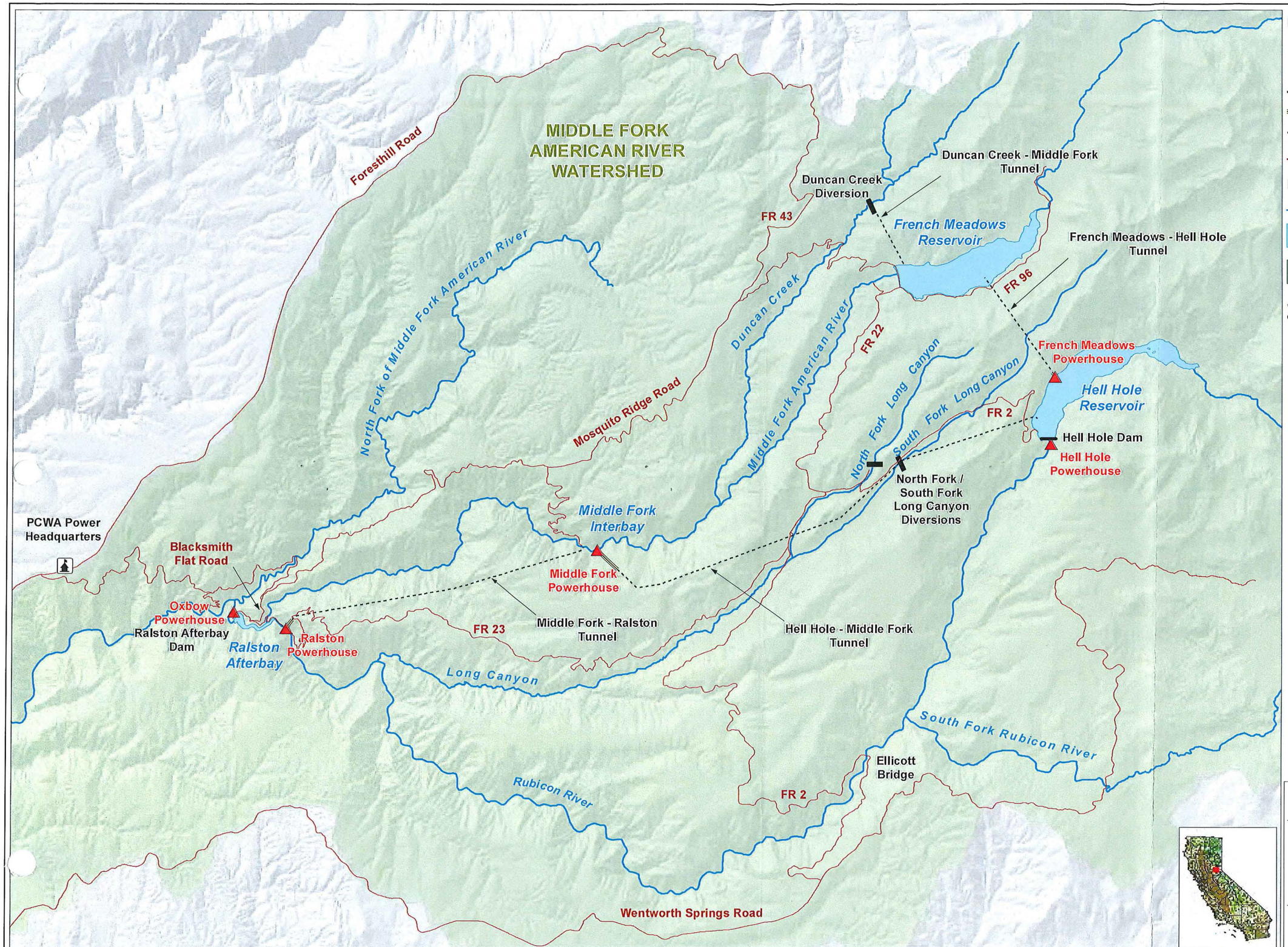


Project Facilities

- Powerhouse
- Dam
- Tunnel
- Penstock

Transportation

- Road

Hydrography

- Watercourse
- Water Body
- Middle Fork American River Watershed*

*Modified from Calwater Ver. 2.2 to represent drainage above high-water mark of Folsom Lake

