

**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

January 28, 1997

To: Board of Directors (Engineering and Operations Committee--Information)

From: *for* General Manager

Submitted by: Gary M. Snyder
Chief Engineer

Timothy D. ...

Gary M. Snyder

Subject: Quarterly Project Status Report for the Eastside Reservoir Project - October through December 1996

RECOMMENDATION

For information only.

EXECUTIVE SUMMARY

The fourteenth quarterly Project Status Report for the Eastside Reservoir Project is provided as an Executive Summary, highlighting significant items of progress during the second quarter ending December 1996, and the current cost and schedule status of the project. Project details are available in the Monthly Status Reports.

Several milestones were reached this quarter. Notice to Proceed (NTP) was issued on the East Dam, and the contractor has mobilized 110 pieces of earth-moving equipment. NTP was also issued on the P-1 Pressure Tunnel, and work began on rock bolting and excavation of the face for the tunnel. Bids were opened on the Inlet/Outlet (I/O) Tower, and the recommended contractor was approved by your Board in January 1997.

Regarding ongoing construction contracts, the Northwest Access Road by Fleming Engineering is 85% complete, with paving completed; the Eastside Pipeline by Advanco Constructors is 99% complete, with hydrotesting and final grading to be completed. The West Dam, Saddle Dam and Forebay contract by Atkinson-Washington-Zachry (AWZ) is 26% complete. AWZ reached the milestone for delivery of the first million tons of 6" minus rock to the East Dam contractor on schedule in December 1996. Work has fallen behind on the milestone for completion of Stage I of the I/O Tower Channel excavation as well as placement of embankment materials in the West Dam. The impact of these delays, estimated at up to 3 months, is under review to assess the effect on the overall West Dam construction schedule.

Design for the Inland Feeder Pressure Control Structure (formerly PC-1) is completed and advertising is scheduled for February 1997. Design of the Secondary Inlet is approximately 30% complete. Exploration for North Rim remediation is ongoing and will be completed in January 1997. Design of the Signal Spillway is approximately 30% complete .

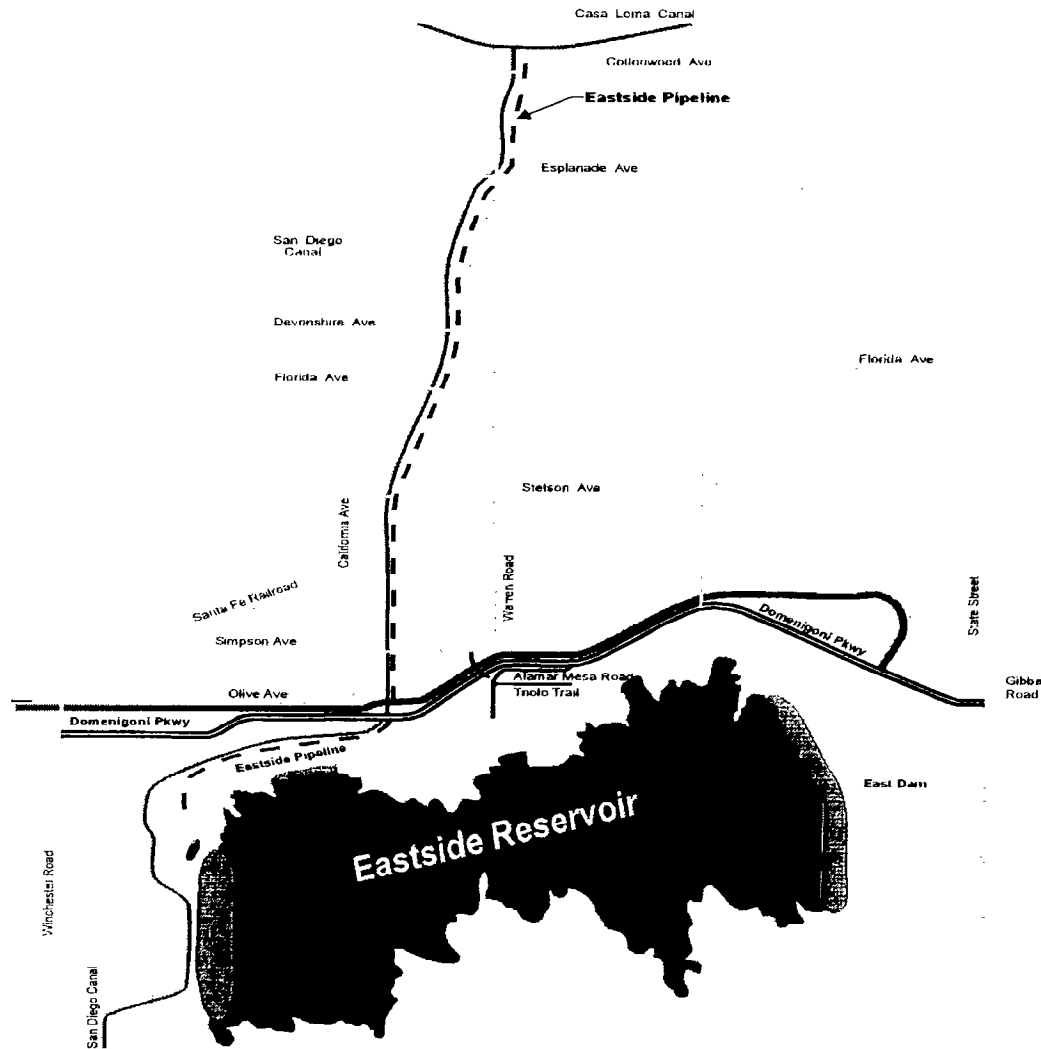
On November 27, 1996 the Superior Court of the County of Los Angeles ruled in Metropolitan's favor in Associated Building Contractor, Inc. vs MWD (Case No. B5041945). The court ruled that requiring assent to the Project Labor Agreement does not conflict with the competitive bid law, the Right of Free Association, equal protection and the California Labor Code.

