

CRESCENTA VALLEY WATER DISTRICT

**2700 Foothill Boulevard
La Crescenta, California**

**Agenda for the
Adjourned Regular Meeting of the Board of Directors
of the Crescenta Valley Water District
to be held on Tuesday, May 25, 2021 at 7:00 p.m.**

Posted: Friday, May 21, 2021 at 3:30 p.m.

AUDIO & VIDEO CONFERENCING NOTICE

[This meeting will be held by audio & video conference only.]

Pursuant to the provisions of Executive Order N-29-20 issued by Governor Gavin Newsom on March 18, 2020, the public may not attend the meeting in person.

Any member of the public may participate using a touchtone phone. You may select any of the following phone numbers (there are more than one for increased reliability during this time of increased phone traffic)

(669) 900-6833

(346) 248-7799

(929) 205-6099

(253) 215-8782

(301) 715-8592

(312) 626-6799

Then, enter Access Code: 819 8762 0295

Those members of the public who are able to and would like to additionally participate through computer may access the Zoom audio & video conferencing tool available at the following link –

<https://us02web.zoom.us/j/81987620295>

Public comment may be made either by emailing comments ahead of the meeting or by speaking over the phone. Emailed comments will be sent to the Board of Directors prior to the meeting and posted on the District's website. Comments may be sent to Christy Colby, Regulatory and Public Affairs Manager, at (818) 248-3925 or customerservice@cvwd.com by 3pm on May 25, 2021.

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by contacting the District by phone or in writing at the above email address. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

Any written materials distributed to the Board in connection with this agenda will be made available at the same time for public inspection at the District office located at the above address and posted on the District's website.

Call to Order and Determination of Quorum

Pledge of Allegiance

Adoption of Agenda

Public Comments

At this time, the public shall have an opportunity to comment on any non-agenda item relevant to the subject matter jurisdiction of the Board. This opportunity is non-transferable, and speakers are limited to one three-minute (3) comment. Under the provisions of the Brown Act, the Board is prohibited from taking action on items not listed on the agenda, except under certain circumstances.

Foothill Municipal Water District Report

1. Report on activities at Foothill Municipal Water District.

Community Advisory Committee

1. Discussions on budgets, rates and bonds.

Consent Calendar

1. Consideration and approval of the Minutes of the Regular Board Meeting on May 11, 2021.
2. Ratification of Disbursements for April 2021.

Action Calendar

The public shall have an opportunity to comment on any action item as each item is considered by the Board. This opportunity is non-transferable, and speakers are limited to one two-minute (2) comment.

1. **Professional Engineering Services for the Design of a New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station, Project E-977** – Consideration and motion to authorize the General Manager to enter into an agreement with Cannon Corporation to provide professional engineering services for said project at a cost of \$89,868 and establish a contingency amount of \$8,987 (10% of contract) to cover the cost of unforeseen or additional work.
2. **FY 2021-22 Water & Wastewater Budgets** – Discussion and possible action for consideration of the District's FY 2021-22 Water & Wastewater Fund Budgets and related items.
3. **Budget Schedule & Proposition 218 Process** – Placeholder for discussion and possible action for schedule, timing, and other considerations related to completing the budget and Proposition 218 process, including the Water and Wastewater Rate Study.

Information Items

Written Communications to District/Board of Directors

General Manager's Report

Attorney Report

Reports of Committees

- Engineering Committee
- Finance Committee
- Employee Relations Committee
- Policy Committee

- Community Relations/Water Conservation Committee
- Emergency Planning Committee
- Technology Committee

Directors' Oral Reports – Reports on issues, meetings, or activities attended by Directors.

Board Members' Request for Future Agenda Items

Closed Session – Conference with Legal Counsel – Anticipated Litigation

Significant exposure to litigation pursuant to paragraph (2) or (3) of subdivision(d) of Section 54956.9:
One case.

Adjournment

CRESCENTA VALLEY WATER DISTRICT REGULAR MEETING, BOARD OF DIRECTORS

May 11, 2021

Pursuant to the order of the Board of Directors of the Crescenta Valley Water District made at the Adjourned Regular Meeting on April 27, 2021, a Regular Meeting was held on May 11, 2021, at 7:00 p.m. through audio and video conference. A call-in number was clearly noted on the meeting Agenda, posted in accordance with the Brown Act, due to the COVID-19 pandemic, with President Sharon S. Raghavachary presiding.

At roll call, the following Directors and staff members were online:

Directors:
Sharon S. Raghavachary
James D. Bodnar
Kerry D. Erickson
Ken R. Putnam
Judy L. Tejeda

Attorney: **Thomas Bunn**

General Manager: **Nem Ochoa**

Director of Finance & Administration: **James Lee**

Director of Engineering: **David Gould**

Staff Members:
Christy Colby, Regulatory & Public Affairs Manager
Dennis Maxwell, Director of Operations
Brook Yared, Engineering Manager
Arturo Montes, Finance & Administration Manager
Wendy Holloway, Customer Service Manager
Pam Leddy, Administrative Assistant

Public Participation:
Frank Colcord
Marilyn Tyler
Shelley Powsner

PLEDGE OF ALLEGIANCE

Director Erickson opened the meeting by leading the Directors and staff in reciting the Pledge of Allegiance.

ADOPTION OF AGENDA

It was moved by Director Bodnar, seconded by Director Erickson, and carried by a 5-0 roll call vote that the Agenda for the Regular Meeting of May 11, 2021 be adopted as presented.

AYES:
Director Raghavachary
Director Bodnar
Director Erickson
Director Putnam
Director Tejeda

NOES: None

PUBLIC COMMENTS – None

FOOTHILL MUNICIPAL WATER DISTRICT REPORT – Mr. Colcord reported that CVWD's water use for the month of April was up 12% from last year, although this usage remains 5% less than the State's 2013 conservation target. CVWD continues to lead in water conservation rebate applications among Foothill Municipal's retail agencies. The snow-pack levels in the Sierra's and Colorado River Basin are well below average due to low rainfall amounts. Mr. Colcord noted that Governor Newsom has declared a drought emergency for 41 out of 58 counties in the State of California and stressed the urgency to continue to conserve water. Mr. Colcord announced that the 2020 Urban Water Management Plan (UWMP) for Metropolitan Water District has been approved. Foothill Municipal Water District plans to provide public access to their UWMP June 3, 2021, on the FMWD website, before it is voted upon by the Board at the June 26, 2021 meeting.

COMMUNITY ADVISORY COMMITTEE REPORT – Ms. Tyler thanked Mr. Colcord and Ms. Colby for their tremendous service to the Community Advisory Committee. Ms. Powsner noted that the Committee is working on a document of ideas and opinions to share with Board.

CONSENT CALENDAR

It was moved by Director Bodnar, seconded by Director Raghavachary, and carried by a 5-0 roll call vote to approve the Minutes of the Adjourned Regular Board Meeting held on April 27, 2021 through audio and video conference.

**AYES: Director Raghavachary
 Director Bodnar
 Director Erickson
 Director Putnam
 Director Tejeda**

NOES: None

ACTION CALENDAR

Acceptance of Water Facilities at 4520 Rosemont Ave. – Mr. Yared announced that Mr. Jason Kim (Developer) approached CVWD staff for the construction of a new five (5) unit apartment building at 4520 Rosemont which would require a new multi-meter manifold consisting of six (6) new water meters. Mr. Yared further explained that staff worked with Mr. Kim on the design of the multi-meter manifold and that Mr. Kim would separately hire a private contractor that was approved by CVWD to perform the work. Mr. Yared stated that the developer has completed the work to the satisfaction of the District and requested that the Board authorize the General Manager to adopt Resolution No. 766 and accept the water facilities at 4520 Rosemont.

Following discussion:

It was moved by Director Bodnar, seconded by Director Tejeda, and carried by a 5-0 roll call vote to adopt Resolution No. 766 and to authorize the General Manager to accept the water facilities at 4520 Rosemont.

AYES: **Director Raghavachary**
 Director Bodnar
 Director Erickson
 Director Putnam
 Director Tejeda

NOES: **None**

Third Quarter Budget Report – Mr. Montes provided an overview of the District’s Third Quarter Budget Report on revenues and expenditures for the fiscal year ending June 30, 2021. Mr. Montes provided several budget highlights, including increases to the water fund reserves due to increased water sales and lower CIP expenditures based on scheduling, and a diminished draw from the wastewater fund reserves based on a reduction in operation expenses. Director Bodnar requested that the District use a portion of the current year’s addition to reserves to fund the District’s OPEB liability. Mr. Lee stated that the District will need placeholder budgets adopted by June 30, 2021 before an expected implementation date of October 1, 2021 for a three-year rate schedule. The Board directed staff to present both budgets at the next Board meeting for possible adoption.

Budget & Proposition 218 Process – Mr. Montes presented the FY 2021/22 CVWD Meeting Schedule relating to the completion of the budget and the Proposition 218 process, including the Water and Wastewater Rate budget. Mr. Montes noted that in order to implement the adopted rates on October 1, 2021, the Proposition 218 notices would be required to be mailed the week of July 19, 2021. Mr. Montes further explained that the Budget Review/Cost of Service Study & Rate Design requires approval, along with the consideration of a pass-through component of the wastewater rates to account for treatment charges from the City of Los Angeles.

INFORMATION ITEMS – None

WRITTEN COMMUNICATIONS TO DISTRICT – None

REPORTS OF PERSONNEL – No report

GENERAL MANAGER – Mr. Ochoa announced that on April 28th, CVWD played against Glendale Water and Power (GWP) with a final score of 21 to 19 at their first-ever softball game. The event was well attended by CVWD family and friends, and a rematch is expected to be proposed by GWP. Mr. Maxwell provided highlights of the Field Maintenance and Operations report for April. Mr. Gould announced that the water use for April 2021 was 26% higher than last year. Mr. Gould provided updates on CIP and Pipeline Projects, AMI Communication Networks, and the Engineering Office remodel.

ATTORNEY – Mr. Bunn reported on a bill in the legislature to amend the Brown Act. Mr. Bunn stated that this bill would have made it mandatory for a District to provide both internet/phone accessibility, and

translators for various languages as requested at all publicly attended Board and Committee meetings, including after the COVID Pandemic is over. There were a number of objections based primarily on an undue cost burden, and a ruling was made to include only cities of a certain size as part of the revision made to the Brown Act.

REPORTS OF PERSONNEL – None

REPORTS OF COMMITTEES

Engineering Committee – Director Raghavachary reported that the Committee had not met; however, an audio/video conference meeting is scheduled for May 18, 2021.

Finance Committee – Director Raghavachary reported that the Committee had met on May 12, 2021. An audio/video conference meeting will be scheduled as needed.

Employee Relations Committee – Director Bodnar reported that the Committee had met on May 7, 2021. An audio/video conference meeting will be scheduled as needed.

Policy Committee – Mr. Ochoa reported that the Committee had not met; however, an audio/video conference meeting is scheduled on May 12, 2021.

Community Relations/Water Conservation Committee – Mr. Ochoa reported that the Committee had met on April 28, 2021. An audio/video conference meeting will be scheduled as needed.

Emergency Planning Committee – Director Tejeda reported that the Committee had not met; however, an audio/video conference meeting will be scheduled as needed.

Executive Committee – Director Raghavachary reported that the Committee had not met; however, an audio/video conference meeting will be scheduled as needed.

Technology Committee – Director Erickson reported that the Committee had not met. An audio/video conference meeting will be scheduled as needed.

DIRECTORS' ORAL REPORTS

Director Erickson – None

Director Bodnar – None

Director Tejeda – None

Director Putnam – None

Director Raghavachary – None

CLOSED SESSION – None

BOARD MEMBERS REQUESTS FOR FUTURE AGENDA ITEMS – None

ADJOURNMENT

There being no other business to come before the Board, at 7:51 p.m., the meeting was adjourned to May 25, 2021 at 7:00 pm.

APPROVED

Sharon S. Raghavachary
President

James Lee
Director of Finance & Administration

CASH DISBURSEMENTS LIST

APRIL 2021



<u>Check#</u>	<u>Check Date</u>	<u>Payable To</u>	<u>Description</u>	<u>Water Amount</u>	<u>Wastewater Amount</u>
0		CalPERS	Contributions - March 2021	\$25,040.27	14,008.41
0		Los Angeles County Public Works	Excavation permits - April 2021	3,366.00	
0	4/6/2021	Southern California Edison	Power purchased - April 2021	\$6,201.01	74.70
0	4/27/2021	Southern California Edison	Power purchased - April 2021	11,033.02	346.47
42461	4/6/2021	ADS, LLC	Monthly sewer monitoring - March 2021		1,100.00
42462	4/6/2021	Aeration Industries International, LLC	Well #2 - small pump & motor replacement	1,894.09	
42463	4/6/2021	Allen Pipeline, Inc.	4938 Ramsdell - welding for fire hydrant repair	\$943.95	
42464	4/6/2021	American Water Works, Inc.	Unit #53 - trigger gun with plugs		67.62
42465	4/6/2021	Anawalt Lumber & Materials Co.	Misc. hardware - March 2021	\$20.79	21.63
42466	4/6/2021	Aqua - Metric Sales, Co.	Misc. freight - returned meter	23.12	
42467	4/6/2021	ARC	Monthly MSP Billing - March 2021	\$185.94	61.97
42468	4/6/2021	BC Rentals LLC	Temporary sign stands for traffic control	516.06	
42469	4/6/2021	Best Best & Krieger	Watermaster legal counsel services - 2021	\$71.10	
42470	4/6/2021	California Water Environment	Dodge - membership renewal	144.00	48.00
42471	4/6/2021	CCS Interactive, Inc.	Website services - re-opening the office	\$206.25	68.75
42472	4/6/2021	Chemsearch	Unit #33 - food grade lubricant		240.74
42473	4/6/2021	City of Glendale	ULARA Watermaster cost sharing - July thru Sept. 2020	\$3,118.77	
42474	4/6/2021	City of Glendale	ULARA Watermaster cost sharing - February 2021	2,643.20	
42475	4/6/2021	City of Glendale Water & Power	Power purchased - October thru December 2020	\$381.64	
42476	4/6/2021	Colonial Life & Accidents Ins.	Employee paid insurance - March 2021	223.67	
42477	4/6/2021	Consolidated Electrical Distributors, Inc.	Boosters #32 & 33 - Chlorine treatment ethernet kit	\$1,738.83	
42478	4/6/2021	Contractor Compliance & Mont., Inc.	S-962 - Labor compliance service - February 2021		75.00
42479	4/6/2021	CV Strategies	Strategic Communication services - February 2021	\$3,698.69	757.56
42480	4/6/2021	Michael Dixon	Refund check - 3132 Mills	14.05	
42481	4/6/2021	Dodge Data & Analytics	E-1008 - Dodge Green Sheet advertisement for bids	\$1,542.96	
42482	4/6/2021	DYI Home Center	Misc. hardware - March 2021	274.06	91.35
42483	4/6/2021	E Source Companies, LLC	E-1020 - AMI consulting services - January 2021	\$4,285.00	
42484	4/6/2021	Eurofins Eaton Analytical, Inc.	Water analysis - March 2021	731.00	
42485	4/6/2021	Federal Express	Misc. shipping charges - March 2021	\$15.28	14.67
42486	4/6/2021	Fire Master, Dept. 1019	Fire Extinguishers - serviced & recharged	219.96	89.84

42487	4/6/2021	Foothill Car Wash, Lube & Oil	Unit #'s 33, 43, 47, 55, 55, & 59 - oil changes	\$326.74	200.25
42488	4/6/2021	Imre Foti	Refund check - 3316 Burritt Way	6.23	
42489	4/6/2021	Golden Bell Products, Inc.	Lift station degreaser		906.66
42490	4/6/2021	Grace Environmental Services	Well #2 - monitoring assistance - February 2021	4,003.50	
42491	4/6/2021	Grainger	Misc. supplies - March 2021	\$11.71	10.37
42492	4/6/2021	Haacker Equipment Company	Unit #53 - fitted poles		405.72
42493	4/6/2021	Harper & Associates Eng., Inc.	E-1018 - consulting services through November 2020	\$975.00	
42494	4/6/2021	John Robinson Consulting, Inc.	M-965 - Grant assistance - February 2021	2,400.00	
42495	4/6/2021	J's Maintenance Service, Inc.	Janitorial services - March 2021	\$852.72	269.28
42496	4/6/2021	KR Nida Companies	Unit #2 - addition of running lights and tire well light	245.11	150.23
42497	4/6/2021	Lagerlof, LLP	Legal services - February 2021	\$4,028.06	884.20
42498	4/6/2021	Lincoln Financial Group	Group Life & Disability Ins - April 2021	902.24	601.49
42499	4/6/2021	Logan Supply Co., Inc.	Misc. supplies - March 2021	\$73.12	76.10
42500	4/6/2021	Mc Fence Co.	Edmund #2 Reservoir - fence repair	1,800.00	
42501	4/6/2021	Mission Paving and Sealing, Inc.	Glenwood plant - reseal & stripe	\$3,637.50	1,212.50
42502	4/6/2021	Office Depot	Misc. supplies - March 2021	376.01	333.90
42503	4/6/2021	One Ring Networks, Inc.	Data communication - April 2021	\$506.25	168.75
42504	4/6/2021	O'Reilly Auto Parts	Misc. parts - March 2021	54.02	33.10
42505	4/6/2021	Pep Boys, Fleet Services	Unit #48 - brakes	\$101.13	61.98
42406	4/6/2021	Plumbers Depot, Inc.	Unit #53 - misc. connection parts		793.87
42507	4/6/2021	Protech Lift	Unit #52 - hydraulic system service, replace high pressured hose	\$1,961.77	1,202.36
42508	4/6/2021	Ramco	Concrete & crushed misc. base - March 2021	463.33	
42509	4/6/2021	Red Wing Business Advantage	K. Boyce - safety boots	\$129.74	52.98
42510	4/6/2021	Sawyer Petroleum	Diesel - 443 gals., red diesel (generator) - 416 gals. - March 2021	2,605.45	692.58
42511	4/6/2021	Southwest Hydrotech	Well #14 - repair pressure sustaining valve	\$2,271.59	
42512	4/6/2021	Spectrum Business	Office - data communication - March 2021	389.93	136.98
42513	4/6/2021	The Gas Company	Plant - gas purchased - March 2021	\$330.09	104.22
42514	4/6/2021	Uline, Inc.	Glenwood - New shelving for supplies closet	711.95	237.30
42515	4/6/2021	Underground Service Alert	Underground notifications - March 2021	\$255.82	120.37
42516	4/6/2021	UniFirst Corporation	Uniform rentals - March 2021	311.58	93.06
42517	4/6/2021	Vision Service Plan Co.	Group vision - April 2021	\$257.04	171.36
42518	4/6/2021	Wallace & Associates Consulting, Inc.	E-1008 - Janet Lee - Const. & Inspect Mgmt. services - Nov. 2020	4,368.00	
42519	4/6/2021	Waste Management	Glenwood - disposal service - April 2021	\$914.19	288.68
42520	4/6/2021	Western Water Works	Misc. supplies - March 2021	43.80	
42521			Voided check #42521		
42522			Voided check #42522		
42523	4/13/2021	ACWA Joint Powers Ins. Authority	Group health - April 2021	\$42,740.56	28,180.39

42524	4/13/2021	Airgas National Carbonation	Well 2 - carbon dioxide rental tank - April 2021	61.24	
42525	4/13/2021	Ajemco, Inc.	C-1030 - cabinets - payment #1	\$2,149.88	716.62
42526	4/13/2021	American Innotech, Inc.	Disposable urine bags	132.40	117.40
42527	4/13/2021	American Tire Depot	Unit #43 - front brakes and rotors	\$231.73	142.02
42528	4/13/2021	Ansell Health Care Products, LLC	Sewer crew - protective gloves		799.09
42529	4/13/2021	AT&T	Voice communication - March 2021	\$387.64	304.57
42530	4/13/2021	Regino Avalos	Monthly landscaping at 7 sites - March 2021	859.03	195.97
42531	4/13/2021	Cannon	S-962 - La Granada Lift Station design services - March 2021		5,714.00
42532	4/13/2021	CCS Interactive, Inc.	Website services - update graphics & constant contact for LHMP mee	78.75	26.25
42533	4/13/2021	City of Glendale	Glendale utility taxes - February 2021	\$33,339.56	
42534	4/13/2021	City of Glendale	Well #16 lease - July 2020	10,366.85	
42535	4/13/2021	City of Glendale Water & Power	Power purchased - March 2021	\$31,189.46	
42536	4/13/2021	Civiltec Engineering, Inc.	E-1021 - design services through December 2020	15,828.75	
42537	4/13/2021	Crescenta Valley Flooring	Glenwood - new floor install	\$5,775.00	1,925.00
42538	4/13/2021	Dispensing Technology Corp.	100 blue street markers & adhesive for hydrant replacements	648.83	
42539	4/13/2021	E Source Companies, LLC	E-1020 - AMI consulting services - February 2021	\$3,470.44	
42540	4/13/2021	Foothill Municipal Water	Cost share for UWMP 2020	3,561.53	729.47
42541	4/13/2021	Grainger	Misc. supplies - April 2021	\$315.87	285.86
42542	4/13/2021	Great America Leasing Corp.	Kyocera copier leases - April 2021	1,031.95	991.47
42543	4/13/2021	Harper & Associates Eng., Inc.	E-1018 - consulting services through Jan. 2021	\$17,315.00	
42544	4/13/2021	Harrington Ind Plastics, LLC	Well #11 - misc. supplies for chlorine analyzer feed water	134.92	
42545	4/13/2021	Highroad Information Technology	Annual renewal - Sonicwall SSL VPN License	\$6,861.80	1,678.20
42546	4/13/2021	Hopkins Technical Products, Inc.	E-1018 - Rosemont Resv Rehab - returned 2 fl meters	6,190.09	
42547	4/13/2021	Matt-Chlor, Inc.	5 Ph sensors - various locations	\$2,375.25	
42548	4/13/2021	Office Furniture Max	C 1030 - new cabinets - payment #2	3,685.36	1,228.45
42549	4/13/2021	Paper Cuts, Inc.	Paper shredding - March 2021	\$2.60	2.40
42550	4/13/2021	Paveco Construction, Inc.	Paving various locations - March 2021	7,301.64	
42551	4/13/2021	Public Water Agencies Group	Emergency Preparedness Program - March 2021	\$919.38	919.37
42552	4/13/2021	Sawyer Petroleum	T32 cooling oil for well motors	320.56	
42553	4/13/2021	So. Cal Compton Pipe Supply Co., Inc.	E-1008 - brass parts for service installs - March 2021	\$23,430.54	
42554	4/13/2021	Southland Pipe Corp.	E-1021 - 8" steel pipe for 3400 & 3500 Blk. Encinal	49,338.73	
42555	4/13/2021	Spectrum Business	Office - data communication - April 2021	\$3,633.23	1,276.53
42556	4/13/2021	Tetra Tech, Inc.	M-1004 - Local Hazard Mitigation Plan services - January 2021	21,577.50	
42557	4/13/2021	Univar Solutions USA, Inc.	Sodium Hypochloride - Glenwood - 655 gals. Mills - 801 gals.	\$4,319.31	
42558	4/13/2021	Western Water Works	Fire hydrant ext. adapters	605.53	
42559	4/13/2021	YST Investments, LLC	3037- 43 Foothill Blvd. - refund water system & sewer connect fees	\$3,860.00	2,161.00
42560	4/1/2021	Dennis Maxwell	Health reimbursement	641.18	427.45

42561	4/1/2021	Christina Olmedo	Reimbursement - Project Management certification	\$1,623.00	537.00
42562	4/1/2021	Brook Yared	Health reimbursement	93.60	54.40
42563	4/27/2021	A to Z Home Repair, Inc.	3110 Santa Carlotta - bee removal	\$250.00	
42564	4/27/2021	ACWA Joint Powers Ins. Authority	Group health - May 2021	41,475.97	27,337.35
42565	4/27/2021	ACWA/JPIA	Worker's comp. insurance premium - Jan. 2021 to March 2021	\$7,210.41	4,806.94
42566	4/27/2021	Aflac	Employee paid insurance - March 2021	2,641.24	
42567	4/27/2021	Scott Anderson	Refund for fire flow test - 5743 Ocean View	\$300.00	
42568	4/27/2021	Apex Manufacturing Solutions	E-939 - support services - April 2021 through June 2021	14,260.00	
42569	4/27/2021	APTwater, LLC	Nitrate plant maintenance - January 2021 thru March 2021	\$3,655.00	
42570	4/27/2021	AT&T Mobility	Cell phone service - March 2021	1,253.66	374.47
42571	4/27/2021	B.L. Wallace Distributor, Inc.	E-1021 & E-1022 - new meter boxes with AMI lids	\$7,884.33	
42572	4/27/2021	BC Laboratories, Inc.	Water analysis - March 2021	9,720.25	
42573	4/27/2021	BC Laboratories, Inc.	Water analysis - March 2021	\$4,109.25	
42574	4/27/2021	BC Laboratories, Inc.	Water analysis - March 2021	3,700.50	
42575	4/27/2021	BC Laboratories, Inc.	Water analysis - March 2021	\$792.50	
42576	4/27/2021	Civiltec Engineering, Inc.	E-1022 - design services through February 2021	5,505.21	
42577	4/27/2021	Clark Pest Control, Inc.	Monthly pest control service at 4 sites - April 2021	\$234.75	21.25
42578	4/27/2021	Colonial Life & Accidents Ins.	Employee paid insurance - March 2021	223.67	
42579	4/27/2021	Consolidated Electrical Distributors, Inc.	New exhaust fans & enclosures for chlorine analyzers	\$4,804.41	
42580	4/27/2021	CV Strategies	Strategic Communications services - March 2021	736.63	150.87
42581	4/27/2021	Cypress Ancillary Benefits	Group dental - May 2021	\$4,567.78	2,772.16
42582	4/27/2021	E Source Companies, LLC	E-1020 AMI consulting services - March 2021	7,205.00	
42583	4/27/2021	Foothill Municipal Water	Water delivery - March 2021	\$229,623.90	
42584	4/27/2021	Golden Bell Products, Inc.	Roach control - 144 sewer manholes		3,672.00
42585	4/27/2021	Grace Environmental Services	Well #2 - monitoring assistance - January & March 2021	\$7,177.50	
42586	4/27/2021	Gsolutionz Professional Services	Voice communication - April 2021	185.62	145.83
42587	4/27/2021	Haaker Equipment Company	Unit #53 - 4th quarter service		2,095.13
42588	4/27/2021	Highroad Information Technology	Annual renewal -Team Viewer	1,534.50	511.50
42589	4/27/2021	InfoSend, Inc.	Printing & postage for billing - March 2021	\$1,302.03	1,250.97
42590	4/27/2021	Innovyze, Inc.	Annual renewal - H2ONET hydraulic modeling	1,782.00	
42591	4/27/2021	John Robinson Consulting, Inc.	M-965 Grant Assistance - March 2021	\$4,200.00	
42592	4/27/2021	Debbie Johnson	Refund check - 2902 El Caminito	52.25	
42593	4/27/2021	Hyo Sook Kim	Refund check - 2930 Fairway #204	\$40.19	
42594	4/27/2021	LA Dept Water and Power	Power purchased - March 2021	48.85	
42595	4/27/2021	Shoushik Marcharian	Refund check - 2660 Sycamore	\$7.52	
42596	4/27/2021	Raftelis Financial Consultants, Inc.	M-1012 - Cost of Service Study - November 2020	1,405.00	
42597	4/27/2021	Rossmoyne Properties, Inc.	Refund check - 2328 Montrose	\$22.05	

42598	4/27/2021	Jonathan Russo	Reimbursement - grade D2 certification fee	920.00	
42599	4/27/2021	Sawyer Petroleum	Clear diesel - 335 gals. - April 2021	\$1,157.18	307.60
42600	4/27/2021	Shell	Gas purchased - March 2021	2,085.63	622.98
42601	4/27/2021	So. Cal Compton Pipe Supply Co., Inc.	Fire hydrant materials - April 2021	\$1,916.25	
42602	4/27/2021	Springbrook Finance Holdings, Inc.	E-1020 - Consultant services for AMI standard service for meter inter	464.75	
42603	4/27/2021	St. Water Resource Control Board	Dodge - Grade D5 renewal	\$105.00	
42604	4/27/2021	Star Ford	Unit #2 - repaired EGR system and oil sensor	1,346.46	825.24
42605	4/27/2021	Systemated Business Products	2,000 New laser checks	\$129.33	124.25
42606	4/27/2021	Tetra Tech, Inc.	M-1004 - Local Hazard Mitigation Plan services - March 2021	5,030.00	
42607	4/27/2021	The Gas Company	Office - gas purchased - March 2021	\$123.37	38.96
42608	4/27/2021	Tri-Xecutex Corp.	C-1030 - remporary stop security devices for remodel	122.48	50.02
42609	4/27/2021	Ultra Welding, Inc.	Mills plant - misc. welding services	\$750.00	
42610	4/27/2021	Univar Solutions USA, Inc.	Sodium Hypochloride - Glenwood - 660 gals. Mills - 660 gals.	3,924.94	
42611	4/27/2021	Vision Service Plan Co.	Group vision - May 2021	\$267.75	178.50
42612	4/27/2021	Vulcan Materials Company	Mixed bobtail - March 2021	1,095.00	
42613	4/27/2021	Wallace & Associates Consulting, Inc.	E-1008 - Janet Lee - Const. & Inspect. Mgmnt - Feb. to April 2021	\$28,288.00	
42614	4/27/2021	Water Quality & Treatment Solutions, Inc.	E-995 - Chloramine Conversion - services through June 2020	9,482.40	
42615	4/27/2021	Wells Fargo Card Services	Colby - monthly email charges, safety award clothing, working lunch	\$1,168.79	431.12
42616	4/27/2021	Wells Fargo Card Services	Gould - postage to return meters, Awwa Symposium	322.81	50.02
42617	4/27/2021	Wells Fargo Card Services	Holloway - misc. office supplies, working lunch, sympathy flowers	\$148.95	21.74
42618	4/27/2021	Wells Fargo Card Services	Lee - monthly teleconferences, working dinner	81.12	39.93
42619	4/27/2021	Wells Fargo Card Services	Maxwell - oil changes, chlorine analyzer, storage supplies, dinner	\$617.51	263.97
42620	4/27/2021	Wells Fargo Card Services	Ochoa - working lunches	130.92	64.46
42621	4/27/2021	Western Water Works	Misc. stock - March 2021	\$4,739.81	
42622	4/27/2021	Westlake Ace Hardware	Misc. hardware - March 2021	338.91	83.34
42623	4/27/2021	Zebron Corp.	Sewer lift station - rehabilitate interior surfaces		19,625.00
42624	4/27/2021	Costco	Misc. supplies - Costco - March 2021	227.74	207.84

Subtotals	\$843,142.09	\$140,761.35
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Total Disbursements for April 2021	\$983,903.44
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Payroll Report

Directors	\$1,800.00
Office Regular Payroll	122,655.00
Office OT	726.00
Plant Regular Payroll	109,006.00
Plant OT & Standby	10,991.00
Employer Payroll Taxes	18,016.00
Payroll Service Charges	<u>401.00</u>
Total Payroll for April 2021	<u><u>\$263,595.00</u></u>

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Action Item No. 1

May 25, 2021

To: Honorable President and Members of the Board of Directors
From: Brook Yared, M.S., P.E. – Engineering Manager
Subject: Request for Proposal – Professional Engineering Services for Design of a New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station, Project E-977

ACTION ITEM:

Professional Engineering Services for the Design of a New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station, Project E-977 – Consideration and motion to authorize the General Manager to enter into an agreement with Cannon Corporation to provide professional engineering services for said project at a cost of \$89,868 and establish a contingency amount of \$8,987 (10% of contract) to cover the cost of unforeseen or additional work.

