

Placer County Water Agency

Power System: 24625 Harrison St. • Mail: P.O. Box 667 • Foresthill, California 95631
(530) 367-2291 (530) 885-6917 FAX (530) 367-4440



A Public Agency

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January 15, 2003

**Mr. Takeshi Yamashita, Regional Engineer
FEDERAL ENERGY REGULATORY COMMISSION
901 Market Street, Suite 350
San Francisco, CA 94103 -1778**

Attention: Ms. Jill Eichbauer

**Subject: Middle Fork American River Project, FERC Project 2079
Ralston Afterbay Sediment Management Project
Indian Bar Pilot Project**

Dear Mr. Yamashita:

In October, 2002, we completed the initial construction/sediment removal and placement phase of the Ralston Afterbay Sediment Management Project / Indian Bar Pilot Project. Enclosed are three copies of this letter and the attachments.

Construction plans, the QCIP, project permits, and other documents were submitted with our August 5, 2002, August 14, 2002, and September 11, 2002 letters. We received the FERC authorization to proceed on August 29, 2002, pending our receipt of the U.S. Army Corps of Engineers Section #404 permit, which we received on September 10, 2002. Other permits for the project included the California Dept. of Fish and Game #1601 permit, the Regional and State Water Boards #401 Water Quality Certifications, and the Eldorado National Forest Special Use Permit, which were previously submitted.

Two letters to the Regional Water Quality Control Board, dated September 23, 2002, and October 22, 2002, regarding construction water quality issues, were also forwarded to FERC.

Mobilization on the project began in late August, 2002. Preparation of the Ralston Ridge spoil pile began about September 2, and preparation of the Indian Bar spoil pile began about September 11. Ralston Afterbay reservoir lowering began September 11, and additional sediment sampling required by the Department of Fish and Game was done on September 13. Excavators and other equipment were moved into the reservoir bed in the morning of September 16, when culvert installation and stream diversion began. Hauling using the 35-ton capacity articulated off-road haulers began in the evening of September 16, and continued on a 7-day per week, two 10-hour shift basis, until hauling was completed in the morning of October 3. A table showing the haul quantities from each sediment bar to each disposal area is included in the attachments, as is a map showing the primary stream diversions necessary to complete the work.

Both spoil piles were substantially completed by October 18, including improvements to the rafters river access ramp, and hydroseeding of miscellaneous areas and the Ralston Ridge pile was completed by October 24. Demobilization and cleanup was complete in early November. As-built drawings of the two spoil piles, including a typical cross-section of the Indian Bar site, are included in the attachments.

PG&E Hydro Construction forces operated the excavators, bulldozers, compactors, and loaders, with a crew of about 9 per shift. PG&E Technical Services group provided inspectors, up to 2 per shift. The hauling contractor, K.W. Emerson trucking, had about eleven teamsters per shift, plus mechanics, foremen, flaggers and traffic control personnel, and other support people.

Primary equipment included up to twelve Volvo A-35 articulated haulers, a Hitachi 800 75-ton excavator with a 7 cubic yard bucket, a Halla 50-ton excavator, a Link Belt 3900 excavator, John Deere 644G and Cat 988 loaders, two Cat D8 bulldozers, a Dynapac 14-ton vibratory sheepsfoot compactor, a Caterpillar road grader, John Deere backhoes, light towers, and miscellaneous fuel, dump, water, and pickup trucks.

No significant environmental problems occurred during the project, and the weather overall was very good. Turbidity limits were exceeded in some cases during rechanneling of the stream flows, which was reported as required to the Water Board. Minor hydraulic leaks occurred, including some blown hydraulic hoses, but these were quickly cleaned up, and any contaminated soil was placed in metal drums, and hauled to the appropriate disposal facility. No oils, greases, or fuels entered the water courses. Final cleanup included hydroseeding the areas subject to erosion, and patching damaged road surfaces.

Enclosed are the following documents:

- Table - Haul quantities from the sediment bars to the spoil piles
- Drawing - Indian Bar Sediment Pile As-built
- Drawing - Ralston Ridge Sediment Pile As-built
- Sketch – Indian Bar Sediment Pile Typical Cross Section
- Sketch – Ralston Sediment Removal Project Diversion Channel As-built
- Powerpoint Photo Presentation on CD, documenting before, during, and after conditions of construction

We will continue to monitor the two spoil piles, and perform monitoring and sampling as required by the Water Quality and Aquatic Habitat Monitoring Plan for the Ralston Afterbay Sediment Management Project Indian Bar Pilot Project, included with our August 5, 2002 letter.

