



DATE: April 14, 2015

CATEGORY: Consent

DEPT.: Public Works

TITLE: **Annual Water and Sewer Main Replacement, Projects 14-21 and 14-22 – Authorize Design Services**

RECOMMENDATION

Authorize City Manager to execute a design services contract with NV5 Engineers of San Jose in a not-to-exceed amount of \$400,000 to provide civil engineering services to design and prepare construction documents for the Annual Water and Sewer Main Replacement, Projects 14-21 and 14-22.

BACKGROUND

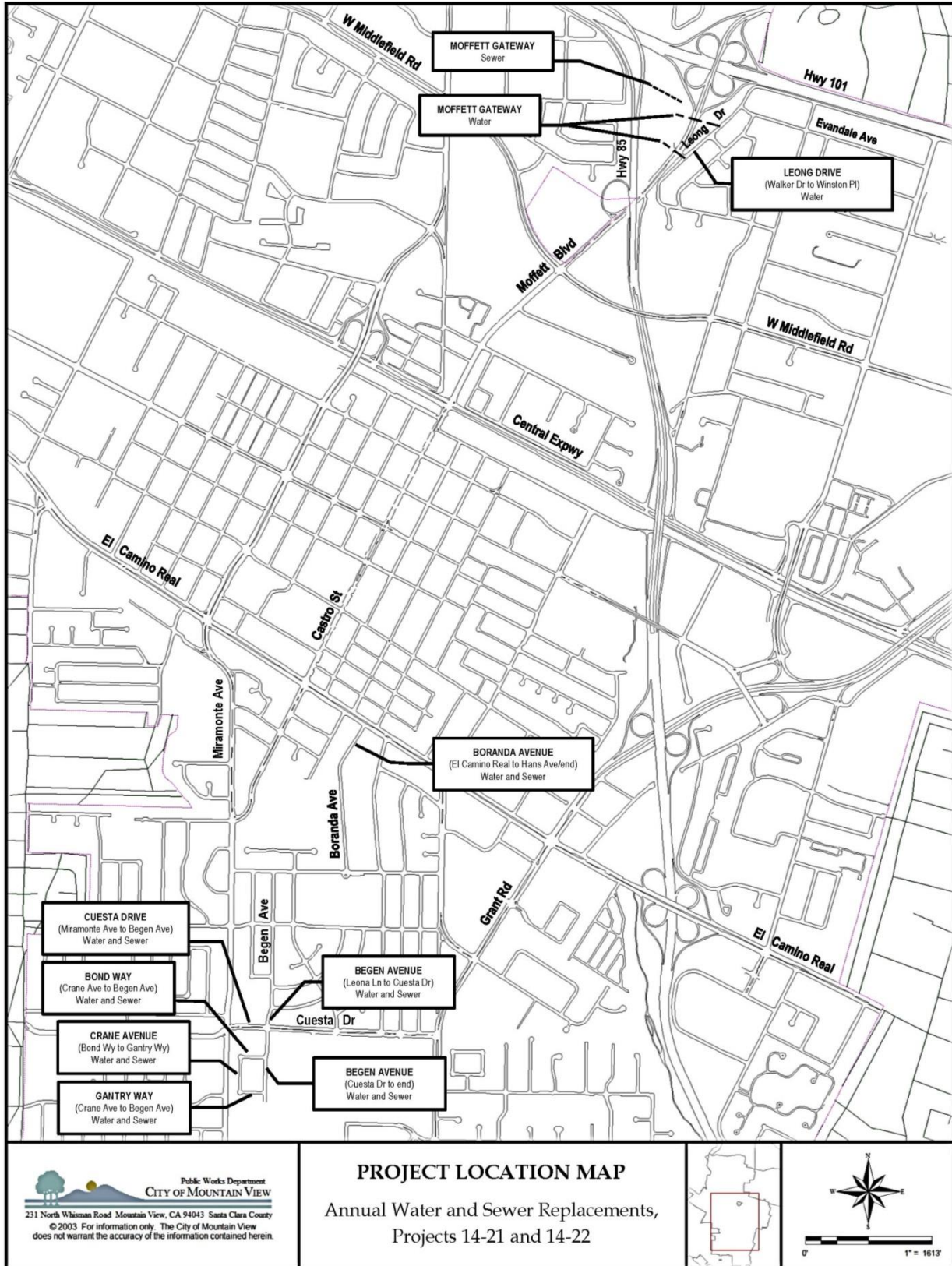
The Annual Water and Sewer Main Replacement, Projects 14-21 and 14-22, respectively, are infrastructure maintenance projects that replace substandard or end-of-service-life water mains, sewer mains, and service laterals. The water and sewer mains are selected for replacement based on age of the pipe, failure history, or capacity considerations.