BACKGROUND:

CVWD has been operating a break point chlorination station at the corner of Mayfield Ave. and Ramsdell Ave. where CVWD mixes local groundwater with imported water from Foothill Municipal Water District (FMWD). Over the years, this station has experienced high levels of corrosion inside the vault and has not been able to be properly maintained. The primary reason is currently, it is not possible to isolate the mixing station without shutting off the water supplied to CVWD's Zone 1. A secondary water source will be needed for CVWD's Zone 1, which is available from a higher-pressure zone (Zone 2). To facilitate the transfer of water from Zone 2 to Zone 1, CVWD's Engineering Department designed a second Pressure Reducing Station and a new isolation valve at the intersection of Mayfield Ave. and Ramsdell Ave. This would allow for the temporary removal of the RMS from service for necessary repairs (see attached preliminary design plans).

For CVWD to meet the accelerated pipeline replacement schedule along with a full CIP budget, we will need the assistance of a consulting engineering firm to review and prepare final design plans and specifications for the installation of a new PRV and upgrade and possible expansion of the RMS equipment and existing vault.

CVWD has worked with DMC Engineering in preparing a topographic survey of the project area as well as identifying the right-of-way within the City of Glendale and Caltrans. CVWD also worked with Cannon Corp on the electrical design of the project, which is included in this packet.

The selected consultant will be responsible to review the existing design and make recommendations to enhance the mixing operations, extend the life of the station and expand the existing vault and lid to accommodate for maintenance inside of the vault in the future.

Phase 1: The new PRV must be tested in conjunction with CVWD's Montrose PRV (see attached Location Map) to ensure that there is enough flow provided to CVWD's Zone 1 to maintain normal operations during the future isolation of the RMS. This will also require design of electrical and telemetry elements for powering and controlling the PRV via CVWD's SCADA system.

Phase 2: After the PRV has been installed and tested along with a new isolation valve, the RMS can be isolated. All pipelines, isolation valves, and flow control valves shall be replaced and all appurtenant electrical, SCADA, telemetry and sampling systems reinstated. The design should include the expansion of the vault to allow for CVWD operators to access equipment in the vault in the future.

CVWD is planning to bid out both phases of the work as a single project that will be under construction in sequence and completed before June 30, 2022.

DISCUSSION:

In April 2021, staff sent out a request for proposal (RFP) to five (5) consulting engineering firms to prepare design plans and specifications for the proposed project. Each firm has prior experience with professional services for the design of multifaceted water infrastructure projects. Attached for your review is the RFP that included the scope of work and other project parameters.

On April 17, 2021, staff held a pre-proposal web conference with the consulting firms and provided information about CVWD, the scope of work and proposed project schedule. The proposals were accepted on May 10, 2021, and CVWD received two (2) proposals.

Staff reviewed each proposal and ranked them in accordance to the following categories and weighted percentages: 1) Proposal, Project Concept & Scope of Work– 30%, 2) Previous work experience – 30%, 3) Expertise of project staff on similar projects – 20%, 4) Coordination with agencies – 10%, and 5) Costs of service – 10%.

Cannon Corporation (Cannon) was the highest ranked consultant as shown on the attached consultant ranking table. Cannon's proposal addressed the critical design issues such as the channel crossing on Encinal Ave, coordination with Glendale and Los Angeles County, the design of new pipelines/vaults, installation of SCADA/Telemetry, implementation of water quality measures, meeting the District's project schedule, and their proposed costs are within CVWD's budget for this project. Cannon's team members have completed several similar projects within Los Angeles County and have previously provided consulting services to CVWD for the Rockhaven Well, advanced treatment facilities at Well 2, and design of the new emergency generator at CVWD's La Granada Lift Station.

ENVIRONMENTAL REVIEW:

This project is exempt from the California Environmental Quality Act (CEQA) pursuant to Section 15301 of the CEQA Guidelines. This exemption covers the repair of existing facilities involving negligible or no expansion of existing use.

RECOMMENDATION:

It is staff's recommendation to authorize the General Manager to enter into an agreement with Cannon Corporation to provide professional engineering services for said project at a cost of \$89,868 and establish a contingency amount of \$8,987 (10% of contract) to cover the cost of unforeseen or additional work.

FUNDING AVAILABILITY:

There are sufficient funds available in the following account for the project:

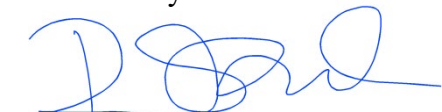
Account Description	Amount
FY 20/21 Water CIP – Water Distribution – Design of Upgrade to Ramsdell Mixing Station	\$50,000
FY 20/21 Water CIP – Water Distribution – Design of Pressure Reducing Station – Zone 1 to Zone 2	\$80,000
Consultant Contract w/ 10% Contingency	<\$98,855>
Amount Remaining in Water CIP – Distribution System – Upgrade Ramsdell Mixing Station	\$31,145

Prepared by:



Brook Yared, M.S., P.E.
Engineering Manager

Submitted by:

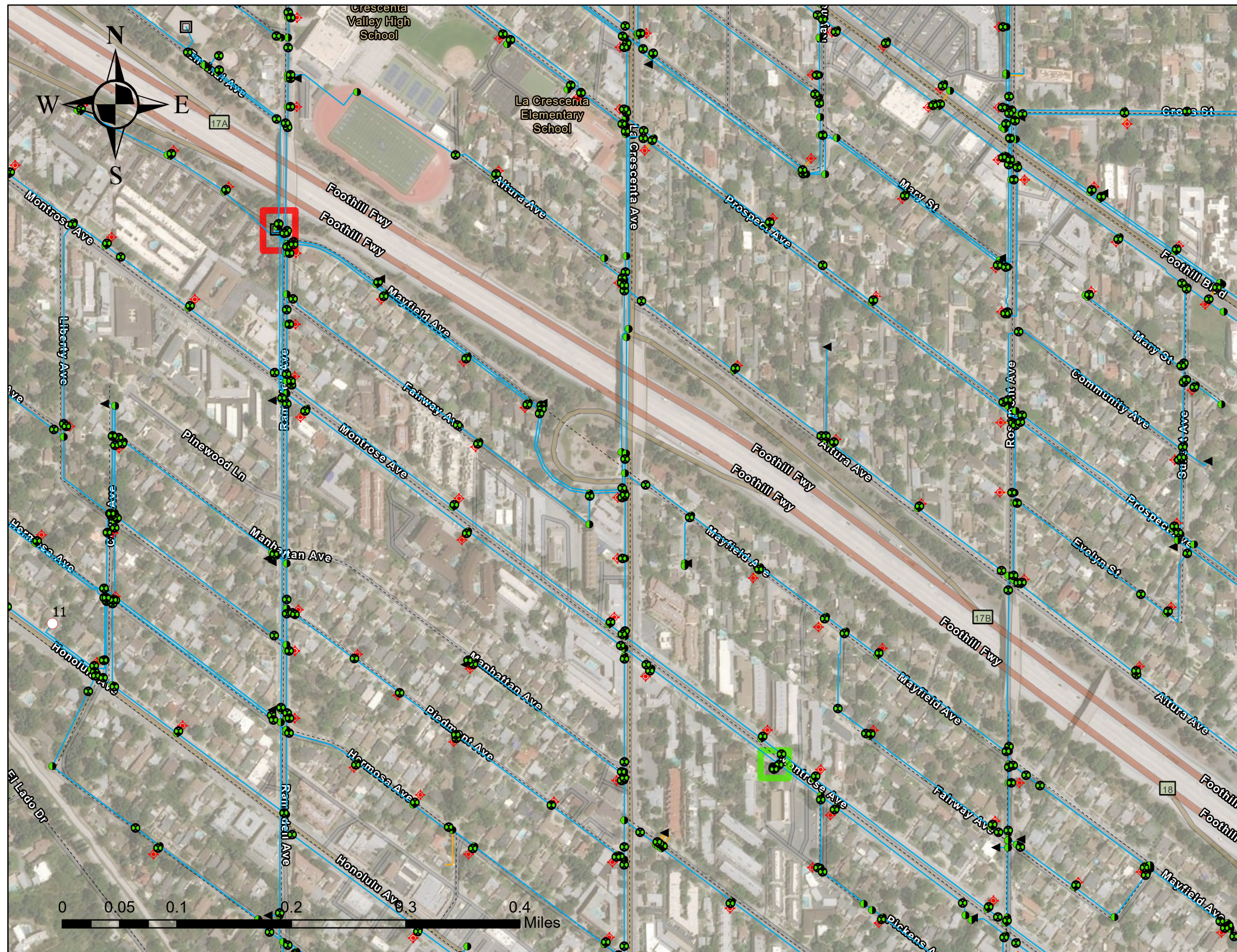


David S. Gould, P.E.
Director of Engineering

Attachments:

1. Project Location Map
2. Layout Drawing
3. Request for Proposal
4. Recommended Proposal
5. Consultant Ranking Table

Attachment #1



Legend

Existing System:

- wwell
- wsvalve
- wnetstr
- ◆ whyd
- wfitting
- ◀ wcvalve

- wmain
- wlatline
- StreetCenterline

Existing Pipe Material: Bare Steel

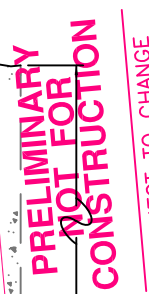
Proposed Construction:

- PRV and RMS Construction Area
- Montrose Pressure Reducing Station

FY 21/22 CIP
Project E-977
Ramsdell Mixing Station
Rehabilitation



Crescenta Valley Water District



**POTHOLE PRIOR TO CONSTRUCTION
FOR DEPTH, LOCATION & CONDITION**

N.T.S.

UNDERSTANDING
SERVICE ALERT

1-800-227-2600

DIGALERT



AT LEAST TWO
WEEKS BEFORE
ANY
WORK TO EXCAVATE

PLAY IT SAFE.
CALL BEFORE
YOU DIG.

SCALE: 1" = 4'	DATE	CRESCENTA VALLEY WATER DISTRICT CWUD INSTALL 8" PRESSURE ZONE INTER-TIE STATION AT RAMSDELL AVE. & MAYFIELD AVE.	SHT. 1 OF 2 SHTS. COMPLETION DATE JOB NO. FILE NO. E-977 C-408
DRAWN BY: J.A. HUERTA	2/27/18		
CHECKED BY: B. YARED			
APPROVED: D.S. GOULD			
AS BUILT:			



REQUEST FOR PROPOSAL

PROFESSIONAL ENGINEERING SERVICES FOR DESIGN OF A NEW PRESSURE REDUCING STATION & REHABILITATION OF THE RAMSDELL MIXING STATION, PROJECT E-977

PROPOSAL DUE DATE: May 3, 2021

INTRODUCTION:

Crescenta Valley Water District (CVWD) is embarking on its FY 21/22 capital improvement project program to install a new pressure reducing valve station (PRV) and rehabilitation of CVWD's Ramsdell Mixing Station (RMS) near the intersection of Mayfield Avenue and Ramsdell Avenue. Maintenance and possible expansion of the RMS have been deferred until a PRV and additional isolation valves can be installed to isolate the station while still providing adequate water supply to CVWD's Zone 1.

CVWD's Board agreed to pursue additional funding, totaling \$5M with the understanding that the bond proceeds must be spent within 3-years of issuance of the bond. CVWD's Board of Directors have instructed staff to use these bond proceeds to fund new projects such as the RMS. This increase in available spending has given CVWD staff the opportunity to increase our normal annual CIP spending on long deferred infrastructure projects.

BACKGROUND:

CVWD has been operating a break point chlorination station at the corner of Mayfield Ave. and Ramsdell Ave. where CVWD mixes local groundwater with imported water from Foothill Municipal Water District (FMWD). Over the years, this station has experienced high levels of corrosion inside the vault and has not been able to be properly maintained. The primary reason is currently, it is not possible to isolate the mixing station without shutting off the water supplied to CVWD's Zone 1. A secondary water source will be needed for CVWD's Zone 1, which is available from a higher-pressure zone (Zone 2). To facilitate the transfer of water from Zone 2 to Zone 1, CVWD's Engineering Department designed a second Pressure Reducing Station and a new isolation valve at the intersection of Mayfield Ave. and Ramsdell Ave. This would allow for the temporary removal of the RMS from service for necessary repairs (see attached preliminary design plans).

For CVWD to meet the accelerated pipeline replacement schedule along with a full CIP budget, we will need the assistance of a consulting engineering firm to review and prepare final design plans and specifications for the installation of a new PRV and upgrade and possible expansion of the RMS equipment and existing vault.

CVWD has worked with DMc Engineering in preparing a topographic survey of the project area as well as identifying the right-of-way within the City of Glendale and Caltrans. CVWD also worked with Cannon Corp on the electrical design of the project, which is included in this packet.

The selected consultant will be responsible to review the existing design and make recommendations to enhance the mixing operations, extend the life of the station and expand the existing vault and lid to accommodate for maintenance inside of the vault in the future.

The PRV and RMS are located adjacent to a large condominium community and several single-family residents. Parking is limited within the area, and it is a high traffic area due to a nearby high school.

Phase 1: The new PRV must be tested in conjunction with CVWD's Montrose PRV (see attached Location Map) to ensure that there is enough flow provided to CVWD's Zone 1 to maintain normal operations during the future isolation of the RMS. This will also require design of electrical and telemetry elements for powering and controlling the PRV via CVWD's SCADA system.

Phase 2: After the PRV has been installed and tested along with a new isolation valve, the RMS can be isolated. All pipelines, isolation valves, and flow control valves shall be replaced and all appurtenant electrical, SCADA, telemetry and sampling systems reinstated. The design should include the expansion of the vault to allow for CVWD operators to access equipment in the vault in the future.

CVWD is planning to bid out the construction of both the new PRV and the upgrades to the existing RMS under the same construction project with anticipated end of construction before June 14, 2022.

SCOPE OF WORK:

CVWD is seeking a professional engineering firm to design and prepare construction specifications documents for the installation of the new PRS and RMS as described above. The major elements of the project include the following:

- Review of preliminary plans prepared by CVWD and its consultants
- Utility research and compiling for base map.
- Prepare a pothole plan for utility crossing and connection to existing water mains. Potholing will be performed by CVWD crews.
- Pipeline, valve, and vault design per CVWD design and AutoCAD standards including:
 - The PRV installation includes the design of three (3) new isolation valves, one (1) new PRV, one (1) new 16-inch isolation valve, one (1) new vault, electrical conduit, SCADA/telemetry program updates, and reconnection to existing water mains.
 - The RMS review of existing equipment, study vault expansion option, replace existing 10" flow control valves.
- Details of vaults and connection to existing water mains
- Review and coordinate Electrical design plans and specifications with Cannon.
- Traffic Control Plans per City of Glendale requirements
- Coordination with City of Glendale Department of Public Works
 - Design requirements relative to pavement replacement, backfill requirements, water discharge BMPs and traffic control.
 - Excavation Permit – Submittal and preliminary approval. Contractor will obtain the final permit. CVWD will pay all permit fees.
- Coordination with the California Department of Transportation
 - Additional permitting for construction adjacent to a freeway crossing, (if required).
- Coordination with Southern California Edison (SCE) for upgrade of the electrical meter
- Project Front-end Specifications provided by CVWD
- Project Special and Technical Provisions. Sample provided by CVWD
- Bidding Schedule and Engineer's construction cost estimate.
- Project Schedule for design phase and estimated construction schedule
- Construction services for bidding & shop drawing review. If CVWD needs additional assistance during construction for RFI's, CVWD will request a separate proposal.

Deliverables:

- Prepare 100% submittal and final submittal of construction drawings and specifications for both the PRV and vault construction as well as upgrades to the RMS.

Project Meetings - Attendance at least five (5) design and bidding project meeting

- Kick-off Meeting
- Community Outreach Meeting (Design Consideration)
- 50% Submittal for Pressure Reducing Station and Ramsdell Mixing Station construction.
- 90% Submittal for Pressure Reducing Station and Ramsdell Mixing Station construction.
- Final Submittal
- Pre-Bid Meeting

Project Schedule:

<u>Task</u>	<u>Date</u>
Pre-Proposal Meeting – Video Conference	April 21, 2021
Proposal Due	May 3, 2021
Award of Contract	May 25, 2021
Kick Off Meeting	June 2, 2021
50% Design Submittal and Review	May 26 – July 15, 2021
90% Design Submittal and Review	July 15 – August 19, 2021
Permitting (City of Glendale)	July 15 – August 26, 2021
Public Outreach (Design Consideration)	July 22, 2021
Board Approval – Advertisement for Bids	September 7, 2021
Pre-Bid Meeting	September 22, 2021
Bid Opening	October 13, 2021
Board Approval – Award of Contract	October 26, 2021
Public Outreach (Contractor/Inspector meet the Public)	November 4, 2021
Preconstruction Meeting	November 11, 2021
Start Construction	November 15, 2021
End Construction	June 14, 2022

PROPOSAL REQUIREMENTS:

Scope of Work

The proposal shall include a detailed list itemizing the tasks required to complete the scope of work addressing all project criteria outlined above. Each task shall include a detailed estimate of man-hours required to complete each task.

Proposal Fee Schedule

The proposal shall include a "Fee Schedule" outlining all applicable hourly rates and costs for services. The proposal shall provide a breakdown of fees associated with the project task as specified above. The proposal shall also include a "not-to exceed" total fee, which shall include all work necessary to complete the project objective.

Schedule

The proposal shall include a proposed project schedule detailing the time of completion for design and permitting. The schedule shall include the number of calendar days required to perform each task and the total number of calendar days required to complete the entire project.

Project Experience

The proposal shall include description of comparable pipeline projects completed by consultant including experience working with the City of Glendale and Los Angeles County within past three (3) years including: 1) names, addresses, and phone numbers of project managers, 2) date completed, location of work, and the name and address of the agency or firm for whom the project was constructed.

Consultant's Representative

The proposal shall name a responsible representative, an alternate, and all sub-consultants to perform the assigned tasks. The chosen consultant's representative will remain responsible and in charge of all duties from contract negotiations through project completion. If the primary representative is unable to continue with the project, then the alternate representative will become the primary representative. The District must approve any other changes in responsible representative, in advance. The District will have the right to reject other proposed changes in personnel and may consider any other changes in responsible personnel a breach of contract.

Professional Service Agreement

The chosen consultant shall be responsible for completing the specified services in accordance with the District's standard "Professional Services Agreement," which will be prepared by the District. Services specified in this agreement shall be taken directly from the consultant's accepted proposal and from this "Request for Proposal", if applicable.

Insurance Requirements

The District will require employer's liability, comprehensive commercial liability insurance, and errors and omissions insurance coverage for at least \$2,000,000 and comprehensive automobile liability for at least \$1,000,000. The District requires that the District be named as additional insured on the policy and such insurance policy shall not be terminated or canceled without thirty (30) days prior written notice to the District.

District Reimbursements

The District normally reimburses consultants for the actual cost (plus 15%) for all outside expenses, including those for material costs authorized in advance by the District. Other reasonable expenses will be reimbursed where such costs have been advanced by consultant and approved by the District.

The chosen consultant shall not be compensated for use of computers, office equipment, hardware, or software materials. Said costs are not compensated and time expended by consultant's personnel on such equipment is included within the hourly rate as shown on the consultant's fee schedule.

District Responsibilities:

District will provide the following to assist the selected consultant with the project and its completion:

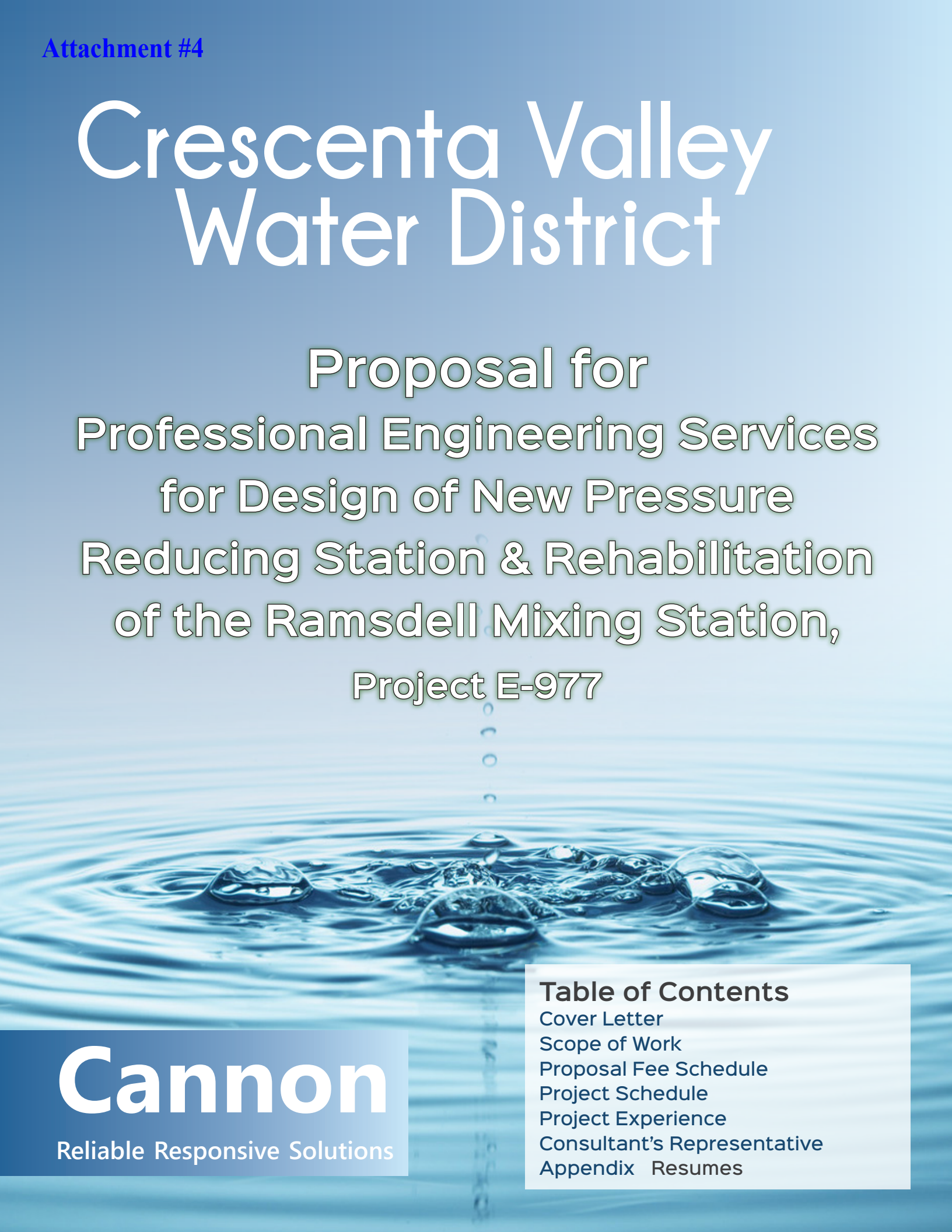
- Topographic survey and right-of-way mapping prepared by DMc Engineering.
- Electrical plans prepared by Cannon Corp.
- Geographic information system (GIS) information and topographic surveys as available.
- Reports, plans, and drawings, as available and pertinent to the proposed plan.
- Design criteria, preferred manufacturer's information, and other technical information, as available and pertinent to the project.
- Current operational condition and performance of existing infrastructure pertinent to the proposed plan.

Proposal Due Date:

Please submit one (1) copy of the proposal as a PDF file via e-mail by 12:00 pm by May 3, 2021 to byared@cvwd.com. Send three (3) copies of the proposal to the attention of Mr. Brook Yared, Engineering Manager at Crescenta Valley Water District, 2700 Foothill Boulevard, La Crescenta CA 91214. If you have any questions or comments, contact Mr. Yared at 828-236-4117.

Crescenta Valley Water District

Proposal for Professional Engineering Services for Design of New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station, Project E-977

A background image of a water splash with ripples and droplets, creating a sense of movement and freshness.

Cannon

Reliable Responsive Solutions

Table of Contents

- Cover Letter
- Scope of Work
- Proposal Fee Schedule
- Project Schedule
- Project Experience
- Consultant's Representative
- Appendix Resumes



May 10, 2021

Mr. Brook Yared
Crescenta Valley Water District
2700 Foothill Boulevard
La Crescenta, CA 91214

**PROJECT: PROFESSIONAL ENGINEERING SERVICES FOR DESIGN OF A NEW PRESSURE REDUCING STATION AND REHABILITATION
OF THE RAMSDELL MIXING STATION, PROJECT E-977
CRESCENTA VALLEY WATER DISTRICT**

Dear Mr. Yared:

Crescenta Valley Water District (CVWD or District) continues to demonstrate their commitment to improving the efficiency of their water system and expanding their service capacity. By installing a new pressure reducing valve station (PRV) and rehabilitating CVWD's Ramsdell Mixing Station (RMS), CVWD is investing in their infrastructure (as part of their part of FY 21/22 capital improvement program) to provide an adequate water supply to their customers. By upgrading and replacing the aging RMS, CVWD will be able to maintain mixing imported water from Foothill Municipal Water District (FMWD) with local groundwater and break point chlorinating the blended water. Improvements will allow better monitor and control of break point chlorination and reduce water quality issues.

CVWD requests a reputable and experienced consultant to deliver high-quality engineering, resulting in a robust water system that will last for decades to come. We are committed to meeting project milestones within the timeframes required by CVWD. We will maintain and accelerate, as need and available, project scheduling and project task completion. In addition to our experience providing CVWD water resource engineering for Wells Nos. 2 and 16, our team has worked extensively with water agencies and companies throughout Los Angeles and Orange Counties and southern California. Our clients include the cities of Glendale, Santa Monica, Manhattan Beach, Beverly Hills, Norwalk, Los Angeles County Department of Public Works, Suburban Water Systems, and Golden State Water Company, whom we have completed similar projects within constricted time frames. As a result of this experience, our team is well suited to provide reliable, efficient engineering design to meet CVWD's project needs.

We also have experience in working with the City of Glendale and Los Angeles County in their permit requirements. We have added John Robinson Consulting, Inc to assist Cannon with the permitting aspects of this project. Well 16 for CVWD required a Los Angeles County flood control permit for the well waste discharge line connection to the storm drain system and also required permits with the City of Glendale.

With 44 years of water main replacement, upgrade, and other potable-water resource design and surveying experience, Cannon has the staff, resume, and references to make your projects a success. We will apply our experience to provide the innovative and cost-effective engineering services needed for your water main replacement program.

All information submitted within this proposal is true and correct. This proposal will remain valid for a period of 90 days from the submittal date on this letter. We acknowledge receipt of amendments to this RFP.

Sincerely,

A handwritten signature in dark ink, appearing to read "Gary D. Roepke", is written over a light blue curved background element.

Gary Roepke, PE, C 48693
Civil Senior Principal Engineer



PROJECT UNDERSTANDING AND APPROACH

Crescenta Valley Water District (CVWD) is embarking on its FY 21/22 Capital Improvement Project (CIP) program. One such project is the installation of a new pressure reducing valve station (PRV) and rehabilitation of CVWD's Ramsdell Mixing Station (RMS), located near the intersection of Mayfield and Ramsdell Avenues. Maintenance and possible expansion of the RMS have been deferred until a new PRV and additional isolation valves can be installed to isolate the RMS, while still providing adequate water supply to CVWD's Zone 1. As part of the design upgrades, the electrical and controls for the RMS need upgrading; the PRV vault will need electrical and controls design. To meet the accelerated project delivery schedule for the projects in the CIP budget, CVWD requires an experienced consulting engineering firm to review and prepare final design plans and specifications for the installation of a new PRV and upgrade and possible expansion of the RMS equipment and existing vault.

BACKGROUND

CVWD has been operating a break point chlorination station at the corner of Mayfield and Ramsdell Avenues, where CVWD mixes local groundwater with imported water. The imported water, from Foothill Municipal Water District (FMWD), is delivered to RMS via a 10-inch steel pipe. The groundwater comes from CVWD's Glenwood Water Treatment Plant, via a 16-inch steel pipe. The two pipes join together downstream of the RMS vault. The vault contains a 10-inch flow control valve, which regulates the flow of the imported water, and a 16 inch check valve on the groundwater supply. The water from FMWD is chloraminated and the water from the groundwater supply is chlorinated. When the two waters are blended at the RMS, the resulting water is chlorinated.

Over the years, the RMS chlorination station has experienced high levels of corrosion inside the vault. Regular proper maintenance of the vault has also proven problematic since the RMS cannot be isolated without shutting off the water supplied to CVWD's Zone 1. A secondary water source is needed for CVWD's Zone 1, which is available from a higher-pressure zone (Zone 2). To facilitate the transfer of water from Zone 2 to Zone 1, CVWD's Engineering Department completed a preliminary design of a second Pressure Reducing Station and a new isolation valve at the same site. This will allow for the temporary removal of the RMS from service for necessary repairs. Preliminary design plans were submitted in the RFP

CVWD has worked with DMC Engineering to prepare a topographic survey of the project area and identify the right-of-way within the City of Glendale (City) and Caltrans. The vaults for PRV and the upgrade of the RMS will be in the City's right-of-way, per the plans presented in the RFP.

Cannon has completed the preliminary electrical design of the project.

The proposed PRV and existing RMS project site is located adjacent to a large condominium community and several single-family residents. Parking is limited within the area, and it is a high traffic area due to a nearby high school.



PROJECT APPROACH

The Scope of Work includes review of the existing design of the PRV and assume responsibility of the design. Additional scope of work items include providing recommendations and design enhancements to the RMS to extend the life and improve the ease of maintenance. Our cursory approach to enhancing of the RMS is to expand the existing vault and lid to accommodate future maintenance inside the vault.

The design will include the following:

- Pipeline, valve, and vault design, per CVWD design and AutoCAD standards.
- PRV installation, including design of three new isolation valves, one new PRV, one new 16-inch isolation valve, one new vault, electrical conduit, SCADA/telemetry program updates, and connection to existing water mains.
- RMS review of existing equipment, study vault expansion option, replace existing 10" flow control valves.
- Detailed vaults and connection to existing water mains.
- Complete electrical design of the project.
- Construction of the project, including PRV and RMS enhancements completed as one project in two stages, with one set of plans and specifications. The design must accommodate the staging of the project, described as follows.

Stage 1: Install and test the new PRV in conjunction with CVWD's Montrose PRV to confirm adequate flow is provided to CVWD's Zone 1 to maintain normal operations during the future isolation of the RMS. This phase will require installation of the electrical and telemetry elements for powering and controlling the PRV, via CVWD's SCADA system.

