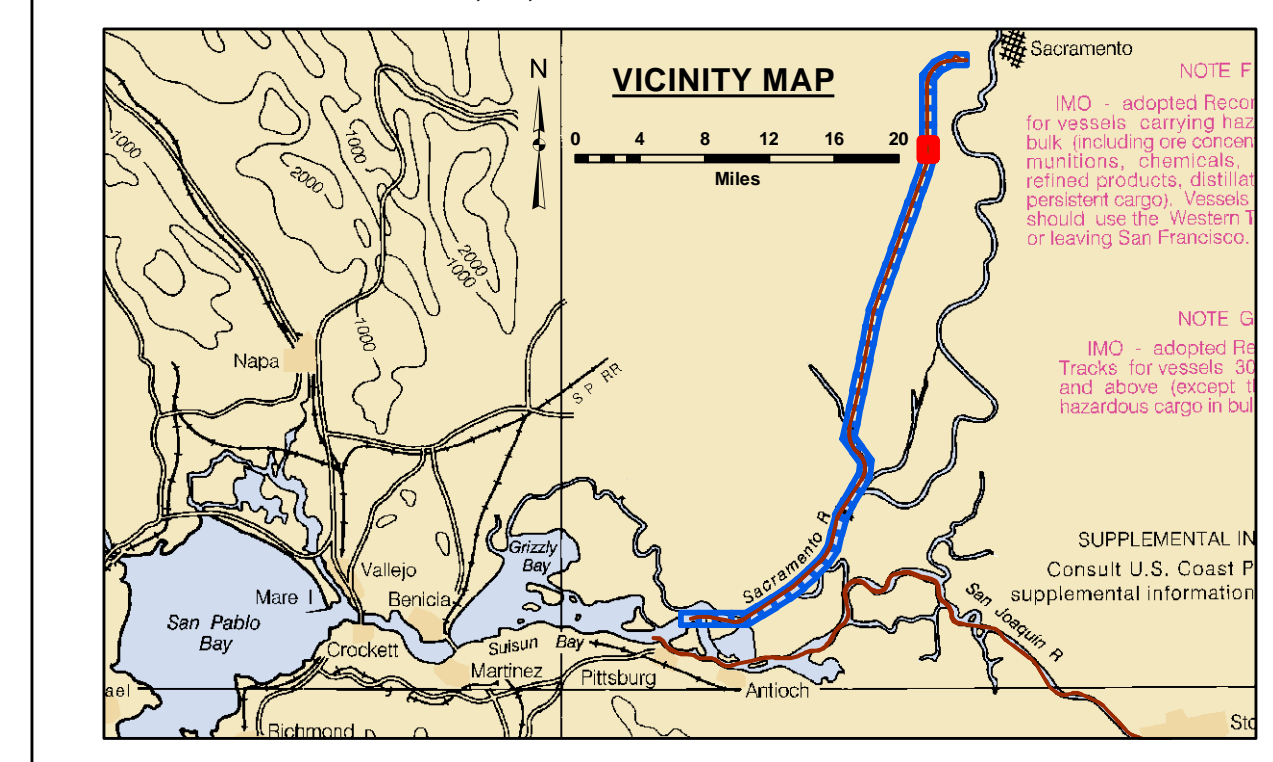
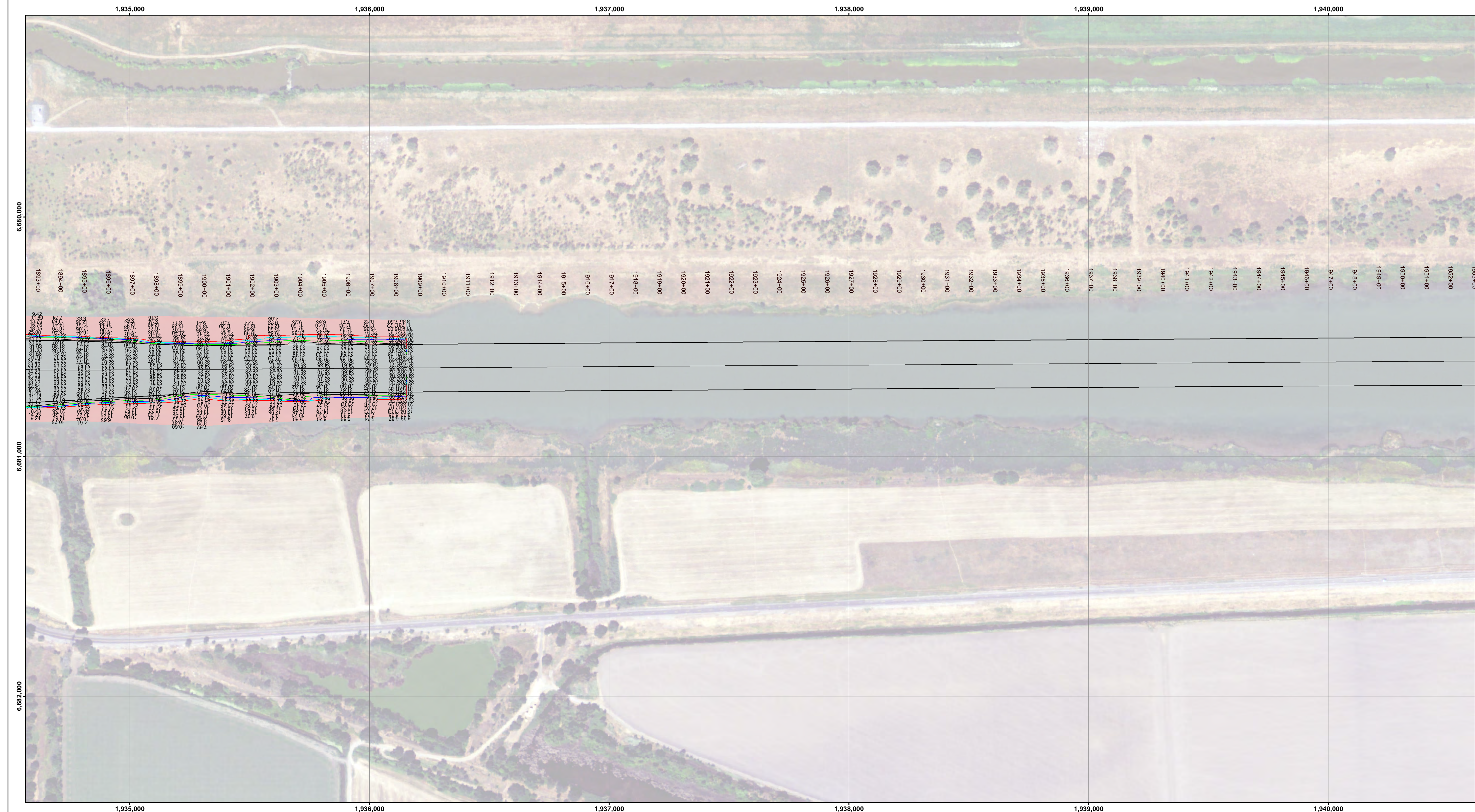
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