The projects include the replacement of approximately 4,800' of water mains and 4,600' of sewer mains on Boranda Avenue, Begen Avenue, Bond Way, Crane Avenue, Gantry Way, and Cuesta Drive. It is more cost effective to design and construct the water and sewer replacements together, and it is least disruptive to the neighborhoods to rehabilitate pipes in the same area. The project also includes the following work at or near the City-owned Moffett Gateway site:

- Replacement of approximately 360' of failing sewer main;
- Two new water services for the Moffett Gateway site. The site does not currently have adequate water services; and
- Upsizing of approximately 980' of water main in Leong Drive in anticipation of serving the development at the Moffett Gateway site. The City will be reimbursed for the water main upsizing by the developer of the site.

Below is a table summarizing project locations and approximate lengths of utility replacement followed by a project location map.

Project No. 14-21 and Project No. 14-22 ANNUAL WATER AND SEWER MAIN REPLACEMENT PROJECTS PROJECT LOCATION SUMMARY							
Various Locations	WATER MAIN REPLACEMENT				SEWER MAIN REPLACEMENT		
	Zone	Existing	Proposed	LF	Existing	Proposed	LF
Boranda Avenue - El Camino Real to Hans Avenue/end	2	8" CIP	8" PVC	2000	8" VCP	12" PVC	2000
Begen Avenue - Leona Lane to Cuesta Drive	2	6" CIP	8" PVC	240	8" VCP	8" HDPE	240
Begen Avenue - Cuesta Drive to end	3	6" CIP	8" PVC	860	8" VCP	8" HDPE	930
Bond Way - Crane Avenue to Begen Avenue	3	4" CIP	8" PVC	330	6" VCP	8" HDPE	320
Crane Avenue - Bond Way to Gantry Way	3	4" CIP	8" PVC	460	6" VCP	8" HDPE	370
Gantry Way - Crane Avenue to Begen Avenue	3	4" CIP	8" PVC	330	6" VCP	8" HDPE	340
Cuesta Drive - Miramonte Road to Begen Avenue	3	8" CIP	12" PVC	520	6" CIP	8" PVC	390
<i>Subtotal</i>				4740			4590
Moffett Gateway	Zone	Existing	Proposed	LF	Existing	Proposed	LF
MH F5-052 to unidentified MH 360' east	n/a	n/a	n/a	n/a	15" VCP	18" HDPE	360
2 new 12" services	2	n/a	12" PVC	750	n/a	n/a	n/a
Leong Drive - Walker Drive to Winston Place	2	8" CIP	12" PVC	980	n/a	n/a	n/a
<i>Subtotal</i>				1730			360
PROJECT TOTAL				6470			4950



ANALYSIS

A consultant eligibility list for utility replacement and rehabilitation projects was created in January 2015. This eligibility list was established after issuing a Request for Proposals (qualifications) to local engineering firms and provides a prescreened list of firms to provide basic civil engineering services. In March 2015, NV5 of San Jose, one of the firms from the approved list, was selected to provide a proposal for this specific project.

NV5 has significant experience with utility projects, including past projects with the City of Mountain View. They most recently completed the design for Projects 13-21 and 13-22. Because NV5 is familiar with the City's annual utility projects, staff recommends selecting NV5 for the design of the 14-21 and 14-22 utility replacement work.

NV5's proposed scope of services and fees for the project is provided in Attachment 1. The not-to-exceed contract amount of \$400,000 includes \$363,162 for basic services, including reimbursables, and a contingency in the amount of \$36,838 for unforeseen items. The recommended fees are within the range typically charged for such services, and staff considers the fees to be fair and reasonable.

With City Council approval of this contract, NV5 could begin the project in May 2015. Design is scheduled to be completed in December 2015, and construction is planned to begin March 2016.

FISCAL IMPACT

The Annual Water Main and Service Main Replacement, Project 14-21, and the Annual Storm and Sanitary Sewer Main Replacement, Project 14-22, are funded with \$1,688,000 from the Water Fund and \$1,135,000 from the Wastewater Fund, respectively. The project budget is adequate to fund the recommended agreement for design services. Construction costs will be funded from the Annual Water and Sewer Main Replacement, Projects 14-21, 14-22, 15-21, 15-22, and future Projects 16-21 and 16-22.

ALTERNATIVES

1. Do not approve the recommended contract and direct staff to issue a Request for Proposals to a larger number of engineering firms.
2. Do not proceed with the project at this time.
3. Provide other direction.

PUBLIC NOTICING – Agenda posting.

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AAB/TS/7/CAM
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Attachment: 1. NV5 Design Services Proposal – Scope of Work and Fee Schedule

cc: PCE – Au, USM, SCE – Muench, AE – Bumanglag, AAIL – Grimm, f/c (14-21 and 14-22)