



## CITY OF MARTINEZ

## CITY COUNCIL AGENDA July 16, 2014

**TO:** Mayor and City Council  
**FROM:** Tim Tucker, City Engineer  
**SUBJECT:** Water Treatment Plant Electrical Power Distribution System Upgrade  
**DATE:** July 9, 2014

### **RECOMMENDATION:**

- A. Adopt resolution accepting bids for the Water Treatment Plant (WTP) Electrical Power Distribution System Upgrade, Project No. C7037 and awarding the construction contract to Blocka Construction, Inc. in the amount of \$2,394,260, and allocating an additional \$1,596,300 of Water System funds to Account No. C7037, and closing Accounts C7013, C7040 and C7046.
- B. Adopt resolution authorizing the Interim City Manager to execute an amendment to the consultant services agreement with Carollo Engineers, Inc. for construction phase services for the Water Treatment Plant Electrical Power Distribution System Upgrade, Project No. C7037 in the not to exceed amount of \$318,400.
- C. Adopt resolution authorizing the Interim City Manager to execute a consultant services agreement with Transdyn, Inc. to prepare and modify the Water Treatment Plant system necessary for the completion of the WTP Electrical Power Distribution System Upgrade, Project No. C7047 in the not to exceed amount of \$99,600.

### **BACKGROUND:**

The City Council approved the WTP Master Plan in February of 2012. The plan identified twenty three projects to be completed over an estimated fifteen year period. One of the highest priority projects was to overhaul the electrical system at the WTP.

On February 6, 2013, the City Council adopted a resolution allocating funds and authorizing the Interim City Manager to enter into an agreement for consultant services with Carollo Engineers, Inc. to perform the design of the WTP Electrical Power Distribution System Upgrade. Carollo Engineers, Inc. was deemed most qualified as part of a competitive selection process.

On March 19, 2014, the City Council adopted a resolution authorizing the Interim City Manager to execute an amendment to the agreement with Carollo Engineers, Inc. to provide additional design services and bid phase support services, and by motion, directed staff to use Bidder prequalification process as part of the contractor procurement process.

**DISCUSSION:**

In May 2014, staff prequalified four general engineering contractors to bid on this project. Construction bids from three prequalified general engineering contractors were opened at 2:00 p.m. on Wednesday, July 9, 2014 for the construction of this project. The bids ranged from \$2,394,260 to \$3,182,098. The Engineer's Estimate is \$2,366,000.

Blocka Construction, Inc. of Fremont is the lowest responsible bidder. The following is a summary of the bid results:

<b><u>Bidder</u></b>	<b><u>Amount</u></b>
Engineer's Estimate	\$2,366,000
Blocka Construction, Inc.	\$2,394,260
D.W. Nicholson Corporation	\$3,071,760
Contra Costa Electric	\$3,182,098

In order to move this project into construction, the agreement with Carollo Engineers, Inc. needs to be amended to include construction phase support services. The duration of this phase of the project is estimated to be 382 working days or approximately two years. On February 7, 2014, Carollo Engineers, Inc. submitted a proposal to provide construction phase services in a not to exceed amount of \$318,400.

Moreover, the proposed project improvements will require the City's WTP system integration consultant, Transdyn, Inc., to prepare and modify the existing plant control system. Transdyn, Inc. is under contract with the City to service the WTP control system involving the switchgear and chemical room. This system preparation and modification work is an extension of Transdyn, Inc.'s authorized work, and is necessary and incidental to complete the proposed plant improvements. On April 23, 2014, Transdyn, Inc. submitted a proposal to prepare and modify the existing plant control system in the amount of \$99,600. This amount is budgeted under the Water Treatment Plant Instrumentation Upgrade, Project No. C7047.

**FISCAL IMPACT:**

The project is budgeted under Account No. C7037 and is partially funded. Additional funds in an amount of \$1,596,300 are required to fully fund the construction phase of the project. Staff recommends deferring certain Water System projects and making budget transfers to fully fund this project. The projects that are proposed to be deferred and corresponding budgets are listed below:

Corporation Yard Relocation, Project No. C7013	\$532,862
Arnold Drive Pump Station, Project No. 7040	\$1,700,000
WTP Solar Installation, Project C7046	<u>\$500,000</u>
Total Amount Transferred to Water System Funds	\$2,732,862

It is proposed that the Corporation Yard Relocation project be deferred until a more definitive plan is developed. Furthermore, the Arnold Drive Pump Station could be deferred due to recent maintenance work extending its operable life. Feasibility studies completed on the WTP solar project showed that the payback period was well over 40 years and was not recommended at this time until technological improvements make the project more viable.

