



## RANCHO MURIETA COMMUNITY SERVICES DISTRICT

15160 Jackson Road, Rancho Murieta, CA 95683

Office - 916-354-3700 \* Fax - 916-354-2082



### IMPROVEMENTS COMMITTEE

Regular Meeting

October 10, 2016 at 9:00 a.m.

All persons present at District meetings will place their cellular devices in silent and/or vibrate mode (no ringing of any kind). During meetings, these devices will be used only for emergency purposes and, if used, the party called/calling will exit the meeting room for conversation. Other electronic and internet enabled devices are to be used in the "silent" mode. Under no circumstances will recording devices or problems associated with them be permitted to interrupt or delay District meetings.

#### AGENDA

1. **Call to Order**
2. **Comments from the Public**
3. **Update on Recycled Water Pre-design Report – Kevin Kennedy, Kennedy/Jenks**
4. **Consider Approval of Additional SMUD Costs for Waste Water Treatment Plant Solar Connection**
5. **Consider Approval of 12" Sewer Force Main Condition Assessment Proposal**
6. **Monthly Updates**
  -  Augmentation Well
  -  Solar Power Update
7. **Directors & Staff Comments/Suggestions [no action]**
8. **Adjournment**

*In accordance with California Government Code Section 54957.5, any writing or document that is a public record, relates to an open session agenda item and is distributed less than 72 hours prior to a regular meeting will be made available for public inspection in the District offices during normal business hours. If, however, the document is not distributed until the regular meeting to which it relates, then the document or writing will be made available to the public at the location of the meeting.*

Note: This agenda is posted pursuant to the provisions of the Government Code commencing at Section 54950. The date of this posting is October 7, 2016. Posting locations are: 1) District Office; 2) Rancho Murieta Post Office; 3) Rancho Murieta Association; 4) Murieta Village Association.

## MEMORANDUM

Date: October 7, 2016  
To: Improvements Committee  
From: Paul Siebensohn, Director of Field Operations  
Subject: Update on Recycled Water Pre-Design Report – Kevin Kennedy, Kennedy/Jenks

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### RECOMMENDED ACTION

Review - no action needed.

### BACKGROUND

Kevin Kennedy, Kennedy Jenks Consultants, will provide a PowerPoint presentation overview of the Preliminary Design Report for the future use of recycled water that is being developed for the District. The presentation will cover the key assumptions, findings, implications, and next steps.

## MEMORANDUM

Date: October 7, 2016  
To: Improvements Committee  
From: Paul Siebensohn, Director of Field Operations  
Subject: Consider Approval of Additional SMUD Costs for Waste Water Treatment Plant Solar Connection

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### RECOMMENDED ACTION

Approve \$25,488.60 to Solar City for Bockman Woody's completion of SMUD service upgrades for the Wastewater Treatment Plant. Funding to come from Sewer Capital Replacement Reserves.

### BACKGROUND

Solar City let us know that SMUD is now requiring the District to pay for the SMUD upgrade for the power supply from Jackson Highway to the wastewater plant transformer. Previously the Board approved \$164,000 (\$147,863.60 plus ~10% contingency) to Solar City for cost reimbursement for SMUD upgrades for the wastewater treatment plant. It was conveyed by SMUD that they were going to complete this work per the previous submittal of their Rule 21 estimated costs, now they say that was an error. The current estimate to complete this work by Bockman Woody is \$71,625, with a confirmation that there will be no mark up from Solar City.

The previously Board approved amounts, in June, of \$164,000 covered the then estimated costs for the required upgrades to interconnect the PV system at the WWTP site. It is now been clarified that the \$30,000 estimate for a new transformer, that was included in the \$164,000 funding request, was *part* of the \$40,123.10 for SMUD. Therefore, the actual estimated amount of the previous work should have been \$117,863.60 (see breakout below).

Estimated cost for new utility switchboard - \$22,170.50

Estimated cost for SMUD - \$40,123.10

~~Estimated cost for new SMUD required Transformer - \$30,000 (included in above amount)~~

Estimated cost for EC labor and material to install new gear (see attached) - \$55,570.00

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Total estimated cost: ~~\$147,863.60~~ \$117,863.60

With this pending cost of \$71,625, a total of \$189,488.60 is the District's portion of the project. As \$164,000 was previously approved, an additional amount of \$25,488.60 is needed to be approved by the Board. The work done by Bockman Woody is to be managed by Solar City.

