



SUISUN-SOLANO WATER AUTHORITY

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EXECUTIVE COMMITTEE MEETING

**Monday, July 2, 2018
9:00 a.m.**

**Suisun City Hall Conference Room
701 Civic Center Boulevard
Suisun City, CA**

AGENDA

1. **Preliminary**
 - 1.1. Call Meeting to Order
 - 1.2. Approval of Agenda
2. **Presentations**

None
3. **Public Comment (Non-Agenda Items)**
4. **Informational Items**
 - 4.1 Capital Improvement Project Status Report
5. **Consent Calendar**
 - 5.1. Approval of the Minutes of the June 4, 2018 Executive Committee Meeting
6. **Scheduled Items**
 - 6.1. Recommend Award of the Construction Contract for of the Suisun Valley Pipeline Replacement Project
 - 6.2. Items for the SSWA Board Meeting scheduled for Monday, July 9, 2018, at 6 p.m.
7. **Adjourn**

**SUISUN-SOLANO WATER AUTHORITY
EXECUTIVE COMMITTEE MEETING**

MEETING DATE: July 2, 2018

AGENDA ITEM 4.1

Capital Improvement Project Status Report

EXECUTIVE SUMMARY:

The current status of the capital projects approved by the Board for FY 2018-19 are listed below. Other projects and issues affecting the Capital Improvement Program are also listed.

STAFF REPORT:

Updates to the project list and status of projects are shown in **bold text**.

A. Replacement Projects

These projects are funded from the Replacement Reserve Fund.

1. Raw Water Screen Drainage System
Scope: Install a collection and recycling system for water used to carry away aquatics screened from the CHWTP raw water intake.
Project Budget: \$28,000 from the Replacement Reserve
Status: **experimentation with temporary alternative collection methods is in progress.**

2. Sectionalizing Valve Replacement Project
Scope: replace broken and frozen main line valves on an annual basis.
Project Budget: \$83,000 from the Replacement Reserve
Status: work will be scheduled considering crew availability and the need to replace the valves

3. Suisun Valley Pipeline Replacement
Scope: relocate about 1,900 feet of the Suisun Valley 5” Pipeline in conflict with a Solano County road improvement project.
Project Budget: \$316,400 from the Replacement Reserve;
Status:
 - **The Invitation to Bid has been issued**
 - **The bid opening is scheduled for June 28.**
 - Award of the construction contract is planned for the July 9 Board Meeting.

B. 2016 Bond Fund Projects

These projects are funded from the 2016 Bond Fund.

Cement Hill Water Treatment Plant Projects

4. New Cement Hill Pipeline:

Scope: design and construct a new pipeline parallel to the existing Cement Hill Pipeline for water quality and redundancy purposes.

Project Budget: \$1,912,000 from the 2016 Bond Fund

Notes: construction of this project is planned after completion of the Tank 2b construction project.

Status:

- **Several meetings with USBR staff have resulted in a favorable response to the preferred method of crossing the Putah South Canal. A letter to this effect is expected soon.**
- Design and environmental studies are in progress
- A proposal to design the Tank 2a connections is being reviewed
- Construction is scheduled for 2019.

5. Cement Hill Tank 2a Rehabilitation – Consulting

Scope: program management costs for the project to install new tank manifolds, valves, tank appurtenances; rehabilitate the tank shell as needed, recoat the tank interior and exterior, install TTHM Removal Systems

Project Budget: total cost: \$1.3 million; preliminary planning, and design RFP and contracting: \$20,961 from the 2016 Bond Fund

Notes: this project is planned to immediately succeed the New Cement Hill Pipeline is constructed and in service with Tank 2b.