Final concept drawings defining the recreational facilities and related scopes of work for each of the planned features was completed.



Eastside Reservoir Project

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA



*Quarterly
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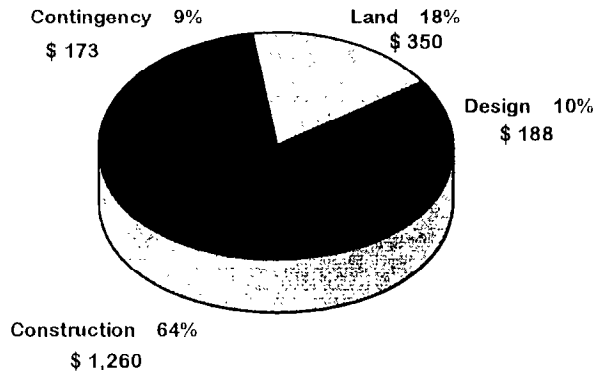
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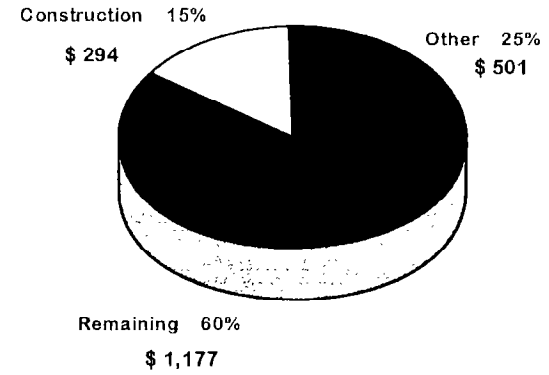
Project Budget

(in millions)

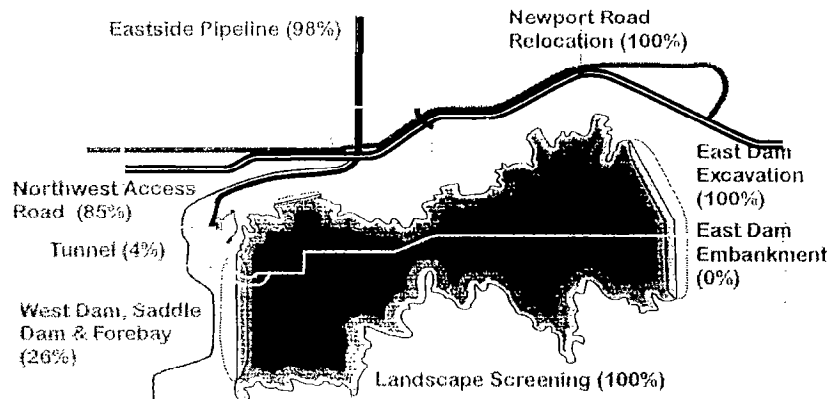


Project Expenditures

(in millions)

