

Staff Report

for the Board of Director's Meeting of June 8, 2016

TO: Board of Directors

FROM: Gary King, Engineering Manager
Adrian Schneider, Senior Engineer

DATE: June 1, 2016

SUBJECT: Shale Ridge Tanks Phase II Pipeline Project

ENGINEERING

RECOMMENDATION:

Authorize the construction of Phase II of the Shale Ridge Road Tanks Pipeline project, approve a change order in the amount of \$572,684 to Hansen Bros. Enterprises for its construction, approve a \$600,000 budget amendment for the project, and authorize the General Manager to sign the appropriate documents.

BACKGROUND:

The inadequate connection between the water treatment plant and Shale Ridge tanks have caused water quality issues such as poor tank circulation and inadequate chlorine contact time. These issues are major contributors to increased disinfection byproducts (DPB's) that are, at times, approaching the maximum contaminant level. To reduce water age, and DBP's, and to increase circulation, a multi-year/multi-phase 4,600-foot long dedicated 24-inch diameter transmission main is planned and being built to directly connect the Shale Ridge tanks with the North Auburn Water Treatment Plant.

On March 18, 2015, a phased approach (see figure) to this pipeline was presented to the Board. Phase 1 of this treated water is part of the Rock Creek Siphon project; the District is installing 1,200 feet of the 24-inch drinking water transmission main between Locksley Lane and Shale Ridge Road with the construction of the 36-inch raw water pipeline. If approved, Phase 2 will be installed within Locksley Lane and Shale Ridge Road. Phase 2 construction would require a change order to the existing Hanson Brothers contract for the 24" pipeline in the amount of \$572,684 adding an additional 860 feet of pipe. The Budget Amendment request is \$600,000 for the work including potential contingencies (\$27,316). Staff is anticipating budgeting Phases 3, 4, and 5 in 2017 for this 24-inch pipeline construction.

On May 17, 2016, Engineering Committee recommended this change order and budget amendment to the Board for approval.

BUDGETARY IMPACT:

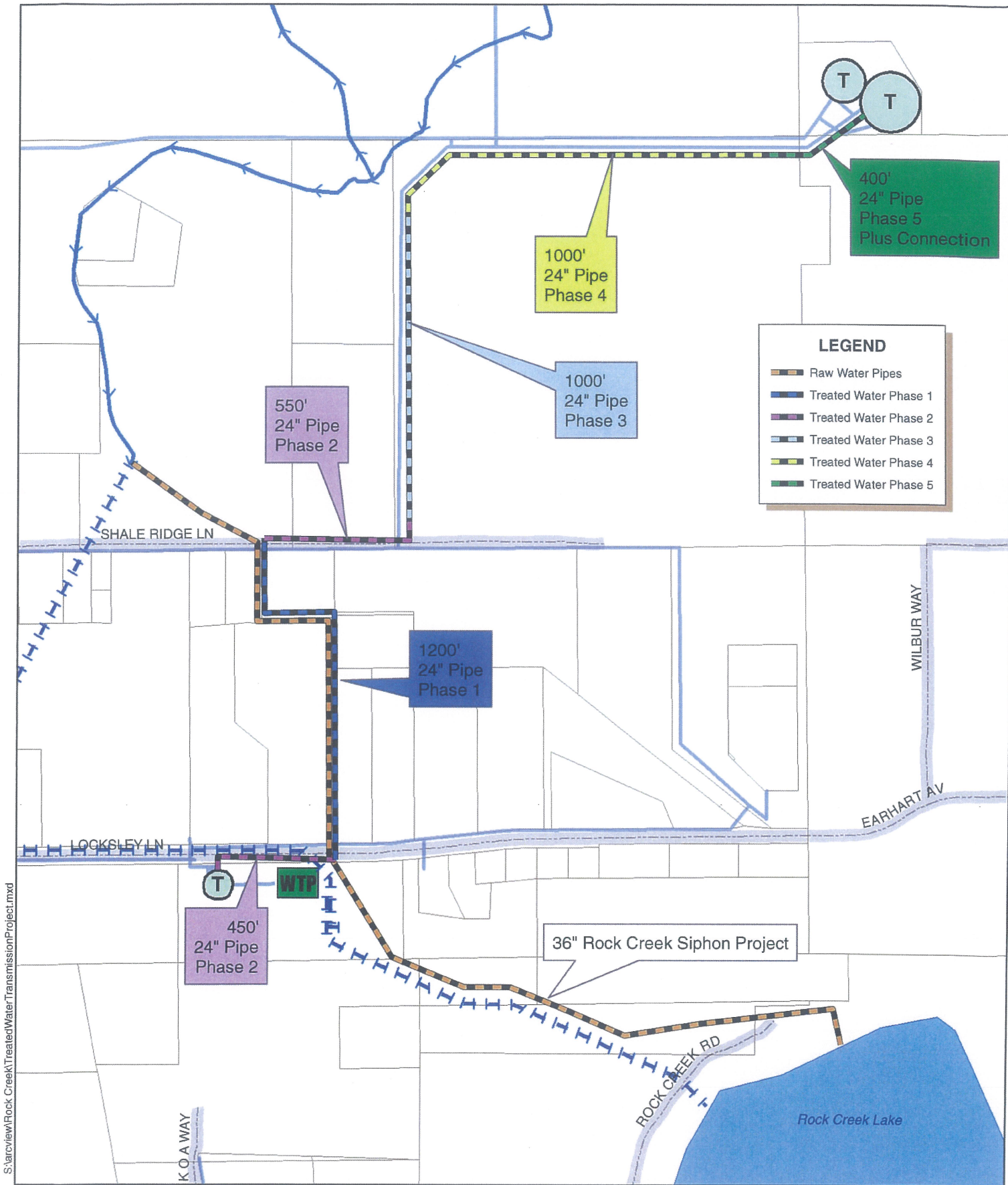
Currently, the tax sharing agreement has not been completed with Placer County. As discussed with the Board, construction of the Willow Creek Project is dependent on this agreement. The agreement is not expected to be completed in time for construction this year. We are requesting transfer of \$450,000 of these funds to this project and deferring of the Willow Creek Project until 2017.