Estimated Schedule: December, 2017, to April, 2020

6. Cement Hill Tank 2a Connections

Scope: **Install new tank manifolds and valves between new site piping and the existing tank**

Project Budget: **total cost: \$830,600; \$64,100 for design in FY 2018-19 from the 2016 Bond Fund**

Notes: **this project is planned to be done ASAP after Tank 2b is in service (the site piping will be complete) and may be included in the New Cement Hill Pipeline project.**

7. Clarifiers 2 & 3 and Tank 3 Reconstruction:

Scope: Design Plant 2 raw water treatment equipment reconstruction as follows:

Clarifier 2: install flex connections into inlet and outlet piping; recoat the clarifier vessel inside and outside; replace the clarifier equipment

Clarifier 3: install flex connections into inlet and outlet piping, recoat the clarifier vessel inside and outside; replace the clarifier equipment

Tank 3: repair roof structure, install flex connections into inlet and outlet piping, and recoat the tank inside and outside.

Project Budget: **\$150,000 for design** from the 2016 Bond Fund;

Notes: At Plant 2, rehabilitation of Tank 3 was deferred from FY 2014-15 and was added to this project. Construction is planned in FY 2019-20.

Status: Design is in progress. A field meeting of staff and KSN designers was held on June 19.

8. Cement Hill Plant Metering Replacement:

Scope: Upgrade existing water flow meters and add new meters where needed.

Budget: \$25,000 from the 2016 Bond Fund

Notes: this is a FY 2017-18 project that is nearly complete. Expenses are within the approved budget.

Status:

- Draft specifications and drawings for the meter replacements and additions have been submitted for review by plant operations staff
- Construction of this project by SSWA crews is being deferred to FY 2019-20 to optimize use of available funds.

9. Chemical System Replacement

Scope: this has been expanded to address several projects recommended in the 2012 Condition Assessment. The scope includes:

- Furnish and install new pumps, equipment and piping in the chemical room;
- Replace exterior piping from control buildings to plant equipment (trench piping);
- Evaluate changing from gaseous chlorine to liquid hypochlorite and design, furnish and install a liquid system if selected.

Project Budget: \$145,000 for design from the 2016 Bond Fund.

Notes: Construction is planned in FY 2020-21.

Status: A mandatory pre-proposal site visit was held on June 21 and was attended by 5 firms. Proposals are due on July 12, and the contract will be presented for Board approval at the September 10 meeting.

Distribution Facility Projects

10. Benton Court Facility Upgrade

Scope: Add a motor operated valve (MOV) within the Benton Court Pressure Reducing Station to allow remote control of alternating the filling of the Gregory Hill Tank and service into the Old Town area.

Project Budget: \$123,000 in FY 2017-189 from the 2016 Bond Fund

Notes: this is a FY 2017-18 project that is nearly complete. Expenses are within the approved budget.

Status: Control programming is the last remaining work item and is in progress.

Planning Projects

11. CIP Program Management Services

Scope: provide program management services including overall scheduling, contracting and construction management.

Project Budget: \$165,000 from the 2016 Bond Fund

Notes: Costs are spread to CIP projects that are being managed.

Status: project planning is ongoing. Regular meetings are being held.

Water Loss Control Projects

12. DMA Implementation Project – District Metered Area Creation & Implementation

Scope: study the distribution system, prepare a plan for creating three permanent DMAs, implement the DMAs by closing valves and adding infrastructure if needed, verify the hydraulic integrity of each area, and collect pressure data to inform the strategy for improved pressure management.

Project Budget: \$250,000 from the 2016 Bond Fund

Status: **Project is on hold until FY 2019-20. A planning telecon is scheduled for June 26.**

13. Meter Replacement and AMI Implementation

Scope: replace all existing customer meters in the SSWA system with new Badger meters. Install an advanced meter infrastructure (AMI) system for meter reading compatible with the new meters and City Finance billing operations, customer service and data storage.

Project Budget: \$4,300,000 from the 2016 Bond Fund

Notes: the SSWA system serves about 8,400 residential, commercial and landscape services. The existing meters are Sensus TouchRead meters, many of which are outside acceptable accuracy limits.

Status:

- **10 trial meters are installed, and setup in the on-line database and customer information system will be done in two weeks.**

C. New Capacity Fund Projects

These projects are funded from the Capacity Fund.