PCWA

Placer County Water Agency
Middle Fork American River Project
Draft CEQA Supplement

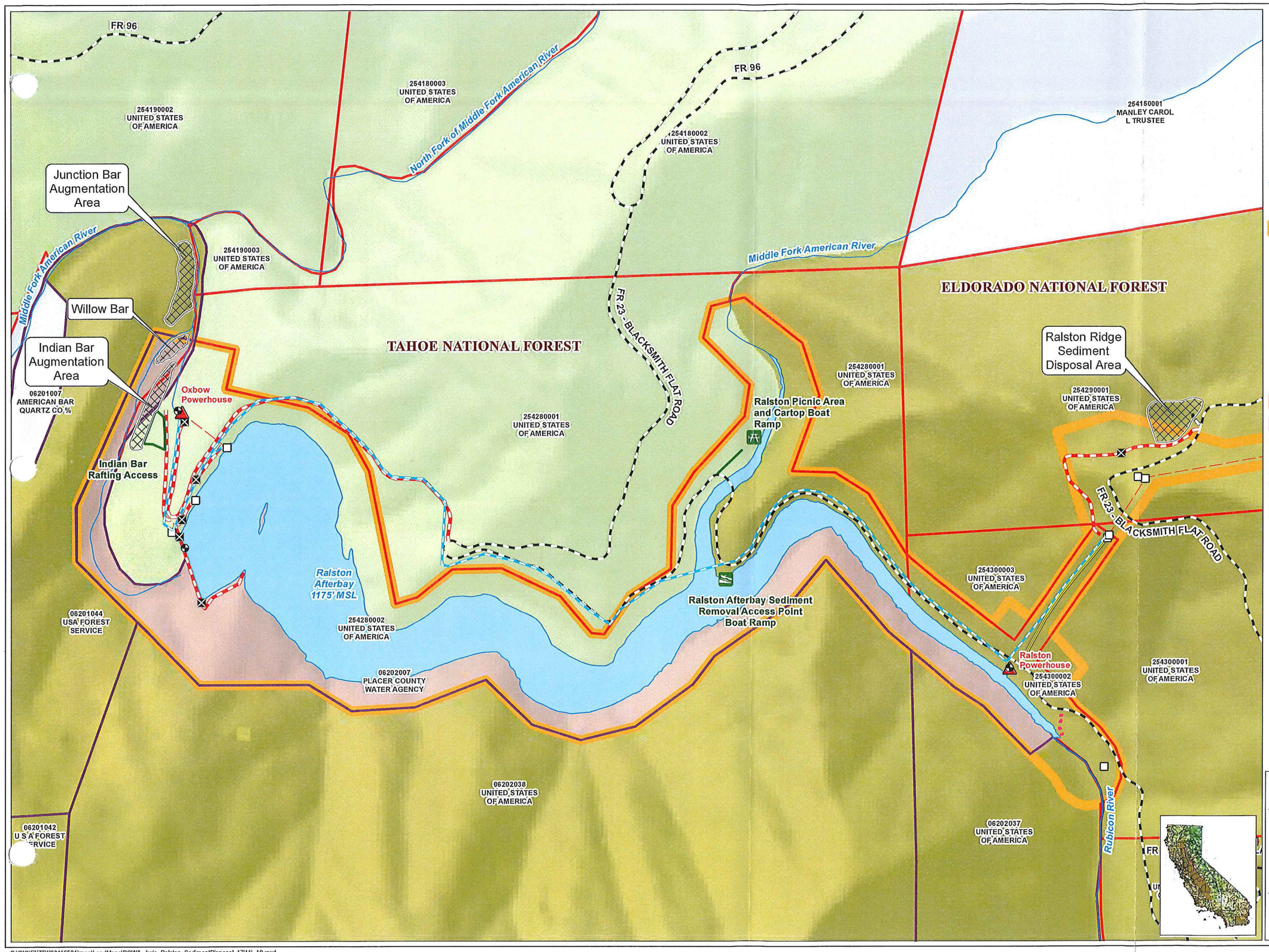
Figure 1

Middle Fork American River Project and Vicinity

Date: 10/27/2014

Projection: CA State Plane, Zone 2
Datum: NAD 83

C:\GIS\ENTRIX\3116501\map\GeneralMaps\PCWA_MFAR_ExecSummary_17i11i_01.mxd



PCWA Facilities and Features

- Powerhouse
- Gage
- Reservoir Gage
- Penstock
- Tunnel
- Pipeline
- Gate
- Power / Communication Lines
- Ancillary and Other Facilities
- FERC Boundary