If you have any questions, please call Jon Mattson or me at (530) 885-6917.

Sincerely,

PLACER COUNTY WATER AGENCY



Stephen J. Jones
Power System Manager

Attachments

CC: U.S Army Corps of Engineers, Mr. Tom Cavanaugh
CA Dept. of Fish and Game, Ms. Kris Vyverberg and Mr. Gary Hobgood
Eldorado National Forest, Mr. Tim Dabney
Tahoe National Forest, Mr. Rich Johnson
Jones and Stokes, Mr. Doug Brewer
Marie Davis
Steve Jones
Einar Maisch
Jon Mattson

RALSTON SEDIMENT REMOVAL HAUL TOTALS

JAN 4, 2003

	RALSTON	INDIAN BAR	TOTALS	% TO RALSTON	% TO INDIAN	%TOTAL
MIDDLE FORK	2625	14350	16975	2.6	14.2	16.8
BAR B	5150	7150	12300	5.1	7.1	12.2
BAR C	16900	9675	26575	16.8	9.6	26.4
BAR D	11925	27100	39025	11.8	26.9	38.7
BAR E	5550	400	5950	5.5	0.4	5.9
CY	42150	58675	100825	41.8	58.2	100
TRUCKLOADS	1686	2347	4033			
(Note: truckloads are estimated at 25 cy/ truck)						
Surveyed quantity for Ralston Ridge			28889	S&E ENGINEERING		
Bulking factor for Ralston Ridge			1.46			
Surveyed quantity for Indian Bar			45000	S&E ENGINEERING		
Bulking Factor for Indian Bar			1.30			
(Note: these bulking factors seem high, may also be as a result of load estimated quantities)						
INDIAN BAR	TRUCKLOADS					
DAY	MF	B	C	D	E	
16-Sep	98					
17-Sep	56				80	
18-Sep	3		147			
19-Sep			119			
20-Sep				147		
21-Sep				144		
22-Sep				126		
23-Sep		98	20			
24-Sep		156				
25-Sep		27		180		
26-Sep				246		