Stage 2: After installing and testing the PRV with the new isolation valve, the RMS will be isolated. Phase 2 includes replacing pipelines, isolation valves, and flow control valves and appurtenant electrical, SCADA, and telemetry. The sampling systems will be reinstated after replacement of the RMS. The replacement of the RMS includes expansion of the vault to allow CVWD operators future access to the vault equipment.

Our approach to successfully complete this project is based on providing professional services in three progressive phases:

- Phase 1 – Preliminary Engineering, Preliminary Final Design Report
- Phase 2 – Engineering Design Services
- Phase 3 – Bidding and Construction Phase Support Services

The phases are carefully sequenced to provide an efficient schedule while remaining realistic and achievable. As a starting point for discussion, enclosed is a preliminary Project Schedule, which shows the entire Work Program will take approximately 3 months to complete. We will revise this schedule to meet the District's goals and objectives for this project.



SCOPE OF WORK

Cannon has prepared a detailed project specific set of task items and descriptions to successfully complete this project.

Phase 1 –Preliminary Engineering and Preliminary Design Report

Task 1.1 – Project Kick-off Meeting and Site Visit

Cannon will begin the project with a kick-off meeting with District staff. This meeting is a key opportunity for District representatives and the consultant team to direct and further clarify critical elements of the project. The meeting agenda will focus on the project understanding, staff preferences, siting considerations, data and information collection, team member involvement, project constraints, project progress, and anticipated design obstacles. This meeting will also include a review of background information provided with the RFP documents and project scope as well as an overview of the project schedule.

Cannon will interview key personnel of the Design department and the O&M staff to incorporate design preferences and fully understand the issues influencing the project. The kick-off meeting will also initiate the transfer of additional relevant record plans and include a project site visit.

Task 1.2 – Review of Available Information

Cannon will coordinate with the District to obtain pertinent operations, record drawing information (existing water main plans for the connections of the PRV and RMS) needed for design, and sample specifications in electronic format. We will review the preliminary plans of the PRV in anticipation of assuming responsibility of the design.

The system hydraulics and the design pressure will be obtained, evaluated, and established from District provided information. Cannon will use this hydraulic information to estimate the flow that will be available from Zone 2 to Zone 1 through the PRV.

Cannon will make additional field visits to establish and verify dimensions and existing utility locations. We will compile and review collected documents for inclusion into the electronic base map used to prepare a detailed preliminary design report and plans and related tasks defined below.

Additionally, Cannon will contact the City of Glendale, County of Los Angeles, and Caltrans promptly after the Notice to Proceed to identify the requirements for the permits to install the PRV and the RMS. We have added John Robinson Consulting, Inc. to the Cannon team to handle the permit requirements. Expected required information are the following:

- Design requirements for construction of the PRV and RMS vaults, electrical conduits and panels, and water mains.
- Design requirements relative to pavement replacement, backfill requirements, water discharge BMPs and traffic control.
- Development of the traffic control plans (Cannon has included Right of Way, Inc as part of our team for completion of the Traffic Control plans)
- Excavation Permit – Submittal and preliminary approval will be completed by Cannon/John Robinson. The Contractor will obtain the final permit. CVWD will pay all permit fees.



- Coordination with SCE for the design of a new service pedestal. The new service pedestal will have branch circuit breakers in it for distributing power to the necessary equipment at the site.

Task 1.3 – Utility Research and Notification

Cannon will contact Underground Service Alert (USA) and request the information on which utility companies will impact the design. We will coordinate with the utility companies and the District to obtain pertinent operations data and record drawing information of utilities within the project areas. Cannon will compile, review, and include collected utility information into the electronic topographic survey base map.

Task 1.4 – Potholing

Potholing is a critical element in utility research and is used to determine the vertical location of existing underground utilities crossing the proposed pipeline alignment. The potholing of pipeline/utility crossings during the design phase is standard practice for an underground pipeline project. This practice reduces pipeline construction interferences and potential project delays. The actual number of potholes will be reevaluated and determined after available utility information is collected and plotted. Cannon will prepare a potholing map and present it to the District for review and comments. The pothole map will be prepared after approval by the District of the Preliminary Design Report. We understand that the District will pothole the utilities and provide location markers for the utility potholed and the depth to the utility. Cannon will complete a follow site visit to measure the locations of the potholes after the potholing has been completed. The pothole locations will be presented on the base maps along with the depth to the utility.

Task 1.5 – Topographic Survey

A topographic survey of the project area, as well as identifying the right-of-way within the City of Glendale and Caltrans, has been completed by DMc Engineering. Cannon will use the topographic survey as our base sheets for the design of the project. (We assume that the survey will be included in the plans sheets for the PRV.)

Task 1-6 – Traffic Control Plans

Provisions will be included in the project specifications imposing the requirement of submitting signed and stamped traffic control plans onto the Contractor at the time of construction. The requirements for the traffic control will comply with the requirements of the City of Glendale and Los Angeles County. We are anticipating that the WATCH Handbook; will be required.



Task 1.7 – Preliminary Design Report (PDR) Preparation (50% Plans)

It will be necessary to review the relevant information for the project and discuss the findings with District staff with the intent of preparing a preliminary design report for the project. The goals of the PDR will establish the following:

1. Review comments Cannon has on the PRV plans and anticipated changes, if any.
2. Review the existing RMS plans and provide options for expanding the vault for easier access.
3. Make recommendations for replacing the existing valves.

The final details of the PDR will include the following:

1. The PDR will include the 50% submittal of the plans.
2. Cannon anticipates the following drawings:
 - a. Title Sheet
 - b. General Notes Sheets
 - c. PRV Plan Sheet
 - d. PRV Details Sheet
 - e. RMS Plan Sheet
 - f. RMS Details Sheet
 - g. Miscellaneous Details Sheet
 - h. Single Line Diagram
 - i. P&ID
 - j. Electrical Plans including Conduit and Wiring Routing for Power and Instrumentation
 - k. Electrical Elevations and Details
3. System hydraulic and pressures.
4. Permit requirements.
5. Traffic Control requirements from City of Glendale and Los Angeles County will be presented.
 - a. We anticipate that the requirements for traffic control will be the responsibility of the contractor. The traffic control plans prepared will be for processing the permits.
6. Utility research.
 - a. List of the utilities that have been contacted and copies of the reply letters, including as-built plans.
7. List of Technical specifications
8. Preliminary opinion of construction costs.

Task 1.8 – PDR Review Meeting

Cannon will attend a meeting with District staff to present and review the PDR and discuss District comments and feedback. The final comments will be incorporated into the PDR for finalizing and for inclusion in the design documents.



Task 1.9 - Permitting

Cannon's experience in the project area indicates that the following permits are required:

- City of Glendale Encroachment/Excavation Permit
- County of Los Angeles Encroachment/Excavation Permit

Cannon will prepare and submit the applications to the appropriate jurisdictions. Once we receive comments, we will revise the plans and resubmit. The approved permits will be included in the specifications with instructions to the contractor for pulling the final permits.

Due to Covid-19 restrictions, permits will be completed online if possible and as directed by the jurisdictions.

Task 1.10 – Project Management

The project requires project setup, scheduling, controlling, and correspondence with the District. Correspondence includes telephone conversations, emails, project status reports, monthly status reports, project memorandums, when necessary, and detailed monthly invoices.

Phase 2 – Engineering Design Services

Task 2.1 Design and Prepare 90% and 100% Construction Plans

Based on the findings and results of the previous tasks, Cannon will prepare and submit design plan packages at the 90% and 100% approximate completion level. The design plan packages will include title sheet notes, plans and profile sheets, and detail sheets. Design plans will be prepared in accordance with District design and AutoCAD standards.

With the 90% and 100% construction plan submittals, the technical specifications and bid schedule will be submitted. Per the RFP, the District's front-end contract documents and standard technical specifications will be provided.

Opinion of Construction cost will be prepared by Cannon using the District's format.

Tasks 2.2 – 90% and 100% Submittal Meetings

Cannon will attend a meeting with District staff to review and discuss 90% and 100%, plan-check comments and other District staff feedback.

Task 2.3 – Final Design and Construction Documents

Based on the completed work in previous tasks, Cannon will design and prepare calculations and construction documents including specifications and opinion of construction costs for a Final complete submittal.



Tasks 2.4 - Final Submittal Meeting

Cannon will attend a meeting with District staff to review and discuss 100%, plan-check comments and other District staff feedback.

Task 2.5 – Design and Construction Documents (Final Submittal)

Based on the completed work in previous tasks, Cannon will package the project calculations and construction documents for a Final submittal.

Task 2.6 – Community Meeting

Cannon will attend one community meeting to assist the District at presenting the design. Cannon will prepare exhibits, as required, to present the design.

Task 2.7 - Project Management

Phase 2 requires scheduling, controlling, and correspondence between the District, equipment vendors, and sub-consultants. Correspondence includes telephone conversations, emails, project status reports, monthly status reports, project memorandums when necessary, and detailed monthly invoices.

Phase 3 - Bidding and Construction Phase Support Services

Task 3.1 - Pre-Bid Meeting

Cannon will attend a Pre-Bid Meeting with the District and contractors interested in bidding on the project. Cannon will prepare an agenda outline for the meeting and take notes of the meeting. After the meeting Cannon will distribute the list of attendees and required addendum.

Task 3.2 – Submittal Review

Cannon will provide assistance during bidding to answer questions from contractors and assist the District with issuing addendums, if required.

During construction, each Shop Drawing submittal received from the Contractor will be reviewed once for its completeness and conformance to the project specifications and District standards by the Design Engineer. Draft shop drawing submittals will be distributed to the District for review and final comments before being returned to the Contractor for action. We have assumed reviewing 20 item submittals total.

Task 3.3 – Project Management

Phase 3 requires project setup, scheduling, controlling, and correspondence between the City and utility agencies. Correspondence includes telephone conversations, emails, project status reports, monthly status reports, project memorandums when necessary, and detailed monthly invoices.



DELIVERABLES

- PDR 50 % Plan Submittal
 - Electronic copy in PDF format.
- 90% and 100 % Submittal
- Electronic copy in PDF, Word, Excel, and AutoCAD format of specifications, plans and opinion of construction cost.
- Final Submittal
- Electronic copy in PDF, Word, Excel, and AutoCAD format of specifications, plans and opinion of construction cost.
 - One hard copy of the specifications and opinion of construction cost.
 - One mylar hard signed copy of the plans.

ASSUMPTIONS

Listed below are the assumptions made in preparing this proposal.

- *The District will provide Record Drawings and information relating to existing facilities in PDF or AutoCADD electronic and hard-copy format.*
- *District standard contracting documents, specifications, and construction plans are available in Word, AutoCAD, and PDF format.*
- *The Contractor will be responsible for preparing and implementing a SWPPP and best management practices and traffic control plans.*
- *The District will provide all permitting and plan-check fees with all permitting and plan approval agencies and will pay for all utility research fees from all utility companies.*
- *Traffic Control Plan requirements will be identified in the project specifications and will be part of the contractor's responsibility.*
- *The connecting water main will not be in conflict with DDW requirement and thus a DDW variance will not be required. District will handle the Division of Drinking Water (DDW) coordination.*
- *Design of the upgrades to the existing PLC panel are not included, only an evaluation of the panel is included in the fees. CVWD will design and construct the PLC panel based on an Apex design.*

AUTHORIZED REIMBURSABLES ARE DEFINED AS FOLLOWS:

- *Copies and prints*
- *Reprographics*
- *Postage and delivery*

FEES

Services for Professional Engineering will be provided on a Time and Material basis. Billing will be based on work completed monthly. If necessary, due to an increase in the Scope of Work and unexpected field conditions, Cannon will prepare a formal request for an ASA to the contract. It is our understanding that this project qualifies for California Prevailing Wages.

Proposal Fee Schedule

		Cannon																Subconsultant	Subconsultant		Total	
		Civil Senior Principal		Quality Control		Sr. Principal Electrical		Sr. Principal Automation		Electrical Project		Associate Civil		Project Civil		Administrative		Permitting John Robinson	Traffic Control	Reimbursibles		
		Engineer		Engineer		Engineer		Engineer		Engineer		Engineer		Engineer		Assisstant			Right of Way			
Hourly Rate		\$213		\$213		\$198		\$198		\$135		\$165		\$138		\$62		Lump Sum	Lump Sum	Lump Sum		
Task		Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Cost	Cost	Cost	Hrs	Cost
Phase 1 –Preliminary Engineering and Preliminary Design Report																						
1.1	Project Kick-off Meeting and Site Visit	6	\$1,278			6	\$1,188					6	\$990			2	\$396			\$75	20	\$3,927
1.2	Review of Available Information	4	\$852									8	\$1,320	4	\$552						16	\$2,724
1.3	Utility Research and Notification													4	\$552						4	\$552
1.4	Potholing	1	\$213									2	\$330	4	\$552						7	\$1,095
1.5	Topographic Survey																					
1.6	Traffic Control Plans	2	\$426																\$3,025		2	\$3,451
1.7	Preliminary Design Report (PDR) Preparation (50% Plans)	4	\$852	4	\$852	4	\$792	4	\$792			6	\$990	16	\$2,208	4	\$248				42	\$6,734
1.8	PDR Review Meeting	4	\$852									4	\$660							\$150	8	\$1,662
1.9	Permitting	2	\$426			1	\$198			4	\$540	2	\$330					\$16,500			9	\$17,994
1.10	Project Management	8	\$1,704													8	\$496				16	\$2,200
Subtotal		31	\$6,603	4	\$852	11	\$2,178	4	\$792	4	\$540	28	\$4,620	28	\$3,864	14	\$1,140	\$16,500	\$3,025	\$225	124	\$40,339
Phase 2 – Engineering Design Services																						
2.1	Design and Prepare 90% and100% Construction Plans	12	\$2,556	6	\$1,278	8	\$1,584	8	\$1,584	24	\$3,240	10	\$1,650	32	\$4,416	3	\$186			\$200	103	\$16,694
2.2	90% and 100% Submittal Meetings	4	\$852							2	\$270	8	\$1,320							\$150	14	\$2,592
2.3	Final Design and Construction Documents	4	\$852	2	\$426	4	\$792	2	\$396	8	\$1,080	4	\$660	8	\$1,104	2	\$124				34	\$5,434
2.4	Final Submittal Meeting	4	\$852							2	\$270	4	\$660							\$75	10	\$1,857
2.5	Design and Construction Documents (Final Submittal)	2	\$426	2	\$426	1	\$198	1	\$198	2	\$270	4	\$660	8	\$1,104	2	\$124			\$200	22	\$3,606
2.6	Community Meeting	4	\$852									4	\$660	4	\$552					\$95	12	\$2,159
2.7	Project Management	16	\$3,408													8	\$496				24	\$3,904
Subtotal		46	\$9,798	10	\$2,130	13	\$2,574	11	\$2,178	38	\$5,130	34	\$5,610	52	\$7,176	15	\$930			\$720	219	\$36,246
Phase 3 – Bidding and Construction Phase Support Services																						
3.1	Pre-Bid Meeting	4	\$852							3	\$405	4	\$660			2	\$124				13	\$2,041
3.2	Submittal Review	2	\$426			2	\$396			16	\$2,160	20	\$3,300	20	\$2,760						60	\$9,042
3.3	Project Management	8	\$1,704													8	\$496				16	\$2,200
Subtotal		14	\$2,982			2	\$396			19	\$2,565	24	\$3,960	20	\$2,760	10	\$620				89	\$13,283
Total		91	\$19,383	14	\$2,982	26	\$5,148	15	\$2,970	61	\$8,235	86	\$14,190	100	\$13,800	39	\$2,690	\$16,500	\$3,025	\$945	432	\$89,868

Reimbursables

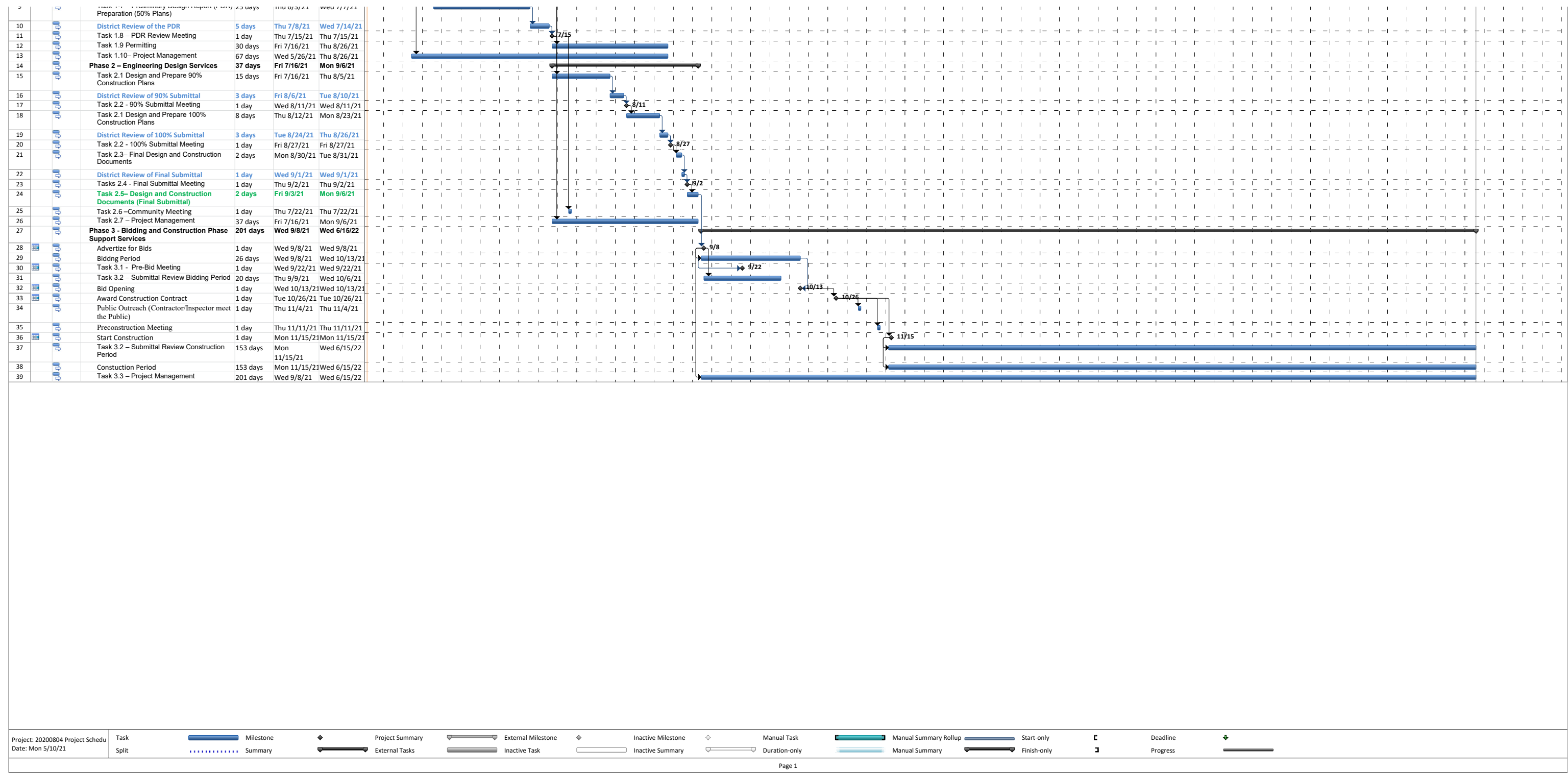
Cannon's expenses incurred in connection with this Proposal as follows:

- a) incidental and out-of-pocket expenses including but not limited to:
costs for postage, shipping, overnight courier, reproduction services, plotting, photocopies, parking fees and tolls
- b) travel expenses

* This is an estimated allotment of hours. Actual time requested and spent will be billed on a T&M basis

Project Schedule

We are committed to meeting project schedules and deliverable deadlines. The schedule included on the following page, is based on careful evaluation of the project, its objectives and scope, and the logical sequencing needed to adequately complete the District’s project. Every effort has been made to propose a realistic schedule that allows appropriate time frames.



Project Experience



Zone 9 PRS Interconnection and SCADA Design

Beverly Hills, California

The City of Beverly Hills has entered into agreement with the Los Angeles Department of Water and Power (LADWP) for a water interconnection at Monte Cielo Court and La Fontaine Court. The new interconnection will provide additional flow for hillside protection against fire along Monte Cielo Drive and La Fontaine Court adjacent to Franklin Canyon.

Cannon designed the pressure reducing station (PRS) for emergency fire flow events. Cannon provided professional engineering and design services for the project, which includes analysis and design of the piping system with the interconnection in the street; specification of electrically operated valves; structural

design; and electrical and SCADA design. The important facility can now be operated remotely, resulting in near immediate response time.

The electrical and SCADA services included coordination with Southern California Edison to provide power to the site; designing the electrical distribution of the PRS; designing a new SCADA panel; and developing a control narrative.

Reference Contact Information

Tristan Malabanan, PE, Civil Engineer
City of Beverly Hills
345 Foothill Boulevard, Beverly Hills, CA 90210
☎ 310.285.2486,
✉ tmalabanan@beverlyhills.org



Pressure Reducing Station and Sustaining Valve Design

Lynwood California

The City of Lynwood selected us to prepare engineering design plans, construction documents, and an opinion of probable construction cost for two pressure reducing and sustaining valve stations (PRS) and one automated two-way valve on the discharge piping of Well No.8.

The existing PRS at McNerney and East Imperial Highway was replaced primarily to mitigate current cavitation and velocity problems. The new PRS at the Well No. 8 site served as a back-up. Both PRS stations were fully automated, requiring no manual operation, and were remotely adjustable using SCADA. The design was in accordance with AWWA and City of Lynwood standards for public

waterworks projects. Greenbook, Caltrans Standard Plans, and California Department of Public Health Standards were incorporated in the design.

We worked closely with the City to provide several design options; ultimately the City selected the most efficient design. In addition to the engineering and design work, our survey team performed a topographic survey of the existing area from which the base drawings were developed.

Reference Contact Information

Jose Molina, Utility Services Manager, City of Lynwood
11750 Alameda Avenue, Lynwood, CA 90262
☎ 310.603.0220, ✉ jmolina@lynwood.ca.us



863 PZ to 460 PZ Pressure Regulating Station

Malibu, California

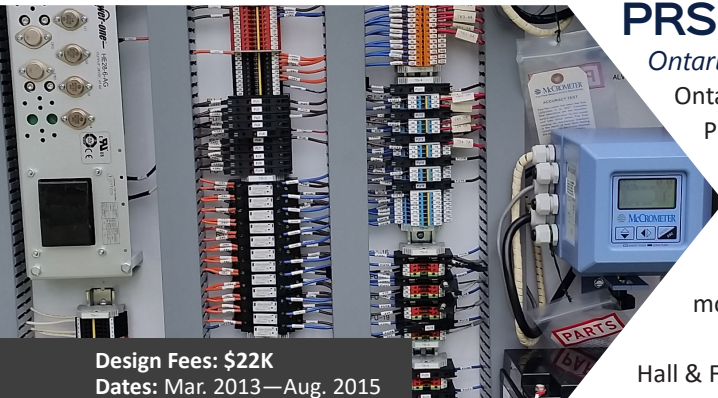
Development of residential properties in Malibu was increasing demand on Los Angeles County Waterworks District's (LACWWD) existing water systems. In many areas, the existing water mains and storage facilities were deficient in supplying the required fire flow and storage compliant with Fire Department and LACWWD standards. To satisfy fire flow requirements in some areas, water facilities in adjacent pressure zones were used to provide adequate fire protection, which required the design of additional new water system facilities to connect pressure zones.

Design Fees: \$27K
Dates: Oct. 2010—Jan. 2011
Project Managers: Eric Porkert

The Upper Busch System (460 Pressure zone (PZ)) was served by the 145,000 gallon Philips Reservoir and had 118,000 gallons of available fire storage. The residential property located within the Upper Busch System at 5795 Calpine Drive was recently conditioned to meet a fire flow of 1,331 gpm, including a fire storage volume of two hours equating to 159,720 gallons. Therefore, the Upper Busch System was deficient by 41,720 gallons. To provide the required fire storage volume in the Upper Busch PZ, Cannon used the existing Horizon Reservoir (0.5 MG) by designing a pressure-regulating and -sustaining station to provide the deficient 41,720 gallons. Using SCADA and a set Philip Reservoir level, the pressure regulating and sustaining (PR&S) valves now open and provide the necessary water for the 460 PZ. As a backup, the PR&S valves also operate hydraulically upon the detection of a set downstream pressure.

Reference Contact Information

Richard Sherman, President, Topanga Underground
21300 Deering Court, Canoga Park, CA 91304
☎ 818.251.1980 ✉ richard@topangaunderground.com



PRS #21 Electrical Design

Ontario, California

Ontario Municipal Utilities Company (OMUC) conducted a Water Master Plan that resulted in the recommendation of constructing three pressure reducing stations (PRS) to increase water flow to Zones 1074 and 1010. An additional study indicated that construction of only one PRS was necessary at this time. OMUC wanted to have PRS 21 constructed to increase available fire flow in the 1074 Zone. This PRS would also provide a more direct path for water to get the lower 1010 Zone and future 925 Zone.

Design Fees: \$22K
Dates: Mar. 2013—Aug. 2015
Project Managers: Derek Romer

Hall & Foreman proposed to design PRS 21, and selected to use Cannon to provide the electrical and SCADA design of the project. Cannon consulted with Hall & Foreman to determine how best to provide electric power to the new PRS, and then

contacted the serving utility early in the design process to coordinate the power feed. In addition, Cannon designed the power distribution for the PRS. Electrical equipment was located where it was convenient to operations personnel, minimized lengths of conduit and wire runs to equipment, and where it would meet all California Electrical Code Requirement for clearances.

Cannon will also provide the SCADA and instrumentation design for the new PRS 21, which was integrated into the City's existing SCADA system.

Reference Contact Information

Robert Brandom, Project Manager, Hall & Foreman
17782 17th Street, Suite 200, Tustin, CA 92780
☎ 714.663.4528 ✉ RBrandom@hfinc.com



Well No. 2 Inspection Services - Crescenta Valley Water District

La Crescenta, California

This project consists of equipping a 150 gpm well that was constructed in 1927. The project includes installation of a Biological Nitrate Removal Treatment Plant with a carport type enclosure, operations building, a new electrical service connected to Glendale Water & Power, motor control center (MCC), well discharge line, sewer connection, storm drain, and construction of new site improvements including a retaining wall, fencing, and motorized gate. CVWD selected Cannon to provide construction management of the installation of the necessary facilities for Well No. 2. The scope of work included weekly progress meetings with agendas and minutes; coordination with CVWD, the contractor, design engineer, and City of Glendale; keeping complete and organized construction files using ProCore; daily site observation/inspection with daily reports; review and response to RFIs; exhibits for design changes as needed based on field conditions and CVWD's requested changes or additions; coordination of material testing; management of contract change orders (including review and analysis before presenting to CVWD).

Inspection Fees: \$284K
Dates: Nov. 2017—Jun. 2019
Project Managers: Gary Roepke

Client Contact/Project Reference
David Gould, PE, District Engineer
Crescenta Valley Water District
2700 Foothill Boulevard, La Crescenta, CA 91214
☎ 818.248.3925 ✉ dgould@cvwd.com



Bradshaw Water Treatment Plant

Barstow, California

Golden State Water Company (GSWC) had begun construction phase of the Ion Exchange treatment system for their Bradshaw Well Field and required engineering and design for the nitrate removal plant. GSWC selected Cannon to provide services to deliver high-quality construction documents as part of a design build project. A new metal building (approximately 50 ft x 100 ft) was erected between Wells No. 10 and No. 14 to house the treatment system that treats a blend of the two wells (approximately 2,000 gpm total) for a target combined nitrate concentration of 8 ppm. The treatment system will essentially treat approximately 930 gpm of high-nitrate water (approximately 13-15 ppm) and reduce the levels down to 2.3 ppm. A portion of the system included a sodium hypochlorite enclosure, including HVAC, analyzers, and injection point for the 2,000 gpm water treatment plant.



Design Fees: \$311K
Dates: Nov 2017—May 2020
Project Managers: Amando Garza

Client Contact/Project Reference
Ben Jimenez, PE, Capitol Program Engineer
Golden State Water Company
3035 Prospect Park Drive, Suite 60
Rancho Cordova, CA 95670
☎ 909.288.5210 x312
✉ ben.jimenez@gswater.com

Cannon's scope of work included specifying and detailing of the sodium hypochlorite tank and chemical feed system since the equipment was selected by the client. Because of the small enclosure of the chemical treatment facility within the main building, HVAC design was required. The injection point design was specified to optimize mixture of the chlorine in the treated water for use by the City of Barstow. Cannon's scope of work includes preparation of construction drawings and specifications, responses to RFI's and construction support.



Pump Station No. 8

Beverly Hills, California

Cannon was selected to provide engineering and design services for three separate pumping systems within an existing building: pre-packaged potable water pump station, a temporary pre-packaged potable water pump station and a diesel engine fire pump. The potable water pump stations are variable frequency drive (VFD)-controlled. Design included above-ground suction and discharge piping within the pump station building to minimize pipe corrosion and increase pipe accessibility. Services included structural assessment of the building and roof and review of structural roof upgrades

to meet current codes by

our licensed structural engineer. Engineering and redesign allowed the City's emergency connection with LADWP to be relocated and contained within the existing building. Engineering and design services included electrical, control system, and SCADA to solidify the new pump station's location, operation, and controls.

Reference Contact Information

Tristan Malabanan, PE, City Engineer

City of Beverly Hills, 345 Foothill Road

Beverly Hills, CA 905210

☎ 310.285.2486 ✉ tmalabanan@beverlyhills.org



Pump Station No 28 Analysis , Port of Long Beach

Long Beach, California

Pump Station 28 is the Port of Long Beach's (POLB) largest stormwater pump station. This facility, which consists of six pumps (four 500 hp and two 250 hp) pumps, has been experiencing mechanical and electrical issues. Despite operational motors running on two of the pumps, they were not producing flow.

Cannon was selected to provide engineering services to support POLB in resolving the issues. The

initial scope of work involved the evaluation of the pump station and determination what was required to complete an upgrade and bring the station back to it's intended capacity.

Reference Contact Information

Daniel Shieh, Port of Long Beach

415 W. Ocean Blvd. Long Beach, CA 90802

☎ 562.437.0041, ✉ Daniel.Shieh@polb.com



Dover, Weymouth, and Pierpont Stations

Ventura, California

Cannon was awarded this project in the fall of 2019. The project is to upgrade two storm water pump stations in the Pierpont Beach area. The existing pumps are three 4,100 gpm mix flow pumps and one-1,600 gpm submersible pump with a lift of 17 feet. The goal of the project is to increase the efficiency of the pump stations and provide structures and pumping plants that will weather the Pacific Ocean storm long into the future. Cannon has analyzed the pumping requirements and currently in the process of starting the design of the pump station. The design includes survey, civil, electrical, mechanical,

structural, and SCADA. The decision has not been made to complete the upgrade with mix flow pumps or vertical pumps. The existing wet well is intended to remain with structural upgrades and a new building over the wet well to house the pumps and electrical and controls.