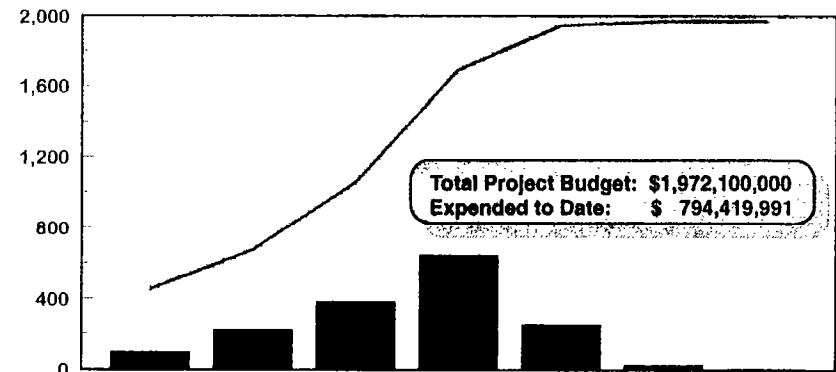


Progress Summary



Project Cash Flow

\$ Millions

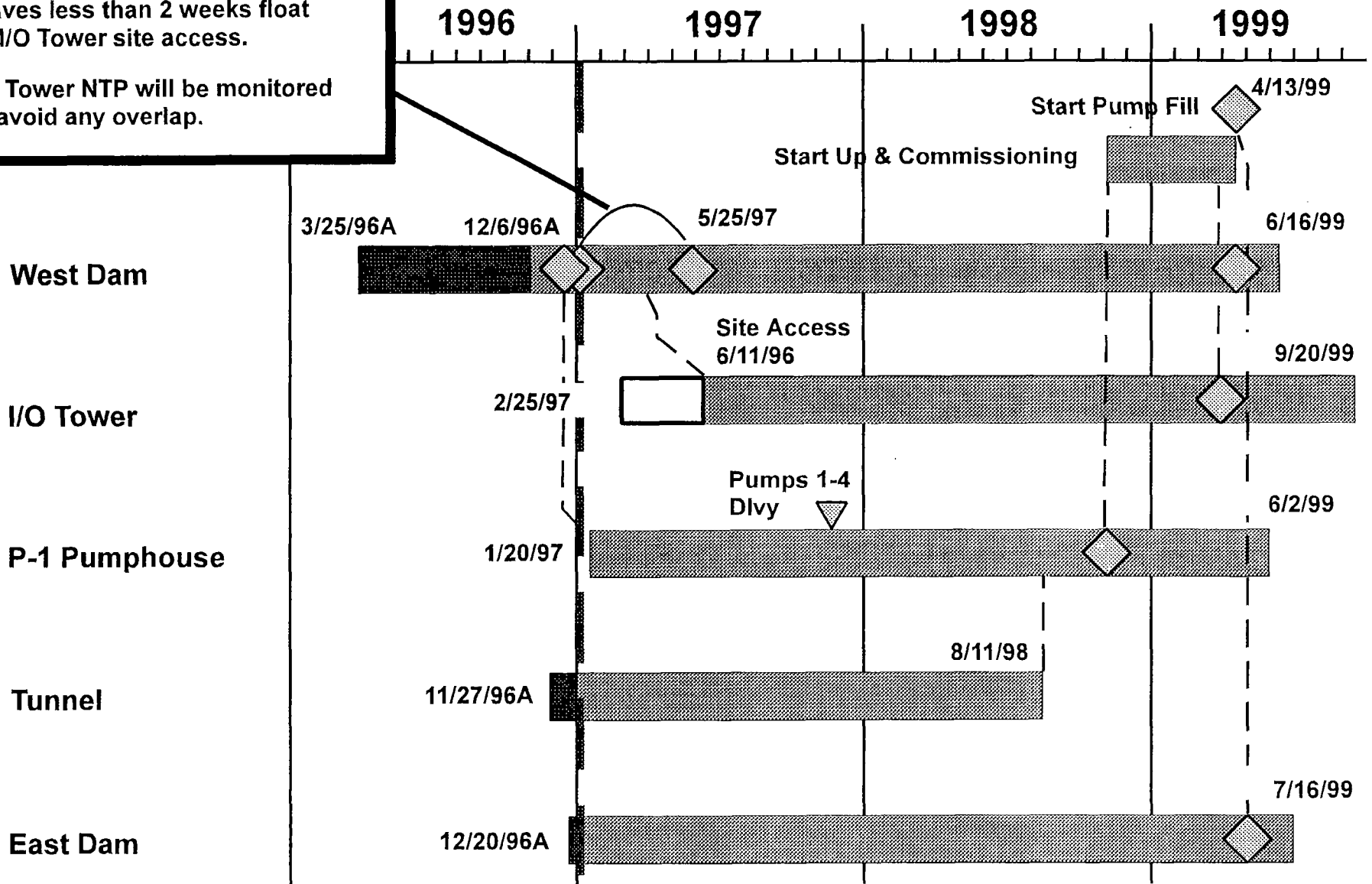


	Actual - Jun 95	Actual - Jun 96	96/97	97/98	98/99	99/00	00/01
Increment	93.2	217.6	381.8	640.2	250.4	24.3	3.2
Cumulative	454.6	672.2	1,054.0	1,694.2	1,944.6	1,968.9	1,972.1



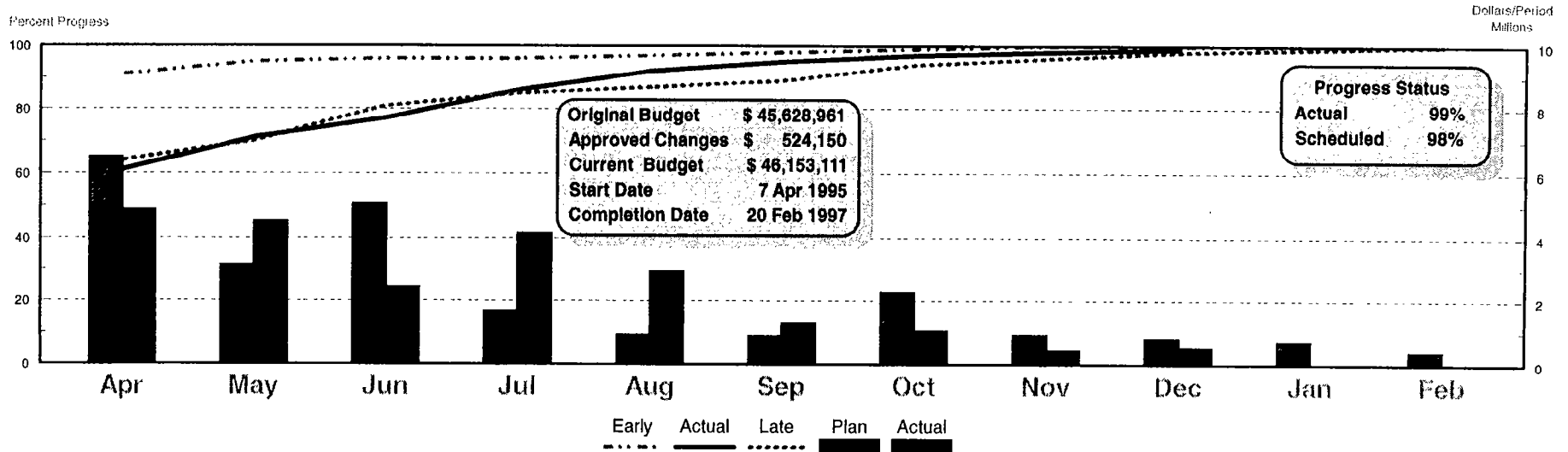
5 months slip to I/O channel stage 1 excavation milestone leaves less than 2 weeks float to I/O Tower site access.

I/O Tower NTP will be monitored to avoid any overlap.