**CONTROLS:**  
 LOCATION: RIO VISTA  
 NOAA STATION: 9415316  
 BENCHMARK: 5316 & 1506 (NO PID)  
 TIDE GAUGE: NAIL @ 8.2 FT MLLW  
 METADATA: NAIL SET BY USACE 31 MARCH, 2014

LOCATION: PORT OF WEST SACRAMENTO  
 NOAA STATION: 9416131  
 BENCHMARK: POWS1 (NO PID)  
 TIDE GAUGE: NAIL @ 10.0 FT MLLW  
 METADATA: NAIL SET BY USACE 8 APRIL, 2014

ALL HORIZONTAL POSITIONS AND MLLW ELEVATIONS WERE POST-PROCESSED USING PUBLIC GPS REFERENCE STATIONS IN THE AREA.

SURVEYS BY REACHES AND DATES:  
 R1 to R8 - 8/16, 10/22, 10/24, 10/28  
 R9 to R11 - 8/26, 9/1

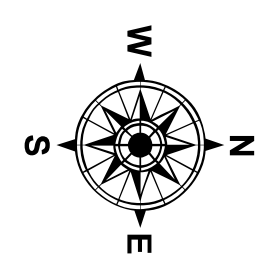
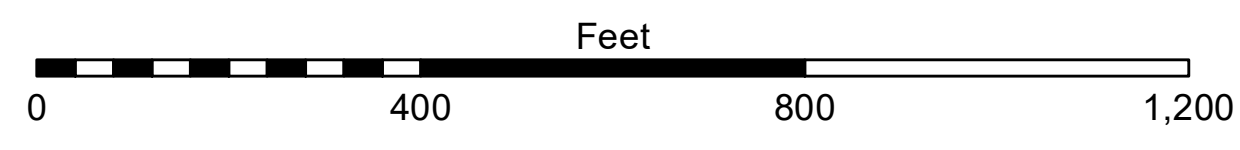


**LEGEND**

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

**Contours**

- -30
- -29
- -28
- -27
- -26



**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.

NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CA ZONE II (0402). DISTANCE UNITS IN U.S. SURVEY FEET.

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: -30'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

**CONTROLS:**  
LOCATION: RIO VISTA  
NOAA STATION: 9415316  
BENCHMARK: 5316 & 1985 (NO PID)  
TIDE GAUGE: NAIL @ 8.2 FT MLLW  
METADATA: NAIL SET BY USACE 31 MARCH, 2014

LOCATION: PORT OF WEST SACRAMENTO  
NOAA STATION: 9416131  
BENCHMARK: POWS1 (NO PID)  
TIDE GAUGE: NAIL @ 10.0 FT MLLW  
METADATA: NAIL SET BY USACE 8 APRIL, 2014

ALL HORIZONTAL POSITIONS AND MLLW ELEVATIONS WERE POST-PROCESSED USING PUBLIC GPS REFERENCE STATIONS IN THE AREA.

SURVEYS BY REACHES AND DATES:  
R1 to R8 - 8/16, 10/22, 10/24, 10/28  
R9 to R11 - 8/26, 9/1



**DISCLAIMER:**  
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Chart Date:	Nov 08, 2022
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Plotted by:	PDT
Surveyed By:	KEVIN P. ARNETT
Prepared Under the Direction of:	LT COLONEL C.E. DISTRICT ENGINEER
Staged:	Hydro Survey Team Leader
Recommended:	Chief, Hydro Survey Section
Approved:	Chief, Construction Branch

CALIFORNIA

SAN JOAQUIN COUNTY

**SACRAMENTO RIVER**  
POST-DREDGE SURVEY  
16, 26 AUGUST, 01 SEPTEMBER  
22, 24 & 28 OCTOBER 2022

Sheet Reference Number  
**38 of 45**