Reference Contact Information

Chris Dejarme, Senior Civil Engineer

City of Ventura Public Works Department

☎ 805.407.8421 ✉ cdejarme@cityofventura.ca.gov

Consultant's Representative

Cannon Corporation- Providing Reliable Responsive Solutions since 1976

As a full-service engineering, surveying, and construction management firm, we take pride in our ability to offer clients a broad range of services. Our commitment to providing clients Reliable Responsive Solutions, whether the project scope is expansive or more specialized, spans 44 years. During that time, we have worked with many cities, counties, and agencies throughout California to maintain secure and dependable water systems.

Our experience includes design and construction of hundreds of miles of pipelines; water wells; pump stations; recycled water systems; sewer/wastewater systems; treatment facilities; and more. Additionally, we have worked with several surrounding municipalities and other public agencies to complete public infrastructure projects involving work similar to the scope of services anticipated by the City of Lakewood

Our team of more than 130 professionals includes registered civil, electrical, mechanical, and structural engineers; automation and SCADA system specialists; licensed land surveyors and landscape architects; and Caltrans certified construction managers and inspectors. We offer expertise in the following areas of service that may be needed for your project:

- Pressure Reducing/Pressure Sustaining Stations
- Well Equipping/Design
- Booster/Lift Station Design
- Reservoirs/Water Storage Design
- Pump and Appurtenances Design
- Automation/SCADA and Electrical Power Distribution Design
- Hydraulics/Surge Analysis
- Piping and Valve Design
- Topographic and Boundary Surveys
- Computer Modeling
- Horizontal Directional Drilling/Jack and Bore
- Regulatory Requirements and Permitting Assistance
- Street Repair, Realignment, Rehabilitation, and Improvements Design
- Landscape and LID Design
- Fire Flow Analysis
- Fire Flow and Pressure Testing
- Full GIS and Scanning Capability
- Construction Management and Inspection

Authorized Representative / Project Manager

Gary Roepke, PE No. 48693

11900 West Olympic Boulevard, Suite 530,
Los Angeles, CA 90064

☎ 310.382.5129 📠 310.633.0889

✉ GaryR@CannonCorp.us



Alternate Authorized Representative and Lead Project Engineer

Tina Kuah, PE No. 70876

11900 West Olympic Boulevard,
Suite 530, Los Angeles, CA 90064

☎ 310.382.5134

✉ TinaK@CannonCorp.us



Experience Counts

We offer expertise in the following areas relevant to your project:



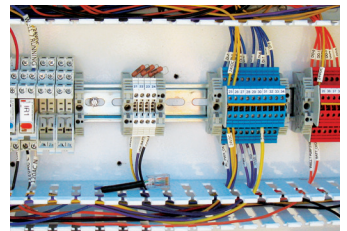
Pump Station and PRS



Water Resources

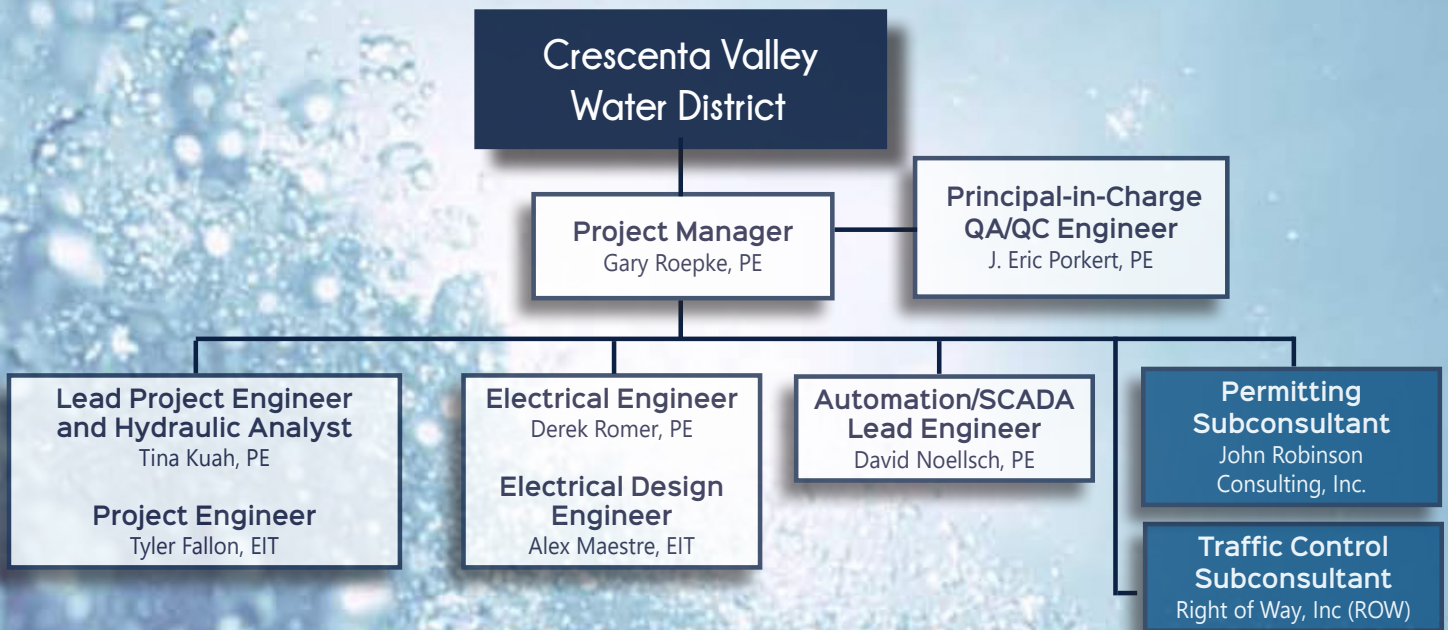


Hydraulic/Surge Analysis



Electrical and Automation

Organizational Chart



Respective resumes and availability of the proposed team members can be found in the Appendix of this proposal.

Subconsultants

Cannon has a working relationship with numerous subconsultants, spanning over several years with multiple projects completed on time and within budget. We have selected the following firms to provide services in support of our proposed services to the District.



Permitting: John Robinson Consulting, Inc. is a general consulting firm offering a range of services including a Small Business Enterprise (SBE) certification. John Robinson has over 25 years of

consulting and management experience, including in grant/loan identification and assistance, project management, CEQA/Environmental Documentation, PLA/CCP compliance, pipeline and pump station design, water resources systems (water & wastewater) planning, Title 22 permitting, wastewater treatment plant permitting (General/NPDES/WDR/WRR), well design and rehabilitation, AWT design, drinking water/surface water regulations, and construction administration and management.



Traffic Control (optional): Right of Way Inc. (ROW) is a full service Traffic Control Company, which manages vehicle and pedestrian control for special events, production and film companies, construction sites and county and state government agencies. ROW has built strong relationships with city, county and state government agencies as well as with private companies and large venues. ROW's staff is comprised of highly trained traffic control specialists, permit writers and office personnel committed to making each project professional, safe and stress free. ROW services the entire Southern California area and parts of Central and Northern California, and neighboring states with headquarters in San Dimas, CA.

Appendix



Cannon

Gary Roepke, PE Project Manager

Professional Registration

- Registered Civil Engineer, California, No. 48693

Education

- Bachelor of Science, Civil Engineering, Iowa State University, Ames, Iowa

Professional Affiliations

- Association of Water Agencies of Ventura County
- American Water Works Association
- Southern California Water Utilities Association
- City and County Engineers Association

Mr. Roepke brings more than 40 years of experience in engineering and design for water resources. He has been the project manager for municipal, industrial, commercial, and military facility projects involving water wells, water treatment, water supply, transmission, and distribution systems; drainage and flood control systems; wastewater collection and pumping systems; and recycled water systems. In addition, Mr. Roepke provides construction administration, inspection, and start-up services such as master planning, preparation of reports, and studies for both new construction and upgrades to existing facilities.

Construction Management Well 2 Quality Control Inspection Services, La Crescenta, California:

Crescenta Valley Water District selected Cannon to provide construction management of the installation of the necessary facilities for Well No. 2. The scope of work included weekly progress meetings with agendas and minutes; coordination with CVWD, the contractor, design engineer, and City of Glendale; keeping complete and organized construction files using Procore; daily site observation/inspection with daily reports; review and response to RFIs; exhibits for design changes as needed based on field conditions and CVWD's requested changes or additions; coordination of material testing; management of contract change orders (including review and analysis before presenting to CVWD); and much more. Mr. Roepke was responsible for providing oversight of preconstruction, construction, and post-construction phases of this project. He was responsible for verifying improvement construction in accordance with the plans and specifications, coordinating with GSWC, the Contractor, and the Design Team.

Summary of Select Project Experience

- Cornell Pump Station, Los Virgenes Municipal Water District
- Well 45, Well 4-3 and Well 4-5 City of Tulare
- Big Sky: 1248PZ Pump Station, Simi Valley-VCWWD
- 1470PZ Pump Station, Simi Valley-VCWWD
- Madera Pump Station Improvements, Simi Valley -VCWWD No.8
- Pump Station No.8 Improvement, Beverly Hills
- Petersen Potable and Recycled Water Pump Stations, Santa Clarita Valley Water Agency
- Elizabeth Lake Road / 25th Street West-3240 PZ Pump Station, LACWWD
- Borchard Road Pump Station Improvements, California American Water
- 1248 PZ 2.5 MG Reservoir, Simi Valley-VCWWD
- 1470 PZ 2.2 MG Reservoir, Simi Valley-VCWWD
- 1.6 MG Parker Ranch Reservoir, Simi Valley-VCWWD
- 5.0 Mount Sinai Reservoir, Simi Valley-VCWWD
- Runkle Canyon Tract 5364 2.0 MG Reservoir, Simi Valley - GSWC
- Avenue I and 87th Street West 2555 Pressure Zone and 0.2 MG Forebay Reservoir, LACWWD
- Castaic Reservoir No.3, Santa Clarita Valley Water Agency
- 3240 Pressure Zone 3.0 MG Steel Reservoir, LACWWD



J. Eric Porkert, PE Principal-in-Charge and QA/QC Manager

Professional Registration

- Registered Civil Engineer, California, No. 57562

Education

- Bachelor of Science, Engineering, California State University, Northridge, California

Professional Affiliations

- American Water Works Association
- American Society of Civil Engineers

Mr. Porkert will be your Project Manager and your main point of contact from project initiation to construction completion for the Two New Wells 13 & 14 North Long Beach. He will provide valuable insight and expertise to this agreement, bringing more than 28 years of experience to this project, managing and/or designing plans for water municipalities and wastewater systems. Mr. Porkert will organize and motivate the project team while controlling the schedule, costs, and ensuring customer satisfaction.

Mr. Porkert specializes in water resource and wastewater planning and brings a long, successful history of designing major water transmission mains, water mains, pump stations, potable reservoirs, pressure regulating stations, water wells, collection mains, forebays, and chloramination treatment facilities. He prepares water and sewer master plans, generates opinions of costs, and provides utility coordination as well as directs project management and hydraulic analyses for large municipal water, recycled water, and wastewater facility design. Mr. Porkert's project experience includes designing energy-efficient water systems by adding off-peak equalizing storage, and he has provided design for increased reservoir volume capacity by properly sizing water mains for efficient flow during off-peak pumping flows and by increasing pump station flow capacity when feasible.

Summary of Select Project Experience

- Petersen Potable and Recycled Water Pump Stations, Santa Clarita Valley Water Agency (SCV Water)
- Elizabeth Lake Road / 25th Street West-3240 PZ Pump Station, LACWWD
- Borchard Road Pump Station Improvements, California American Water
- Madera Pump Station Improvements, Simi Valley, Ventura County Waterworks Department No.8 (VCWWD)
- Crown Hill Pump Station, Los Angeles County Waterworks Department (LACWWD)
- Stetson Ranch Tract No. 49621- 0.4 and 0.7 Mg Pump Stations, SCV Water
- Avenue I and 87th Street West 2555 Pressure Zone Pump Station and Well 4-90, LACWWD
- Stetson Ranch Tract No. 49621- 0.4 and 0.7 Mg Reservoirs, SCV Water
- Cornell Pump Station, Los Virgenes Municipal Water District
- Skyline Pump, Santa Clarita Valley Water Agency
- 1.6 MG Parker Ranch Reservoir, Simi Valley-VCWWD
- Castaic Pump Station No.3, Santa Clarita Valley Water Agency
- Castaic Reservoir No.3, Santa Clarita Valley Water Agency
- Castaic Pump Station No. 2, Santa Clarita Valley Water Agency
- Big Sky: 1248 PZ 2.5 MG Reservoir, Simi Valley-VCWWD
- Big Sky: 1470 PZ 2.2 MG Reservoir, Simi Valley-VCWWD
- Big Sky: 1248 PZ Pump Station, Simi Valley-VCWWD
- Big Sky: 1470PZ Pump Station, Simi Valley-VCWWD
- Pump Station No.8 Improvement, Beverly Hills
- 5.0 Mount Sinai Reservoir, Simi Valley-VCWWD No.8
- Runkle Canyon Tract 5364 2.0 MG Reservoir, Simi Valley - GSWC
- Avenue I and 87th Street West 2555 Pressure Zone and 0.2 MG Forebay Reservoir, LACWWD
- 3240 Pressure Zone 3.0 MG Steel Reservoir, LACWWD
- Well 45, Well 4-3, and Well 4-5 City of Tulare
- Well 32A, Simi Valley -VCWWD



Tina Kuah, Project Engineer and Hydraulic Analyst

Professional Registration

- Registered Civil Engineer, California, No. 70876

Education

- Bachelor of Science, Civil Engineering, University of California, Los Angeles, California

Professional Affiliations

- American Society of Civil Engineers
- American Water Works Association

Ms. Kuah brings 11 years of experience in performing transient surge analysis for pressurized water conveyance systems: potable, recycled, raw, and sewer. She is responsible for performing hydraulic (i.e. steady state) and waterhammer analysis for pressurized and gravity flow systems subjected to pressure surges created by pump power failure, normal shutdown and startup of pumps, control valve operation, turbine failure and pipeline breaks. In addition, she designs the pressurized surge tanks, vacuum relief valves, flywheels, standpipes, and surge relief valves as protection for the system subjected to adverse pressure surges. She has worked with numerous agencies and municipalities throughout California including the Los Angeles Department of Water and Power and the County and City of San Francisco Department of Public Works.

Water Well Design WT0025, Tulare, California: The City of Tulare was diligently pursuing improvements to the City's water system including the construction of five new wells throughout the City. The City selected Cannon provided design and engineering for all five wells. Cannon scope of services included engineering design for site improvements; equipping each new well with oil-lubricated vertical turbine pumps and motors with removable enclosures; propeller meters; variable frequency drive controls; underground flush to waste basins; and transfer switches with connection points for newly purchased generators. In addition Cannon provided design for a separate rooms/building to house the electrical equipment. Ms. Kuah served as Project Engineer and provided hydraulic analysis for this project.

Las Virgenes Municipal Water District (LVMWD) Cornell Pump Station, Las Virgenes, California: Cornell Pump Station, built in 1972 and expanded in 1985, is an integral part of LVMWD's backbone system. Due to the age of the pump station, the natural gas powered engine no longer being serviced by the manufacturer, and anticipation of an extended MWDSC shutdown, a technical memorandum was needed to assess conditions and provide upgrade recommendations. Cannon provided a review and recommended upgrades to increase the existing Cornell Pump Station's reliability for future MWDSC shutdowns and emergency operations. Cannon prepared technical memorandum, which included condition of the current equipment, to provide different power alternatives and cost of improvements. Ms. Kuah served as Civil Engineer.

Summary of Select Project Experience

- LVMWD Cornell Pump Station (civil associate engineer)
- Big Sky: 1248PZ Pump Station, Simi Valley-VCWWD
- 1470 PZ Pump Station, Simi Valley-VCWWD
- Madera Pump Station Improvements, Simi Valley, VCWWD
- Pump Station No.8 Improvement, Beverly Hills
- Petersen Potable and Recycled Water Pump Stations, Santa Clarita Valley Water Agency
- Elizabeth Lake Road / 25th Street West-3240 PZ Pump Station, LACWWD
- Borchard Road Pump Station Improvements, California American Water
- Cornell Pump Station, Los Virgenes Municipal Water District
- Crown Hill Pump Station, LACWWD
- 3240 Pressure Zone 3.0 MG Steel Reservoir, LACWWD
- Stetson Ranch Tract No. 49621- 0.4 and 0.7 Mg Reservoirs, Santa Clarita Valley Water Agency
- Castaic Reservoir No.3, Santa Clarita Valley Water Agency
- Well 45, Well 4-3 and Well 4-5 City of Tulare
- Well 32A, Simi Valley -VCWWD



Derek Romer, PE Electrical Engineer

Professional Registration

- Registered Electrical Engineer, California, No. 16396
- Registered Electrical Engineer, Nevada, No. E15940
- Registered Electrical Engineer, Washington, No. 46296

Education

- Bachelor of Science, Electrical Engineering, California Polytechnic State University, San Luis Obispo, California

Training and Development

- PMSJ Project Management Bootcamp
- Fundamentals of Overhead Transmission Line Design
- SKM Power Systems Protection and Coordination
- SKM Power Systems Arc Flash Evaluation
- 2015 NFPA 70E: Electrical Safety in the Workplace
- CPR Certified

Professional Affiliations

- International Society of Automation
- Institute of Electrical and Electronics Engineers
- Southern California Water Utilities Association

Mr. Romer provides technical oversight of the design team; conducts meetings with City staff and subconsultants; provides project status updates, invoicing, and budget control; estimates cost and scheduling; assists with permitting processes (when needed), and provides multi-agency coordination and public outreach assistance. In addition, he is responsible for applying senior-level engineering design practices and techniques, recognizing design discrepancies in results and detailing design processes/economic data to the City.

New Water Well, Pump, Tank System 17-07, Ventura County Waterworks District No. 8, City of Simi Valley, California: Cannon was selected to design a new well as a back-up to the existing Well No. 32. Cannon provided engineering design services to construct, design, and equip a new well, which included drilling, well casing, gravel pack, sanitary seal, pump and motor, well discharge piping, mechanical and electrical equipment, and piping to convey well water to the existing treatment plant. Design services included a 10,000-gallon steel tank near the well to serve as a regulating reservoir; pipelines from the new well to the, new tank and from the tank to connect to the existing discharge. Mr. Romer served as Electrical Engineer.

Summary of Select Project Experience

- Elizabeth Lake Road / 25th Street West-3240 PZ Pump Station, LACWWD
- Petersen Potable and Recycled Water Pump Stations, Santa Clarita Valley Water Agency
- Stetson Ranch Tract No. 49621- 0.4 and 0.7 Mg Pump Stations, Santa Clarita Valley Water Agency
- Stetson Ranch Tract No. 49621- 0.4 and 0.7 Mg Reservoirs, Santa Clarita Valley Water Agency
- Skyline Pump, Santa Clarita Valley Water Agency
- Castaic Pump Station No.3, Santa Clarita Valley Water Agency
- Castaic Reservoir No.3, Santa Clarita Valley Water Agency
- Castaic Pump Station No. 2, Santa Clarita Valley Water Agency
- Big Sky: 1248 PZ Pump Station, Simi Valley-VCWWD
- Big Sky: 1248 PZ 2.5 MG Reservoir, Simi Valley-VCWWD
- Big Sky: 1470PZ Pump Station, Simi Valley-VCWWD
- Big Sky: 1470 PZ 2.2 MG Reservoir, Simi Valley-VCWWD
- Groves Booster Pump Station Inspection (Electrical Senior Principal Engineer) 191114
- Cornell Pump Station, Los Virgenes Municipal Water District
- Well 45, Well 4-3 and Well 4-5 City of Tulare
- Madera Pump Station Improvements, Simi Valley, VCWWD No.8
- Pump Station No.8 Improvement, Beverly Hills
- Borchard Road Pump Station Improvements, California American Water
- Avenue I and 87th Street West 2555 Pressure Zone Pump Station and Well 4-90, LACWWD
- 1.6 MG Parker Ranch Reservoir, Simi Valley-VCWWD
- 5.0 Mount Sinai Reservoir, Simi Valley-VCWWD
- Runkle Canyon Tract 5364 2.0 MG Reservoir, Simi Valley - GSWC
- Avenue I and 87th Street West 2555 Pressure Zone and 0.2 MG Forebay Reservoir, LACWWD
- 3240 Pressure Zone 3.0 MG Steel Reservoir, LACWWD
- Water Well Design WT0025, Tulare, California



Alex Maestre, EIT Electrical Project Engineer

Professional Registration

- Engineer in Training,
California, No. 165329

Education

- Electrical Engineering,
California Polytechnic
State University, San Luis
Obispo, California

Software Skills

- AutoCAD, Revit,
Navisworks, EnergyPro,
SKM Power Tools,
Bluebeam Revu

Awards

- Cal Poly SLO President's
List Awards (3x winner,
2014-2017)

Mr. Maestre has worked on various electrical design projects ranging from large industrial test facilities to small photovoltaic systems. His eagerness to perform at the highest level has carried over from the books and into industry working at Cannon. He specializes in tasks such as electrical load calculations, electrical distribution equipment sizing, electrical system design, AutoCAD drafting, SKM PowerTools analyses, and photovoltaic system design.

Ventura Water Generators Engineering Services, Ventura, California: Ventura Water sought to investigate procurement of additional generators to supply power at critical facilities to improve the reliability of the water supply during future power outages. The City selected Cannon to prepare the design for new stationary generators at seven sites and for connections to portable generators at five sites. Cannon provided civil, electrical, and structural engineering services for the seven sites proposed to receive stationary generators and three sites to use mobile generators. Cannon's electrical engineering efforts included analyses of the generator sizing reports from the generator supplier; designs of manual and automatic transfer systems; siting of the new electrical equipment, conduit and wire plans and grounding plans. Mr. Maestre performed electrical design services.

Wastewater Treatment Plant Arc Flash and Coordination, Mammoth Community Water District, Mammoth, California : Mammoth Community Water District's (MCWD) selected Cannon to conduct an arc flash hazard analysis, provide labels, and perform a coordination study with recommended trip settings for the wastewater treatment plant's switchboards, MCCs, panels, and disconnects. Cannon conducted detailed field investigations with MCWD's assistance to develop accurate single-line diagrams; created models for the data collected in the field; conducted an arc flash hazard analysis, per NFPA 70E-2018, IEEE 1584A-2004, and IEEE 1584-2002 guidelines; and created single line diagrams and scenarios to calculate the worst-case arc flash hazard using SKM Power*Tools power analysis software (SKM) and collected data. We created Arc Flash Hazard labels for each MCC, switchboard, panel, and disconnect based on the worst-case incident energy calculated. Labels indicated incident energy level, arc flash boundary, approach boundaries, and working distance, per NFPA 70E Section 130.5(D). We provided a report summarizing our analyses and findings. Mr. Maestre served as electrical design engineer.

Plant 236 Electrical Upgrade, Whittier, California: SWS Plant 236 receives water from Plant 235 and serves as the head tank for pumping zone 600. Additionally, two booster pumps provide water to pumping zone 800 and to a reservoir located at Plant 238. SWS retained Cannon to provide electrical and structural engineering services for the electrical upgrades to the pump station. Electrical engineering services included specifying new electrical equipment, including variable frequency drives to control the motors and a backup power system capable of connecting to a mobile generator, electrical calculations, and electrical plans. Structural engineering services included foundation plans and a shade structure for the new equipment, and a structural calculation package. The final bid documents included plans, specifications and an opinion of probable construction costs. Cannon providing engineering support services during the bidding and construction phases of the project. Mr. Maestre served as electrical design engineer.



David Noellsch, PE Controls/ SCADA Engineer (optional)

Professional Registration

- Control Systems Engineer, California, No. CS 7576

Education

- Bachelor of Science, Mechanical Engineering, University of Missouri-Columbia, Columbia, Missouri

Training and Development

- PMSJ Project Management Bootcamp
- CPR Certified
- Overhead Power Line Safety Training
- Oilfield Hazard Awareness Training (H2S Awareness, Basic Arc Flash Safety, Confined Spaces, etc)

Professional Affiliations

- American Society of Mechanical Engineers

Specialized Software Skills

- PLC Software: Allen-Bradley RSLogix500, RSLogix 5000, Studio 5000, Siemens S7
- HMI Software: Rockwell FactoryTalk View SE/ME, Siemens WinCC

As a Project Engineer, Mr. Noellsch is responsible for working as part of the design team to create drawing packages, including P&IDs, PFDs, loop drawings, and panel layouts. He assists Senior Engineers with creating specification packages, selects system components optimally suited for client projects and designs, creates instrumentation data sheets (cut sheets), and obtains quotes from vendors for material cost estimates.

In addition to providing status updates to the Project manager, Mr. Noellsch will coordinate system design and instrumentation selection with the Electrical Engineer, attend design review meetings with clients, and create control narratives to define how systems and processes should operate. Other tasks include creating cause-and-effect charts to define system alarms and shutdowns; programming PLC logic (taking into account functions required, safety, process optimization, and industry best practices); programming (or assisting) HMI design to client standards while considering industry best practices; and (where mechanical design is involved) conducting pipe stress and hydraulic analyses.

Summary of Select Project Experience

- SCADA Evaluation - Las Virgenes Municipal Water District, Calabasas, California
- Suburban Water Systems—Preliminary SCADA Assessment Study and SCADA Master Plan, Covina, California
- Design for Wastewater Collections SCADA Upgrades, Paso Robles, California
- On-Call I&E Services - North of River Sanitation District, Bakersfield, California
- I&E Services, Delano, California
- I&E Services – Operations and Maintenance - Sentinel Peak Resources LLC, Arroyo Grande, California
- I&E Services - Warren Resources, Long Beach, California
- Electrical Facility Studies, Kern County, California
- Design for Wastewater Collections SCADA Upgrades, Paso Robles, California
- Assessment of SCADA Systems - Golden State Water Company, Los Angeles, California
- Design for Pinewood Booster Station Electrical System - Golden State Water Company, Santa Maria, California
- Design for Surface Water Treatment Plant, Kettleman City, California
- Design for Mound Well No. 2, Ventura, California
- Well No. 22 SCADA Integration, Solvang, California
- Design for Wastewater Facilities, Collection System Integration, and SCADA Upgrades, McFarland, California
- Design for Zodiac Aerospace PLC/HMI Programming, Santa Maria, California
- SCADA System Master Plan, Golden State Water Company, Los Angeles, California
- Preliminary Design for SCADA System, Norwalk, California
- Design for American Water SCADA Upgrades, Vandenberg, California
- Design for Water Resource Recovery Facility, San Luis Obispo, California
- Design for Recycled Water Pump Station Upgrades, Simi Valley, California



Tyler Fallon, EIT Project Engineer

Professional Registration

- Registered Civil Engineer-in-Training, California, No. 165643

Education

- Bachelor of Science, Civil Engineering, San Francisco State University, San Francisco, California

Professional Affiliations

- American Society of Civil Engineers

Since 2017, Mr. Fallon has provided engineering services for a variety of water and wastewater projects. He has experience in preparing design plans for pump station and lift station upgrades and replacement, water and sanitary sewer replacements, and rehabilitation and sanitary sewer study projects. Mr. Fallon has knowledge in computer-aided design (CAD) software, along with other design software such as ArcGIS Maps, WaterGEMS and Flowmaster. As a Project Civil Engineer, Mr Fallon's responsibilities include designing, detailing, and preparing plans and construction documents; construction observation, and utility coordination for waterline, recycled waterline, and sewer main improvements, upgrades, and rehabilitation projects.

FY 18/19 Waterline Replacements, Beverly Hills, California: The City had plans to replace existing aging water distribution mains ranging from 6-in to 16-inches cast iron (CI) and steel pipe located on Loma Vista Drive and San Ysidro Drive. The City selected Cannon to provide complete design, engineering and construction support services for multiple pipeline lengths. Cannon provided engineering design, bidding and construction support services for the City's water main replacement project. Cannon scope of work involved design and prepared calculations, plan and profile drawings for 32,185 feet of water main, and valve closure plans. This included tie-in connections and necessary related appurtenances; water meters and laterals, air/vacuum release valve assemblies, blow-off/manual drain assemblies, and fire hydrant assemblies. Mr. Fallon served as Project Engineer for this project.

Summit Drive Slope and Water Main Repair, Beverly Hills, California: The City of Beverly Hills (City) experienced a leak in an existing 8-inch steel water main within Zone 8 that was installed in 1924. The water main leak is believed to have caused a slope failure. The slope failure exceeded the width of the easement and affects three properties. Cannon prepared the water quality and hydraulic analysis to replace the existing 8-inch with a 12-inch replacement water main. Cannon is currently preparing the engineering and design of the 12-inch water main to be constructed using trenchless methods. Cannon also is working closely with the project geotechnical engineer to prepare plans for the slope repair. Mr. Fallon served as Design Engineer for this project.

San Juan Water Main Replacement and Street Reconstruction Project, Fullerton, California: The City of Fullerton required street improvements in the San Juan neighborhood tract to address failed asphalt concrete pavement; broken median curb, curb, and gutter due to tree root heaving; and damaged cross gutters/span-drains. The City selected Cannon to provide engineering services for the proposed reconstruction, including pavement repair and curb ramp upgrades. Engineering design tasks included field review, base sheet preparation, utility potholing to verify shallow utilities that may be impacted by the new street structural section, replacement / upsizing of existing 4" C.I. and 6" C.I. water mains to 8" PVC, signing and striping improvements, and survey monumentation. Mr. Fallon served as Design Engineer for this project.





Reliable Responsive Solutions

Cannon

1190 West Olympic
Boulevard Suite 530
Los Angeles, CA 90064
310.664.1166

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 2
May 25, 2021

To: Honorable President and Members of the Board of Directors
From: James Lee – Director of Finance and Administration
Subject: **FY 2021-22 Water & Wastewater Fund Budgets**

ACTION ITEM:

Discussion and possible action for consideration of the District's FY 2021-22 Water & Wastewater Fund Budgets and related items.

DISCUSSION:

During the May 11, 2021 Board meeting and the May 12, 2021 Finance Committee meeting, the Board discussed the FY 2021-22 Water and Wastewater Fund budgets and directed staff to present budgets for adoption as presented with the following updates: a contribution in the current fiscal year to the District's OPEB fund; and finalized wastewater revenue projections.

A new, three-year rate schedule is projected for an October 1 implementation based on timing for the cost-of-service study and Prop 218 process. This is 8 percent each year for the Water Fund, and the rates for the Wastewater Fund will need to be determined in the next several months. In the interim, the District needs to adopt "placeholder" budgets to bridge the July 1 to October 1 timeframe. These placeholder budgets incorporate 0 percent rate increases, and the Water Fund is projected to draw \$828K from reserves and the Wastewater Fund is projected to draw \$895K from reserves. The budgets are enclosed as Attachment 1.

Staff was also directed to provide additional information with respect to a possible pass-through of treatment costs charge by City of LA for the Wastewater Fund and a history of treatment costs charged by LA, and this information is enclosed as Attachment 2.

RECOMMENDATION

Approve the District's FY 2021-22 Water & Wastewater Fund budgets and related items.