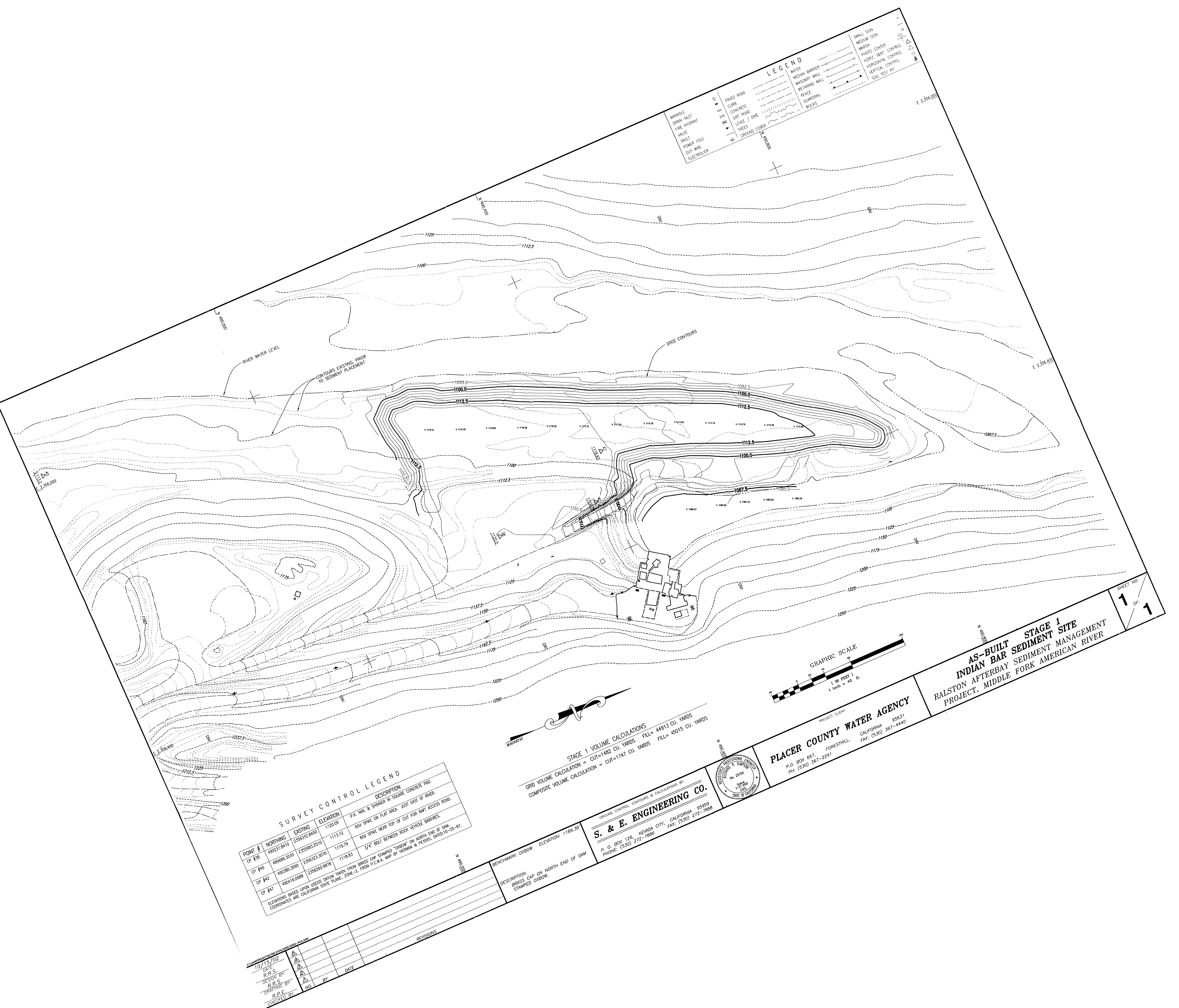
RALSTON SEDIMENT REMOVAL HAUL TOTALS

JAN 4, 2003

27-Sep	106	3					
28-Sep	144	2	82				
29-Sep	111		13	126			
30-Sep	56						
1-Oct			6				
2-Oct				35	16		
TRUCKLOADS	574	286	387	1084	16	2347	58675
CY	14350	7150	9675	27100	400		
RALSTON RIDGE							
DAY	MF	B	C	D	E		
16-Sep							
17-Sep				61			
18-Sep				60			
19-Sep				80			
20-Sep					85		
21-Sep					86		
22-Sep					90		
23-Sep		22			81		
24-Sep		36	36				
25-Sep		5			33		
26-Sep					77		
27-Sep		138					
28-Sep	37	5	96	15			
29-Sep	50		68				
30-Sep			141				
1-Oct	18		134	10	125		
2-Oct					97		
TRUCKLOADS	105	206	676	477	222	1686	42150
CY	2625	5150	16900	11925	5550		

LEGEND

MANHOLE	PAVED ROAD	WATER	SMALL SIGN
DRAIN INLET	CURB	MEDIAN BARRIER	MEDIUM SIGN
FIRE HYDRANT	CONCRETE	MASONRY WALL	MARSH
VALVE	DIRT ROAD	RETAINING WALL	PHOTO CENTER
VAULT	LOOSE / DIRT	FENCE	HORIZ. VERT. CONTROL
POWER POLE	TREES	QUADRAL	HORIZONTAL CONTROL
CITY WIRE	GROUND COVER	ROCKS	VERTICAL CONTROL
ELECTRIC			SOIL TEST PIT