14. Cement Hill Tank 2b:

Scope: construct a new 2 million gallon storage tank on Cement Hill above the water treatment plant

Project Budget: total project: \$5,898,000; FY 2018-19: \$2,995,810 from the New Capacity Fund

Status:

- **Forming, reinforcing and concrete placement for the tank walls is in progress.**
- Submittals are being reviewed and approved.

15. Walters Road Pipeline

Scope: install a pressure reducing station and 12” pipeline in Walters Road across Highway 12 to the distribution system in the Lawler Ranch development.

Project Budget: \$581,000 from the New Capacity Fund

Notes: This project will provide better pressure and flowrates to the Walmart store and pending development to the southeast.

Status: **Bidding of this project will be rescheduled to December, 2018, due to contractors and precast vault manufacturers being very busy with ongoing projects. Later bidding will probably result in more bids and lower bids. Since the project is not urgently needed at this time, this is to the Authority’s advantage.**

16. Water Master Plan Update

Scope: update the 1996 Water Master Plan

Budget: \$150,000 from the New Capacity Fund

Notes: consultant proposals for this project will be requested, and the project budget may change based on negotiations with the selected firm.

Status: **Preparation of a Request for Proposals is in progress.**

D. Other Projects

The following items include potential and pending capital projects, and Authority non-capital work (administrative, financial, operations and maintenance) affecting capital projects and planning.

17. Corp Yard Tank Replacement/Railroad Avenue Facility

Scope:

- Construct a tank and booster facility on a new site between the railroad tracks and the extension of Railroad Avenue, north of Old Town Suisun City. Construction of two pipelines to direct supply of water to Old Town completely through this facility for TTHM reduction is included in this project.
- The parcel for the facility will be retained within the 30 Acre Site development. Mapping the parcel is approved and funded.

Estimated Cost: 2017 update, including two pipelines: \$6,060,000.

Budget: Mapping of the parcel for the facility: \$6,600 from the Rehabilitation Reserve

Status:

- The need for this facility will be reconsidered in the Water Master Plan Update (project 16).
- Completion of parcel mapping is pending confirmation of its location.

18. NBA-Dally Highline Intertie

Scope: Construct a 36" pipeline connecting a turnout from the North Bay Aqueduct with the SID Dally Highline Canal. Include a pumping plant at the NBA and outlet works in the Canal. Work includes design, environmental review and mitigation, right-of-way and construction.

Budget: to be determined, but estimated to be \$4.5 million.

Notes: Design and construction must be coordinated with Fairfield development planned between the NBA and the Dally Highline Canal. The purpose of the project is to enable the use of Suisun City's State Water Project water allocation. Addition of this project to the CIP and contracting for its design will follow the approval of an amendment of the SSWA JEPa.

Status:

- **Details of the alignment adjacent to the Putah South Canal are being developed for USBR review.**
- **A meeting with SCWA is being scheduled to discuss funding and proposed alignment of the pipeline.**

19. Clarifier 3 Drive Repairs:

Scope: rebuild or replace the 2-motor drive systems for the mixers and rakes in Clarifiers 2 and 3 at Plant 2. This will be a sole-source contract with Shoemaker Mechanical which has successfully worked on the clarifier drives at Cement Hill WTP.

Project Budget: funding will be from the Operations budget

Status: **Clarifier 3 (which is currently working as a settling basin) will be drained and inspected to determine the needed repairs in the week of July 2.**

20. District Metered Area Implementation Project

Scope: study the distribution system, prepare a plan for creating three permanent DMAs, implement the DMAs by closing valves and adding infrastructure if needed, verify the hydraulic integrity of each area, and collect flow data to identify leakage in the system, and pressure data to inform the strategy for improved pressure management.

Project Budget: \$250,000 from the 2016 Bond Fund for FY 2017-18

Status:

- **This project is being suspended for FY 2018-19 due to funding priorities.**
- **Planning of the meters and valves needed to create the districts will be finished and reported in the next few weeks, at which point the work will stop until July 2019.**


RECOMMENDATION/REQUEST:

None; this is provided for the Board's information.