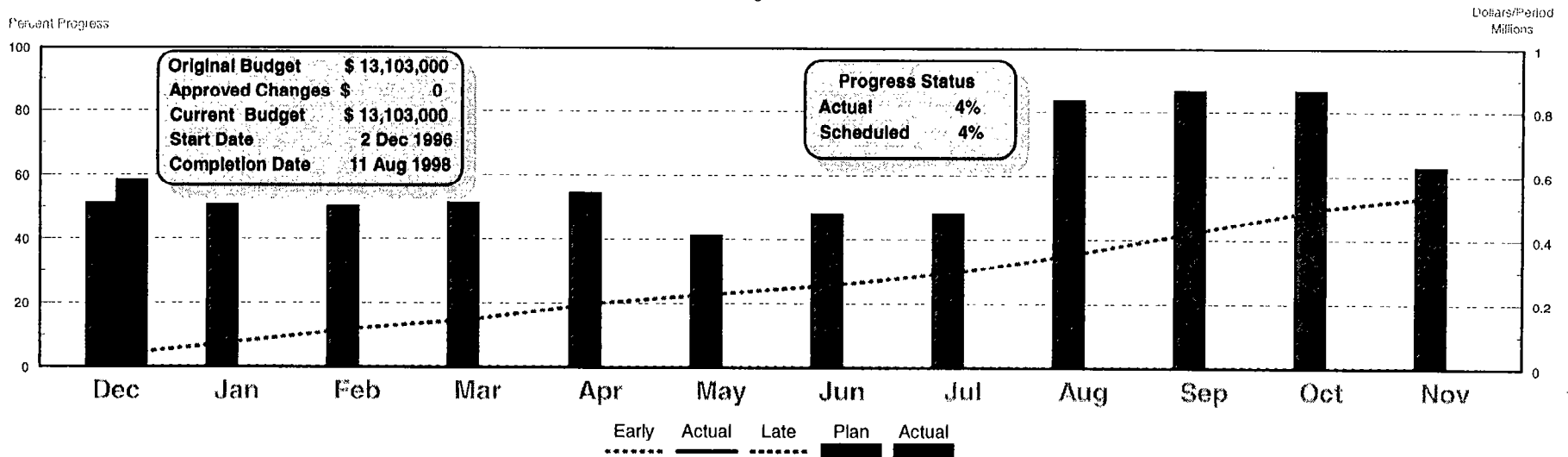
Eastside Pipeline Construction

Advanco Constructors
Progress Curve



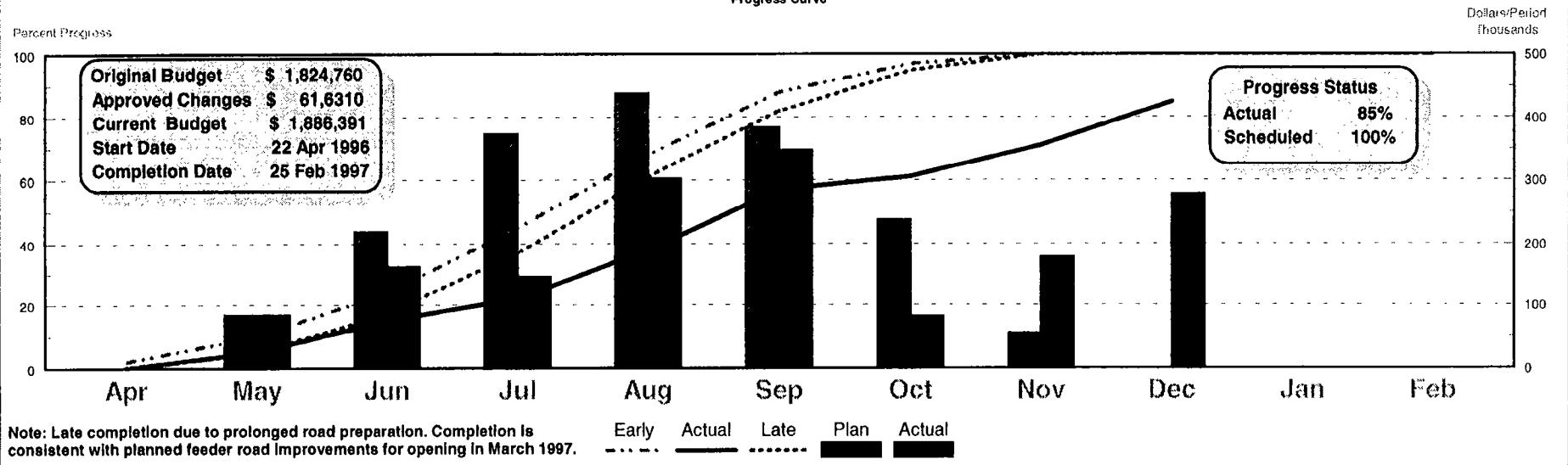
P-1 Pressure Tunnel

Atkinson-Washington-Zachry, a Joint Venture
Progress Curve



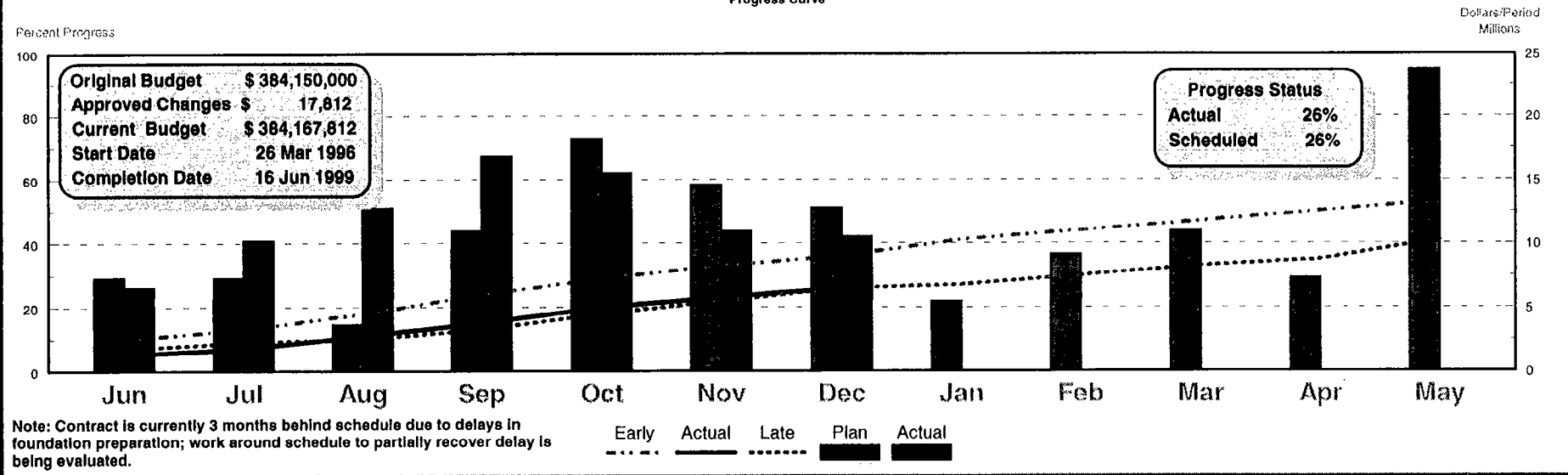
Northwest Access Road to Overlook