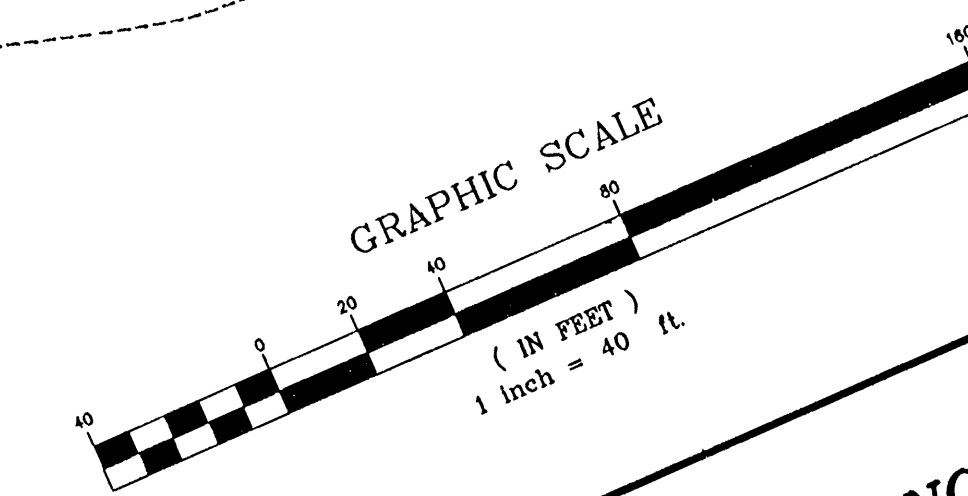


SURVEY CONTROL LEGEND

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP #38	490257.8410	235612.8450	1120.09	P.A. WALL & SKINNER IN SQUARE CONCRETE PAD.
CP #40	490586.3030	235683.2510	1113.12	600 SPIKE ON FLAT AREA JUST EAST OF RIVER.
CP #42	490380.3990	235632.3010	1119.79	600 SPIKE NEAR TOP OF CUT FOR RAMP ACCESS ROAD.
CP #47	490416.0888	235628.3678	1116.83	5/4" BOLT BETWEEN ROCK VEHICLE BARRIERS.

ELEVATIONS BASED UPON USGS DATUM TAKEN FROM BRASS CAP STAMPED "OXBOW" ON NORTH END OF DAM.
COORDINATES ARE CALIFORNIA STATE PLANE, ZONE-2, FROM P.E.W.A. MAP BY HENMAN & PETERS, DATED 10-23-87.

STAGE 1 VOLUME CALCULATIONS
GRID VOLUME CALCULATION = CUT=1482 CU. YARDS FILL= 44913 CU. YARDS
COMPOSITE VOLUME CALCULATION = CUT=1747 CU. YARDS FILL= 45015 CU. YARDS



PLACER COUNTY WATER AGENCY
PROJECT CLIENT
P.O. BOX 667, FORESTHILL, CALIFORNIA 95631
PH: (530) 367-2291 FAX: (530) 367-4440

**AS-BUILT STAGE 1
INDIAN BAR SEDIMENT SITE**
RALSTON AFTERBAY SEDIMENT MANAGEMENT
PROJECT, MIDDLE FORK AMERICAN RIVER

SHEET NO. **1** OF **1**

REVISIONS

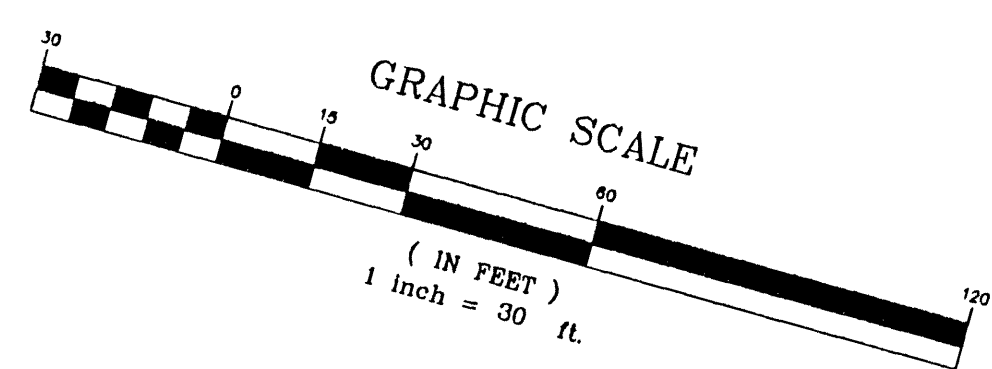
NO.	BY	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

S. & E. ENGINEERING CO.
GROUND CONTROL CONTOURS & CALCULATIONS BY:
P. O. BOX 126, NEVADA CITY, CALIFORNIA 95959
PHONE: (530) 272-7888 FAX: (530) 272-7888

BENCHMARK: OXBOW ELEVATION: 1189.38'
DESCRIPTION:
BRASS CAP ON NORTH END OF DAM
STAMPED OXBOW.