ATTACHMENTS:

None

STAFF RESPONSIBLE FOR REPORT:



Jim Daniels, SID District Engineer

6-28-2018
Date

**SUISUN SOLANO WATER AUTHORITY
EXECUTIVE COMMITTEE MEETING**

**Monday, June 4, 2018
9:00 a.m.**

**Suisun City Hall Conference Room
701 Civic Center Boulevard
Suisun City, CA**

MINUTES

(UNADOPTED – SUBJECT TO REVISION)

Members Present:

City of Suisun City: Pete Sanchez, SSWA Board Vice President, Suisun City Mayor;
Suzanne Bragdon, SSWA Assistant Manager, Suisun City Manager

Solano Irrigation District: J.D. Kluge, SSWA Board President, SID Board President
(by phone); Cary Keaten, SSWA Manager; SID General Manager

Staff Present: Jim Daniels, SSWA Secretary, SID District Engineer; Cammie Morin,
SID Finance Director; Joe Dingman, Suisun City Administrative Services Director; Beth
Luna, Suisun City Accounting Services Manager

1. **Preliminary**

1.1 **Call to Order**

Sanchez called the meeting to order at 9:00 a.m.

1.2 **Approval of the Agenda**

Upon a motion by Keaten, seconded by Bragdon, the Committee voted
unanimously to approve the agenda as presented.

2. **Presentations**

None

3. **Public Comment (Non-Agenda Items)**

None

4. **Informational Items**

4.1 **Capital Improvement Project Status Report**

There were no questions or comments on this item.

5. **Consent Calendar**

- 5.1 Approve the Minutes of the May 7, 2018, Executive Committee Meeting
- 5.2 Approve a Notice of Completion for the CHWTP Clarifier 1 Reconstruction Project

Upon a motion by Keaten, seconded by Bragdon, the Committee voted unanimously to add these items to the Board's Consent Calendar as presented.

6. **Scheduled Items**

- 6.1 Review of SSWA Budget Status for Current Year and Presentation of Proposed Budget for Fiscal Year 2018-19

Luna reviewed the staff report. Discussion of this item included the following:

- The FY 2017-18 Debt Service Coverage for the 2016 Bonds is 2.25, well over the 1.20 minimum requirement.
- The Debt Service Requirement is greater than that shown in the Financial Plan because the actual bond issuance of \$8.5 million is greater than the planned issuance of \$5 million.
- The SSWA contribution toward the new Suisun City management system does not include expenses incurred in FY 2017-18, and these will be added to the FY 2017-18 budget for reimbursement.
- The 2016 Bond Funds were required to be spent in 3 years (fiscal years 2016-17, 2017-18 and 2018-19). The projected FY 2018-19 ending balance of \$129,289 shows this requirement will be met.
- Expense of the 2016 Bond Funds has been delayed by deferring construction and studying the scope and design of the Meter Replacement/AMI Project.
- The approved water rates through FY 2019-20 produce revenue sufficient to cover repayment of the 2016 and planned 2019 bond issuances, but per the approved Financial Plan.
- The Capacity Fund's Development Impact Fee revenue is under budget due to delay of the development of the Crystal Middle School property. The project is now proceeding and half of the fees will be budgeted for FY 2018-19.

- 6.2. Approve Issuing an RFP for Design of the CHWTP Chemical System Rehabilitation Project and a CEQA Notice of Exemption

Daniels briefly reviewed the staff report. There were no questions or discussion.

- 6.3. Approve a Professional Services Work Order with KSN for the Clarifiers 2 and 3 and Tank 3 Reconstruction Project and a CEQA Notice of Exemption

AGENDA ITEM 5.1

Daniels briefly reviewed the staff report. Comparing the proposed FY 2018-19 CIP budget of \$226,000 for this project with the design contract cost of \$99,040 it was decided to decrease the budget to \$150,000 in FY 2018-19.

6.4. Recommend Approving a Contract with NHA Advisors, LLC, to perform General Financial Consulting Work

Luna and Morin discussed the contract and bond process with the Committee. Funding for the contract was agreed to be arranged by reallocating funds within the Operations budget as the amount is within the General Manager's established approval limit.