Prepared by:



Arturo Montes
Finance & Administration Manager

Submitted by:



James Lee
Director of Finance & Administration

Attachment(s): 1) Water & Wastewater Budgets; 2) Supplemental Wastewater Fund Information

Crescenta Valley Water FY21-22 Budget 0% Rate Increase
Summary of Revenues Expenses - Water Fund

Summary of Revenues & Expenses - Water Fund	<i>Budgeted</i>		<i>Proposed</i>
	FY 2021	FY 2021	FY 2022
Revenue			0.00%
Water Sales - Service, Fixed	3,087,489	3,071,735	3,118,364
Water Sales - Metered, Variable	8,858,374	9,805,796	9,736,295
Interest Income - Water Reserve	238,000	130,000	200,000
Interest Income - MTBE Reserve	-	-	-
Other Income - Water	160,000	113,029	145,000
Construction Revenues	277,500	204,111	250,000
Total Revenue:	12,621,363	13,324,671	13,449,658
Bond Revenue:	5,000,000	5,000,000	-
O&M Expense			
Labor & Benefits	3,142,453	3,202,477	3,293,484
Imported Water Cost (Foothill Municipal WD)	3,108,762	3,700,000	3,491,618
Imported Water Cost (Glendale Water and Power)	138,960	60,000	80,868
Power Cost	801,800	800,000	825,854
Operating Cost	2,321,917	2,214,843	2,351,673
Total O&M Expense:	9,513,892	9,977,320	10,043,497
Debt Service	581,000	581,000	581,000
Cash Available for Capital	2,526,471	2,766,351	2,825,162
Capital, OPEB & Other Commitments			
Pay-GO CIP	2,304,826	1,226,429	3,413,424
Bond Funded CIP	2,695,174	3,204,674	1,795,326
Capital Outlays & Equipment	225,000	187,500	240,000
OPEB Commitment	-	100,000	-
Total Capital, OPEB & Other Commitments:	5,225,000	4,718,603	5,448,750
Increase (Decrease) to Cash	(3,355)	1,252,422	(828,262)
Reserve Fund Balances			
Beginning Balance	4,934,453	4,934,453	6,186,875
MTBE			
Restricted Cash (Bonds)	2,304,826	1,795,326	0
Ending Balance	4,931,098	6,186,875	5,358,613
Target	3,948,000	3,948,000	5,052,000
Above (Below) Target	983,098	2,238,875	306,613

Crescenta Valley Water FY21-22 Budget 0% Rate Increase
Summary of Revenues Expenses - Wastewater Fund

Summary of Revenues & Expenses - Wastewater Fund	Budgeted		Proposed
	FY 2021	FY 2021	FY 2022
Revenue			0.00%
Wastewater Sales - User Charges	3,327,575	3,490,000	3,453,066
Permits/ Connection Fees	36,500	50,012	48,860
Interest Income	500	2,300	1,000
Total Revenue:	3,364,575	3,542,312	3,502,926
O&M Expense			
Labor & Benefits	1,651,250	1,467,936	1,652,547
City of LA Sewer Charges	1,849,900	1,930,800	1,809,800
Operating Cost	550,000	495,005	696,358
Total O&M Expense:	4,051,150	3,893,741	4,158,704
Debt Service			
Cash Available for Capital	(686,575)	(351,429)	(655,779)
Capital, OPEB & Other Commitments			
Infrastructure	175,000	381,500	175,000
Capital Outlays & Equipment	64,500	64,500	64,500
OPEB Commitment	-		-
Total Capital, OPEB & Other Commitments:	239,500	446,000	239,500
Increase (Decrease) to Cash	(926,075)	(797,429)	(895,279)
Reserve Fund Balances			
Beginning Balance	4,606,600	4,606,600	3,809,171
Ending Balance	3,680,525	3,809,171	2,913,892
Target	2,630,000	2,630,000	2,450,266
Above (Below) Target	1,050,525	1,179,171	463,626

Attachment #2

Supplemental Wastewater Fund Information

1. Cap for Pass-Through of Treatment Costs from City of LA – Per conversation with Mr. Bunn, District Counsel, there is no cap on the amount or percentage increase that can be passed through. Any schedule of pass-throughs cannot exceed five years and cannot exceed the cost of providing service.
2. Historical Cost of Wastewater Treatment Charged by City of LA – The table below shows the historical costs charged by City of LA and the cumulative impact over time.

	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021 ¹	FY 2022 ¹	FY 2023 ¹
LA Treatment Cost	\$950,537	\$1,097,781	\$1,194,532	\$1,520,287	\$1,930,800	\$1,809,800	\$1,873,500
Cumulative Increase	-	15%	26%	60%	103%	90%	97%

1 - Historically, LA City has often charged a "reconciliation" amount for each year, and LA has not indicated if there will reconciliations for these periods.

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 3
May 25, 2021

To: Honorable President and Members of the Board of Directors
From: James Lee – Director of Finance and Administration
Subject: **Budget & Proposition 218 Process**

ACTION ITEM:

Placeholder for discussion and possible action for schedule, timing, and other considerations related to completing the budget and Proposition 218 process, including the Water and Wastewater Rate Study.

DISCUSSION:

This action item serves as a placeholder for any discussion related to the schedule and timing for completing the budget, Prop 218 process, and related considerations. A schedule of meetings and tasks is updated on an ongoing basis and included with each placeholder.

RECOMMENDATION

NA.

Submitted by:



James Lee
Director of Finance & Administration

Attachment(s): 1) CVWD Meeting Schedule (ongoing updates)

g:\management\board meeting staff reports\2021\05-25-21 Board Memo - Budget & Prop 218 Placeholder.docx

FY 2021/22 - CVWD Meeting Schedule <i>(ongoing updates)</i>		
Date	Agenda	Status
Week of 3/15	Finance Committee Meeting (CIP & Budget Discussion) * Engineering Committee Meeting *	✓
Week of 3/15	Community Advisory Committee Meeting *	✓
3/23	Board Meeting - Budget Discussion	✓
Week of 3/29	Finance Committee Meeting (Cost of Service & Rate Design / Budget) * Engineering Committee Meeting *	✓
Week of 3/29	Community Advisory Committee Meeting *	✓
4/13	Board Meeting - Budget Discussion	✓
Week of 4/19	Finance Committee Meeting * Engineering Committee Meeting *	✓
Week of 4/19	Community Advisory Committee Meeting *	✓
4/27	Board Meeting - Budget Discussion	✓
5/11	Board Meeting	✓
Week of 5/10	Finance Committee Meeting (Sewer Pass through / Budget) * Engineering Committee Meeting *	✓
5/25	Board Meeting - (Budget / Sewer Pass-Through)	
Week of 5/31	Finance Committee Meeting (Cost of Service & Rate Design / Budget/ 218) * Engineering Committee Meeting *	
Week of 5/31	Community Advisory Committee Meeting *	
6/8	Board Meeting (Cost of Service & Rate Design / Budget) Review/Approve 218	
6/22	Board Meeting - Review/Approve 218/ Approve FY 2022 Budget	
7/13	Board Meeting - Review/Approve 218 Approve FY 2022 Budget	
Week of 7/12	Send 218 Notice to Printer	
Week of 7/19	Send out Prop 218	
7/26	Board Meeting	
8/10	Board Meeting	
8/24	Board Meeting	
Week of 9/6	Prop 218 Letters - 45 days	
9/14	Public Hearing - Last Day for 218 protest letters - Water Rates Board Meeting	
9/28	Board Meeting - Adopt Rates & Budget	
10/1	Implement Adopted Rates	

* Subsequent meetings will be scheduled as needed.

CRESCENTA VALLEY WATER DISTRICT

General Manager Report

To: Honorable President and Members of the Board of Directors
From: Nem Ochoa, General Manager
Subject: **General Manager Report**

GM Report
May 25, 2021

General Managers Report Topics:

- GM Activities

The following are some highlights in this month's report:

- Finance, Administration & Public Outreach Dashboard
- CVWD Time Capsule for 100th Year Anniversary
- Pancake Breakfast June 16th
- CVWD Employee Spotlight of the Month: Christina Olmedo

STAFFING

As of May 20th the District has gone 548 days without a lost time accident.

GENERAL MANAGER ACTIVITIES

Meetings:

FMWD Managers Meeting	- May 12 th
Policy Committee Meeting	- May 12 th
Finance Committee Meeting	- May 12 th
Water System Optimization Model Update	- May 13 th
Managers Meeting	- May 17 th , April 24 th
Engineering Committee Meeting	- May 18 th
All-Hands Meeting	- May 19 th

Submitted by:



Nem Ochoa
General Manager



Crescenta Valley Water District – Finance, Administration & Public Outreach Report for < April 2021 >

Customer Service & Administration Activity

**Service
Requests**
264

**Meter
Downloads**
76

**New
Sign-Ons**
55

**Closed
Accounts**
34

**Meter
Re-Reads**
239

Public Outreach Corner

- **Community Advisory Committee** –
 - The CAC has been meeting on its own and have met 3 times
- **Website Traffic** –
 - 3,523 visits
 - Pay My Bill: 307
 - LHMP: 59
- **Social Media** –
 - 4 Facebook posts (21 new follower)
 - “CWD Softball Team” had most impressions
- **CV Weekly** –
 - Article on April 29th



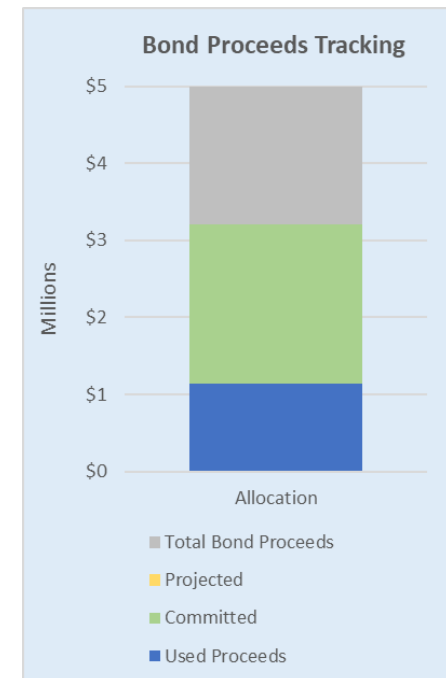
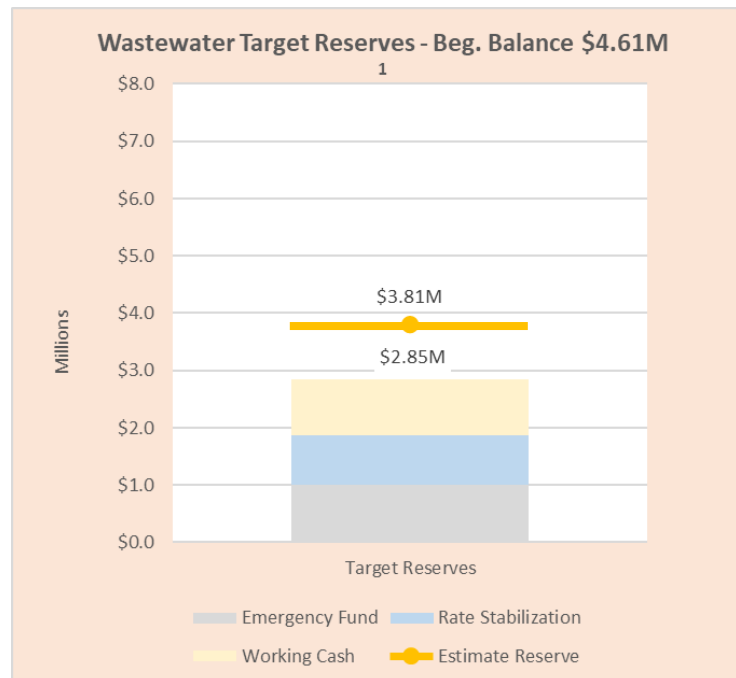
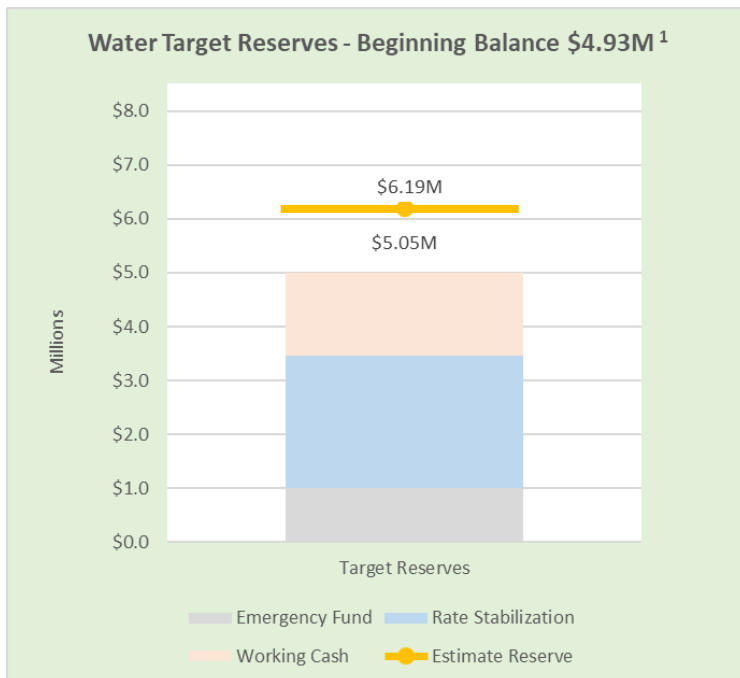
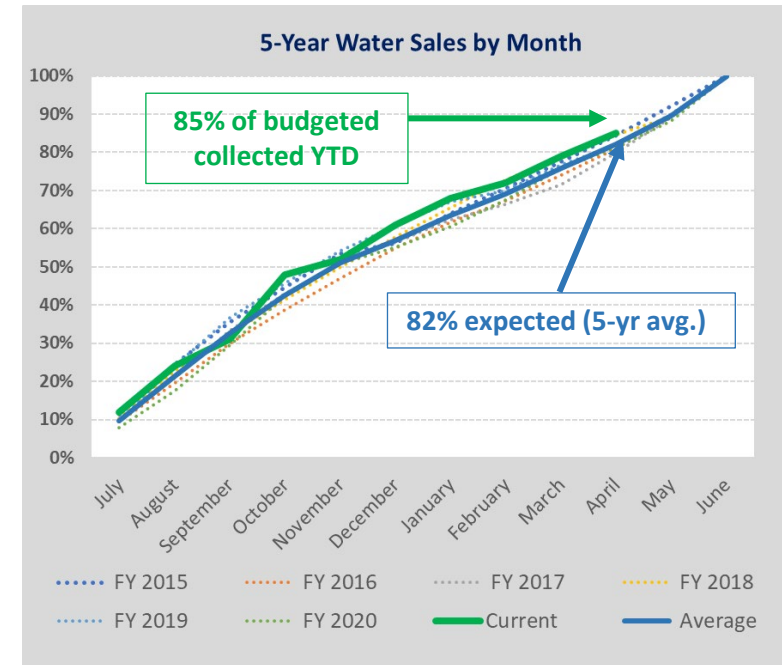
Crescenta Valley Water District – Finance, Administration & Public Outreach Report for < April 2021 >

Water Fund - revenues & operating expenses

Proj. Revenue	\$13,324,670		Proj. Expense	\$9,977,320	
Budget	\$12,621,363	106%	Budget	\$9,513,892	105%

Wastewater Fund - revenues & operating expenses

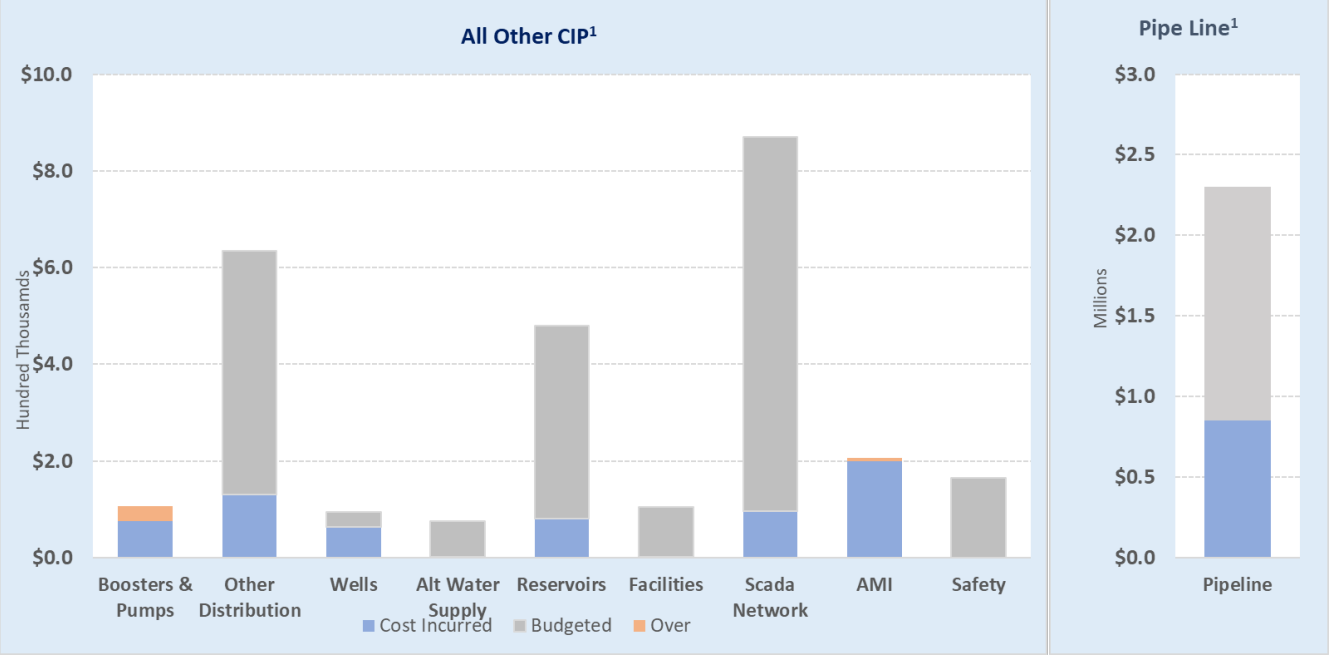
Proj. Revenue	\$3,542,312		Proj. Expense	\$3,893,741	
Budget	\$3,364,575	105%	Budget	\$4,049,989	96%



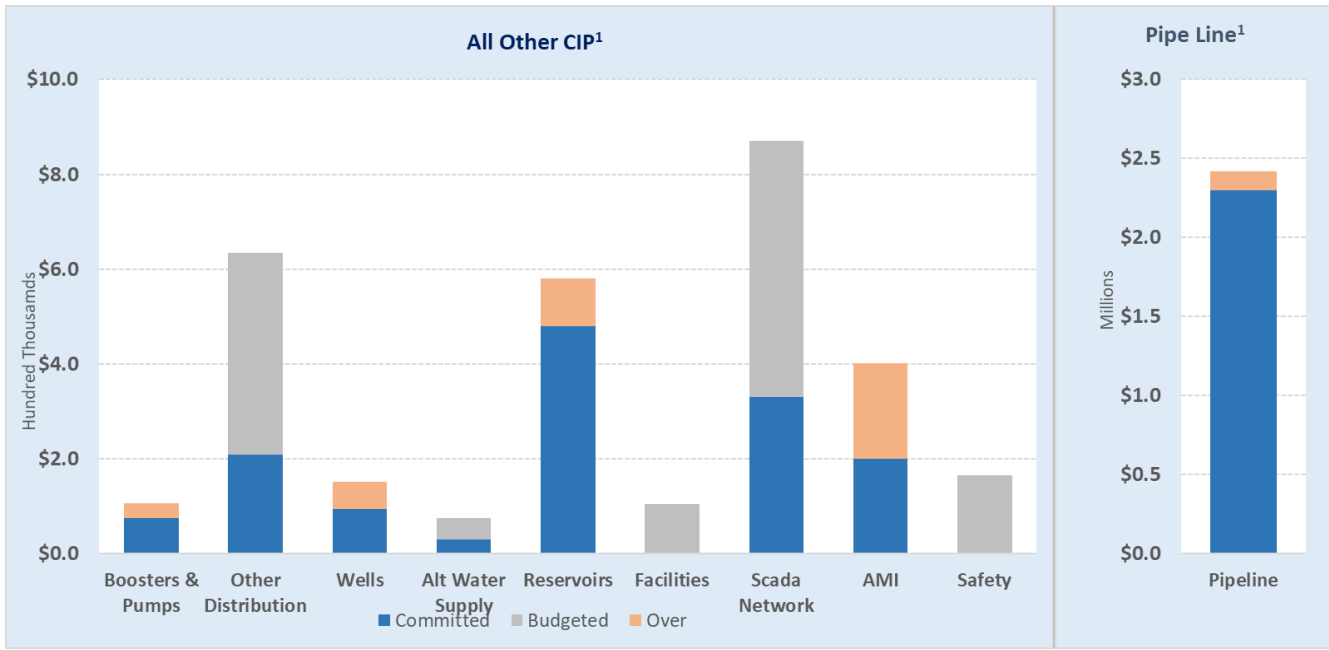
1. CVWD Reserve Policy adopted on 7/28/20



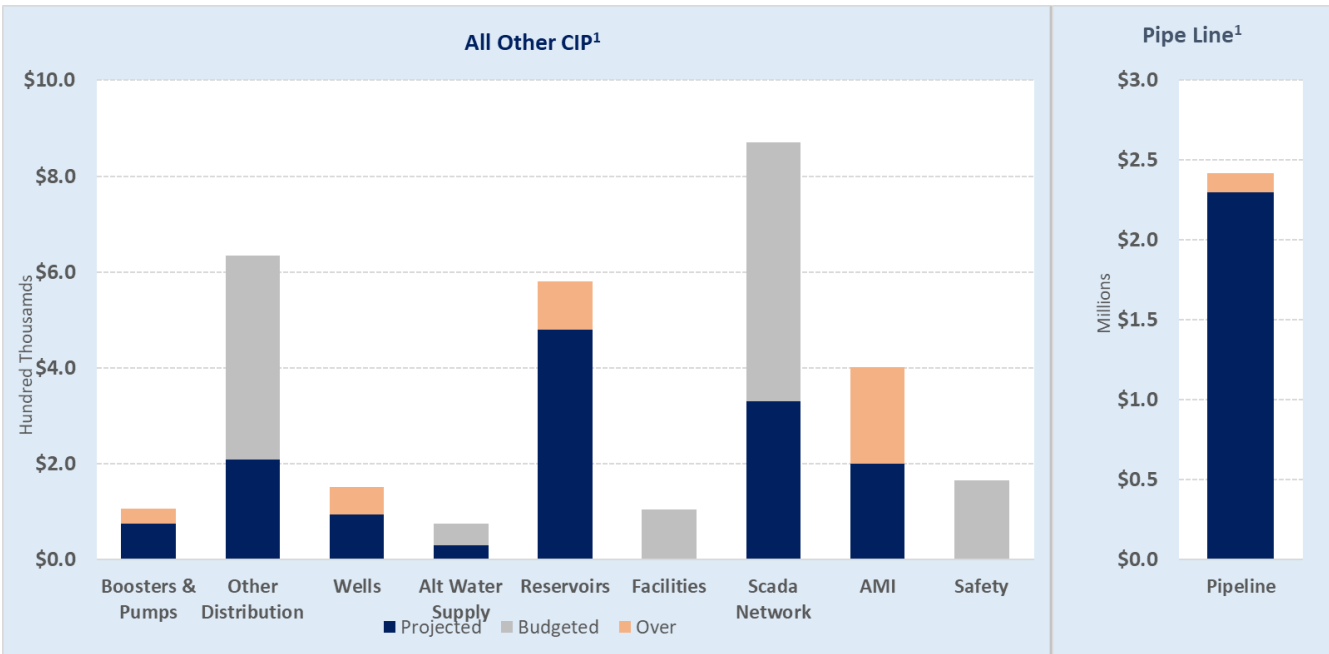
CIP Costs Incurred to Date



CIP Costs Committed to Date



CIP Projected vs. Budgeted



1. Pipelines CIP reported separately to preserve scale of the graph

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

To be held on
May 12, 2021 at 2:00 PM

Agenda for the Meeting of the Finance Committee
of the Crescenta Valley Water District

Posted May 11, 2021 at 2:00 PM

TELECONFERENCING NOTICE

[This meeting will be held by teleconference only.]

Pursuant to the provisions of Executive Order N-29-20 issued by Governor Gavin Newsom on March 18, 2020, the public may not attend the meeting in person.

Any member of the public may participate using a touchtone phone. You may select any of the following phone numbers (there are more than one for increased reliability during this time of increased phone traffic)

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(346) 248-7799

(929) 205-6099

(253) 215-8782

(301) 715-8592

(312) 626-6799

Then, enter Access Code: 892 8631 3152

[Pursuant to the above Executive Order, the public may not attend the meeting in person]

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Call to Order

Adoption of Agenda

Public Comment:

At this time, members of the public shall have an opportunity to address the Committee on items of interest that are within the subject matter jurisdiction of this Committee. This opportunity is non-transferable, and speakers are limited to three (3) minutes each. Under the provisions of the Brown Act, the Board is prohibited from taking action on items not listed on the agenda, except under certain circumstances.

Action Items(s)

The public shall have an opportunity to comment on any action item as each item is considered by the Committee. This opportunity is non-transferrable and speakers are limited to one two-minute (2) comment each.

1. Discuss the City of Los Angeles Wastewater Treatment Pass Through Rate Component
2. Discuss the Water and Wastewater Fund Budgets

Committee Members' Request for Future Agenda Items

Adjournment

Crescenta Valley Water District

Finance Committee

Water & Wastewater Fund Budgets / Wastewater Treatment Cost Pass-Through

May 12, 2021

For the Water Fund, the Board has moved to implement a three-year rate schedule at 8 percent for each year, with a CIP based on a “ramp-up” plan for pipeline replacement. A new, multi-year rate schedule is projected for an October 1 implementation based on timing for the cost-of-service study and Prop 218 process. In the interim, the District needs to adopt Water and Wastewater Fund budget to bridge the July 1 to October 1 timeframe.

Both the Operating Budget and CIP Budget have been discussed, and Q3 financials have been recorded. The Water Fund budget as enclosed factors all decisions from the past several months of discussion except a rate increase. This “placeholder” budget projects a draw of \$682K from the Water Reserve Fund for FY 2022. An October 1 adoption of an 8 percent rate increase will add to reserves and support a future of infrastructure funded primarily through PayGo. The Water Fund is substantially complete as presented.

For the Wastewater Fund, the most significant issue is the 65 percent increase over two years in treatment costs charged by LA City. This represents almost half of the Wastewater Fund’s operating costs. Reserves are drawn down, and there remains no opportunity to plan for future CIP needs. The “placeholder” budget projects a draw of \$937K from the Wastewater Reserve Fund for FY 2022. Staff is determining various alternatives to sending wastewater effluent to LA, beginning with a study budgeted for the upcoming year. For the interim, the Board has directed staff to explore the possibility of a “pass-through” for treatment costs, and Raftelis will be available to walk the Committee through various policy considerations. The Wastewater Fund budget can be finalized once the District has decided to whether to move forward with this component of the rates, and this decision will need to be communicated to Raftelis by the May 25 Board meeting if the District is reasonably to implement a new rate schedule by October 1.

There are three Board meetings before June 30, and the Board will need to adopt the placeholder budgets during one of those meetings.

Crescenta Valley Water FY21-22 Budget 0% Rate Increase
Summary of Revenues Expenses - Water Fund

Summary of Revenues & Expenses - Water Fund	Budgeted		Proposed
	FY 2021	FY 2021	FY 2022
Revenue			0.00%
Water Sales - Service, Fixed	3,087,489	3,097,687	3,118,364
Water Sales - Metered, Variable	8,858,374	9,923,294	9,736,295
Interest Income - Water Reserve	238,000	130,000	200,000
Interest Income - MTBE Reserve	-	-	-
Other Income - Water	160,000	109,087	145,000
Construction Revenues	277,500	208,308	250,000
Total Revenue:	12,621,363	13,468,376	13,449,658
Bond Revenue:	5,000,000	5,000,000	-
O&M Expense			
Labor & Benefits	3,142,453	3,184,396	3,293,484
Imported Water Cost (Foothill Municipal WD)	3,108,762	3,750,000	3,491,618
Imported Water Cost (Glendale Water and Power)	138,960	81,912	80,868
Power Cost	801,800	800,000	825,854
Operating Cost	2,321,917	2,240,792	2,351,673
Total O&M Expense:	9,513,892	10,057,100	10,043,497
Debt Service	581,000	581,000	581,000
Cash Available for Capital	2,526,471	2,830,276	2,825,162
Capital, OPEB & Other Commitments			
Pay-GO CIP	2,304,826	1,372,768	3,267,085
Bond Funded CIP	2,695,174	3,058,335	1,941,665
Capital Outlays & Equipment	225,000	187,500	240,000
OPEB Commitment	-	-	-
Total Capital, OPEB & Other Commitments:	5,225,000	4,618,603	5,448,750
Increase (Decrease) to Cash	(3,355)	1,270,008	(681,923)
Reserve Fund Balances			
Beginning Balance	4,934,453	4,934,453	6,204,461
MTBE			
Restricted Cash (Bonds)	2,304,826	1,941,665	0
Ending Balance	4,931,098	6,204,461	5,522,538
Target	3,948,000	3,948,000	5,052,000
Above (Below) Target	983,098	2,256,461	470,538

Crescenta Valley Water FY21-22 Budget 0% Rate Increase
Summary of Revenues Expenses - Wastewater Fund

Summary of Revenues & Expenses - Wastewater Fund	Budgeted		Proposed
	FY 2021	FY 2021	FY 2022
Revenue			0.00%
Wastewater Sales - User Charges	3,327,575	3,433,913	3,411,370
Permits/ Connection Fees	36,500	52,512	48,860
Interest Income	500	2,300	1,000
Total Revenue:	3,364,575	3,488,725	3,461,230
O&M Expense			
Labor & Benefits	1,651,250	1,471,486	1,652,547
City of LA Sewer Charges	1,849,900	1,849,900	1,809,800
Operating Cost	550,000	470,905	696,358
Total O&M Expense:	4,051,150	3,792,291	4,158,704
Debt Service			
Cash Available for Capital	(686,575)	(303,566)	(697,474)
Capital, OPEB & Other Commitments			
Infrastructure	175,000	381,500	175,000
Capital Outlays & Equipment	64,500	64,500	64,500
OPEB Commitment	-		-
Total Capital, OPEB & Other Commitments:	239,500	446,000	239,500
Increase (Decrease) to Cash	(926,075)	(749,566)	(936,974)
Reserve Fund Balances			
Beginning Balance	4,606,600	4,606,600	3,857,034
Ending Balance	3,680,525	3,857,034	2,920,060
Target	2,630,000	2,630,000	2,439,843
Above (Below) Target	1,050,525	1,227,034	480,217

CRESCENTA VALLEY WATER DISTRICT

MEMORANDUM

DATE: May 18, 2021
TO: Engineering Committee
FROM: David S. Gould, District Engineer
SUBJECT: CVWD Engineering Committee Meeting No. 325

Following is a summary of Engineering Committee Meeting No. 325, held at 2:30 PM on May 18, 2021, at CVWD's main office, and was attended by the following:

Director Sharon Raghavachary – Committee Chairperson	CVWD
Director Judy Tejada	CVWD
Nem Ochoa – General Manager	CVWD
David Gould – Director of Engineering	CVWD
Brook Yared – Engineer Manager	CVWD
James Lee – Director of Finance and Administration	CVWD
Pam Leddy – Administrative Assistant	CVWD
Jennifer Bautista – Project Coordinator	CVWD
Marilyn Tyler	Resident

Information Items

1. Discussion of Award of Contract for the Design of a New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station, Project E-977

Mr. Yared discussed the background of the project. Mr. Yared explained CVWD has been operating a breakpoint chlorination station at the corner of Mayfield Ave. and Ramsdell Avenue, where CVWD mixes local groundwater with imported water from Foothill Municipal Water District (FMWD). Over the years, this station has experienced high levels of corrosion inside the vault and has not been able to be appropriately maintained. The primary reason is that currently, it is not possible to isolate the mixing station without shutting off the water supplied to CVWD's Zone 1. CVWD's Zone 1 needs a secondary water source available from a higher-pressure zone (Zone 2). To facilitate the transfer of water from Zone 2 to Zone 1, CVWD's Engineering Department designed a second Pressure Reducing Station and a new isolation valve at the intersection of Mayfield Ave. and Ramsdell Ave. The new Pressure Reducing Station would allow for the temporary removal of the Ramsdell Mixing Station from service for necessary repairs.