Fleming Engineering Inc.
Progress Curve



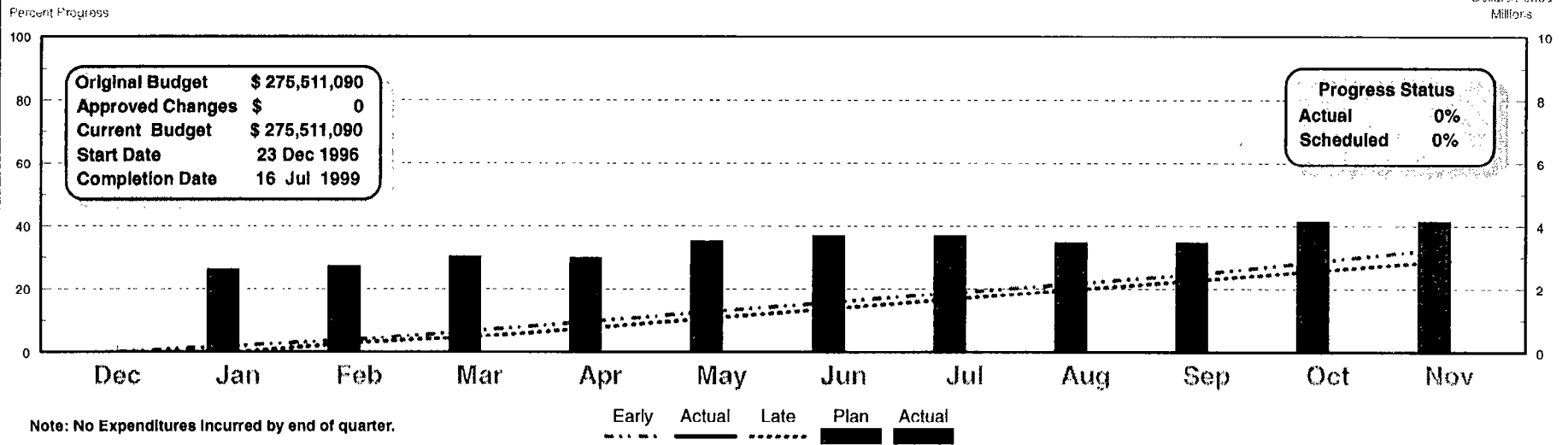
West Dam, Saddle Dam, and Forebay

Atkinson-Washington-Zachry, a Joint Venture
Progress Curve



East Dam Embankment

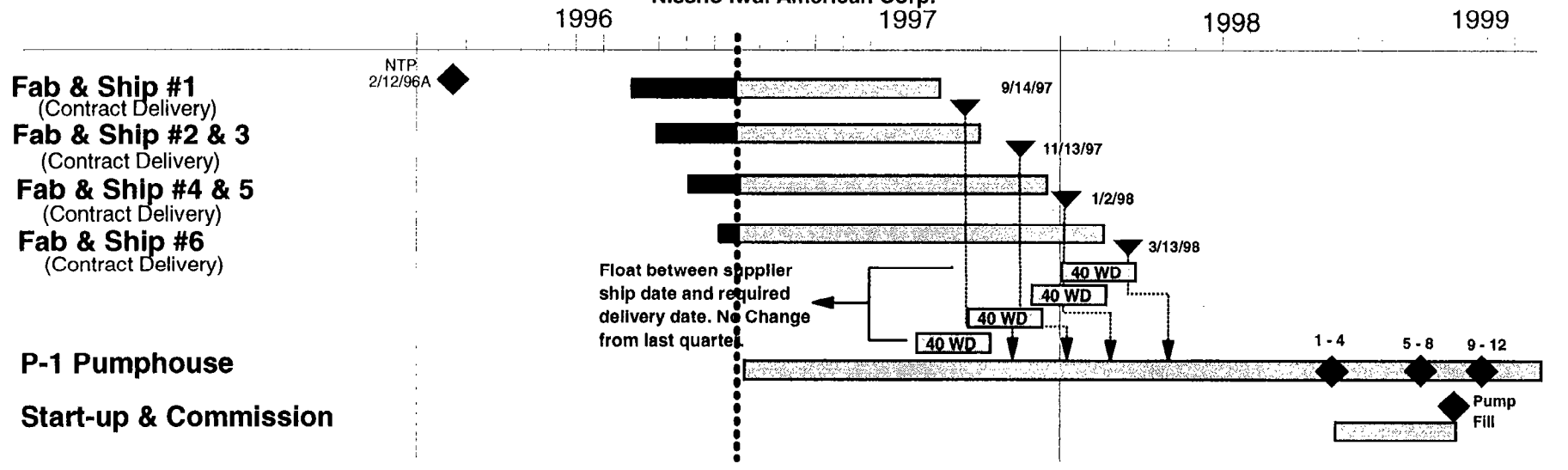
Kiewit-Granite, a Joint Venture
Progress Curve