The project budget and funding is as follows:

<b><u>Budget</u></b>	<b><u>Amount</u></b>
Design and Bidding Phase	\$459,700
Construction Contract	\$2,394,260
Contingency (10%)	\$239,640
Construction Support Services	\$318,400
Construction Management/Inspection (15%)	\$360,000
<b>TOTAL BUDGET</b>	<b>\$3,772,000</b>
<b><u>Funding</u></b>	<b><u>Amount</u></b>
Water System funds – <i>current funding</i>	\$1,850,000
Water Bond funds – <i>current allocation</i>	\$325,700
Water System funds - <i>proposed allocation</i>	\$1,596,300
<b>TOTAL FUNDING</b>	<b>\$3,772,000</b>

**ACTION:**

Motion to adopt the following:

- A. Resolution accepting bids for the Water Treatment Plant (WTP) Electrical Power Distribution System Upgrade, Project No. C7037 and awarding the construction contract to Blocka Construction, Inc. in the amount of \$2,394,260, and allocating an additional \$1,596,300 of Water System funds to Account No. C7037, and closing Accounts C7013, C7040 and C7046.
- B. Resolution authorizing the Interim City Manager to execute an amendment to the consultant services agreement with Carollo Engineers, Inc. for construction phase services for the Water Treatment Plant (WTP) Electrical Power Distribution System Upgrade, Project No. C7037 in the not to exceed amount of \$318,400.
- C. Resolution authorizing the Interim City Manager to execute a consultant services agreement with Transdyn, Inc. to prepare and modify the Water Treatment Plant (WTP) system necessary for the completion of the WTP Electrical Power Distribution System Upgrade, Project No. C7047 in the not to exceed amount of \$99,600.

Attachment:  
Resolutions

**APPROVED BY:**   
Interim City Manager

RESOLUTION NO. -14

ACCEPTING BIDS FOR THE WATER TREATMENT PLANT ELECTRICAL POWER DISTRIBUTION SYSTEM UPGRADE PROJECT AND AWARDING THE CONSTRUCTION CONTRACT TO BLOCKA CONSTRUCTION, INC. IN THE AMOUNT OF \$2,394,260, AND ALLOCATING AN ADDITIONAL \$1,596,300 OF WATER SYSTEM FUNDS TO ACCOUNT NO. C7037, AND CLOSING ACCOUNTS C7013, C7040 AND C7046

**WHEREAS**, the Capital Improvement Plan includes the Water Treatment Plant Electrical Power Distribution System Upgrade, Project No. C7037 (Project); and

**WHEREAS**, Carollo Engineers, Inc. prepared plans, specifications and estimate for the Project; and

**WHEREAS**, in May 2014, the City prequalified four general engineering contractors for purposes of submitting bids for construction for the Project; and

**WHEREAS**, on July 9, 2014, three bids were publicly opened; and

**WHEREAS**, Blocka Construction, Inc. submitted the lowest responsible bid; and

**WHEREAS**, an additional \$1,596,300 in funds is required to fully fund the Project; and

**WHEREAS**, staff recommends allocating \$1,596,000 of Water System Funds to Account No. C7037 to fully fund the project; and

**WHEREAS**, staff recommends closing project Account No. C7013, Account No. C7040, and Account No. C7046; and

**WHEREAS**, it is deemed in the best interest of the public and the City to implement the Water Treatment Electrical Power Distribution System Upgrade Project.

**NOW, THEREFORE, BE IT RESOLVED** by the City Council of the City of Martinez that:

- A) The bid from Blocka Construction, Inc. is hereby accepted in an amount of \$2,394,260 when the required performance bond, labor and materials bond, insurance and other contract documents have been reviewed and approved by the City Attorney, and the Interim City Manager is hereby authorized to execute a contract for said project with the contractor.