Transportation

- Road
- Project Road
- Project Trail / Proposed Project Trail
- Recreation Access Road
- Recreation Facility Water Supply Access Road or Trail

Ownership Data

- Placer County Parcel Data
- El Dorado County Parcel Data
- Eldorado National Forest
- Tahoe National Forest
- PCWA
- Private (blank)

PCWA

Placer County Water Agency
Middle Fork American River Project

Figure 2

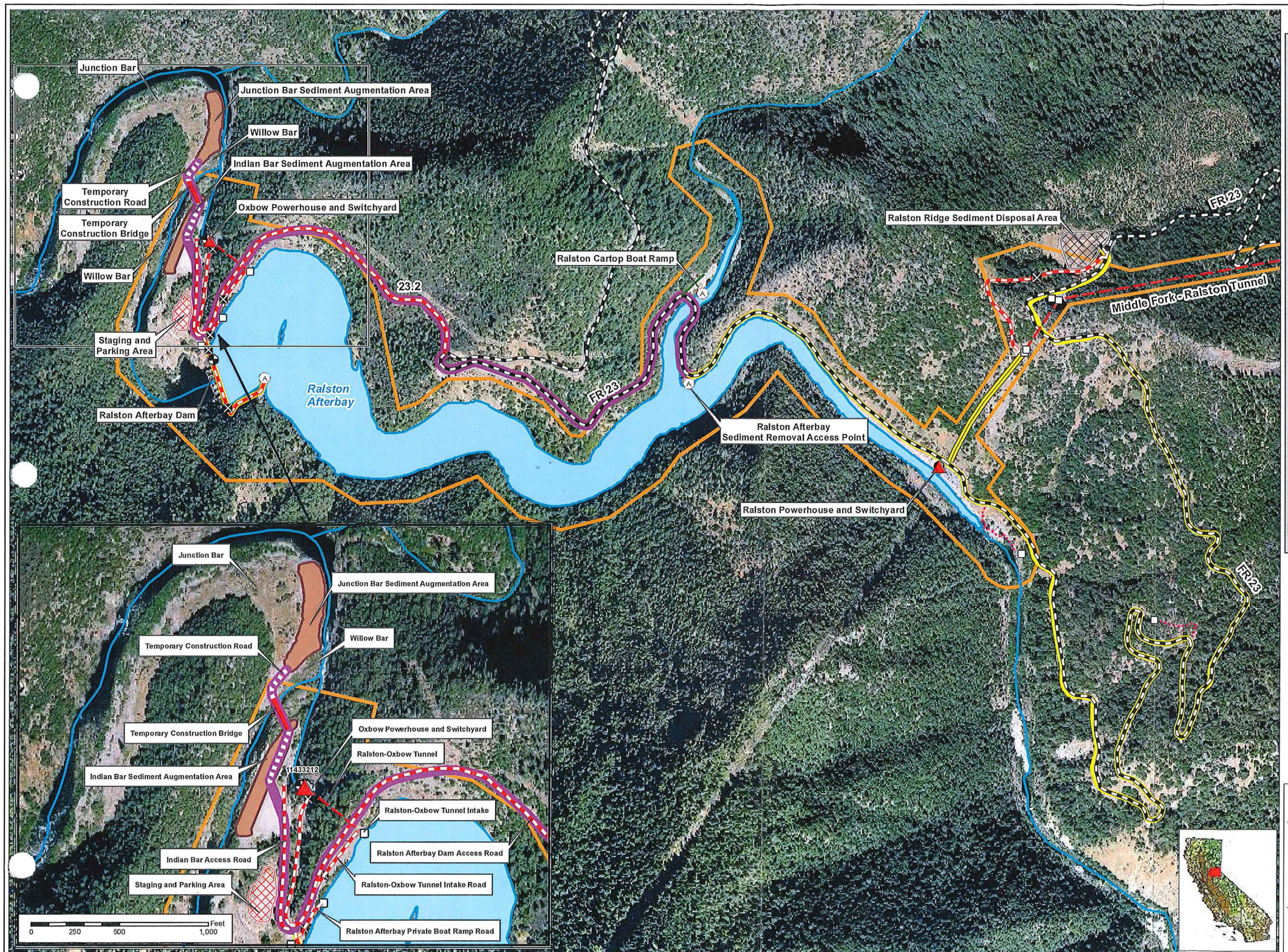
Land Ownership in the Vicinity of Ralston Afterbay