6.5 Items for the SSWA Board Meeting scheduled for Monday, June 11, 2018, at 6 p.m.

By common consent the Committee agreed to take all items to the Board with items 6.2, 6.3 and 6.4 being added to the Consent Calendar.

7. Adjourn

The meeting was adjourned at 10:12 a.m.

**SUISUN-SOLANO WATER AUTHORITY
EXECUTIVE COMMITTEE MEETING**

MEETING DATE: July 2, 2018

AGENDA ITEM 6.1

Recommend Award of the Construction Contract for the Suisun Valley Pipeline Replacement Project

EXECUTIVE SUMMARY:

Staff recommends the award of the contract to construct the Suisun Valley Pipeline Replacement Project to the lowest responsive contractor for the contractor's corresponding bid amount plus a 10% contingency. Since bids will be opened the afternoon of the day the Committee's packet is published and delivered, the bid results and recommendation will be presented at the Executive Committee meeting.

STAFF REPORT:

Background

In April 2017, Solano County commenced a road widening project for Mankas Corner Road, approximately located between Ledgewood Road and Clayton Road. The road widening project impacted portions of the existing Suisun Valley five (5) inch cast iron pipeline, as the existing pipeline is shallow and located within the designed road section base. To allow Solano County to complete the Mankas Corner Road Widening Project, SSWA is required to relocate existing facilities to outside of the project area. As a result, SSWA staff developed a project scope and budget to be included as part of the FY17-18 budget.

At the June 12, 2017 Board meeting, the Board authorized funding of the Suisun Valley Pipeline Relocation Project as part of the FY17-18 budget. To prevent similar SSWA facility conflicts within Solano County right-of-way, SSWA staff decided to pursue a dedicated easement located within the adjacent private property. Once the option of a dedicated easement became feasible, SSWA staff commenced the CEQA process to assess the environmental impacts. The CEQA documents were adopted by the SSWA Board at the May 14, 2018, regular Board meeting.

Beginning May 31, 2018, SSWA commenced advertisement for bids through BPXpress, an online publishing and reprographics company. The project plans and specifications were also advertised on the Solano Irrigation District website, and through the Bay Area Builders Exchange, Placer County Contractors Association, Dodge Data & Analytics, Construct Connect, and the Sacramento Regional Builders Exchange. A non-mandatory preconstruction meeting was held at the project site on June 18, 2018, which was only attended by SSWA staff and the consulting Engineer. During the advertisement period, staff released two (2) addendums to the project documents.

The bid opening was held at the Solano Irrigation District office at 2:00pm on Thursday, June 28, 2018, so the results could not be included in the Committee's packet. The bid results will be presented to the Executive Committee at their meeting.

Project Schedule

The schedule for the project is planned as follows. Based on discussion at the Pre-Construction meeting, and the date of the Notice to Proceed, it may change slightly.

Notice of Award	July 10, 2018
Execute contract and secure insurance and bonds	July 20, 2018
Notice to Proceed	July 30, 2018
Pre-Construction Schedule Meeting	August 2, 2018
Begin submittal review process	August 3, 2018
Begin field construction	August 9, 2018
Complete construction (45 working days from beginning construction):	October 11, 2018

Financial Analysis

The FY17-18 budget approved at the June 12, 2017, regular Board meeting included funding in the amount of \$351,000 for the Suisun Valley Pipeline Replacement Project. To date, project expenditures for design, environmental, and administration total approximately \$30,700. The Engineer's construction cost estimate of \$260,000 is within the remaining budget, and the project is estimated to be within the total approved funding. See Attachment 2 for a review of the project budget, which will be updated with the lowest responsible bid amount and presented at the Committee's meeting.

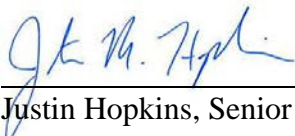
RECOMMENDATION/REQUEST:

Staff recommends to award the construction contract to the lowest responsive bidder for the bid amount.