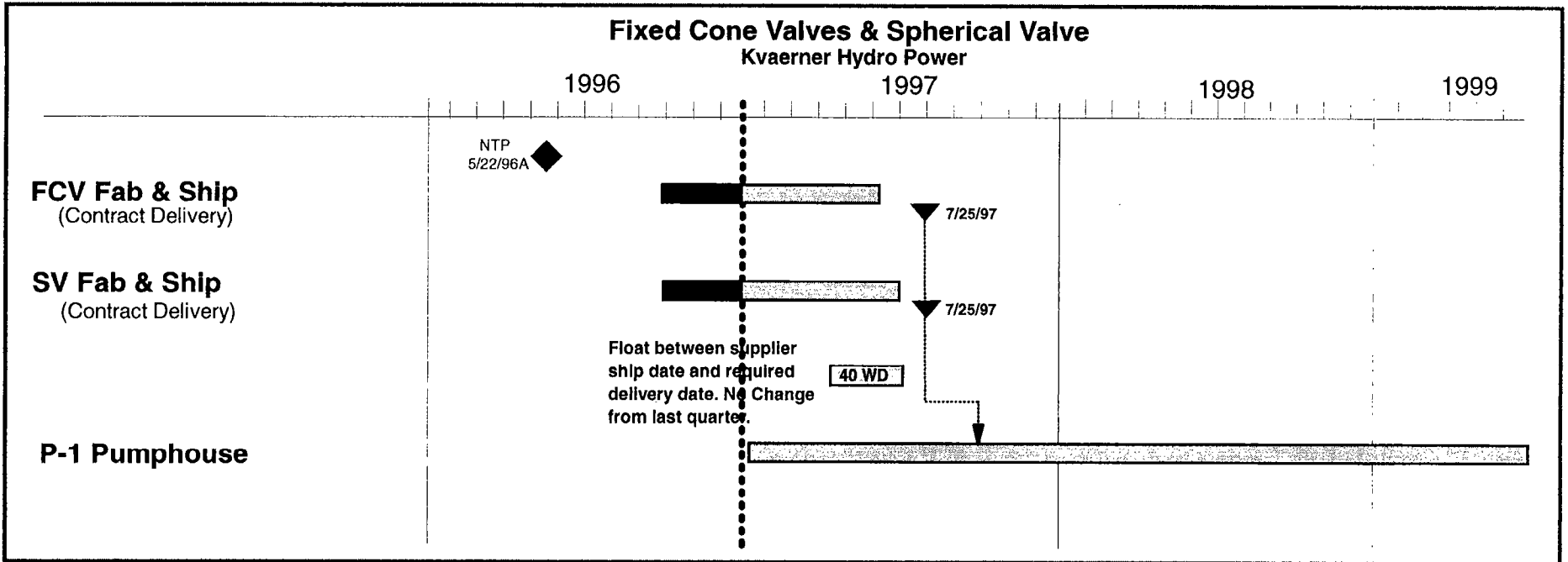
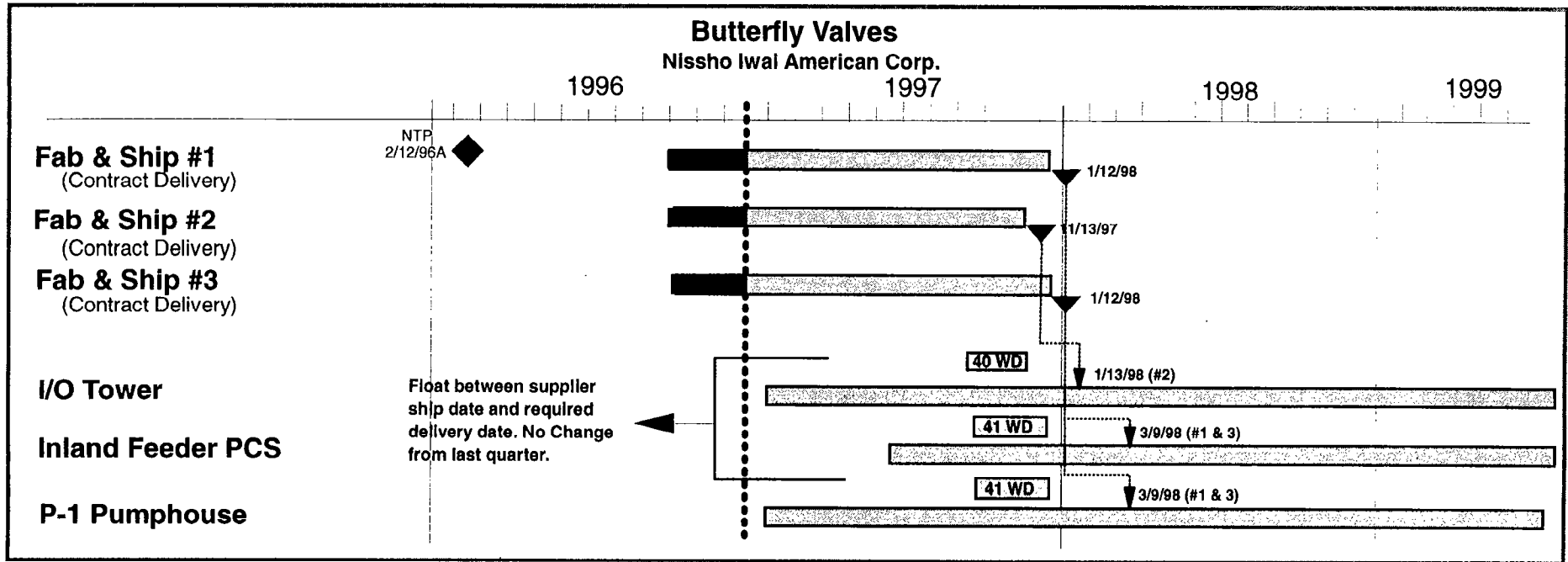