0 250 500 Feet

Date: 12/16/2014

Projection: CA State Plane, Zone 2
Datum: NAD 83

C:\GIS\ENTRIX\3116501\map\LandMaps\PCWA_Juris_Ralston_SedimentDisposal_17i11i_10.mxd



PCWA Facilities and Features

- Dam
- Ancillary and Other Facilities
- Powerhouse
- Gage
- Penstock
- Tunnel
- Pipeline
- Gate
- Current FERC Boundary

Transportation

- Non-Project General Access Road
- Project Road
- Project Trail
- Recreation Access Road
- Recreation Facility Water Supply Access Road or Trail
- Other Road

Sediment Management: Related Features

- Access Point
- Sediment Disposal Area
- Sediment Disposal Route
- Sediment Augmentation Area
- Sediment Augmentation Route
- Existing Ramp
- Staging Area

PCWA

Placer County Water Agency
Middle Fork American River Project

Figure 3

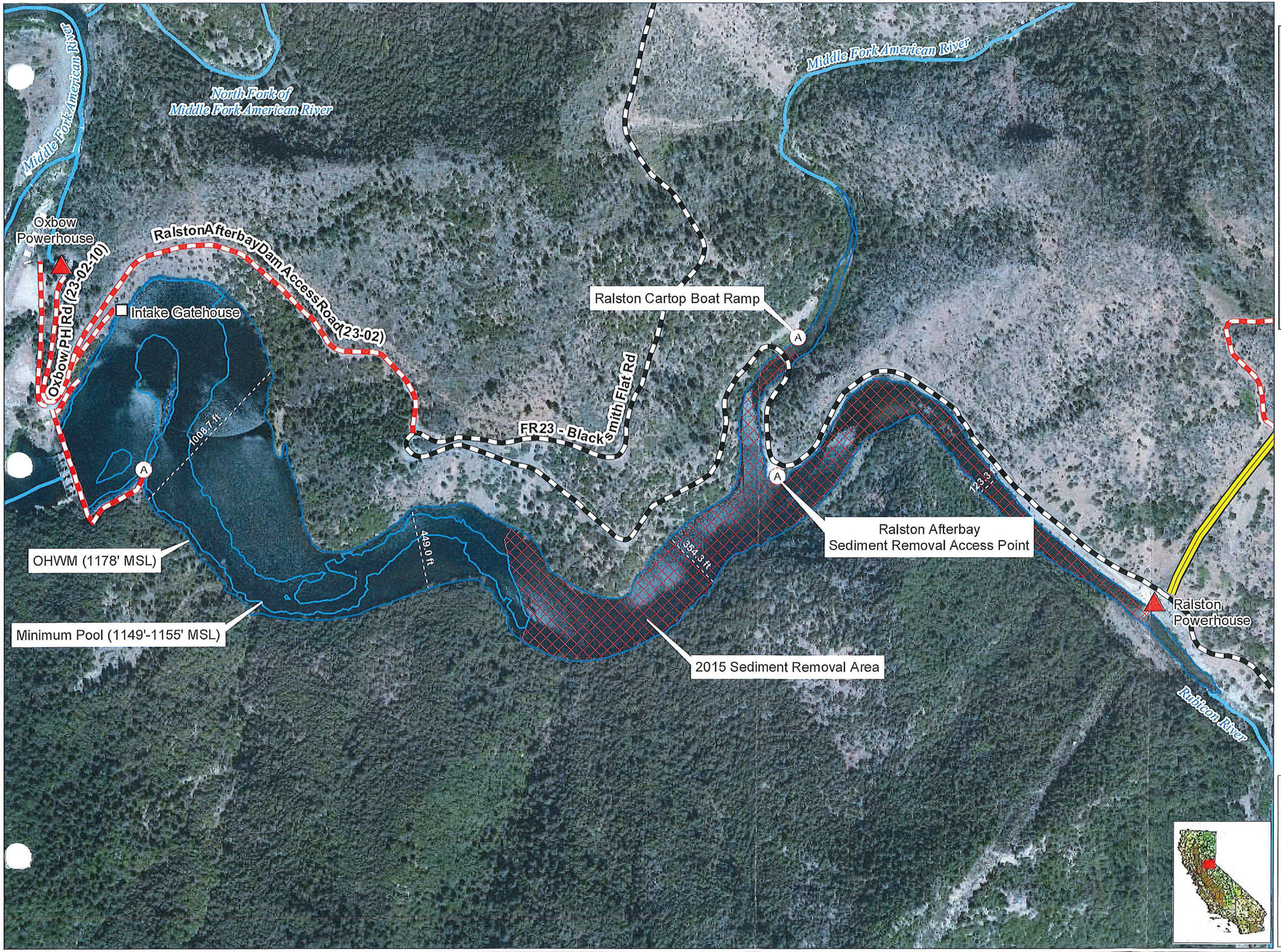
Ralston Afterbay Sediment Management Area Overview