LEGEND	
MANHOLE	PAVED ROAD
RAIN INLET	CURB
FIRE HYDRANT	CONCRETE
VALVE	DIRT ROAD
VAULT	LEVEE / DIKE
POWER POLE	TREES
GUY WIRE	GROUND COVER
ELECTROLIER	
	WATER
	MEDIAN BARRIER
	MASONRY WALL
	RETAINING WALL
	FENCE
	GUARDRAIL
	ROCKS
	SMALL SIGN
	MEDIUM SIGN
	MARSH
	PHOTO CENTER
	HORIZ. VERT. CONTROL
	HORIZONTAL CONTROL
	VERTICAL CONTROL
	SOIL TEST PIT

STAGE 2 VOLUME CALCULATIONS	
GRID VOLUME CALCULATION =	28,798 CU. YARDS
COMPOSITE VOLUME CALCULATION =	28,889 CU. YARDS
REMAINING VOLUME TO FINAL DESIGN	
GRID VOLUME CALCULATION =	47,797 CU. YARDS
COMPOSITE VOLUME CALCULATION =	47,840 CU. YARDS



REVISIONS			
NO.	BY	DATE	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

BENCHMARK:

DESCRIPTION:

TANK, 2.4' WEST OF LADDER.

S. & E. ENGINEERING CO.

P. O. BOX 128, NEVADA CITY, CALIFORNIA 95959

PHONE: (530) 272-7886 FAX: (530) 272-7888



PLACER COUNTY WATER AGENCY

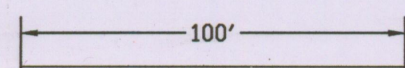
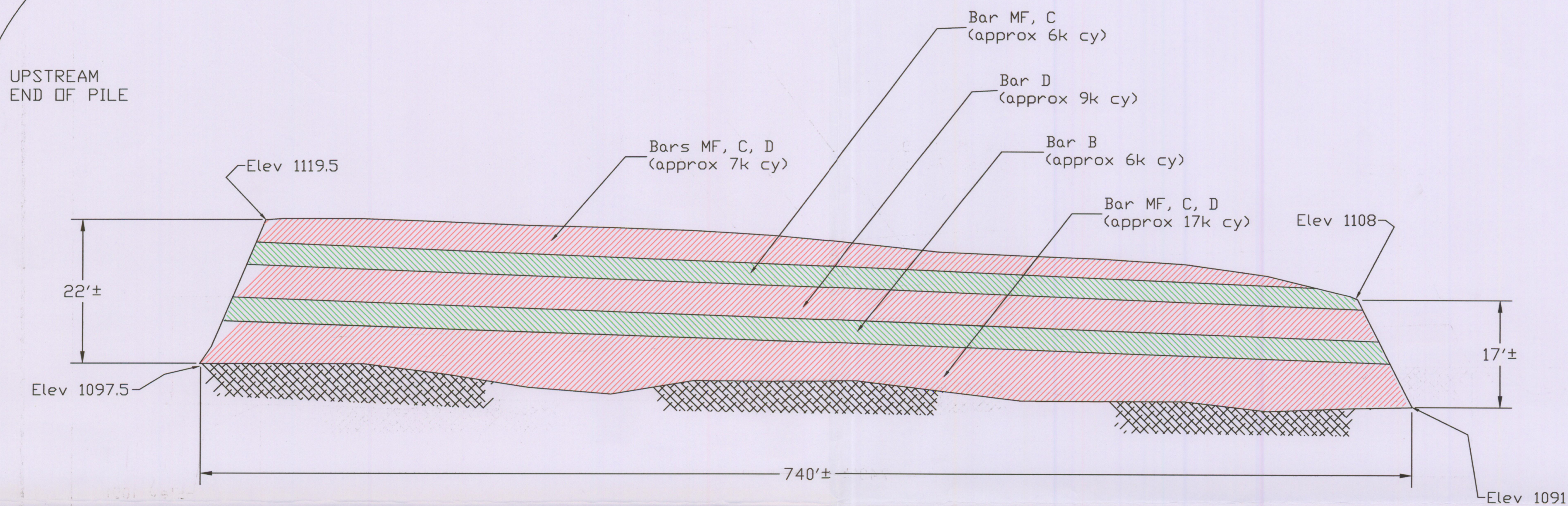
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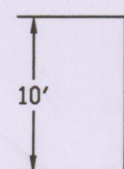
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP #2	4537.92	4664.13	2530.00	1" CHISELED IN STEEL BASE OF SURGE TANK ABOUT 2.4' WEST OF LADDER.
CP #4	4966.92	4688.56	2428.09	60" SPIKE ON PAD JUST NORTH OF OVERSIDE DITCH.
CP #5	5109.48	4768.71	2426.21	60" SPIKE NEAR TOP OF FILL AT NWLY CORNER OF MAIN PAD.
CP #6	4838.00	4935.00	2461.81	3/4" REBAR ON TOP OF CUT BANK, SE'LY OF THE MAIN BASIN.