The proposed scope of work from Solar City contractor, Bockman Woody (BW), is as follows:

*Labor, materials, & equipment to bore approximately 900' with 2 - 4" SMUD approved pipe. After pipe is installed prove pipe with Mandrel and install Mule tape. Provide & Install Traffic Rated SMUD Vault and Precast Transformer pad with Grounding. Provide & Install new Secondary Service from SMUD Transformer to existing 800A Service (2-4" with 500MCM wire in each pipe). Shutdown to be performed on Saturday on OT. Provide patching of Asphalt that is removed. We exclude any required Bollards around T-Pad. If required by SMUD or customer, there will be an additional charge.*

I requested that Solar City seek a revised quote from BW in an effort to lower the cost. I have also asked that Solar City request a quote from SMUD to complete this work as a comparison. In the meantime, we are seeking approval at the amount per their proposal to keep the project moving in a timely manner.

Per the District's contract with Solar City, the District is required to pay for these needed upgrades. See below excerpt from contract.

**5. System Installation Includes:**

Installation of a solar energy system (includes: design, engineering, permitting, performance bonds, installation, monitoring, rebate application and paperwork processing for solar energy system), **prevailing wage construction.**

**6. System Installation Excludes:**

Additional or extra construction-related work caused by subsurface, latent or unknown physical conditions at the Premises that differ materially from those ordinarily encountered and generally expected as inherent in System installation at this type of site (including, but not limited to, excavation/circumvention of underground obstacles); upgrades or repair to customer or utility electrical infrastructure; payment bonds; tree removal and tree trimming; and Purchaser's evaluation of the project under the California Environmental Quality Act ("CEQA Evaluation") and the mitigation of any significant environmental impacts disclosed by the CEQA Evaluation (the mitigation costs are referred to as the "CEQA Costs").

If any CEQA Costs should arise, then the Parties will attempt in good faith to negotiate the pricing to address such costs. If: (1) resolution of the CEQA costs cannot be reached; or (2) the CEQA Evaluation discloses any significant environmental impacts that cannot be feasibly mitigated or avoided, then either Party may terminate this Agreement prior to commencement of installation of the System without liability or triggering a default under this Agreement. Either Party's rights under this paragraph shall, unless previously exercised, terminate on the date that is the earlier of (i) 180 days after the Effective Date or (ii) the date on which the conditions to Seller's obligations set forth in Section 6(a) of Exhibit 3 are satisfied.

# Bockmon & Woody

## ELECTRIC CO., INC.

1528 El Pinal Drive • P.O. Box 1018 • Stockton, CA 95201-1018  
 PHONE: (209) 464-4878 • FAX: (209) 464-2615  
 CA Lic. No. C10-588308 • DIR No. 1000002789

Date: October 6, 2016  
 Attention: Danny Valdez  
 Company: Solar City  
 Project: Rancho Muerita WWTP Solar Project - Additional SMUD work

Ladies and Gentlemen:

Bockmon & Woody Electric Co., Proposes to bid on the references project as a subcontractor for the electrical portion of the work required under the general contract and any modifications.

Our Proposal is according to the provisions and terms of the contract documents. Our bid price will be per the Scope of work below, sales tax included.

The specification sections for the scope of work quoted by Bockmon & Woody Electric Co., Inc., are as follows:  
 Electrical

Bockmon & Woody Electric Co., Inc., recognizes Addendums: NONE

\*\*This bid proposal is good for 30 days.

\*\*Work to be completed on a reasonable schedule.

\*\*Subcontractor shall not be responsible for safety violations by others.

<u>Description</u>	<u>Qty</u>	<u>Unit Price</u>	<u>Extended Total</u>
<b>Labor</b>	<b>1</b>	<b>\$ 43,125.00</b>	<b>\$ 43,125.00</b>
<b>Materials</b>	<b>1</b>	<b>\$ 21,000.00</b>	<b>\$ 21,000.00</b>
<b>Equipment</b>	<b>1</b>	<b>\$ 7,500.00</b>	<b>\$ 7,500.00</b>
		<b>Total</b>	<b>\$ 71,625.00</b>

**Scope of Work:** Labor, Materials, & Equipment to to Bore approx. 900' with 2-4" SMUD Approved pipe. After pipe is installed prove pipe with Mandrel and install Mule tape. Provide & Install Traffic Rated SMUD Vault and Precast Transformer pad with Grounding. Provide & Install new Secondary Service from SMUD Transformer to existing 800A Service (2-4" with 500MCM in each pipe.) Shutdown to be performed on Saturday on OT. we Required a 8 hour shutdown period. We exclude any Temp power or Generator to power existing services. Provide patching of Asphalt that is removed. We Exclude any required Bollards around T-Pad. If required by SMUD or customer there will be an additional charge.

**Exclusions:**

1. Cost of permits, fees, & bonds
2. All Primary Utility Conductors
3. Rock Excavation, and using any others means than a Backhoe to Excavate trenches
4. Off haul of Directional Drilling Bore Mud
5. Any additional work that is not listed in this proposal

6. Bollards
7. Utility Fees & Coordination
8. Traffic Control
9. Surveying
10. Off Haul of Spoils
11. Site Water
12. Repairing any Damages done by others
13. Temporary Power and Maintenance of Temp power
14. Temporary Fencing & Toilet
15. All Overtime and/or Premium Time

We appreciate the opportunity of offering our scope and proposal for your consideration.  
Should there be any questions, please feel free to contact us at your convenience.