0 250 500 Feet

Date: 1/7/2015

Projection: Ca. Stateplane, Zone 2
Datum: NAD 83

C:\GIS\ENTRIX\3116501\map\GeoMaps\Sediment Mgt Maps\2015_Ralston\PCWA_SedMgtPlan_17i11i_Ralston_SedMgtArea_Overview_01.mxd



PCWA Hydrology Features

- Ordinary High Water Mark (OHWM)
- Minimum Pool Elevation
- Width of the Reservoir at the OHWM

PCWA Facilities and Features

- Ancillary and Other Facilities
- Powerhouse
- Penstock

Transportation

- Non-Project General Access Road
- Project Road

Sediment Management: Related Features

- Limits of Work Area (Proposed)
- Access Point

Image Source: Microsoft, US-CA-Placerville, 08/14/2011

PCWA

Placer County Water Agency
Middle Fork American River Project

Figure 4

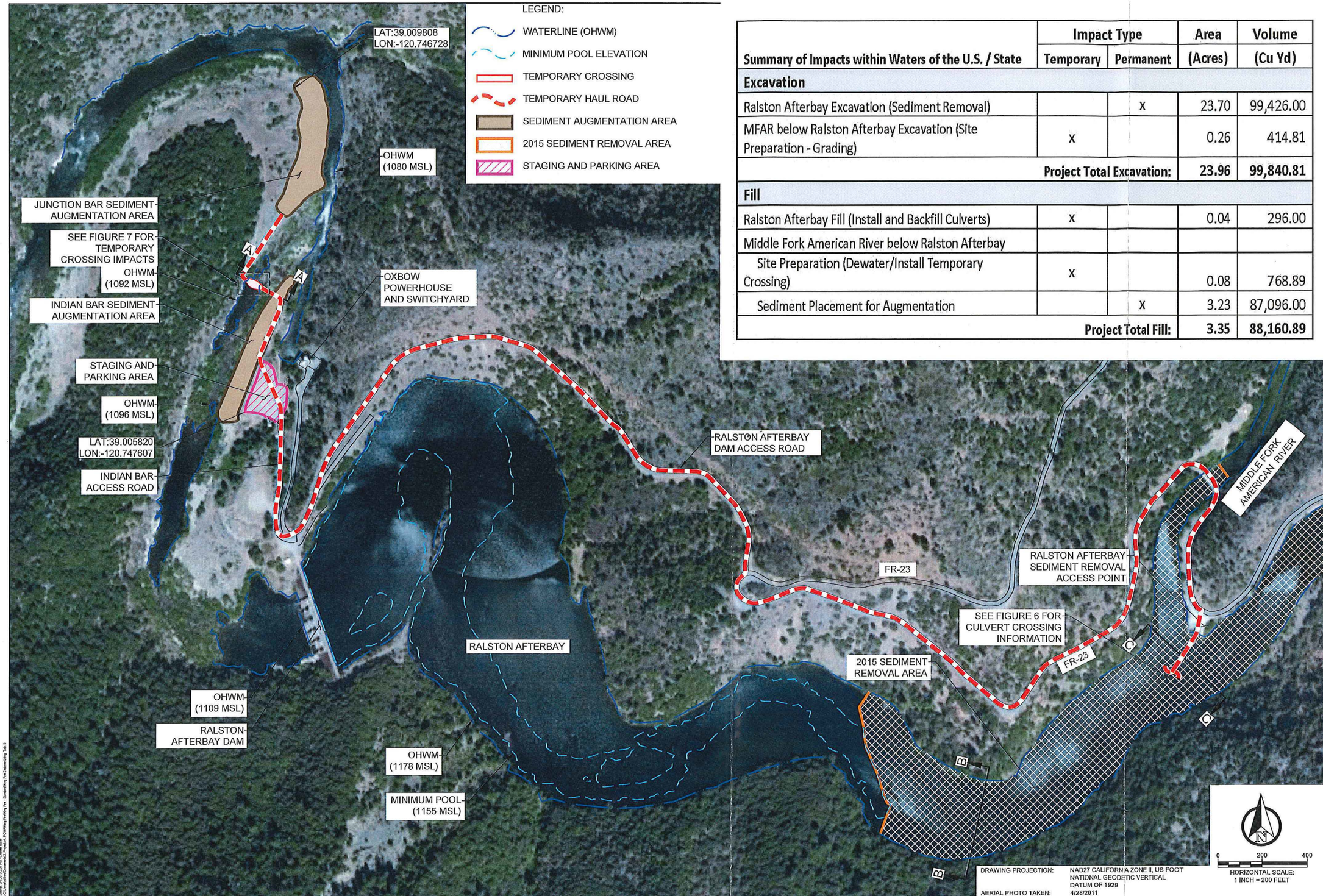
Ralston Afterbay Sediment Removal Project Proposed Work Area