Procurement

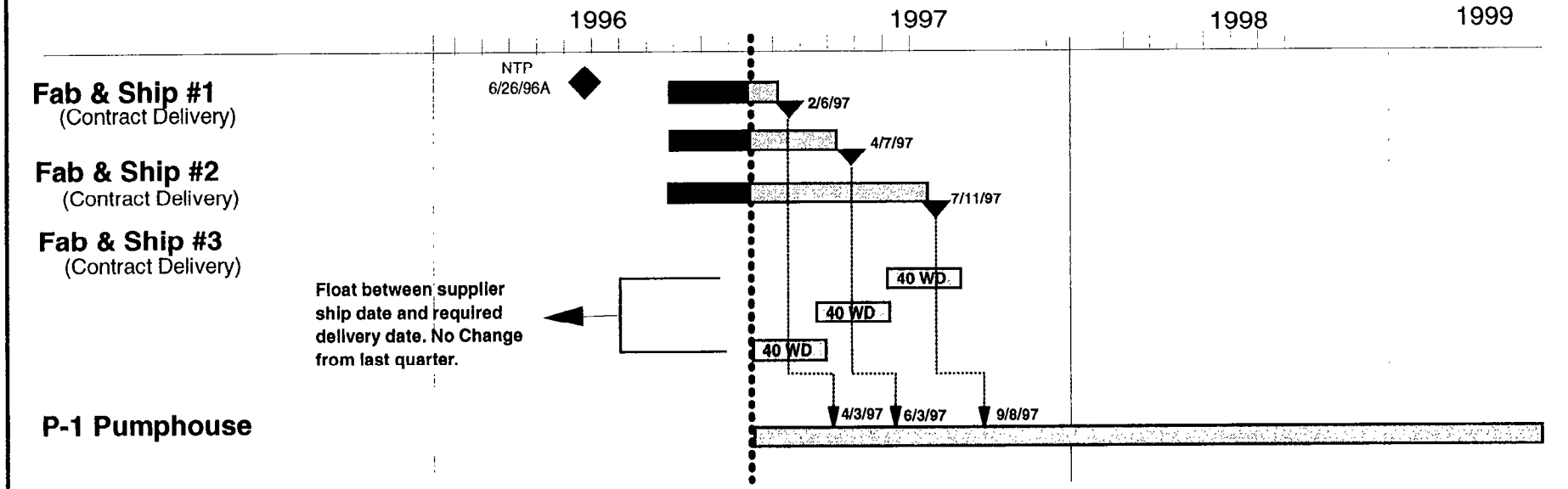
Pump & Motor Deliveries

Nissho Iwai American Corp.

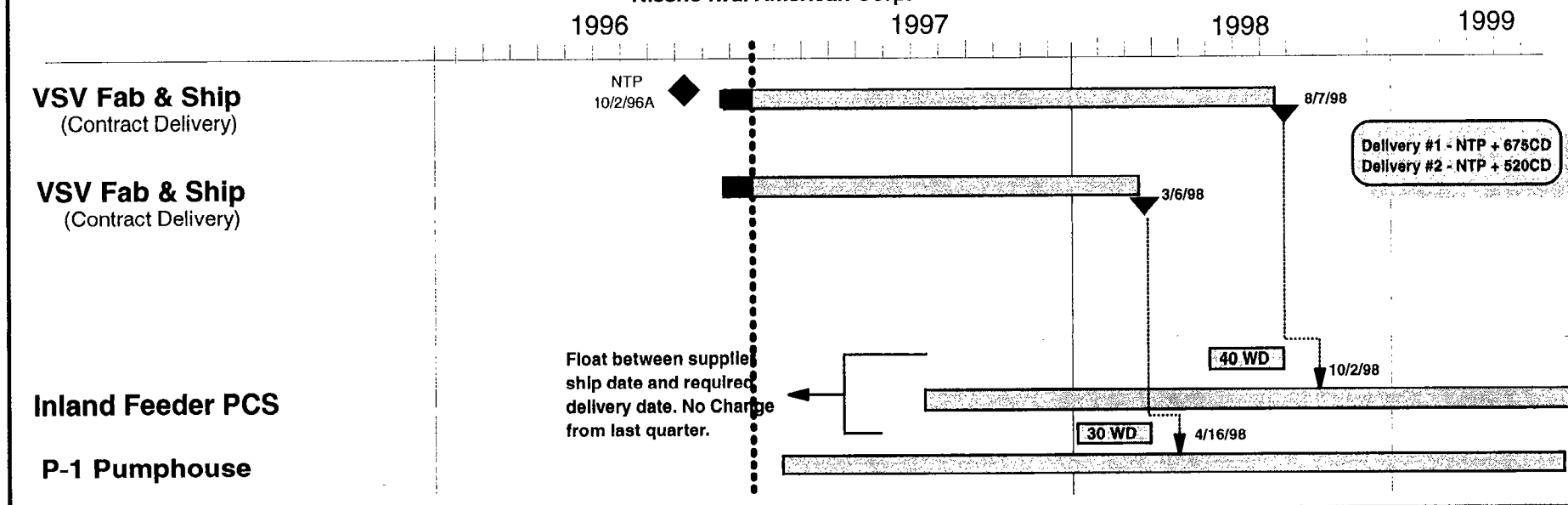




Fabricated Steel Pipe and Fittings for P-1 Yard Piping Ameron Inc.