B) Should Blocka Construction, Inc. fail to deliver all contract documents, fully executed and filled out, so that they are in the hands of the City within ten calendar days after receipt of notice from the City of the City's acceptance of their bid, then the bid shall be deemed in violation of the contract documents and the bid shall be deemed non-responsive and rejected and the second lowest responsible bidder shall be awarded the contract to complete the project.

**BE IT FURTHER RESOLVED**, that the City Council approves budget allocation of Water System funds in amount of \$1,596,000 to Account No. to fully fund the Project and to close Accounts C7013, C7040 and C7046.

\* \* \* \* \*

**I HEREBY CERTIFY** that the foregoing is a true and correct copy of a resolution duly adopted by the City Council of the City of Martinez at a Regular Meeting of said Council held on the 16<sup>th</sup> day of July, 2014, by the following vote:

AYES:

NOES:

ABSENT:

RICHARD G. HERNANDEZ, CITY CLERK  
CITY OF MARTINEZ

RESOLUTION NO. -14

**AUTHORIZING THE INTERIM CITY MANAGER TO EXECUTE AN AMEMDMENT TO THE CONSULTANT SERVICES AGREEMENT WITH CAROLLO ENGINEERS, INC. FOR CONSTRUCTION PHASE SERVICES FOR THE WATER TREATMENT PLANT ELECTRICAL POWER DISTRIBUTION SYSTEM UPGRADE, PROJECT NO. C7037 IN THE NOT TO EXCEED AMOUNT OF \$318,400**

**WHEREAS**, the Capital Improvement Plan includes the Water Treatment Plant Electrical Power Distribution System Upgrade, Project No. C7037 (Project); and

**WHEREAS**, it is necessary to hire a consultant team with expertise in civil and electrical engineering to provide construction support during the construction phase of the Project; and

**WHEREAS**, Carollo Engineers, Inc. was selected through a competitive selection process and completed the design of the Project improvements; and

**WHEREAS**, Carollo Engineers, Inc. is most familiar with the design and possesses the base information and knowledge to most cost effectively provide construction phase services support for the Project.

**NOW, THEREFORE, BE IT RESOLVED** by the City Council of the City of Martinez, the Interim City Manager is authorized to execute a contract amendment to the consultant services agreement with Carollo Engineers, Inc. for construction phase support services for the Water Treatment Plant Electrical Power Distribution System Upgrade, Project No. C7037 in the not to exceed amount of \$318,400.

\* \* \* \* \*

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AYES:

NOES:

ABSENT:

RICHARD G. HERNANDEZ, CITY CLERK  
CITY OF MARTINEZ

RESOLUTION NO. -14

**AUTHORIZING THE INTERIM CITY MANAGER TO EXECUTE A CONSULTANT SERVICES AGREEMENT WITH TRANSDYN, INC. TO PREPARE AND MODIFY THE EXISTING WATER TREATMENT PLANT CONTROL SYSTEM NECESSARY FOR THE COMPLETION OF THE WATER TREATMENT PLANT ELECTRICAL POWER DISTRIBUTION SYSTEM UPGRADE, PROJECT NO. C7047 IN THE TO EXCEED AMOUNT OF \$99,600**

**WHEREAS**, the Capital Improvement Program includes the Water Treatment Plant (WTP) Electrical Power Distribution System Upgrade, Project No. C7037 (Project); and

**WHEREAS**, it is necessary to hire a consultant with expertise in water treatment plant systems to prepare and modify the existing WTP control system (construction phase integration support) necessary for the completion of the Project; and

**WHEREAS**, Transdyn, Inc. is currently under contract to service the WTP control system; and

**WHEREAS**, Transdyn, Inc. is most familiar with the WTP control system and possesses the base information and knowledge to most cost effectively provide construction phase system integration support.

**NOW, THEREFORE, BE IT RESOLVED** by the City Council of the City of Martinez, the Interim City Manager is authorized to execute a consultant services agreement with Transdyn, Inc. to prepare and modify the existing WTP control system necessary for the completion of the Water Treatment Plant Electrical Power Distribution System Upgrade, Project No. C7047 in the not to exceed amount of \$99,600.

\* \* \* \* \*

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RICHARD G. HERNANDEZ, CITY CLERK  
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