0 250 500 Feet

Date: 1/7/2015

Projection: Ca. Stateplane, Zone 2
Datum: NAD 83

C:\GIS\ENTRIX\3116501\map\GeoMaps\Sediment Mgt Maps\2015_Ralston\PCWA_RalstonAfterbay_ProposedWorkArea_17i11i_01.mxd



Summary of Impacts within Waters of the U.S. / State	Impact Type: Temporary	Impact Type: Permanent	Area (Acres)	Volume (Cu Yd)
Excavation				
Ralston Afterbay Excavation (Sediment Removal)		x	23.70	99,426.00
MFAR below Ralston Afterbay Excavation (Site Preparation - Grading)	x		0.26	414.81
		Project Total Excavation:	**23.96**	**99,840.81**
Fill				
Ralston Afterbay Fill (Install and Backfill Culverts)	x		0.04	296.00
Middle Fork American River below Ralston Afterbay				
Site Preparation (Dewater/Install Temporary Crossing)	x		0.08	768.89
Sediment Placement for Augmentation		x	3.23	87,096.00
		Project Total Fill:	**3.35**	**88,160.89**

DRAWING PROJECTION: NAD27 CALIFORNIA ZONE II, US FOOT NATIONAL GEODETIC VERTICAL DATUM OF 1929

AERIAL PHOTO TAKEN: 4/28/2011

NO.	REVISIONS	DATE

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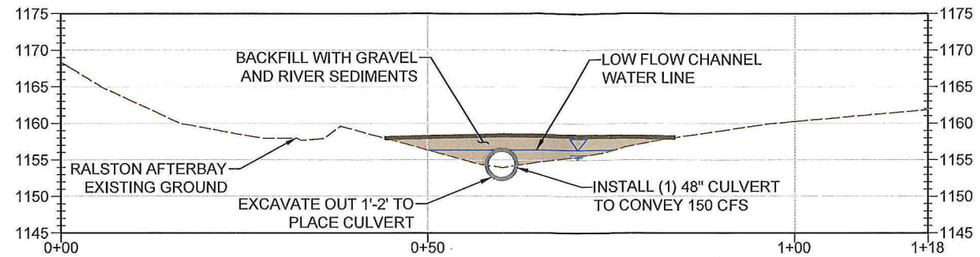
PLAN VIEW - IMPACTS WITHIN WATERS OF THE U.S.