Mr. Yared explained that for CVWD to meet the accelerated pipeline replacement schedule along with a full CIP budget, the District will need the assistance of a consulting engineering firm to review and prepare final design plans and specifications for the installation of a new PRV and upgrade and possible expansion of the Ramsdell Mixing Station equipment and existing vault.

Mr. Yared discussed that In April 2021, staff sent out a request for proposal (RFP) to five (5) consulting engineering firms to prepare design plans and specifications for the proposed project. On April 17, 2021, staff held a pre-proposal web conference with the consulting firms and provided information about CVWD, the work of scope, and the proposed project schedule.

CVWD received and accepted two (2) proposals on May 10, 2021. Staff reviewed each proposal and ranked them as shown on the attached consultant ranking table, which shows Cannon Corporation (Cannon) as the highest-ranked consultant.

Mr. Yared explained that Cannon's proposal meets the District's project schedule, and their proposed costs are within CVWD's budget for this project. Mr. Yared also mentioned that Cannon's team members have completed several similar projects within Los Angeles County including consulting services for the Rockhaven Well, advanced treatment facilities at Well 2, and design of the new emergency generator at CVWD's La Granada Lift Station.

Mr. Yared recommended that the Engineering Committee approve awarding a contract to Cannon for \$89,868 as they provide a cost-effective proposal to meet the District's needs. The Engineering Committee agreed with staff's recommendation and to put this item on the next Board meeting agenda.

2. Discussion of the FY 21/22 Capital Improvement Project Budget

Mr. Gould discussed that budgeting and financing of the FY 21/22 Capital Improvement Project had been discussed in-depth at previous Finance Committee, Engineering Committee, and Board of Director meetings. The Board has tentatively agreed to the FY 21/22 CIP budget, and the current schedule presented will be to finalize the budget and proposed water rate increase in October 2021.

Mr. Gould presented several CIP projects that need the assistance of outside consultants to begin design services such that construction could start earlier this year (October or November 2021) instead of starting after January 2022, which are listed below:

1. Design consultant for the new pipelines on the 2800 to 3100 Blocks of Los Olivos; 3200 Block of Alabama 4700 & 4800 Blocks of Cheryl & 3300 Block of Thelma St.
2. Design consultant for the steel reservoir rehabilitation at Edmund #2.
3. Design consultant for the replacement of SCADA communication radio network
4. Design consultant for the replacement of SCADA Equipment, Programing & Integration
5. Consultant to assist operations staff with conversion, monitoring and standard operating procedures for the conversion to chloramines.
6. Consultant to prepare the Wastewater Master Plan, including Wastewater Treatment Plant Feasibility Study.

Mr. Gould stated that Staff would be preparing requests for proposals (RFP) for each of these projects within the next few weeks and sending the RFP's out to consultants. Staff is planning to bring to these projects to future Board meetings for consultant award of contracts. Mr. Gould pointed out to the Engineering Committee that the RFP will also include a statement that the District can terminate the design contract if the final CIP budget is revised, or the specific project is canceled.

Staff is estimating about \$100,000 to \$150,000 of consulting fees will between July 2021 to October 2021. Director Tejeda requested cost estimate for each project to present to the Board of Directors. Mr. Gould create a table of cost estimates for each of the projects.

The Staff recommendation to the Engineering Committee was to move forward with preparing and awarding design consultant contracts prior to the final adoption of the FY 21/22 CIP Budget. The Engineering Committee agreed with staff's recommendation.

Discussion on Project Cost Update – FY 20/21 Capital Improvement Project Program

Mr. Gould provided the Engineering Committee an update for each of the FY 20/21 CIP projects which was summarized in the attached staff report. As shown in the attached cost summary, staff has estimated the total CIP budget at the end of year to be \$4.4M and \$3.2M will be funded from the Bond financing and \$1.2M from the Water Fund.

Committee Member's Request for Future Agenda Items - None

Next Meeting

- Next meeting scheduled for June 15, 2021 at 2:30 pm

Adjournment - The Engineering Committee meeting was adjourned at 3:21 pm on May 18, 2021.

FY 21/22 - Capital Improvement Project Program - Preliminary Project Cost Schedule

Capital Improvement Project Program	Budget FY 21/22	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June
Steel Reservoir Rehabilitation - Edmund #2	\$ 590,000	\$ 11,500	\$ 11,500	Award		\$ 113,400	\$ 113,400	\$ 113,400	\$ 113,400	\$ 113,400			
Annual Pipeline Replacement - 5,450 LF	\$ 2,600,000	\$ 15,000	\$ 25,000	\$ 35,000	Award	\$ 420,833	\$ 420,833	\$ 420,833	\$ 420,833	\$ 420,833	\$ 420,833		
Well 14 Rehabilitation	\$ 105,000					Award	\$ 52,500	\$ 52,500					
PRS - Zone 2 to Zone 1/Upgrade - Ramsdell Mixing Station	\$ 728,000	\$ 15,000	\$ 15,000		Award				\$ 139,600	\$ 139,600	\$ 139,600	\$ 139,600	\$ 139,600
Replacement - SCADA System	\$ 374,000		Award		\$ 74,800	\$ 74,800	\$ 74,800	\$ 74,800	\$ 74,800				
Replacement - SCADA Communication Radio Network	\$ 125,000		\$ 25,000	\$ 25,000	\$ 25,000	\$ 35,000	\$ 15,000						
AMI - 3/4" to 1" - Smart Meters & AMI Customer Portal	\$ 520,000	\$ 7,500	\$ 7,500	Award	\$ 10,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 45,000				
Annual Booster Pump Replacement	\$ 53,000				\$ 2,000	Award		\$ 51,000					
Stormwater Recharge CVC Park - Planning	\$ 30,000	\$ 2,400	\$ 2,400	\$ 3,000	\$ 3,500	\$ 4,000	\$ 4,700	\$ 5,000	\$ 5,000				
Disinfection - Conversion to Chloramines	\$ 75,000		Award	\$ 10,000	\$ 15,000	\$ 25,000	\$ 25,000						
Total	\$ 5,200,000	\$ 51,400	\$ 86,400	\$ 73,000	\$ 130,300	\$ 823,033	\$ 856,233	\$ 867,533	\$ 798,633	\$ 673,833	\$ 560,433	\$ 139,600	\$ 139,600
Culminative		\$ 51,400	\$ 137,800	\$ 210,800	\$ 341,100	\$ 1,164,133	\$ 2,020,367	\$ 2,887,900	\$ 3,686,533	\$ 4,360,367	\$ 4,920,800	\$ 5,060,400	\$ 5,200,000

Action Items

The public shall have an opportunity to comment on any action item as each item is considered by the Committee. This opportunity is non-transferrable, and speakers are limited to one two-minute (2) comment each.

1. Award of Contract for the Design of a New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station, Project E-977
2. Discussion of the FY 21/22 Capital Improvement Project Budget
3. Project Cost Update - FY 20/21 Capital Improvement Project Program

Committee Member's Request for Future Agenda Items

Next Engineering Committee Meeting – June 15, 2021 at 2:30 pm

Adjournment

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

To be held on
May 18, 2021 at 2:30 PM

Agenda for the Meeting of the Engineering Committee
of the Crescenta Valley Water District

Posted May 17, 2021 at 10:00 AM

TELECONFERENCING NOTICE

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Call to Order

Adoption of Agenda

Public Comment:

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CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 1
May 18, 2021

To: Engineering Committee
From: Brook Yared, M.S., P.E. – Engineering Manager
Subject: **Request for Proposal** - Professional Engineering Services for Design of a New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station, Project E-977

BACKGROUND:

CVWD has been operating a break point chlorination station at the corner of Mayfield Ave. and Ramsdell Ave. where CVWD mixes local groundwater with imported water from Foothill Municipal Water District (FMWD). Over the years, this station has experienced high levels of corrosion inside the vault and has not been able to be properly maintained. The primary reason is currently, it is not possible to isolate the mixing station without shutting off the water supplied to CVWD's Zone 1. A secondary water source will be needed for CVWD's Zone 1, which is available from a higher-pressure zone (Zone 2). To facilitate the transfer of water from Zone 2 to Zone 1, CVWD's Engineering Department designed a second Pressure Reducing Station and a new isolation valve at the intersection of Mayfield Ave. and Ramsdell Ave. This would allow for the temporary removal of the RMS from service for necessary repairs (see attached preliminary design plans).

For CVWD to meet the accelerated pipeline replacement schedule along with a full CIP budget, we will need the assistance of a consulting engineering firm to review and prepare final design plans and specifications for the installation of a new PRV and upgrade and possible expansion of the RMS equipment and existing vault.

CVWD has worked with DMc Engineering in preparing a topographic survey of the project area as well as identifying the right-of-way within the City of Glendale and Caltrans. CVWD also worked with Cannon Corp on the electrical design of the project, which is included in this packet.

The selected consultant will be responsible to review the existing design and make recommendations to enhance the mixing operations, extend the life of the station and expand the existing vault and lid to accommodate for maintenance inside of the vault in the future.

Phase 1: The new PRV must be tested in conjunction with CVWD's Montrose PRV (see attached Location Map) to ensure that there is enough flow provided to CVWD's Zone 1 to maintain normal operations during the future isolation of the RMS. This will also require design of electrical and telemetry elements for powering and controlling the PRV via CVWD's SCADA system.

Phase 2: After the PRV has been installed and tested along with a new isolation valve, the RMS can be isolated. All pipelines, isolation valves, and flow control valves shall be replaced and all appurtenant electrical, SCADA, telemetry and sampling systems reinstated. The design should include the expansion of the vault to allow for CVWD operators to access equipment in the vault in the future.

CVWD is planning to bid out both phases of the work as a single project that will be under construction in sequence and completed before June 30, 2022.

DISCUSSION:

In April 2021, staff sent out a request for proposal (RFP) to five (5) consulting engineering firms to prepare design plans and specifications for the proposed project. Each firm has prior experience with professional services for the design of multifaceted water infrastructure projects. Attached for your review is the RFP that included the scope of work and other project parameters.

On April 17, 2021, staff held a pre-proposal web conference with the consulting firms and provided information about CVWD, the scope of work and proposed project schedule. The proposals were accepted on May 10, 2021, and CVWD received two (2) proposals.

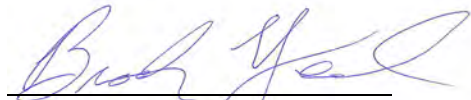
Staff reviewed each proposal and ranked them in accordance to the following categories and weighted percentages: 1) Proposal, Project Concept & Scope of Work– 30%, 2) Previous work experience – 30%, 3) Expertise of project staff on similar projects – 20%, 4) Coordination with agencies – 10%, and 5) Costs of service – 10%.

Cannon Corporation (Cannon) was the highest ranked consultant as shown on the attached consultant ranking table. Cannon's proposal addressed the critical design issues such as the channel crossing on Encinal Ave, coordination with Glendale and Los Angeles County, the design of new pipelines/vaults, installation of SCADA/Telemetry, implementation of water quality measures, meeting the District's project schedule, and their proposed costs are within CVWD's budget for this project. Cannon's team members have completed several similar projects within Los Angeles County and have previously provided consulting services to CVWD for the Rockhaven Well, advanced treatment facilities at Well 2, and design of the new emergency generator at CVWD's La Granada Lift Station.

RECOMMENDATION:

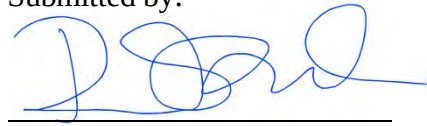
It is staff's recommendation to the Engineering Committee to award a consulting contract to Cannon for \$89,868 to prepare design plans and specifications as they provide a cost-effective proposal to meet the District's needs.

Prepared by:



Brook Yared, M.S., P.E.
Engineering Manager

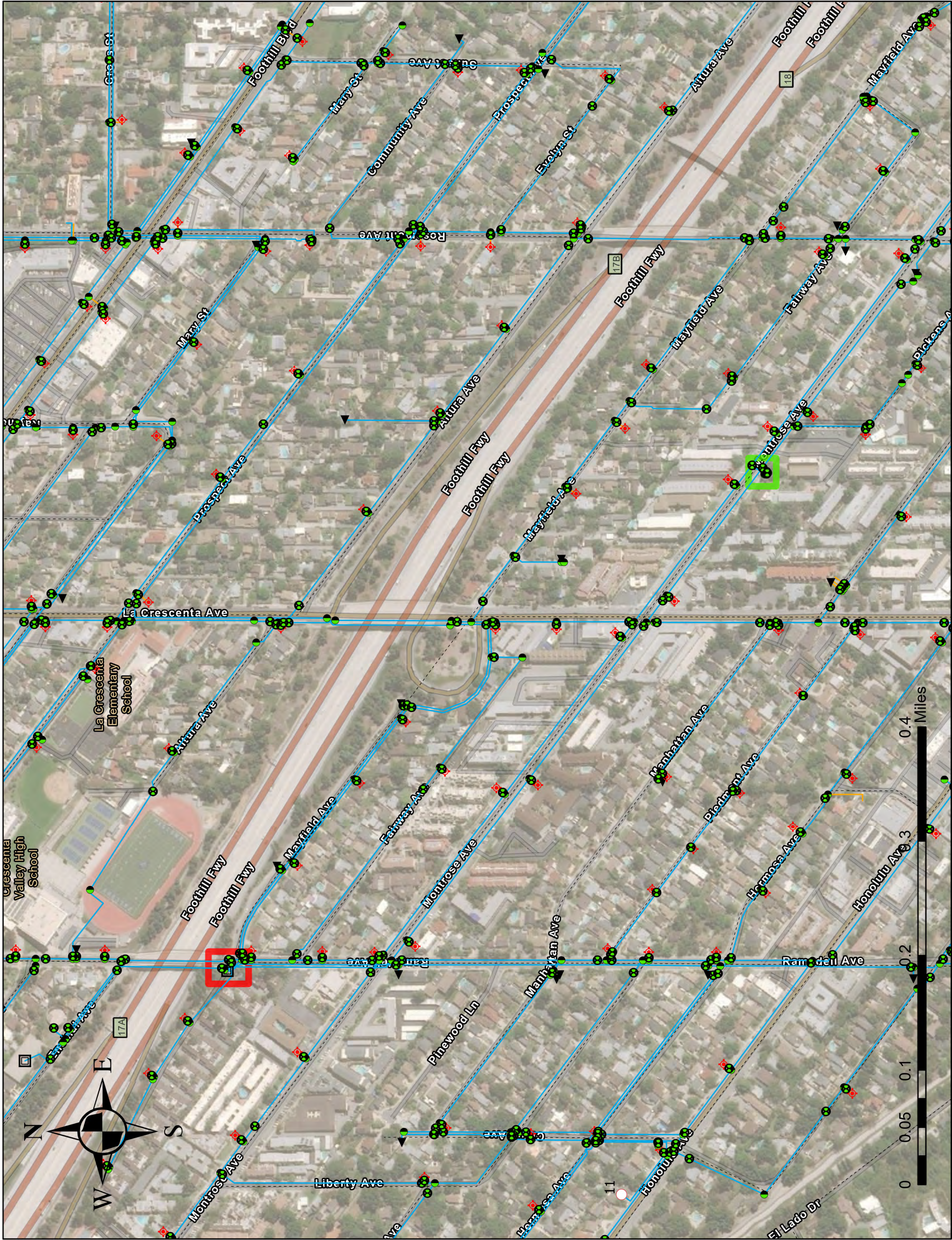
Submitted by:



David S. Gould, P.E.
Director of Engineering

Attachments:

1. Project Location Map
2. Request for Proposal
3. Consultant Ranking Table



Legend

Existing System:

- wwell
- wsvalve
- wmetstr
- whyd
- wfitting
- wcvalve
- wmain
- wlatine
- StreetCenterline

Existing Pipe Material: Bare Steel

Proposed Construction:

- PRV and RMS Construction Area
- Montrose Pressure Reducing Station

FY 21/22 CIP

Project E-977

Ramsdell Mixing Station

Rehabilitation

Crescenta Valley Water District



REQUEST FOR PROPOSAL

PROFESSIONAL ENGINEERING SERVICES FOR DESIGN OF A NEW PRESSURE REDUCING STATION & REHABILITATION OF THE RAMSDELL MIXING STATION, PROJECT E-977

PROPOSAL DUE DATE: May 3, 2021

INTRODUCTION:

Crescenta Valley Water District (CVWD) is embarking on its FY 21/22 capital improvement project program to install a new pressure reducing valve station (PRV) and rehabilitation of CVWD's Ramsdell Mixing Station (RMS) near the intersection of Mayfield Avenue and Ramsdell Avenue. Maintenance and possible expansion of the RMS have been deferred until a PRV and additional isolation valves can be installed to isolate the station while still providing adequate water supply to CVWD's Zone 1.

CVWD's Board agreed to pursue additional funding, totaling \$5M with the understanding that the bond proceeds must be spent within 3-years of issuance of the bond. CVWD's Board of Directors have instructed staff to use these bond proceeds to fund new projects such as the RMS. This increase in available spending has given CVWD staff the opportunity to increase our normal annual CIP spending on long deferred infrastructure projects.

BACKGROUND:

CVWD has been operating a break point chlorination station at the corner of Mayfield Ave. and Ramsdell Ave. where CVWD mixes local groundwater with imported water from Foothill Municipal Water District (FMWD). Over the years, this station has experienced high levels of corrosion inside the vault and has not been able to be properly maintained. The primary reason is currently, it is not possible to isolate the mixing station without shutting off the water supplied to CVWD's Zone 1. A secondary water source will be needed for CVWD's Zone 1, which is available from a higher-pressure zone (Zone 2). To facilitate the transfer of water from Zone 2 to Zone 1, CVWD's Engineering Department designed a second Pressure Reducing Station and a new isolation valve at the intersection of Mayfield Ave. and Ramsdell Ave. This would allow for the temporary removal of the RMS from service for necessary repairs (see attached preliminary design plans).

For CVWD to meet the accelerated pipeline replacement schedule along with a full CIP budget, we will need the assistance of a consulting engineering firm to review and prepare final design plans and specifications for the installation of a new PRV and upgrade and possible expansion of the RMS equipment and existing vault.

CVWD has worked with DMC Engineering in preparing a topographic survey of the project area as well as identifying the right-of-way within the City of Glendale and Caltrans. CVWD also worked with Cannon Corp on the electrical design of the project, which is included in this packet.

The selected consultant will be responsible to review the existing design and make recommendations to enhance the mixing operations, extend the life of the station and expand the existing vault and lid to accommodate for maintenance inside of the vault in the future.

The PRV and RMS are located adjacent to a large condominium community and several single-family residents. Parking is limited within the area, and it is a high traffic area due to a nearby high school.

Phase 1: The new PRV must be tested in conjunction with CVWD's Montrose PRV (see attached Location Map) to ensure that there is enough flow provided to CVWD's Zone 1 to maintain normal operations during the future isolation of the RMS. This will also require design of electrical and telemetry elements for powering and controlling the PRV via CVWD's SCADA system.

Phase 2: After the PRV has been installed and tested along with a new isolation valve, the RMS can be isolated. All pipelines, isolation valves, and flow control valves shall be replaced and all appurtenant electrical, SCADA, telemetry and sampling systems reinstated. The design should include the expansion of the vault to allow for CVWD operators to access equipment in the vault in the future.

CVWD is planning to bid out the construction of both the new PRV and the upgrades to the existing RMS under the same construction project with anticipated end of construction before June 14, 2022.

SCOPE OF WORK:

CVWD is seeking a professional engineering firm to design and prepare construction specifications documents for the installation of the new PRS and RMS as described above. The major elements of the project include the following:

- Review of preliminary plans prepared by CVWD and its consultants
- Utility research and compiling for base map.
- Prepare a pothole plan for utility crossing and connection to existing water mains. Potholing will be performed by CVWD crews.
- Pipeline, valve, and vault design per CVWD design and AutoCAD standards including:
 - o The PRV installation includes the design of three (3) new isolation valves, one (1) new PRV, one (1) new 16-inch isolation valve, one (1) new vault, electrical conduit, SCADA/telemetry program updates, and reconnection to existing water mains.
 - o The RMS review of existing equipment, study vault expansion option, replace existing 10" flow control valves.
- Details of vaults and connection to existing water mains
- Review and coordinate Electrical design plans and specifications with Cannon.
- Traffic Control Plans per City of Glendale requirements
- Coordination with City of Glendale Department of Public Works
 - o Design requirements relative to pavement replacement, backfill requirements, water discharge BMPs and traffic control.
 - o Excavation Permit – Submittal and preliminary approval. Contractor will obtain the final permit. CVWD will pay all permit fees.
- Coordination with the California Department of Transportation
 - o Additional permitting for construction adjacent to a freeway crossing, (if required).
- Coordination with Southern California Edison (SCE) for upgrade of the electrical meter
- Project Front-end Specifications provided by CVWD
- Project Special and Technical Provisions. Sample provided by CVWD
- Bidding Schedule and Engineer's construction cost estimate.
- Project Schedule for design phase and estimated construction schedule
- Construction services for bidding & shop drawing review. If CVWD needs additional assistance during construction for RFI's, CVWD will request a separate proposal.

Deliverables:

- Prepare 100% submittal and final submittal of construction drawings and specifications for both the PRV and vault construction as well as upgrades to the RMS.

Project Meetings - Attendance at least five (5) design and bidding project meeting

- o Kick-off Meeting
- o Community Outreach Meeting (Design Consideration)
- o 50% Submittal for Pressure Reducing Station and Ramsdell Mixing Station construction.
- o 90% Submittal for Pressure Reducing Station and Ramsdell Mixing Station construction.
- o Final Submittal
- o Pre-Bid Meeting

Project Schedule:

<u>Task</u>	<u>Date</u>
Pre-Proposal Meeting – Video Conference	April 21, 2021
Proposal Due	May 3, 2021
Award of Contract	May 25, 2021
Kick Off Meeting	June 2, 2021
50% Design Submittal and Review	May 26 – July 15, 2021
90% Design Submittal and Review	July 15 – August 19, 2021
Permitting (City of Glendale)	July 15 – August 26, 2021
Public Outreach (Design Consideration)	July 22, 2021
Board Approval – Advertisement for Bids	September 7, 2021
Pre-Bid Meeting	September 22, 2021
Bid Opening	October 13, 2021
Board Approval – Award of Contract	October 26, 2021
Public Outreach (Contractor/Inspector meet the Public)	November 4, 2021
Preconstruction Meeting	November 11, 2021
Start Construction	November 15, 2021
End Construction	June 14, 2022

PROPOSAL REQUIREMENTS:

Scope of Work

The proposal shall include a detailed list itemizing the tasks required to complete the scope of work addressing all project criteria outlined above. Each task shall include a detailed estimate of man-hours required to complete each task.

Proposal Fee Schedule

The proposal shall include a "Fee Schedule" outlining all applicable hourly rates and costs for services. The proposal shall provide a breakdown of fees associated with the project task as specified above. The proposal shall also include a "not-to exceed" total fee, which shall include all work necessary to complete the project objective.

Schedule

The proposal shall include a proposed project schedule detailing the time of completion for design and permitting. The schedule shall include the number of calendar days required to perform each task and the total number of calendar days required to complete the entire project.

Project Experience

The proposal shall include description of comparable pipeline projects completed by consultant including experience working with the City of Glendale and Los Angeles County within past three (3) years including: 1) names, addresses, and phone numbers of project managers, 2) date completed, location of work, and the name and address of the agency or firm for whom the project was constructed.

Consultant's Representative

The proposal shall name a responsible representative, an alternate, and all sub-consultants to perform the assigned tasks. The chosen consultant's representative will remain responsible and in charge of all duties from contract negotiations through project completion. If the primary representative is unable to continue with the project, then the alternate representative will become the primary representative. The District must approve any other changes in responsible representative, in advance. The District will have the right to reject other proposed changes in personnel and may consider any other changes in responsible personnel a breach of contract.

Professional Service Agreement

The chosen consultant shall be responsible for completing the specified services in accordance with the District's standard "Professional Services Agreement," which will be prepared by the District. Services specified in this agreement shall be taken directly from the consultant's accepted proposal and from this "Request for Proposal", if applicable.

Insurance Requirements

The District will require employer's liability, comprehensive commercial liability insurance, and errors and omissions insurance coverage for at least \$2,000,000 and comprehensive automobile liability for at least \$1,000,000. The District requires that the District be named as additional insured on the policy and such insurance policy shall not be terminated or canceled without thirty (30) days prior written notice to the District.

District Reimbursements

The District normally reimburses consultants for the actual cost (plus 15%) for all outside expenses, including those for material costs authorized in advance by the District. Other reasonable expenses will be reimbursed where such costs have been advanced by consultant and approved by the District.

The chosen consultant shall not be compensated for use of computers, office equipment, hardware, or software materials. Said costs are not compensated and time expended by consultant's personnel on such equipment is included within the hourly rate as shown on the consultant's fee schedule.

District Responsibilities:

District will provide the following to assist the selected consultant with the project and its completion:

- Topographic survey and right-of-way mapping prepared by DMc Engineering.
- Electrical plans prepared by Cannon Corp.
- Geographic information system (GIS) information and topographic surveys as available.
- Reports, plans, and drawings, as available and pertinent to the proposed plan.
- Design criteria, preferred manufacturer's information, and other technical information, as available and pertinent to the project.
- Current operational condition and performance of existing infrastructure pertinent to the proposed plan.

Proposal Due Date:

Please submit one (1) copy of the proposal as a PDF file via e-mail by 12:00 pm by May 3, 2021 to byared@cvwd.com. Send three (3) copies of the proposal to the attention of Mr. Brook Yared, Engineering Manager at Crescenta Valley Water District, 2700 Foothill Boulevard, La Crescenta CA 91214. If you have any questions or comments, contact Mr. Yared at 828-236-4117.



Crescenta Valley Water District

Professional Engineering Services for Design of a New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station, Project E-977

Consultant Ranking

Ranking	Weighted Percent	Cannon		Tetra Tech		MKN		DMC Engineering		SWCA	
		Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score
Proposal - Project Concept & Scope of Work	30%	4.5	1.35	4.8	1.43						
Project Experience	30%	4.8	1.43	4.8	1.43						
Project Team Qualifications	20%	3.8	0.75	4.0	0.80						
Coordination with Agencies	10%	4.8	0.48	4.5	0.45						
Consultant's Fee	10%	4.8	0.48	2.8	0.28						
Final Weighted Score	100%		4.48		4.38						
Total			\$89,868		\$179,600		\$0		\$0		\$0

Each consultant's proposal rated 1 - 5 (5 outstanding - 3 average - 1 unsatisfactory) on each category above. Each rating is multiplied by the weighted average for each category and totaled for the final weighted score.

Categories:

Project Concept & Scope of Work - How well the consultant's proposal addressed the needs of the District as outlined in the request for proposal & how well the consultant showed how its firm would complete the project

Project Experience - How much previous experience has the consultant on projects similar to this project

Project Team Qualifications - How did the consultant's proposal use its staff and the experience of the individual people involved

Consultants Fee - How well the consultant's proposal utilized their staff and the costs associated with the proposal

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 2
May 18, 2021

To: Engineering Committee
From: David S. Gould, P.E. – Director of Engineering
Subject: Discussion of FY 21/22 Capital Improvement Project Budget and Consultants

BACKGROUND:

Staff has been discussing the draft FY 21/22 Capital Improvement Project (CIP) budget with respect to the Long-Term Infrastructure and Funding Roadmap, including future financing through bonds and/or PayGo. Budgeting and financing of the FY 21/22 Capital Improvement Project has been discussed in-depth at Finance Committee meetings, Engineering Committee meetings and Board of Director meetings. The Board has tentatively agreed to the FY 21/22 CIP budget, and the schedule presented will be to finalize the budget and proposed water rate increase in October 2021.

DISCUSSION:

There are several CIP projects that need the assistance of outside consultants to begin design services so that construction could start earlier this year (October or November 2021) instead of starting after January 2022 as shown in the projects listed below:

1. Design consultant for the new pipelines on the 2800 to 3100 Blocks of Los Olivos; 3200 Block of Alabama 4700 & 4800 Blocks of Cheryl & 3300 Block of Thelma St.
2. Design consultant for the steel reservoir rehabilitation at Edmund #2.
3. Design consultant for the replacement of SCADA communication radio network
4. Design consultant for the replacement of SCADA Equipment, Programming & Integration
5. Consultant to assist operations staff with conversion, monitoring and standard operating procedures for the conversion to chloramines.
6. Consultant to prepare the Wastewater Master Plan, including Wastewater Treatment Plant Feasibility Study.

Staff will be preparing request for proposals (RFP) for each of these projects within the next few weeks and sending the RFP's out to consultants. Staff is planning to bring to future Board meetings the consultant award of contract for approval. The RFP will also include a statement that the District can stop design if the final CIP budget is revised, or the specific project is cancelled. Staff is estimating about \$100,000 to \$150,000 of consulting fees will be spent prior to the October 2021 approval of the CIP budget.

RECOMMENDATION:

Staff is recommending to the Engineering Committee that staff move forward with preparing and awarding design consultant contracts prior to the final adoption of the FY 21/22 CIP Budget.