In addition, we do not anticipate spending all the funds in Minor System Improvements Program (budget \$500,000) for the Osborne Hill project. Therefore, a transfer of \$150,000 from this program is requested in this budget amendment.

The total budget amendment attached to this memorandum is \$600,000 for the construction of Phase 2 segment of the Shale Ridge tanks treated water pipeline.

Attachments: Figure
 Budget Amendment Request

ANS/GDK



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 <p>NID</p>	TREATED WATER TRANSMISSION PROJECT		
	<p>Date: <u>3/16/2015</u></p> <p>Drawn By: <u>D. HUNT</u></p>	<p>NEVADA IRRIGATION DISTRICT</p> <p>NEVADA COUNTY -- PLACER COUNTY GRASS VALLEY, CALIFORNIA</p>	<p>Scale: 1" = 400' @ 8-1/2x11</p> <p>Sheet: <u>1</u> of <u>1</u></p>

NEVADA IRRIGATION DISTRICT
BUDGET AMENDMENT REQUEST

DATE : 2-May-16
 TO : Remleh Scherzinger
 FROM: Gary King, Chief Engineer Initials: _____

A budget amendment is hereby requested for the following items:

1) Budgeted capital expenditure line item:

	<u>Dept</u>	<u>Acct #</u>	<u>Account Name</u>	<u>Increase/(Decrease)</u>
a)	10151	7033	Willow Creek Project	\$ (450,000.00)
b)	10151		Minor System Improvements	\$ (150,000.00)

2) Unbudgeted capital expenditure line item:

	<u>Department</u>	<u>Account #</u>	<u>Account Name</u>	<u>Increase/(Decrease)</u>
a)	10151	1020	Shale Ridge Tank 24 inch pipeline	<u>\$ 600,000.00</u>

- 1.a) Tax sharing agreement with Placer County is not complete, project dependent on this agreement being signed
- 1.b) It is not expected to spend this amount of funds on the Osborne Hill Project
- 2.a) These funds will complete phase 2 of 4 phases of this project, needed for water quality issues

APPROVALS:

	<u>Date</u>	<u>Signature</u>	<u>AGM/FM Initials</u>	<u>Approved/Denied</u>
Level I	_____			
Level II	_____			
Level III	_____			