RALSTON AFTERBAY SEDIMENT MANAGEMENT PROJECT

TAHOE NATIONAL FOREST AND ELDORADO NATIONAL FOREST

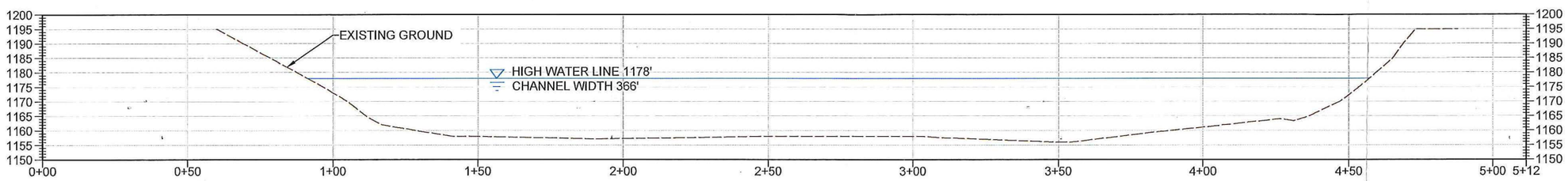
DATE:	1/2015
DRAWN BY:	JC
CHECKED BY:	CM
SCALE:	AS SHOWN
ENTRIX JOB NO.	3177630000
FIGURE NO.	5
SHEET	5 OF 2



CULVERT CROSSING TYPICAL DETAIL

0 10 20

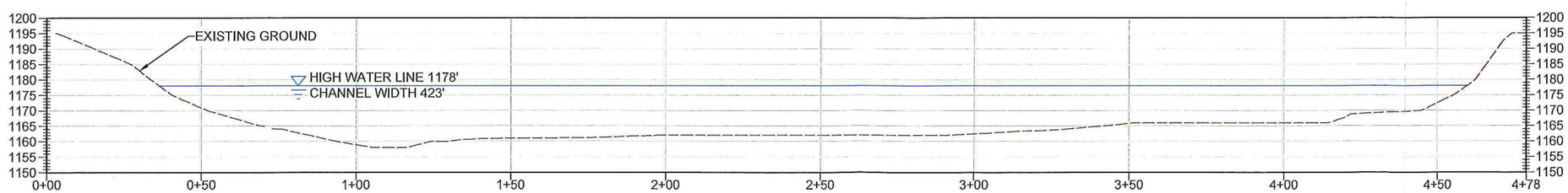
HORIZONTAL SCALE: 1 INCH = 10 FEET
VERTICAL SCALE: 1 INCH = 10 FEET



CROSS SECTION B-B

0 20 40

HORIZONTAL SCALE: 1 INCH = 20 FEET
VERTICAL SCALE: 1 INCH = 20 FEET



CONFLUENCE CROSS SECTION C-C

NO.	REVISIONS	DATE

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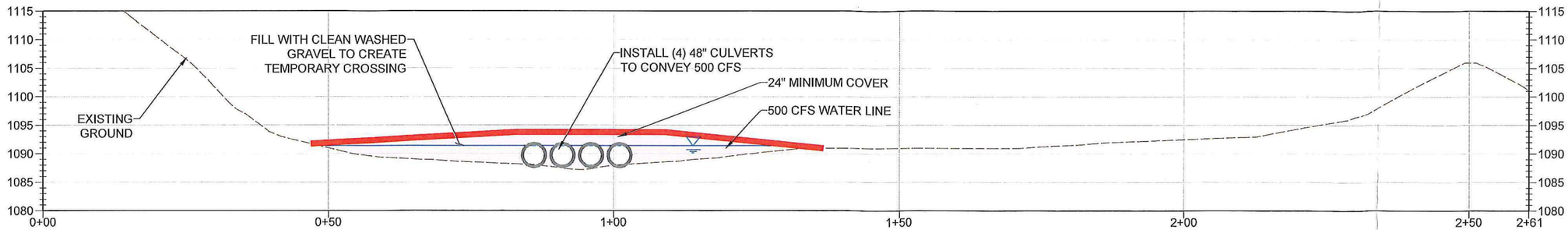
CROSS SECTION VIEW - IMPACTS WITHIN RALSTON AFTERBAY