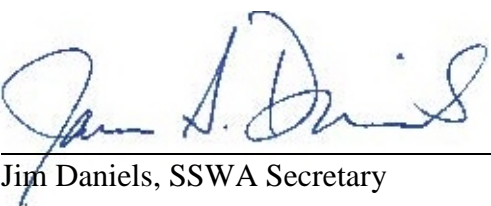
ATTACHMENTS:

1. Bid Summary (to be presented at the July 2 Executive Committee Meeting)
2. Project Budget Review
3. Draft Resolution No. 18-XX

STAFF RESPONSIBLE FOR REPORT:


Justin Hopkins, Senior Civil Engineer

06-26-2018
Date


Jim Daniels, SSWA Secretary

6-28-2018
Date

**Suisun Solano Water Authority
Executive Committee Meeting
July 2, 2018**

Agenda Item 6.1

Award of the Construction Contract for the Suisun Valley Pipeline Replacement Project

**Attachment 1
Bid Summary**

The bid opening was held at the Solano Irrigation District office at 2:00pm on Thursday, June 28, 2018, so the results could not be included in the Committee's packet. The bid results will be emailed to the Committee prior to the Meeting.

Suisun Solano Water Authority
 Executive Committee Meeting, 7-2-2018
 Agenda Item 6.1
 Attachment 2

Suisun Valley Pipeline Replacement Project
 Project Budget Review

Line	Description	Amount
1	Project Design & Bidding	\$32,000
2	Construction	
3	Construction Contract	260,000
4	Construction Contingency @ 10%	26,000
5	Construction Subtotal	\$286,000
6	Construction Administration	
7	Inspection Services	10,560
8	Staff Expenses	10,000
9	<i>Subtotal</i>	20,560
10	Contingency @ 10%	2,100
11	Construction Admin Subtotal	\$22,660
12	Total Estimated Cost	\$340,660
13	Project Budget	\$351,000

SUISUN SOLANO WATER AUTHORITY

RESOLUTION NO. 18-XX

**AUTHORIZE THE GENERAL MANAGER TO AWARD A CONTRACT
FOR THE CONSTRUCTION OF
THE SUISUN VALLEY PIPELINE REPLACEMENT PROJECT**

WHEREAS, SSWA has an ongoing program for funding Capital Improvement Program (CIP) projects to replace and upgrade facilities as needed; and,

WHEREAS, at their June 12, 2017, meeting the SSWA Board approved the FY 2017-18 CIP plan and budget, including a project to replace approximately 1,835 linear feet of existing five (5) inch cast iron pipeline, called the Suisun Valley Pipeline Replacement Project, and directed staff to advertise for bids to construct the Suisun Valley Pipeline Replacement Project; and,

WHEREAS, bids to construct the Suisun Valley Pipeline Replacement Project were received on June 28, 2018, and after analysis, the lowest responsive bid was \$260,000, submitted by CONTACTOR, of LOCATION, Calif.; and,

WHEREAS, a Mitigated Negative Declaration was previously prepared, analyzing the impacts of construction of the project, and approved by the SSWA Board on May 14, 2018 by Resolution No. 18-10, and a Notice of Determination was filed with the Clerk of the Solano County Board of Supervisors on May 17, 2018.

NOW THEREFORE, the Board of Directors of the Authority does find, resolve and order as follows:

1. The SSWA Manager is hereby authorized to execute the construction contract with the CONTACTOR, for \$260,000.00 plus a 10% contingency of \$26,000 for a total approval limit of \$286,000, on behalf of the Authority, to do all things necessary and proper to implement the contract.

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PASSED AND ADOPTED THIS 9TH DAY OF JULY, 2018, AT SUISUN CITY, CALIFORNIA, THE FOLLOWING DIRECTORS VOTING THEREON:

AYES:

NOES:

ABSTAIN:

ABSENT:

J.D. Kluge, President of the Board of Directors
of the Suisun Solano Water Authority

ATTEST:

I hereby certify that the foregoing Resolution was duly made, seconded and adopted by the Board of Directors of the Suisun Solano Water Authority at their meeting held July 9, 2018.

James S. Daniels, Secretary to the Board of Directors
of the Suisun Solano Water Authority