Sincerely,

**Bockmon & Woody Electric Co., Inc.**

*Gary M. Woody*

Gary M. Woody

Vice President / Chief Estimator

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

## MEMORANDUM

Date: October 3, 2016  
To: Improvements Committee  
From: Paul Siebensohn, Director of Field Operations  
Subject: Consider Approval of 12" Sewer Force Main Condition Assessment Proposal

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### RECOMMENDED ACTION

Approve proposal from Kennedy Jenks Consultants to provide professional services for the 12 inch Sewer Force Main Condition Assessment, in an amount not to exceed \$23,208. Funding to come from Water Supply Augmentation Reserves.

### BACKGROUND

As a component of the overall Recycled Water Predesign Report, we must determine if the old twelve inch (12") sewer force main pipeline is going to be usable for supplying recycled water up to Stonehouse and Escuela Park sites and future developments of Murieta Hills. This currently abandoned line runs from behind the District's Main Lift North sewer pumping station on Murieta Drive up to Rancho Murieta Association's (RMA) maintenance yard on Stonehouse Road.

It is a critical backbone pipeline to supply recycled water that is approximately 5,300 feet long, which is a costly potential asset if it needs to be replaced. The proposal provides detailed engineering review of the pipeline's viability to supply recycled water at sufficient pressure, as well as providing options if the pipeline is not viable, now and into the future. The detailed proposal is attached. Only those task items authorized by staff will be initiated as not all will necessarily be needed. District staff is in the process of conducting a pressure test of this line with contractor JD Pasquetti to test its integrity and will supply a piece of the pipeline to Kennedy Jenks Consultants for material analysis.

## MEMORANDUM

Date: October 7, 2016  
To: Improvements Committee  
From: Paul Siebensohn, Director of Field Operations  
Subject: Project Updates

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### SOLAR PROJECTS

#### Water Plant Site

Construction has yet to begin as Solar City is still waiting for approval from Sacramento County Permit Office before proceeding. The earlier submittal to the County did not have any concerns brought up and was not forwarded to their fire department for review. The second submittal, due to the late revision required by SMUD's line department to stay away from being under their power lines, was forwarded to their fire department as a *new* requirement of them. We just heard back today that the fire department now wants a 20 foot through access from the front gate to the back gate for a fire lane. Solar City let them know that I had reviewed the site with the local fire department that was ok with it but the reviewing department responded that the local fire department has no jurisdiction to approve anything. I currently have an email in to them asking for clarifications, particularly as to why they are reviewing a solar installation with no structures or designated roads. Solar City, in the meantime, is going to look at revising the site yet again to accommodate the fire department reviewer's concerns. The site has been fenced off and some materials staged in preparation for the project to begin.

#### Wastewater Plant Site

Now that the solar field is constructed at the Wastewater Treatment Plant site, the Power Purchase Agreement (PPA) will be updated to reflect the "as-built" production of power. Solar City has commented that *"We normally see small changes in the field that affect the as-built system and therefore the expected production of the solar array. In this case, the change is very small, just under 1% difference."*

Summary of changes are as follows:

Original Contract Size: 769.420 kW  
~~Original Contract Expected Production: 1,207,000 kWh~~  
Installed/Current Size: 769.420 kW  
Installed/Current Expected Production: 1,195,349 kWh  
As-built Percent of Original: 99.03%

As far as the actual installation goes, ATT has installed phone and 56k service lines to the wastewater control building for SMUD to allow SMUD to remotely monitor the power in/out of the solar farm.





*Photo of showing excavation for a future pad for an upgraded SMUD transformer and conduit installations to new electrical switchgear panels.*

### **12 Inch Force Main Assessment**

After extensive searching based on old engineering plans, District staff located the old 12 inch sewer force main. This currently abandoned line runs from behind the District's Main Lift North sewer pumping station on Murieta Drive up to Rancho Murieta Association's (RMA) maintenance yard on Stonehouse Road. District staff conducted the bulk of the work, excavating the pipeline on the top and bottom ends, procuring the necessary endcaps and fittings, installing them and test ports on each end, and poured concrete restraints to allow the pipeline to be pressure tested. Contractor JD Pasquetti conducted the pressure test per AWWA Standards and it passed the test. Kennedy Jenks was onsite during the pressure test as well.



*Photo of 12 inch force main pipeline to possibly be used for future conveyance of recycled water.*



*Photo of pressurization of line for integrity test.*

## **WELL PROJECT**

No new update.