RALSTON AFTERBAY SEDIMENT MANAGEMENT PROJECT

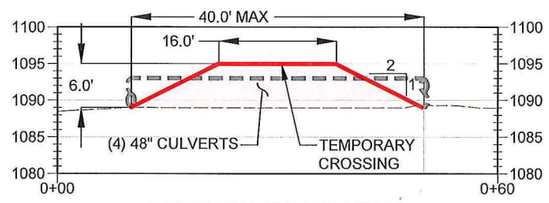
TAHOE NATIONAL FOREST AND ELDORADO NATIONAL FOREST

DATE:	1/2015
DRAWN BY:	JC
CHECKED BY:	CM
SCALE:	AS SHOWN
ENTRIX JOB NO.	3177630000
FIGURE NO.	6

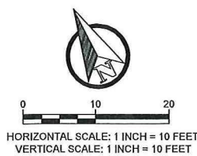
SHEET 6 OF 2



CROSSING PROFILE A-A



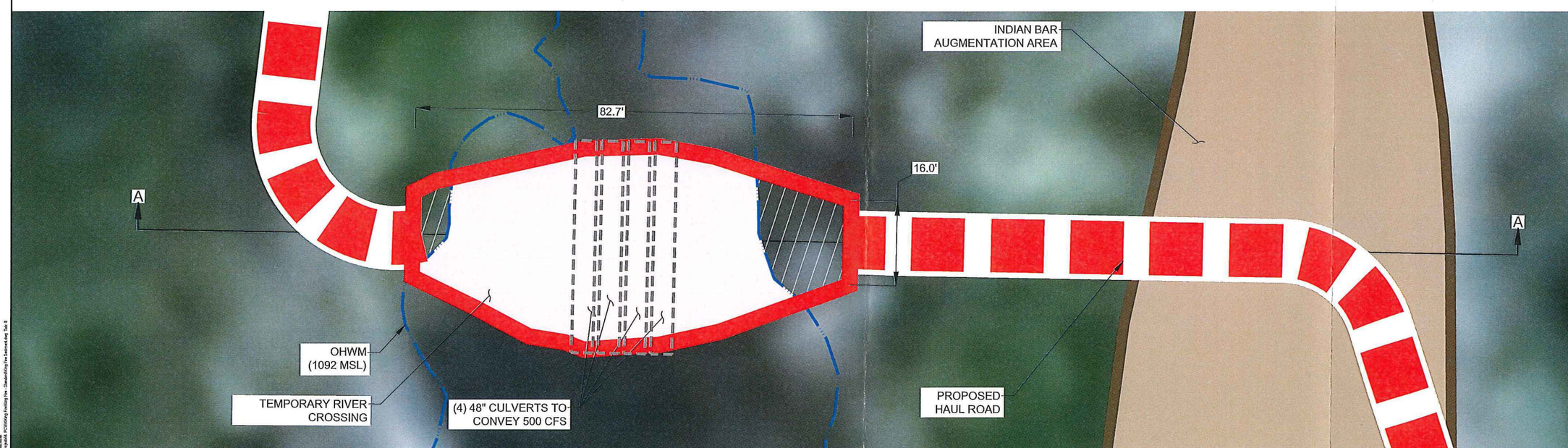
TEMPORARY CROSSING SECTION



HORIZONTAL SCALE: 1 INCH = 10 FEET
VERTICAL SCALE: 1 INCH = 10 FEET

LEGEND:

- AREA OF DISTURBANCE WITHIN OHWM
- AREA OF DISTURBANCE OUTSIDE OHWM
- ACCESS ROAD
- OHWM
- CULVERT



PLAN VIEW

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CROSS SECTION VIEW - IMPACTS WITHIN THE MIDDLE FORK AMERICAN RIVER BELOW RALSTON AFTERBAY

RALSTON AFTERBAY SEDIMENT MANAGEMENT PROJECT

TAHOE NATIONAL FOREST AND ELDORADO NATIONAL FOREST

DATE:	1/2015
DRAWN BY:	JC
CHECKED BY:	CM
SCALE:	AS SHOWN
ENTRIX JOB NO.	3177630000
FIGURE NO.	7