Prepared & Submitted by:



David S. Gould, P.E.
Director of Engineering

Crescenta Valley Water District

FY 21/22 Capital Improvement Project Priority List

Capital Improvement Project Program	Budget FY 21/22	Category	Bond (B) or PayGo (P)	Cumulative Estimated Costs	Completion Date	Project Description
Bond Proceeds						
Annual Pipeline Replacement - 5,450 LF	\$ 1,795,326	Water Distribution	B	\$ 1,795,326	Jun-22	Pipeline Replacement - 2800 to 3100 Blocks of Los Olivos; 3200 Block of Alabama, 4700 & 4800 Blocks of Cheryl & 3300 Block of Thema - Total 5,450 LF; 69% Bond Funding
Bond Proceeds Subtotal	\$ 1,795,326					
Pay-Go						
Annual Pipeline Replacement - 5,450 LF	\$ 804,674	Water Distribution	P	\$ 804,674	May-22	Pipeline Replacement - 2800 to 3100 Blocks of Los Olivos; 3200 Block of Alabama 4700 & 4800 Blocks of Cheryl & 3300 Block of Thema - Total 5,450 LF; 31% Pay-Go Funding
Steel Reservoir Rehabilitation - Edmund #2	\$ 590,000	Water Storage	P	\$ 1,394,674	Mar-22	Reservoir Rehabilitation - Structural repairs and re-coating at Edmund #2 Reservoir during low demand (Winter) season
Well 14 Rehabilitation	\$ 105,000	Water Supply	P	\$ 1,499,674	Jan-22	Well Rehabilitation - Remove & Inspect Well Pump & Casing, Chemical Treatment Well Casing, Pump Test, New Pump & Motor
PRS - Zone 2 to Zone 1/Upgrade - Ramsdell Mixing Station	\$ 728,000	Water Distribution	P	\$ 2,227,674	Jun-22	New Pressure Reducing Station & Upgrade Ramsdell Mixing Station - <u>Continuation from FY 20/21</u> - Construction of PRS from Zone 2 to zone 1 & Upgrade to Ramsdell Mixing Station
Replacement - SCADA System	\$ 374,000	Technology	P	\$ 2,601,674	Dec-21	Replacement of SCADA System - <u>Continuation from FY 20/21</u> - Completion of the replacement of RTU/PLC Equipment including new equipment, programing, integration and testing
Replacement - Communication Radio Network	\$ 125,000	Technology	P	\$ 2,726,674	Sep-21	Replacement of SCADA Radio Communication System - <u>Continuation from FY 20/21</u> - Completion to Upgrading Radio System to 5.8GHz radios
AMI - 3/4" to 1" - Smart Meters & AMI Customer Portal	\$ 520,000	Technology	P	\$ 3,246,674	Feb-22	Advanced Metering Infrastructure (AMI) - <u>Continuation from FY 20/21</u> 1) Install 590 3/4" and 1" water meters in Zone 1 2) Install AMI Customer Engagement Portal 3) Install 3" & 4" meters - USBR Grant
Annual Booster Pump Replacement	\$ 53,000	Water Distribution	P	\$ 3,299,674	Jan-22	Booster Pump Replacement - Replace 15-yr and older booster pump with new pump assembly and high efficiency motor - Replace Booster 26 at Cresta Heights Reservoir
Stormwater Recharge CVC Park - Planning	\$ 30,000	Water Supply	P	\$ 3,329,674	Jun-22	Stormwater Recharge - <u>Continuation from FY 20/21</u> - Concept plan, grant funding options and coordination with stakeholders
Disinfection - Conversion to Chloramines	\$ 75,000	Water Treatment	P	\$ 3,404,674	Dec-21	Disinfection Changeover - Utilizing a consultant to assist operations staff with conversion, monitoring and standard operating procedures
Pay-Go Subtotal	\$ 3,404,674					
Total CIP	\$ 5,200,000					

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 3
May 18, 2021

To: Engineering Committee
From: David S. Gould, P.E. – Director of Engineering
Subject: **Project Update – May 2021 - FY 20/21 Water Capital Improvement Program**

BACKGROUND:

The Board approved the FY 20/21 Water Budget at the June 9, 2020 meeting with \$2.3M available for CIP projects. The Board also agreed to pursue refinancing CVWD's existing bond debt and requesting additional funding, totaling \$5M available for FY 20/21 CIP. The \$5M Bond process was completed on September 15, 2020.

DISCUSSION:

The following is the **May 2021** update of the progress and schedule for the FY 20/21 CIP projects. Project costs are shown on the attached Updated Project Cost Summary:

1. **Steel Reservoir Rehabilitation – Rosemont Reservoir** – This project is for the structural repairs and re-coating of the reservoir interior to maintain the District's water storage capacity and to increase the life expectancy of the steel tank.
Progress: Harper and Associates Engineering (Harper) and staff completed the design, and the project was awarded to Crosno Construction.
Project Schedule: On Schedule
 - May 2021 – Filling Reservoir & WQ testing; Reservoir to be back in service by 5/24/21.
2. **Annual Pipeline Replacement** – This project is for the replacement of steel pipelines that are at least 50-years old or older in a timely manner.
 - A. **Project 1 & 2:** Replacement of 4-inch & 6-inch pipelines on the 2400 & 2500 Blocks of Janet Lee (Project 1), and the 4300 Block of Rosemont (Project 2).
Progress: Staff completed design, and project was awarded to Brkich Construction.
Project Schedule: On Schedule
 - Project 1 – 2400 & 2500 Blocks of Janet Lee – Final Paving – Complete by 5/21/21
 - Project 2 – 4300 Block of Rosemont - 90% complete; Complete by 5/31/21
 - B. **Projects 3:** Replacement of 8-inch pipeline on the 3400 & 3500 Blocks of Encinal (Project 3)
Progress: Civiltec and staff completed the design and project awarded to T.E. Roberts Const.
Project Schedule: On Schedule
 - May 2021 – Complete
 - C. **Projects 4:** Replacement of 4-inch, 6-inch & 8-inch pipelines on the 4800 Block of Dyer, 2800 Block of El Caminito, 4800 Block of Glenwood, 2800 Block of Stevens and 2700 Block of Paraiso Way (Project 4).
Progress: Civiltec and staff completed the design and project was awarded to Brkich Construction.
Project Schedule: On Schedule
 - May 24, 2021 – Begin Construction
 - July 2021 – Anticipate work to be completed.

3. **Local Hazard Mitigation Plan** - CVWD awarded a grant from Cal OES and FEMA to prepare a Local Hazard Mitigation Plan (LHMP) to address high priority hazards related to its water and sewer systems during a drought, energy shortage/outage, wildfire, earthquake, terrorism or cyber-attack. The total grant amount to prepare a local hazard mitigation plan is \$165,000, with \$125,000 grant funding from FEMA and \$40,000 funding from CVWD.

Progress: Steering Committee Meeting #8 on 6/09/21 and information updated regularly on CVWD's website.

Project Schedule: On Schedule

- May 28, 2021 – Draft review by CVWD
- June 8 – June 22, 2021 – Public Comment Period
- July 2021 – LHMP submitted to Cal OES.
- September 2021 – Grant Applications due

4. **New Emergency Generator at La Granada Sewer Lift Station** – Installation of a new emergency electrical generator at the sewer lift station.

Progress: Cannon and staff have completed the design and project was awarded to Affordable Generator Services.

Project Schedule: Behind Schedule

- May 2021 – Working with LA County Parks & Recreation Dept & LCF on license agreement.
- August 2021 – Anticipated delivery date for emergency generator & begin construction.

5. **Advanced Metering Infrastructure (AMI) Program** – This project has two (2) components: 1) replacement of ¾" & 1" meters with new Sensus iPERL "Smart Meters" in Pressure Zones 1 & 2, and 2) installation of the AMI network communication system.

Progress: Field crews have replaced around 493 ¾-inch & 1-inch, water meters for FY 20/21. Esource completed the RFQ, and the contract was awarded to Aqua Metric for the AMI network communication system.

Project Schedule: On Schedule

- April 2021 – Completed AMI network communication system & installation of 100 meters.
- May to July 2021 – Analysis of data and incorporating into customer billing system.
- May 2021 – Discussion of Customer Engagement Platform with staff.
- June 2021 – Finalize Opt-Out policy for Board approval.

6. **Groundwater Well Rehabilitation** – This project is for the rehabilitation of Well 12, which was last rehabilitated in 2010.

Progress: The project design is complete, and the contract was awarded to Legend Pump.

Project Schedule: On Schedule

- May 2021 – Completed well casing cleaning and installation of new pump.
- June 2021 – Water quality testing and put back into service.

7. **Replacement of SCADA Communication Radio Network** – CVWD has an existing radio communication network that operates on the 900 MHz radio frequency. In the past year, the radio system has seen interference with other communication devices, and the equipment, which was installed 7 years ago, is nearing the end of its useful life and has been malfunctioning.

Progress: Award contract to Systems Integrated to prepare SCADA radio feasibility study (Study).

Project Schedule: On Schedule

- May 2021 – Finalize SCADA radio feasibility study.
- June 2021 – Send out Request for Quote to replace Radio Communication System.

8. **New Pressure Reducing Valve (PRV) Station & Upgrade Ramsdell/Mayfield Mixing Station** – This project includes installing a new PRV station near the intersection of Mayfield Ave. and Ramsdell Ave. and upgrading the Ramsdell/Mayfield Mixing Station. The new PRV Station is needed to provide water from Zone 2 to Zone 1 when Encinal Reservoir and the Ramsdell/Mayfield Mixing Station are out of service. To meet the current FY 20/21 CIP schedule, staff will need assistance from a consulting firm to complete the specifications and advertise for bids.
- Progress:** Staff completed Request for Proposal (RFP).
- Project Schedule:** On Schedule
- May 2021 – Award of Consulting Contract – See staff report.
 - October 2021 – Advertise for Bids.
9. **Replacement of Supervisory Control and Data Acquisition (SCADA) System Upgrade** – CVWD has an existing SCADA system with RTU/PLCs that were installed at each of the District's facilities in 1996 that provides information on the status of the water system, controls for booster pump operation, and relays alarms to the System Operators. The upgraded SCADA system will include upgrading equipment, programing, and integration based on industry standards, which can be repaired and/or replaced by various consultants/contractors.
- Progress:** Staff is currently working on an assessment of the existing equipment and programing to prepare a request for proposal with a scope of work for a consulting firm.
- Project Schedule:** Behind Schedule.
- May 2021 – Continued working on Request for Proposal (RFP).
 - June 2021 – Review project with Engineering Committee.
10. **Stormwater Recharge Program** - Stormwater Recharge Project at Crescenta Valley County Park (CVC Park) includes the design and installation of a stormwater infiltration system within CVC Park that will direct stormwater from the Verdugo Wash into infiltration galleries for groundwater recharge. The focus will be to coordinate with the City of Los Angeles on stormwater rights.
- Progress:** Sent a letter outlining the project and water rights to discuss further with LADWP.
- Project Schedule:** On Schedule
- May 2021 – Staff met with LADWP, looking into alternatives.
 - June 2021 – Presentation to Engineering Committee on status of project.
11. **Rehabilitation Surge Tank at Glenwood** – This project is the rehabilitation of the surge tank at the Glenwood Operations Facility. A preliminary design was completed in 2017.
- Progress:** Project put on hold
12. **16-inch Manifold and Valve Replacement at Oak Creek Reservoir** – CVWD's operations staff observed a leak on the underside of the existing inlet/outlet pipeline manifold that joins Oak Creek #1 and #2 reservoirs. The inlet/outlet manifold was installed 1961 and is a critical junction point as it allows influent water to fill each reservoir.
- Progress:** Complete.
13. **Annual Booster Pump Replacement** – This project was originally planned to replace Markridge Booster 25. However, Booster B at Paschall was shut down due to what appears to be mechanical failure. Staff is working with the pump contractor that replaced the pump in 2018 to remove and replace the pump.
- Progress:** Complete

14. **Facility Improvement Program** – This project is for the installation of a new roof on the existing 70 ft diameter concrete reservoir at Encinal for material and equipment storage. Staff will be preparing an RFP for a consulting firm to perform the structural design of the new roof.

Progress: Complete – Project put on hold.

SUMMARY:

In summary, many of the FY 20/21 CIP projects are either under design or under construction. Attached for review is a summary of project costs including costs spent to date, cost committed to for the remainder of the year, and the total cost for each project.

Prepared & Submitted by:

A handwritten signature in blue ink, appearing to read 'D. Gould', is written over a horizontal line.

David S. Gould, P.E.
Director of Engineering

Attachment: FY 20/21 Capital Improvement Project Program - Cost Update: 5/17/21

FY 20/21 Capital Improvement Project Program Cost Update: 05/17/21	Recorded FY 19/20	Budget FY 20/21	<u>FY 20/21</u> Cost to date from 7/1/20 to 04/30/21	<u>FY 20/21</u> Cost Committed from 5/1/21 to 6/30/21	Projected FY 20/21
Capital Improvement Project Summary					
1. Water Supply	\$ 300,375	\$ 170,000	\$ 67,026	\$ 114,080	\$ 181,106
2. Water Storage	\$ 498,530	\$ 480,000	\$ 136,421	\$ 499,127	\$ 635,548
3A. Water Distribution - Pipeline	\$ 1,126,030	\$ 2,300,000	\$ 849,349	\$ 1,571,151	\$ 2,420,500
3B. Water Distribution - Other	\$ 10,892	\$ 710,000	\$ 128,153	\$ 108,016	\$ 236,169
4. Water Treatment	\$ 469,205	\$ -	\$ 54,073	\$ -	\$ 54,073
5. Technology	\$ 152,597	\$ 1,070,000	\$ 301,337	\$ 430,663	\$ 732,000
6. Public Safety/Emergency Response	\$ 5,810	\$ 165,000	\$ 62,785	\$ 102,215	\$ 165,000
7. Facilities & Planning	\$ -	\$ 105,000	\$ 1,555	\$ -	\$ 1,555
Capital Improvement Projects - Total	\$ 2,563,438	\$ 5,000,000	\$ 1,600,700	\$ 2,825,252	\$ 4,425,951
Bond Financing - CIP	\$ -	\$ 2,695,174	\$ 1,191,460	\$ 2,013,214	\$ 3,204,674
Water Fund Financing - CIP	\$ 2,563,438	\$ 2,304,826	\$ 409,240	\$ 812,037	\$ 1,221,277
Total Financing - CIP	\$ 2,563,438	\$ 5,000,000	\$ 1,600,700	\$ 2,825,252	\$ 4,425,951

FY 20/21 Capital Improvement Project Program Cost Update: 05/17/21		Recorded FY 19/20	Budget FY 20/21	FY 20/21 Cost to date from 7/1/20 to 04/30/21	FY 20/21 Cost Committed from 5/1/21 to 6/30/21	Projected FY 20/21
1. Water Supply						
A. Groundwater Water Supply						
i. Well Rehabilitation						
	Well 7 Rehabilitation	\$ 102,696				
	Well 16 Rehabilitation	\$ 103,713				
	Well 11 Rehabilitation	\$ 14,694	\$ -	\$ 56,106	\$ -	\$ 56,106
	Well 12 Rehabilitation		\$ 95,000	\$ 8,385	\$ 86,615	\$ 95,000
ii. New Wells						
	Re-Activate Well 2 - Construction	\$ 79,272				
iii. Groundwater Basin Recharge						
	Stormwater Recharge Project at CVC Park - Planning		\$ 75,000	\$ 2,535	\$ 27,465	\$ 30,000
WS Total		\$ 300,375	\$ 170,000	\$ 67,026	\$ 114,080	\$ 181,106
2. Water Storage						
A. Reservoir Rehabilitation						
i. Steel Reservoir Re-Coating/Roof/Vents Rehabilitation						
	Markridge	\$ 498,530	\$ -	\$ 367	\$ -	\$ 367
	Rosemont		\$ 480,000	\$ 80,873	\$ 499,127	\$ 580,000
	Oak Creek - 16" Manifold Repair		\$ -	\$ 55,181	\$ -	\$ 55,181
WS Total		\$ 498,530	\$ 480,000	\$ 136,421	\$ 499,127	\$ 635,548
3. Water Distribution						
A. Pipeline Replacement						
	3200 & 3300 Blocks of Brookhill	\$ 623,009				
	4700 & 4800 Block of Pennsylvania	\$ 503,021				
	Project 1		\$ 538,000	\$ 174,408	\$ 388,343	\$ 562,750
	Project 2		\$ 280,000	\$ 20,205	\$ 284,545	\$ 304,750
	Project 3		\$ 707,000	\$ 491,468	\$ 258,532	\$ 750,000
	Project 4		\$ 775,000	\$ 163,268	\$ 639,731	\$ 803,000
	Annual Pipeline Replacement		\$ 2,300,000	\$ 849,349	\$ 1,571,151	\$ 2,420,500
C. Booster Pump System						
i. Annual Pump /Motor Replacement						
	Boosters - Glenwood 32 & 33	\$ 4,384	\$ -	\$ 85,951	\$ -	\$ 85,951
	Booster Replace - Booster B at Paschall		\$ 75,000	\$ 20,218	\$ -	\$ 20,218

FY 20/21 Capital Improvement Project Program Cost Update: 05/17/21		Recorded FY 19/20	Budget FY 20/21	FY 20/21 Cost to date from 7/1/20 to 04/30/21	FY 20/21 Cost Committed from 5/1/21 to 6/30/21	Projected FY 20/21
D. Pressure Reducing Stations						
	PRS - Zone 2 to Zone 1	\$ 6,508	\$ 150,000	\$ 21,984	\$ 58,016	\$ 80,000
i. Water Surge Control						
	Rehabilitation Surge Tank at Glenwood		\$ 35,000	\$ -	\$ -	\$ -
iii. Misc.						
	Upgrade - Ramsdell Mixing Station	\$ -	\$ 450,000	\$ -	\$ 50,000	\$ 50,000
WD Total		\$ 1,136,922	\$ 3,010,000	\$ 977,502	\$ 1,679,166	\$ 2,656,669
4. Water Treatment						
C. Disinfection - Convert to Chloramines						
	Conversion to Chloramination	\$ 469,205	\$ -	\$ 54,073	\$ -	\$ 54,073
WT Total		\$ 469,205	\$ -	\$ 54,073	\$ -	\$ 54,073
5. Technology						
A. Automated Meter Information (AMI) System						
	AMI - 3/4" to 1" - Smart Meters	\$ 83,590	\$ 50,000	\$ 45,954	\$ 54,546	\$ 100,500
	AMI - Communication		\$ 150,000	\$ 159,736	\$ 141,764	\$ 301,500
B. Supervisory Control and Data Acquisition (SCADA)						
	Communication Radio Network		\$ 260,000	\$ 6,677	\$ 123,323	\$ 130,000
	SCADA Replacement - Design	\$ 69,007				
	SCADA Replacement - Installation		\$ 610,000	\$ 88,970	\$ 111,030	\$ 200,000
TECH Total		\$ 152,597	\$ 1,070,000	\$ 301,337	\$ 430,663	\$ 732,000
6. Public Safety/Emergency Response						
	Dunsmore/Pickens - Seismic Sensors	\$ 5,810				
D. Miscellaneous						
	FEMA Local Hazard Mitigation Plan		\$ 165,000	\$ 62,785	\$ 102,215	\$ 165,000
SF/ER Total		\$ 5,810	\$ 165,000	\$ 62,785	\$ 102,215	\$ 165,000
7. Facilities & Planning						
	Roof for Old Encinal - Storage Bldg		\$ 105,000	\$ 1,555	\$ -	\$ 1,555
F & P Total		\$ -	\$ 105,000	\$ 1,555	\$ -	\$ 1,555
Capital Improvement Projects - Total		\$ 2,563,438	\$ 5,000,000	\$ 1,600,700	\$ 2,825,252	\$ 4,425,951

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

To be held on
May 18, 2021 at 2:30 PM

Agenda for the Meeting of the Engineering Committee
of the Crescenta Valley Water District

Posted May 17, 2021 at 10:00 AM

TELECONFERENCING NOTICE

[This meeting will be held by teleconference only.]

Pursuant to the provisions of Executive Order N-29-20 issued by Governor Gavin Newsom on March 18, 2020, the public may not attend the meeting in person.

Any member of the public may participate using a touchtone phone. You may select any of the following phone numbers (there are more than one for increased reliability during this time of increased phone traffic)

(669) 900-6833

(346) 248-7799

(929) 205-6099

(253) 215-8782

(301) 715-8592

(312) 626-6799

Then, enter Access Code: 837 2816 1540

[Pursuant to the above Executive Order, the public may not attend the meeting in person]

Those members of the public who are able to and would like to additionally participate with a computer through videoconference may access the Zoom videoconferencing tool available at the following link – <https://us02web.zoom.us/j/83728161540>

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by contacting the District by phone or in writing at customerservice@cvwd.com. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

Call to Order

Adoption of Agenda

Public Comment:

At this time, members of the public shall have an opportunity to address the Committee on items of interest that are within the subject matter jurisdiction of this Committee. This opportunity is non-transferable, and speakers are limited to three (3) minutes each. Under the provisions of the Brown Act, the Board is prohibited from taking action on items not listed on the agenda, except under certain circumstances.

Action Items

The public shall have an opportunity to comment on any action item as each item is considered by the Committee. This opportunity is non-transferrable, and speakers are limited to one two-minute (2) comment each.

1. Award of Contract for the Design of a New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station, Project E-977
2. Discussion of the FY 21/22 Capital Improvement Project Budget
3. Project Cost Update - FY 20/21 Capital Improvement Project Program

Committee Member's Request for Future Agenda Items

Next Engineering Committee Meeting – June 15, 2021 at 2:30 pm

Adjournment

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 1

May 18, 2021

To: Engineering Committee

From: Brook Yared, M.S., P.E. – Engineering Manager

Subject: **Request for Proposal** - Professional Engineering Services for Design of a New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station, Project E-977

BACKGROUND:

CVWD has been operating a break point chlorination station at the corner of Mayfield Ave. and Ramsdell Ave. where CVWD mixes local groundwater with imported water from Foothill Municipal Water District (FMWD). Over the years, this station has experienced high levels of corrosion inside the vault and has not been able to be properly maintained. The primary reason is currently, it is not possible to isolate the mixing station without shutting off the water supplied to CVWD's Zone 1. A secondary water source will be needed for CVWD's Zone 1, which is available from a higher-pressure zone (Zone 2). To facilitate the transfer of water from Zone 2 to Zone 1, CVWD's Engineering Department designed a second Pressure Reducing Station and a new isolation valve at the intersection of Mayfield Ave. and Ramsdell Ave. This would allow for the temporary removal of the RMS from service for necessary repairs (see attached preliminary design plans).

For CVWD to meet the accelerated pipeline replacement schedule along with a full CIP budget, we will need the assistance of a consulting engineering firm to review and prepare final design plans and specifications for the installation of a new PRV and upgrade and possible expansion of the RMS equipment and existing vault.

CVWD has worked with DMc Engineering in preparing a topographic survey of the project area as well as identifying the right-of-way within the City of Glendale and Caltrans. CVWD also worked with Cannon Corp on the electrical design of the project, which is included in this packet.

The selected consultant will be responsible to review the existing design and make recommendations to enhance the mixing operations, extend the life of the station and expand the existing vault and lid to accommodate for maintenance inside of the vault in the future.

Phase 1: The new PRV must be tested in conjunction with CVWD's Montrose PRV (see attached Location Map) to ensure that there is enough flow provided to CVWD's Zone 1 to maintain normal operations during the future isolation of the RMS. This will also require design of electrical and telemetry elements for powering and controlling the PRV via CVWD's SCADA system.

Phase 2: After the PRV has been installed and tested along with a new isolation valve, the RMS can be isolated. All pipelines, isolation valves, and flow control valves shall be replaced and all appurtenant electrical, SCADA, telemetry and sampling systems reinstated. The design should include the expansion of the vault to allow for CVWD operators to access equipment in the vault in the future.

CVWD is planning to bid out both phases of the work as a single project that will be under construction in sequence and completed before June 30, 2022.

DISCUSSION:

In April 2021, staff sent out a request for proposal (RFP) to five (5) consulting engineering firms to prepare design plans and specifications for the proposed project. Each firm has prior experience with professional services for the design of multifaceted water infrastructure projects. Attached for your review is the RFP that included the scope of work and other project parameters.

On April 17, 2021, staff held a pre-proposal web conference with the consulting firms and provided information about CVWD, the scope of work and proposed project schedule. The proposals were accepted on May 10, 2021, and CVWD received two (2) proposals.

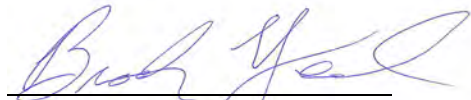
Staff reviewed each proposal and ranked them in accordance to the following categories and weighted percentages: 1) Proposal, Project Concept & Scope of Work– 30%, 2) Previous work experience – 30%, 3) Expertise of project staff on similar projects – 20%, 4) Coordination with agencies – 10%, and 5) Costs of service – 10%.

Cannon Corporation (Cannon) was the highest ranked consultant as shown on the attached consultant ranking table. Cannon's proposal addressed the critical design issues such as the channel crossing on Encinal Ave, coordination with Glendale and Los Angeles County, the design of new pipelines/vaults, installation of SCADA/Telemetry, implementation of water quality measures, meeting the District's project schedule, and their proposed costs are within CVWD's budget for this project. Cannon's team members have completed several similar projects within Los Angeles County and have previously provided consulting services to CVWD for the Rockhaven Well, advanced treatment facilities at Well 2, and design of the new emergency generator at CVWD's La Granada Lift Station.

RECOMMENDATION:

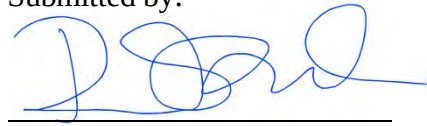
It is staff's recommendation to the Engineering Committee to award a consulting contract to Cannon for \$89,868 to prepare design plans and specifications as they provide a cost-effective proposal to meet the District's needs.

Prepared by:



Brook Yared, M.S., P.E.
Engineering Manager

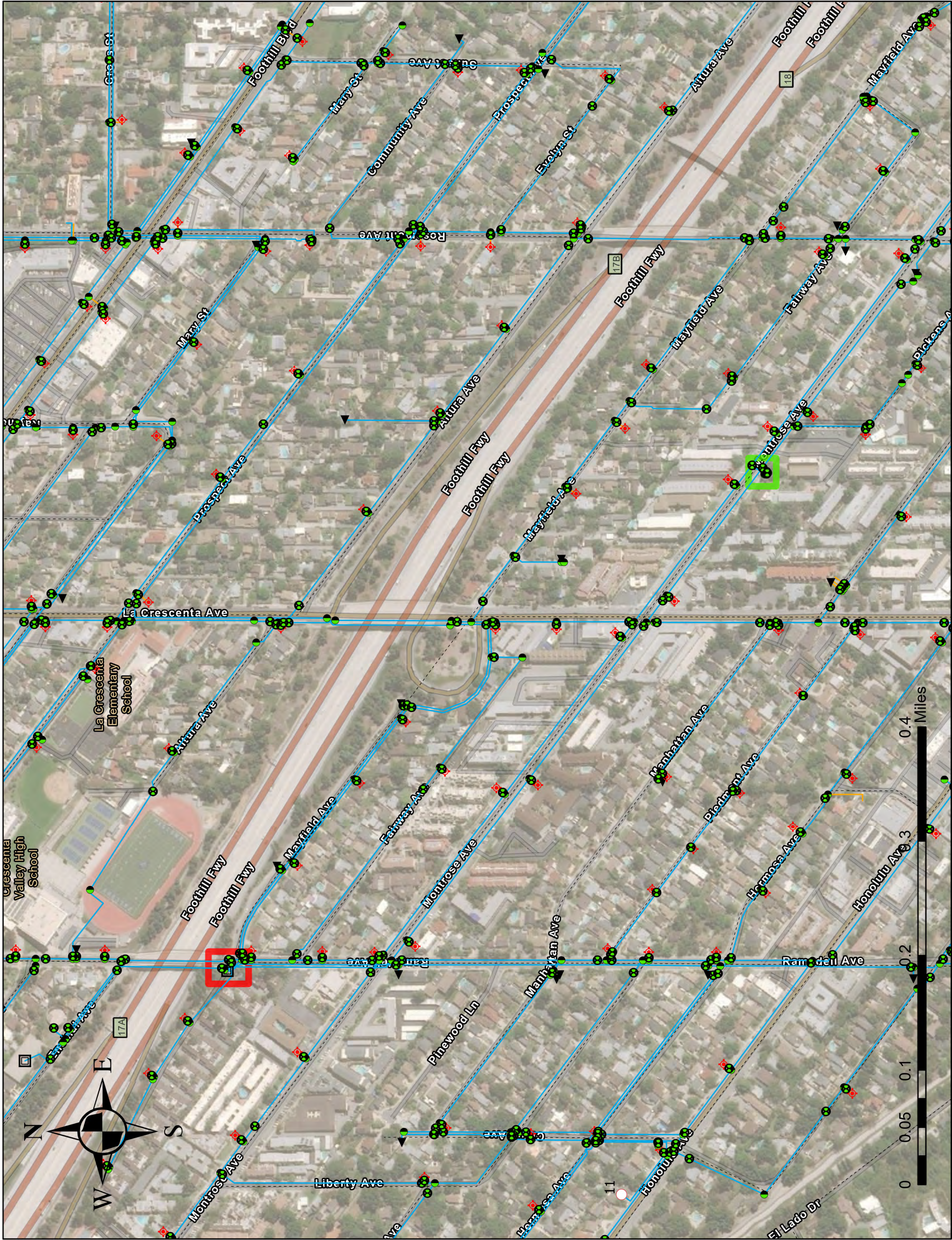
Submitted by:



David S. Gould, P.E.
Director of Engineering

Attachments:

1. Project Location Map
2. Request for Proposal
3. Consultant Ranking Table



Legend

Existing System:

- wwell
- wsvalve
- wmetstr
- whyd
- wfitting
- wcvalve
- wmain
- wlatine
- StreetCenterline

Existing Pipe Material: Bare Steel

Proposed Construction:

- PRV and RMS Construction Area
- Montrose Pressure Reducing Station

FY 21/22 CIP

Project E-977

Ramsdell Mixing Station Rehabilitation



Crescenta Valley Water District



REQUEST FOR PROPOSAL

PROFESSIONAL ENGINEERING SERVICES FOR DESIGN OF A NEW PRESSURE REDUCING STATION & REHABILITATION OF THE RAMSDELL MIXING STATION, PROJECT E-977

PROPOSAL DUE DATE: May 3, 2021

INTRODUCTION:

Crescenta Valley Water District (CVWD) is embarking on its FY 21/22 capital improvement project program to install a new pressure reducing valve station (PRV) and rehabilitation of CVWD's Ramsdell Mixing Station (RMS) near the intersection of Mayfield Avenue and Ramsdell Avenue. Maintenance and possible expansion of the RMS have been deferred until a PRV and additional isolation valves can be installed to isolate the station while still providing adequate water supply to CVWD's Zone 1.

CVWD's Board agreed to pursue additional funding, totaling \$5M with the understanding that the bond proceeds must be spent within 3-years of issuance of the bond. CVWD's Board of Directors have instructed staff to use these bond proceeds to fund new projects such as the RMS. This increase in available spending has given CVWD staff the opportunity to increase our normal annual CIP spending on long deferred infrastructure projects.

BACKGROUND:

CVWD has been operating a break point chlorination station at the corner of Mayfield Ave. and Ramsdell Ave. where CVWD mixes local groundwater with imported water from Foothill Municipal Water District (FMWD). Over the years, this station has experienced high levels of corrosion inside the vault and has not been able to be properly maintained. The primary reason is currently, it is not possible to isolate the mixing station without shutting off the water supplied to CVWD's Zone 1. A secondary water source will be needed for CVWD's Zone 1, which is available from a higher-pressure zone (Zone 2). To facilitate the transfer of water from Zone 2 to Zone 1, CVWD's Engineering Department designed a second Pressure Reducing Station and a new isolation valve at the intersection of Mayfield Ave. and Ramsdell Ave. This would allow for the temporary removal of the RMS from service for necessary repairs (see attached preliminary design plans).