AS-BUILT STAGE 2
SEDIMENT PLACEMENT
MIDDLE FORK AMERICAN RIVER PROJECT

SHEET NO.
1
OF
1



Horizontal
SCALE

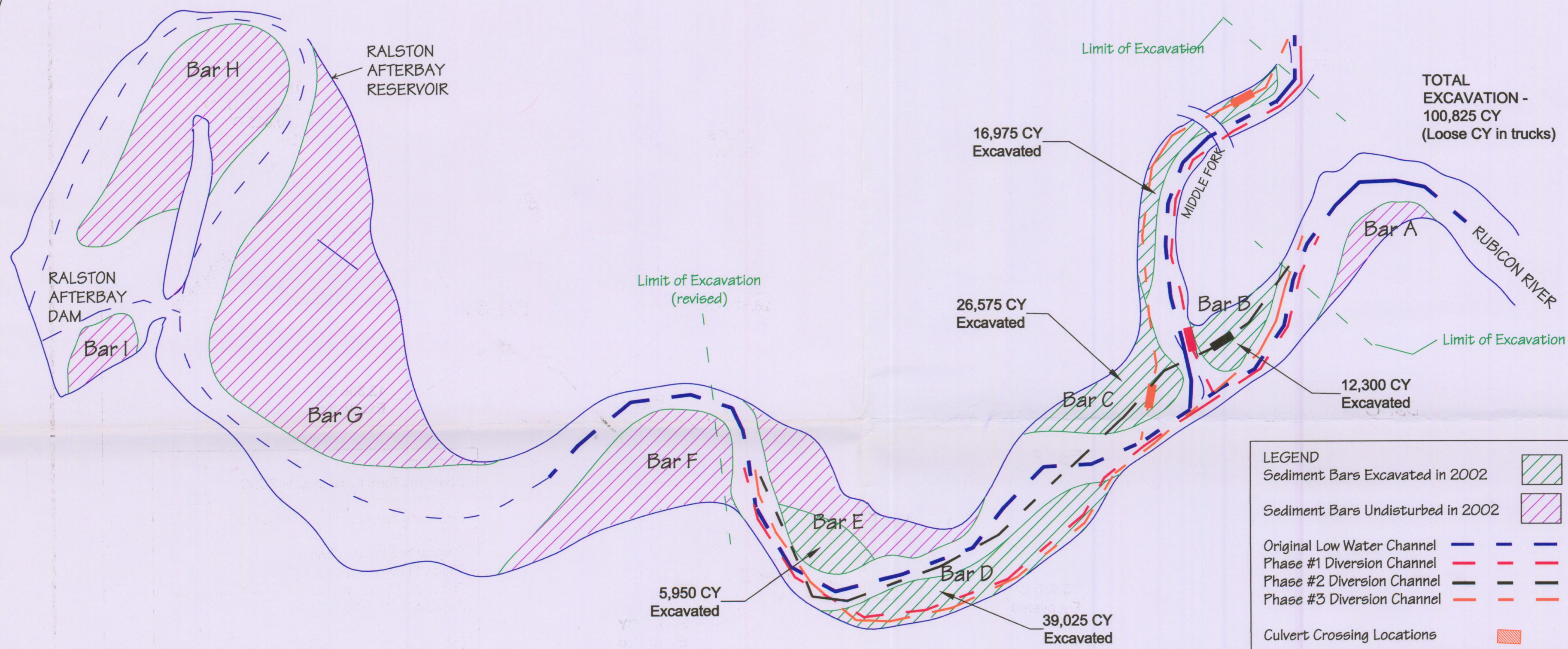


Vertical

Indian Bar Sediment Pile Approximate Typical Cross-Section

PLACER COUNTY WATER AGENCY
POWER SYSTEM DIVISION — FORESTHILL, CA.

Drawn: J Mattson, 1/14/03



RALSTON AFTERBAY SEDIMENT REMOVAL PROJECT - 2002 DIVERSION CHANNEL AS-BUILT

PLACER COUNTY WATER AGENCY
 POWER SYSTEM DIVISION — FORESTHILL, CA.

Drawn: J Mattson, 1/14/03