Electric Motor Operated Vertical Sleeve Valves Nissho Iwai American Corp.



Upcoming Construction Packages

DESCRIPTION	ADVERTISE	CONSTR.		COMMENTS
		NTP		
East Dam Embankment	06/21/96	12/19/96		Contractor commenced work on 23 December.
Tunnel	07/01/96	11/27/96		Contractor commenced work on 2 December.
Power Line To P-1	n/a	12/02/96		Southern California Edison to perform all work.
P-1 Pumphouse	08/20/96	01/20/97		Start of work pending approval of Affirmative Action Plan and safety documents.
Landscape Screening Domenigoni Parkway	08/30/96	1/17/97		Notice of award was issued on 18 December.
Inlet / Outlet Tower	09/24/96	02/25/97		Board approval on 14 January.
Inland Feeder Pressure Control Structure	02/12/97	06/25/97		Design has been completed.
Secondary Inlet	06/23/97	10/14/97		30% design to complete 31 January. Final design to complete in June.
Signal Spillway	n/a	n/a		60% design to complete 15 January. Construction to be added to an existing contract.
Fencing	04/11/97	09/03/97		—
Recreation	08/04/97	05/04/98		100 scale conceptual drawings are complete. Preliminary work scopes for each package are nearing completion. Will present the plan Board next quarter, after which advertisement and selection of design and concession firms will commence.
North Rim Remediation	10/02/97	02/03/98		Exploration work to complete end of January.
Site Completion	09/02/98	12/30/98		—

Completed Construction Contracts

(Finish Dates)

Vegetation Clearing (2 Contracts) 3/31/93 ✕ San Diego Canal Relocation 3/18/94 ✕ Field Office 12/7/94
 Temporary Visitor Center 6/29/95 ✕ High Water Road 3/31/95 ✕ San Diego Canal Demolition 4/24/95
 West Dam Foundation & Excavation 1/26/96 ✕ East Newport Road Relocation 6/7/96
 Landscape Screening 6/16/96 ✕ East Dam Excavation 7/8/96

MBE / WBE Participation

CONTRACT	WBE *	MBE *	% CONTRACT FUNDS EXPENDED	COMMENTS
West Dam, Saddle Dam & Forebay	29.2%	18.5%	26.0%	—
Eastside Pipeline	95.1%	99.5%	98.0%	Additional MBE work at end of contract.
Northwest Access Road	0.0%	77.8%	80.0%	Additional MBE work at end of contract.
Southern California Associates (CM)	41.1%	56.8%	36.0%	—
East Dam Excavation	95.6%	57.4%	100.0%	Contract scope reduced for quantity underrun.
Newport Road	91.7%	99.3%	100.0%	—
Landscape Screening @ Winchester / State	40.4%	117.0%	100.0%	WBE will work with MWD following planting.
West Dam Foundation	87.5%	109.0%	100.0%	—

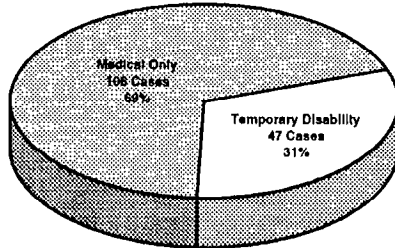
* Subcontractor Percent of Goal Complete

Community Relations

	ATTENDEES	NUMBER OF EVENTS	CALLERS
Public Affairs			Toll-free Telephone Line 268
Inspection Trips	—	13	Brochures Requested 28
Tours / Events	2,470	20	Added To Mailing List 22
Speakers Bureau	400	9	Construction Information 77
Government Relations			Project Description 51
Presentations	100	4	Construction Program 41
Helicopter Tours	—	3	Recreation 51
Visitor Center	6,550	—	Specific Info Requests 24
			Archaeology 7
			Multi-Species Reserve 7

Total Claims through December 31, 1996

FIRST AID STATION THIS QUARTER
 First Aid Cases: 58
 Industrial Case Referrals: 27
 Follow-up Visits: 74
 Non-Industrial Cases: 65
 Post Accident Drug Screens: 31



CASES
 Open: 60
 Closed: 93
 Settled: 2
 To Mediation/Arbitration: 0
 Currently Receiving Temporary Disability Benefits: 20
 With Workers' Compensation Attorney: 3
 With Third Party Attorney: 2

Claims Costs Thru December 1996

TOTAL RESERVES	\$ 1,622,466
(Reserves: Moneys set aside for total potential costs for current cases)	
TOTAL PAID	\$ 513,136
AVERAGE PER CASE	\$ 3,367
TOTAL PAID CLOSED CASES	\$ 91,193
AVERAGE PER CASE	\$ 980
TOTAL PAID OPEN CASES	\$ 423,943
AVERAGE PER CASE	\$ 6,309

* California Workers' Compensation Institute 4/23/96 report indicates an average claim cost for all claims was \$4835 in 1993.

Total Incident Rates