For CVWD to meet the accelerated pipeline replacement schedule along with a full CIP budget, we will need the assistance of a consulting engineering firm to review and prepare final design plans and specifications for the installation of a new PRV and upgrade and possible expansion of the RMS equipment and existing vault.

CVWD has worked with DMC Engineering in preparing a topographic survey of the project area as well as identifying the right-of-way within the City of Glendale and Caltrans. CVWD also worked with Cannon Corp on the electrical design of the project, which is included in this packet.

The selected consultant will be responsible to review the existing design and make recommendations to enhance the mixing operations, extend the life of the station and expand the existing vault and lid to accommodate for maintenance inside of the vault in the future.

The PRV and RMS are located adjacent to a large condominium community and several single-family residents. Parking is limited within the area, and it is a high traffic area due to a nearby high school.

Phase 1: The new PRV must be tested in conjunction with CVWD's Montrose PRV (see attached Location Map) to ensure that there is enough flow provided to CVWD's Zone 1 to maintain normal operations during the future isolation of the RMS. This will also require design of electrical and telemetry elements for powering and controlling the PRV via CVWD's SCADA system.

Phase 2: After the PRV has been installed and tested along with a new isolation valve, the RMS can be isolated. All pipelines, isolation valves, and flow control valves shall be replaced and all appurtenant electrical, SCADA, telemetry and sampling systems reinstated. The design should include the expansion of the vault to allow for CVWD operators to access equipment in the vault in the future.

CVWD is planning to bid out the construction of both the new PRV and the upgrades to the existing RMS under the same construction project with anticipated end of construction before June 14, 2022.

SCOPE OF WORK:

CVWD is seeking a professional engineering firm to design and prepare construction specifications documents for the installation of the new PRS and RMS as described above. The major elements of the project include the following:

- Review of preliminary plans prepared by CVWD and its consultants
- Utility research and compiling for base map.
- Prepare a pothole plan for utility crossing and connection to existing water mains. Potholing will be performed by CVWD crews.
- Pipeline, valve, and vault design per CVWD design and AutoCAD standards including:
 - o The PRV installation includes the design of three (3) new isolation valves, one (1) new PRV, one (1) new 16-inch isolation valve, one (1) new vault, electrical conduit, SCADA/telemetry program updates, and reconnection to existing water mains.
 - o The RMS review of existing equipment, study vault expansion option, replace existing 10" flow control valves.
- Details of vaults and connection to existing water mains
- Review and coordinate Electrical design plans and specifications with Cannon.
- Traffic Control Plans per City of Glendale requirements
- Coordination with City of Glendale Department of Public Works
 - o Design requirements relative to pavement replacement, backfill requirements, water discharge BMPs and traffic control.
 - o Excavation Permit – Submittal and preliminary approval. Contractor will obtain the final permit. CVWD will pay all permit fees.
- Coordination with the California Department of Transportation
 - o Additional permitting for construction adjacent to a freeway crossing, (if required).
- Coordination with Southern California Edison (SCE) for upgrade of the electrical meter
- Project Front-end Specifications provided by CVWD
- Project Special and Technical Provisions. Sample provided by CVWD
- Bidding Schedule and Engineer's construction cost estimate.
- Project Schedule for design phase and estimated construction schedule
- Construction services for bidding & shop drawing review. If CVWD needs additional assistance during construction for RFI's, CVWD will request a separate proposal.

Deliverables:

- Prepare 100% submittal and final submittal of construction drawings and specifications for both the PRV and vault construction as well as upgrades to the RMS.

Project Meetings - Attendance at least five (5) design and bidding project meeting

- o Kick-off Meeting
- o Community Outreach Meeting (Design Consideration)
- o 50% Submittal for Pressure Reducing Station and Ramsdell Mixing Station construction.
- o 90% Submittal for Pressure Reducing Station and Ramsdell Mixing Station construction.
- o Final Submittal
- o Pre-Bid Meeting

Project Schedule:

<u>Task</u>	<u>Date</u>
Pre-Proposal Meeting – Video Conference	April 21, 2021
Proposal Due	May 3, 2021
Award of Contract	May 25, 2021
Kick Off Meeting	June 2, 2021
50% Design Submittal and Review	May 26 – July 15, 2021
90% Design Submittal and Review	July 15 – August 19, 2021
Permitting (City of Glendale)	July 15 – August 26, 2021
Public Outreach (Design Consideration)	July 22, 2021
Board Approval – Advertisement for Bids	September 7, 2021
Pre-Bid Meeting	September 22, 2021
Bid Opening	October 13, 2021
Board Approval – Award of Contract	October 26, 2021
Public Outreach (Contractor/Inspector meet the Public)	November 4, 2021
Preconstruction Meeting	November 11, 2021
Start Construction	November 15, 2021
End Construction	June 14, 2022

PROPOSAL REQUIREMENTS:

Scope of Work

The proposal shall include a detailed list itemizing the tasks required to complete the scope of work addressing all project criteria outlined above. Each task shall include a detailed estimate of man-hours required to complete each task.

Proposal Fee Schedule

The proposal shall include a "Fee Schedule" outlining all applicable hourly rates and costs for services. The proposal shall provide a breakdown of fees associated with the project task as specified above. The proposal shall also include a "not-to exceed" total fee, which shall include all work necessary to complete the project objective.

Schedule

The proposal shall include a proposed project schedule detailing the time of completion for design and permitting. The schedule shall include the number of calendar days required to perform each task and the total number of calendar days required to complete the entire project.

Project Experience

The proposal shall include description of comparable pipeline projects completed by consultant including experience working with the City of Glendale and Los Angeles County within past three (3) years including: 1) names, addresses, and phone numbers of project managers, 2) date completed, location of work, and the name and address of the agency or firm for whom the project was constructed.

Consultant's Representative

The proposal shall name a responsible representative, an alternate, and all sub-consultants to perform the assigned tasks. The chosen consultant's representative will remain responsible and in charge of all duties from contract negotiations through project completion. If the primary representative is unable to continue with the project, then the alternate representative will become the primary representative. The District must approve any other changes in responsible representative, in advance. The District will have the right to reject other proposed changes in personnel and may consider any other changes in responsible personnel a breach of contract.

Professional Service Agreement

The chosen consultant shall be responsible for completing the specified services in accordance with the District's standard "Professional Services Agreement," which will be prepared by the District. Services specified in this agreement shall be taken directly from the consultant's accepted proposal and from this "Request for Proposal", if applicable.

Insurance Requirements

The District will require employer's liability, comprehensive commercial liability insurance, and errors and omissions insurance coverage for at least \$2,000,000 and comprehensive automobile liability for at least \$1,000,000. The District requires that the District be named as additional insured on the policy and such insurance policy shall not be terminated or canceled without thirty (30) days prior written notice to the District.

District Reimbursements

The District normally reimburses consultants for the actual cost (plus 15%) for all outside expenses, including those for material costs authorized in advance by the District. Other reasonable expenses will be reimbursed where such costs have been advanced by consultant and approved by the District.

The chosen consultant shall not be compensated for use of computers, office equipment, hardware, or software materials. Said costs are not compensated and time expended by consultant's personnel on such equipment is included within the hourly rate as shown on the consultant's fee schedule.

District Responsibilities:

District will provide the following to assist the selected consultant with the project and its completion:

- Topographic survey and right-of-way mapping prepared by DMc Engineering.
- Electrical plans prepared by Cannon Corp.
- Geographic information system (GIS) information and topographic surveys as available.
- Reports, plans, and drawings, as available and pertinent to the proposed plan.
- Design criteria, preferred manufacturer's information, and other technical information, as available and pertinent to the project.
- Current operational condition and performance of existing infrastructure pertinent to the proposed plan.

Proposal Due Date:

Please submit one (1) copy of the proposal as a PDF file via e-mail by 12:00 pm by May 3, 2021 to byared@cvwd.com. Send three (3) copies of the proposal to the attention of Mr. Brook Yared, Engineering Manager at Crescenta Valley Water District, 2700 Foothill Boulevard, La Crescenta CA 91214. If you have any questions or comments, contact Mr. Yared at 828-236-4117.

Crescenta Valley Water District

Professional Engineering Services for Design of a New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station, Project E-977

Consultant Ranking

Ranking	Weighted Percent	Cannon		Tetra Tech		MKN		DMC Engineering		SWCA	
		Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score
Proposal - Project Concept & Scope of Work	30%	4.5	1.35	4.8	1.43						
Project Experience	30%	4.8	1.43	4.8	1.43						
Project Team Qualifications	20%	3.8	0.75	4.0	0.80						
Coordination with Agencies	10%	4.8	0.48	4.5	0.45						
Consultant's Fee	10%	4.8	0.48	2.8	0.28						
Final Weighted Score	100%		4.48		4.38						
Total			\$89,868		\$179,600		\$0		\$0		\$0

Each consultant's proposal rated 1 - 5 (5 outstanding - 3 average - 1 unsatisfactory) on each category above. Each rating is multiplied by the weighted average for each category and totaled for the final weighted score.

Categories:

Project Concept & Scope of Work - How well the consultant's proposal addressed the needs of the District as outlined in the request for proposal & how well the consultant showed how its firm would complete the project

Project Experience - How much previous experience has the consultant on projects similar to this project

Project Team Qualifications - How did the consultant's proposal use its staff and the experience of the individual people involved

Consultants Fee - How well the consultant's proposal utilized their staff and the costs associated with the proposal

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 2
May 18, 2021

To: Engineering Committee
From: David S. Gould, P.E. – Director of Engineering
Subject: Discussion of FY 21/22 Capital Improvement Project Budget and Consultants

BACKGROUND:

Staff has been discussing the draft FY 21/22 Capital Improvement Project (CIP) budget with respect to the Long-Term Infrastructure and Funding Roadmap, including future financing through bonds and/or PayGo. Budgeting and financing of the FY 21/22 Capital Improvement Project has been discussed in-depth at Finance Committee meetings, Engineering Committee meetings and Board of Director meetings. The Board has tentatively agreed to the FY 21/22 CIP budget, and the schedule presented will be to finalize the budget and proposed water rate increase in October 2021.

DISCUSSION:

There are several CIP projects that need the assistance of outside consultants to begin design services so that construction could start earlier this year (October or November 2021) instead of starting after January 2022 as shown in the projects listed below:

1. Design consultant for the new pipelines on the 2800 to 3100 Blocks of Los Olivos; 3200 Block of Alabama 4700 & 4800 Blocks of Cheryl & 3300 Block of Thelma St.
2. Design consultant for the steel reservoir rehabilitation at Edmund #2.
3. Design consultant for the replacement of SCADA communication radio network
4. Design consultant for the replacement of SCADA Equipment, Programming & Integration
5. Consultant to assist operations staff with conversion, monitoring and standard operating procedures for the conversion to chloramines.
6. Consultant to prepare the Wastewater Master Plan, including Wastewater Treatment Plant Feasibility Study.

Staff will be preparing request for proposals (RFP) for each of these projects within the next few weeks and sending the RFP's out to consultants. Staff is planning to bring to future Board meetings the consultant award of contract for approval. The RFP will also include a statement that the District can stop design if the final CIP budget is revised, or the specific project is cancelled. Staff is estimating about \$100,000 to \$150,000 of consulting fees will be spent prior to the October 2021 approval of the CIP budget.

RECOMMENDATION:

Staff is recommending to the Engineering Committee that staff move forward with preparing and awarding design consultant contracts prior to the final adoption of the FY 21/22 CIP Budget.

Prepared & Submitted by:



David S. Gould, P.E.
Director of Engineering

Crescenta Valley Water District

FY 21/22 Capital Improvement Project Priority List

Capital Improvement Project Program	Budget FY 21/22	Category	Bond (B) or PayGo (P)	Cumulative Estimated Costs	Completion Date	Project Description
Bond Proceeds						
Annual Pipeline Replacement - 5,450 LF	\$ 1,795,326	Water Distribution	B	\$ 1,795,326	Jun-22	Pipeline Replacement - 2800 to 3100 Blocks of Los Olivos; 3200 Block of Alabama, 4700 & 4800 Blocks of Cheryl & 3300 Block of Thema - Total 5,450 LF; 69% Bond Funding
Bond Proceeds Subtotal	\$ 1,795,326					
Pay-Go						
Annual Pipeline Replacement - 5,450 LF	\$ 804,674	Water Distribution	P	\$ 804,674	May-22	Pipeline Replacement - 2800 to 3100 Blocks of Los Olivos; 3200 Block of Alabama 4700 & 4800 Blocks of Cheryl & 3300 Block of Thema - Total 5,450 LF; 31% Pay-Go Funding
Steel Reservoir Rehabilitation - Edmund #2	\$ 590,000	Water Storage	P	\$ 1,394,674	Mar-22	Reservoir Rehabilitation - Structural repairs and re-coating at Edmund #2 Reservoir during low demand (Winter) season
Well 14 Rehabilitation	\$ 105,000	Water Supply	P	\$ 1,499,674	Jan-22	Well Rehabilitation - Remove & Inspect Well Pump & Casing, Chemical Treatment Well Casing, Pump Test, New Pump & Motor
PRS - Zone 2 to Zone 1/Upgrade - Ramsdell Mixing Station	\$ 728,000	Water Distribution	P	\$ 2,227,674	Jun-22	New Pressure Reducing Station & Upgrade Ramsdell Mixing Station - <u>Continuation from FY 20/21</u> - Construction of PRS from Zone 2 to zone 1 & Upgrade to Ramsdell Mixing Station
Replacement - SCADA System	\$ 374,000	Technology	P	\$ 2,601,674	Dec-21	Replacement of SCADA System - <u>Continuation from FY 20/21</u> - Completion of the replacement of RTU/PLC Equipment including new equipment, programing, integration and testing
Replacement - Communication Radio Network	\$ 125,000	Technology	P	\$ 2,726,674	Sep-21	Replacement of SCADA Radio Communication System - <u>Continuation from FY 20/21</u> - Completion to Upgrading Radio System to 5.8GHz radios
AMI - 3/4" to 1" - Smart Meters & AMI Customer Portal	\$ 520,000	Technology	P	\$ 3,246,674	Feb-22	Advanced Metering Infrastructure (AMI) - <u>Continuation from FY 20/21</u> 1) Install 590 3/4" and 1" water meters in Zone 1 2) Install AMI Customer Engagement Portal 3) Install 3" & 4" meters - USBR Grant
Annual Booster Pump Replacement	\$ 53,000	Water Distribution	P	\$ 3,299,674	Jan-22	Booster Pump Replacement - Replace 15-yr and older booster pump with new pump assembly and high efficiency motor - Replace Booster 26 at Cresta Heights Reservoir
Stormwater Recharge CVC Park - Planning	\$ 30,000	Water Supply	P	\$ 3,329,674	Jun-22	Stormwater Recharge - <u>Continuation from FY 20/21</u> - Concept plan, grant funding options and coordination with stakeholders
Disinfection - Conversion to Chloramines	\$ 75,000	Water Treatment	P	\$ 3,404,674	Dec-21	Disinfection Changeover - Utilizing a consultant to assist operations staff with conversion, monitoring and standard operating procedures
Pay-Go Subtotal	\$ 3,404,674					
Total CIP	\$ 5,200,000					

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 3
May 18, 2021

To: Engineering Committee
From: David S. Gould, P.E. – Director of Engineering
Subject: **Project Update – May 2021 - FY 20/21 Water Capital Improvement Program**

BACKGROUND:

The Board approved the FY 20/21 Water Budget at the June 9, 2020 meeting with \$2.3M available for CIP projects. The Board also agreed to pursue refinancing CVWD's existing bond debt and requesting additional funding, totaling \$5M available for FY 20/21 CIP. The \$5M Bond process was completed on September 15, 2020.

DISCUSSION:

The following is the **May 2021** update of the progress and schedule for the FY 20/21 CIP projects. Project costs are shown on the attached Updated Project Cost Summary:

1. **Steel Reservoir Rehabilitation – Rosemont Reservoir** – This project is for the structural repairs and re-coating of the reservoir interior to maintain the District's water storage capacity and to increase the life expectancy of the steel tank.
Progress: Harper and Associates Engineering (Harper) and staff completed the design, and the project was awarded to Crosno Construction.
Project Schedule: On Schedule
 - May 2021 – Filling Reservoir & WQ testing; Reservoir to be back in service by 5/24/21.
2. **Annual Pipeline Replacement** – This project is for the replacement of steel pipelines that are at least 50-years old or older in a timely manner.
 - A. **Project 1 & 2:** Replacement of 4-inch & 6-inch pipelines on the 2400 & 2500 Blocks of Janet Lee (Project 1), and the 4300 Block of Rosemont (Project 2).
Progress: Staff completed design, and project was awarded to Brkich Construction.
Project Schedule: On Schedule
 - Project 1 – 2400 & 2500 Blocks of Janet Lee – Final Paving – Complete by 5/21/21
 - Project 2 – 4300 Block of Rosemont - 90% complete; Complete by 5/31/21
 - B. **Projects 3:** Replacement of 8-inch pipeline on the 3400 & 3500 Blocks of Encinal (Project 3)
Progress: Civiltec and staff completed the design and project awarded to T.E. Roberts Const.
Project Schedule: On Schedule
 - May 2021 – Complete
 - C. **Projects 4:** Replacement of 4-inch, 6-inch & 8-inch pipelines on the 4800 Block of Dyer, 2800 Block of El Caminito, 4800 Block of Glenwood, 2800 Block of Stevens and 2700 Block of Paraiso Way (Project 4).
Progress: Civiltec and staff completed the design and project was awarded to Brkich Construction.
Project Schedule: On Schedule
 - May 24, 2021 – Begin Construction
 - July 2021 – Anticipate work to be completed.

3. **Local Hazard Mitigation Plan** - CVWD awarded a grant from Cal OES and FEMA to prepare a Local Hazard Mitigation Plan (LHMP) to address high priority hazards related to its water and sewer systems during a drought, energy shortage/outage, wildfire, earthquake, terrorism or cyber-attack. The total grant amount to prepare a local hazard mitigation plan is \$165,000, with \$125,000 grant funding from FEMA and \$40,000 funding from CVWD.

Progress: Steering Committee Meeting #8 on 6/09/21 and information updated regularly on CVWD's website.

Project Schedule: On Schedule

- May 28, 2021 – Draft review by CVWD
- June 8 – June 22, 2021 – Public Comment Period
- July 2021 – LHMP submitted to Cal OES.
- September 2021 – Grant Applications due

4. **New Emergency Generator at La Granada Sewer Lift Station** – Installation of a new emergency electrical generator at the sewer lift station.

Progress: Cannon and staff have completed the design and project was awarded to Affordable Generator Services.

Project Schedule: Behind Schedule

- May 2021 – Working with LA County Parks & Recreation Dept & LCF on license agreement.
- August 2021 – Anticipated delivery date for emergency generator & begin construction.

5. **Advanced Metering Infrastructure (AMI) Program** – This project has two (2) components: 1) replacement of ¾" & 1" meters with new Sensus iPERL "Smart Meters" in Pressure Zones 1 & 2, and 2) installation of the AMI network communication system.

Progress: Field crews have replaced around 493 ¾-inch & 1-inch, water meters for FY 20/21. Esource completed the RFQ, and the contract was awarded to Aqua Metric for the AMI network communication system.

Project Schedule: On Schedule

- April 2021 – Completed AMI network communication system & installation of 100 meters.
- May to July 2021 – Analysis of data and incorporating into customer billing system.
- May 2021 – Discussion of Customer Engagement Platform with staff.
- June 2021 – Finalize Opt-Out policy for Board approval.

6. **Groundwater Well Rehabilitation** – This project is for the rehabilitation of Well 12, which was last rehabilitated in 2010.

Progress: The project design is complete, and the contract was awarded to Legend Pump.

Project Schedule: On Schedule

- May 2021 – Completed well casing cleaning and installation of new pump.
- June 2021 – Water quality testing and put back into service.

7. **Replacement of SCADA Communication Radio Network** – CVWD has an existing radio communication network that operates on the 900 MHz radio frequency. In the past year, the radio system has seen interference with other communication devices, and the equipment, which was installed 7 years ago, is nearing the end of its useful life and has been malfunctioning.

Progress: Award contract to Systems Integrated to prepare SCADA radio feasibility study (Study).

Project Schedule: On Schedule

- May 2021 – Finalize SCADA radio feasibility study.
- June 2021 – Send out Request for Quote to replace Radio Communication System.

8. **New Pressure Reducing Valve (PRV) Station & Upgrade Ramsdell/Mayfield Mixing Station** – This project includes installing a new PRV station near the intersection of Mayfield Ave. and Ramsdell Ave. and upgrading the Ramsdell/Mayfield Mixing Station. The new PRV Station is needed to provide water from Zone 2 to Zone 1 when Encinal Reservoir and the Ramsdell/Mayfield Mixing Station are out of service. To meet the current FY 20/21 CIP schedule, staff will need assistance from a consulting firm to complete the specifications and advertise for bids.
- Progress:** Staff completed Request for Proposal (RFP).
- Project Schedule:** On Schedule
- May 2021 – Award of Consulting Contract – See staff report.
 - October 2021 – Advertise for Bids.
9. **Replacement of Supervisory Control and Data Acquisition (SCADA) System Upgrade** – CVWD has an existing SCADA system with RTU/PLCs that were installed at each of the District's facilities in 1996 that provides information on the status of the water system, controls for booster pump operation, and relays alarms to the System Operators. The upgraded SCADA system will include upgrading equipment, programing, and integration based on industry standards, which can be repaired and/or replaced by various consultants/contractors.
- Progress:** Staff is currently working on an assessment of the existing equipment and programing to prepare a request for proposal with a scope of work for a consulting firm.
- Project Schedule:** Behind Schedule.
- May 2021 – Continued working on Request for Proposal (RFP).
 - June 2021 – Review project with Engineering Committee.
10. **Stormwater Recharge Program** - Stormwater Recharge Project at Crescenta Valley County Park (CVC Park) includes the design and installation of a stormwater infiltration system within CVC Park that will direct stormwater from the Verdugo Wash into infiltration galleries for groundwater recharge. The focus will be to coordinate with the City of Los Angeles on stormwater rights.
- Progress:** Sent a letter outlining the project and water rights to discuss further with LADWP.
- Project Schedule:** On Schedule
- May 2021 – Staff met with LADWP, looking into alternatives.
 - June 2021 – Presentation to Engineering Committee on status of project.
11. **Rehabilitation Surge Tank at Glenwood** – This project is the rehabilitation of the surge tank at the Glenwood Operations Facility. A preliminary design was completed in 2017.
- Progress:** Project put on hold
12. **16-inch Manifold and Valve Replacement at Oak Creek Reservoir** – CVWD's operations staff observed a leak on the underside of the existing inlet/outlet pipeline manifold that joins Oak Creek #1 and #2 reservoirs. The inlet/outlet manifold was installed 1961 and is a critical junction point as it allows influent water to fill each reservoir.
- Progress:** Complete.
13. **Annual Booster Pump Replacement** – This project was originally planned to replace Markridge Booster 25. However, Booster B at Paschall was shut down due to what appears to be mechanical failure. Staff is working with the pump contractor that replaced the pump in 2018 to remove and replace the pump.
- Progress:** Complete

14. **Facility Improvement Program** – This project is for the installation of a new roof on the existing 70 ft diameter concrete reservoir at Encinal for material and equipment storage. Staff will be preparing an RFP for a consulting firm to perform the structural design of the new roof.

Progress: Complete – Project put on hold.

SUMMARY:

In summary, many of the FY 20/21 CIP projects are either under design or under construction. Attached for review is a summary of project costs including costs spent to date, cost committed to for the remainder of the year, and the total cost for each project.

Prepared & Submitted by:

A handwritten signature in blue ink, appearing to read 'D. Gould', is written over a horizontal line.

David S. Gould, P.E.
Director of Engineering

Attachment: FY 20/21 Capital Improvement Project Program - Cost Update: 5/17/21

FY 20/21 Capital Improvement Project Program Cost Update: 05/17/21	Recorded FY 19/20	Budget FY 20/21	<u>FY 20/21</u> Cost to date from 7/1/20 to 04/30/21	<u>FY 20/21</u> Cost Committed from 5/1/21 to 6/30/21	Projected FY 20/21
Capital Improvement Project Summary					
1. Water Supply	\$ 300,375	\$ 170,000	\$ 67,026	\$ 114,080	\$ 181,106
2. Water Storage	\$ 498,530	\$ 480,000	\$ 136,421	\$ 499,127	\$ 635,548
3A. Water Distribution - Pipeline	\$ 1,126,030	\$ 2,300,000	\$ 849,349	\$ 1,571,151	\$ 2,420,500
3B. Water Distribution - Other	\$ 10,892	\$ 710,000	\$ 128,153	\$ 108,016	\$ 236,169
4. Water Treatment	\$ 469,205	\$ -	\$ 54,073	\$ -	\$ 54,073
5. Technology	\$ 152,597	\$ 1,070,000	\$ 301,337	\$ 430,663	\$ 732,000
6. Public Safety/Emergency Response	\$ 5,810	\$ 165,000	\$ 62,785	\$ 102,215	\$ 165,000
7. Facilities & Planning	\$ -	\$ 105,000	\$ 1,555	\$ -	\$ 1,555
Capital Improvement Projects - Total	\$ 2,563,438	\$ 5,000,000	\$ 1,600,700	\$ 2,825,252	\$ 4,425,951
Bond Financing - CIP	\$ -	\$ 2,695,174	\$ 1,191,460	\$ 2,013,214	\$ 3,204,674
Water Fund Financing - CIP	\$ 2,563,438	\$ 2,304,826	\$ 409,240	\$ 812,037	\$ 1,221,277
Total Financing - CIP	\$ 2,563,438	\$ 5,000,000	\$ 1,600,700	\$ 2,825,252	\$ 4,425,951

FY 20/21 Capital Improvement Project Program Cost Update: 05/17/21		Recorded FY 19/20	Budget FY 20/21	FY 20/21 Cost to date from 7/1/20 to 04/30/21	FY 20/21 Cost Committed from 5/1/21 to 6/30/21	Projected FY 20/21
1. Water Supply						
A. Groundwater Water Supply						
i. Well Rehabilitation						
	Well 7 Rehabilitation	\$ 102,696				
	Well 16 Rehabilitation	\$ 103,713				
	Well 11 Rehabilitation	\$ 14,694	\$ -	\$ 56,106	\$ -	\$ 56,106
	Well 12 Rehabilitation		\$ 95,000	\$ 8,385	\$ 86,615	\$ 95,000
ii. New Wells						
	Re-Activate Well 2 - Construction	\$ 79,272				
iii. Groundwater Basin Recharge						
	Stormwater Recharge Project at CVC Park - Planning		\$ 75,000	\$ 2,535	\$ 27,465	\$ 30,000
WS Total		\$ 300,375	\$ 170,000	\$ 67,026	\$ 114,080	\$ 181,106
2. Water Storage						
A. Reservoir Rehabilitation						
i. Steel Reservoir Re-Coating/Roof/Vents Rehabilitation						
	Markridge	\$ 498,530	\$ -	\$ 367	\$ -	\$ 367
	Rosemont		\$ 480,000	\$ 80,873	\$ 499,127	\$ 580,000
	Oak Creek - 16" Manifold Repair		\$ -	\$ 55,181	\$ -	\$ 55,181
WS Total		\$ 498,530	\$ 480,000	\$ 136,421	\$ 499,127	\$ 635,548
3. Water Distribution						
A. Pipeline Replacement						
	3200 & 3300 Blocks of Brookhill	\$ 623,009				
	4700 & 4800 Block of Pennsylvania	\$ 503,021				
	Project 1		\$ 538,000	\$ 174,408	\$ 388,343	\$ 562,750
	Project 2		\$ 280,000	\$ 20,205	\$ 284,545	\$ 304,750
	Project 3		\$ 707,000	\$ 491,468	\$ 258,532	\$ 750,000
	Project 4		\$ 775,000	\$ 163,268	\$ 639,731	\$ 803,000
	Annual Pipeline Replacement		\$ 2,300,000	\$ 849,349	\$ 1,571,151	\$ 2,420,500
C. Booster Pump System						
i. Annual Pump /Motor Replacement						
	Boosters - Glenwood 32 & 33	\$ 4,384	\$ -	\$ 85,951	\$ -	\$ 85,951
	Booster Replace - Booster B at Paschall		\$ 75,000	\$ 20,218	\$ -	\$ 20,218

FY 20/21 Capital Improvement Project Program Cost Update: 05/17/21		Recorded FY 19/20	Budget FY 20/21	<u>FY 20/21</u> Cost to date from 7/1/20 to 04/30/21	<u>FY 20/21</u> Cost Committed from 5/1/21 to 6/30/21	Projected FY 20/21
D. Pressure Reducing Stations						
	PRS - Zone 2 to Zone 1	\$ 6,508	\$ 150,000	\$ 21,984	\$ 58,016	\$ 80,000
i. Water Surge Control						
	Rehabilitation Surge Tank at Glenwood		\$ 35,000	\$ -	\$ -	\$ -
iii. Misc.						
	Upgrade - Ramsdell Mixing Station	\$ -	\$ 450,000	\$ -	\$ 50,000	\$ 50,000
WD Total		\$ 1,136,922	\$ 3,010,000	\$ 977,502	\$ 1,679,166	\$ 2,656,669
4. Water Treatment						
C. Disinfection - Convert to Chloramines						
	Conversion to Chloramination	\$ 469,205	\$ -	\$ 54,073	\$ -	\$ 54,073
WT Total		\$ 469,205	\$ -	\$ 54,073	\$ -	\$ 54,073
5. Technology						
A. Automated Meter Information (AMI) System						
	AMI - 3/4" to 1" - Smart Meters	\$ 83,590	\$ 50,000	\$ 45,954	\$ 54,546	\$ 100,500
	AMI - Communication		\$ 150,000	\$ 159,736	\$ 141,764	\$ 301,500
B. Supervisory Control and Data Acquisition (SCADA)						
	Communication Radio Network		\$ 260,000	\$ 6,677	\$ 123,323	\$ 130,000
	SCADA Replacement - Design	\$ 69,007				
	SCADA Replacement - Installation		\$ 610,000	\$ 88,970	\$ 111,030	\$ 200,000
TECH Total		\$ 152,597	\$ 1,070,000	\$ 301,337	\$ 430,663	\$ 732,000
6. Public Safety/Emergency Response						
	Dunsmore/Pickens - Seismic Sensors	\$ 5,810				
D. Miscellaneous						
	FEMA Local Hazard Mitigation Plan		\$ 165,000	\$ 62,785	\$ 102,215	\$ 165,000
SF/ER Total		\$ 5,810	\$ 165,000	\$ 62,785	\$ 102,215	\$ 165,000
7. Facilities & Planning						
	Roof for Old Encinal - Storage Bldg		\$ 105,000	\$ 1,555	\$ -	\$ 1,555
F & P Total		\$ -	\$ 105,000	\$ 1,555	\$ -	\$ 1,555
Capital Improvement Projects - Total		\$ 2,563,438	\$ 5,000,000	\$ 1,600,700	\$ 2,825,252	\$ 4,425,951