

AGENDA

**ENGINEERING COMMITTEE MEETING
LEUCADIA WASTEWATER DISTRICT**

Wednesday, July 6, 2022 – 10:30 a.m.
Via Teleconference

Pursuant to the State of California Executive Order N-29-20, and in the interest of public health, the District is temporarily taking actions to mitigate the COVID-19 pandemic by holding meetings by teleconference. The general public may not attend this meeting at the District's office due to social distancing requirements.

Members of the public attending via teleconference will be provided with an opportunity to comment on each agenda item prior to Committee discussion.

To join this meeting via Teleconference, please dial: 1-669-900-6833

Meeting ID: 824 7077 3513

Password: 806778

1. Call to Order

2. Roll Call

3. Public Comment

4. New Business

A. Authorize the General Manager to execute a sole source three-year base professional services agreement with Dexter Wilson Engineering, Incorporated for District Engineer Consulting Services in an amount not to exceed \$360,000 with an option for two additional years. (Pages 3 - 11)

B. Asset Management Plan Update: Authorize the General Manager to execute a sole source Engineering Services contract to update the District's Asset Management Plan with Dexter Wilson Engineering, Incorporated in an amount not to exceed \$127,146. (Pages 12 - 22)

C. Village Park No. 7 Replacement Project Award:
Recommendation 1: Authorize the General Manager to execute a change order to the Contract to construct the Encinitas Estates Pump Station Replacement Project with Pacific Hydrotech Corporation for the construction of the Village Park No. 7 Pump Station Replacement Project in an amount not to exceed \$795,500.

Recommendation 2: Waive the requirements of Section 8, Formal Procurements for Goods, Construction Services and Other Services (\$60,000.10 and over), of the Procurement Policy as allowed under Section 3.9.

Recommendation 3: Authorize an additional appropriation of \$275K for project construction to cover construction costs and a 10% contingency. (Pages 23 - 24)

5. **Information Items**
 - A. Development Projects Summary (Pages 25 - 26)
6. **Directors' Comments**
7. **General Manager's Comments**
8. **Adjournment**

MEMORANDUM

DATE: June 30, 2022
TO: Engineering Committee
FROM: Paul J. Bushee, General Manager 
SUBJECT: Professional Services Agreement with Dexter Wilson Engineering, Incorporated for Engineering Consulting Services

RECOMMENDATION:

Staff requests that the Engineering Committee (EC) recommend that the Board of Directors:

1. Authorize the General Manager to execute a sole source three-year base professional services agreement with Dexter Wilson Engineering, Incorporated for District Engineer Consulting Services in an amount not to exceed \$360,000 with an option for two additional years.
2. Discuss and take other action as appropriate.

DISCUSSION:

The District Engineer is a critical consultant position that integrates with staff to address and resolve engineering issues related to the Capital Improvement Program, asset management, development and daily collection systems operations and maintenance. Dexter Wilson Engineering, Incorporated (DWEI) has provided the services of District Engineer over the past five years. Specifically, Dexter Wilson performs the duties as District Engineer with the DWEI staff providing support as required. To maintain continuity, staff requests authorization for the General Manager to execute a sole source professional services agreement with DWEI for a three year base period, from July 1, 2022 to June 30, 2025, with an option to extend the agreement for two additional years.

In the past, DWEI has provided engineering consultant services to the District such as developing, updating and annually auditing the Sewer System Management Plan (SSMP); developing and updating the Asset Management Plan; evaluating Capital Improvement Projects plans and specifications; supporting collection system operations and maintenance; and providing Development services. Through their experience, DWEI has gained a unique working knowledge and technical expertise regarding District infrastructure and the operation and maintenance of our collection system. Additionally, they have provided these services in an excellent manner. Therefore, it is in the best interest of the District that DWEI continues as District Engineer. For these reasons, the sole source procurement of the District Engineer services satisfies the criteria for sole sourcing allowed under Section 11.1, Sole Source Procurement, of the District's Procurement Policy. Therefore, staff is recommending that the Board approve the District Engineer contract on a sole source basis.

Attached is a summary of the scope of work and DWEI's proposal for District Engineer services for your review. The tasks include services that support District Engineering, Capital Improvement Program and development functions.

The proposed annual fee for DWEI services is \$120,000 per year for a total of \$360,000 over the initial three-year agreement period. Sufficient funds to cover these services for Fiscal Year 2023 are included in the FY 2023 budget and will be budgeted in succeeding years. Therefore, staff requests that the Board of Directors authorize the General Manager to execute a sole source three-year professional services agreement with DWEI for District Engineer services.

rym:PJB

Attachments

ENGINEERING CONSULTING SERVICES SCOPE OF WORK

Dexter Wilson Engineering, Inc (Consultant) shall provide the following services, which are necessary to continue District Engineering (DE) and Capital Improvement Program Management (CIPM) Consulting Services. General descriptions of the respective consulting services to be provided at the discretion of the District are as follows:

1. District Engineering (DE)

- Provide general Professional Engineering guidance to the District staff and Board of Directors;
- Attend Board Meetings and Engineering Committee Meetings;
- Interface with District Legal Counsel and other District consultants;
- Represent the District in meetings and matters relating to land development, District planning, interagency relations, and other District matters;
- Interface with the general public and District customers;
- Interpret the District's standard specifications and policies as related to engineering issues;
- Complete other tasks as directed.

2. Capital Improvement Program Management (CIPM)

- Assist with technical review of CIP projects;
- Attend CIP project review and scheduling meetings;
- Attend contractor pre-bid meetings and bid openings, as requested by the District;
- Provide contractor construction bid evaluations;
- Assist District with preparation, distribution and advertisement of District RFP's;
- Assist the District with long range planning and implementation of the Wastewater CIP;
- Complete other tasks as directed.

3. Development Plan Checking and Construction Inspection

- Conduct development plan checking, construction inspection of development projects, and miscellaneous development related work as requested by District and as-needed. All work conducted by Developers shall be funded by Developer deposits to the District. Expenses and invoicing shall be tracked by District Location Codes for each development task.

The DE and CIPM services shall be billed and tracked on a time and materials basis with initial estimated limits of approximately \$70,000 and \$50,000, respectively, for each component. The DE and CIPM budgets augment each other, only as necessary, and to the extent that the total initial annual fee authorization of \$120,000 is not exceeded without further District authorization. Development Plan Checking and Construction Inspection shall be billed and tracked on a time and materials basis as-needed, as funded by Developers, and as-authorized by the District.

The hourly billing rate for DWEL's services will be maintained for the first three years of the contract. The hourly rates will be reviewed with mutually acceptable consideration given to adjustment after the initial three years upon exercise of the option to renew or extend the agreement for two (2) additional years.

Expended-to-date and projected fees will be reviewed by Consultant with the District on a monthly basis at the time of invoicing.

DEXTER WILSON ENGINEERING, INC.

DEXTER S. WILSON, P.E.
ANDREW M. OVEN, P.E.
NATALIE J. FRASCHETTI, P.E.
STEVEN J. HENDERSON, P.E.
FERNANDO FREGOSO, P.E.
KATHLEEN L. HEITT, P.E.

June 21, 2022

103-000

Leucadia Wastewater District
1960 La Costa Avenue
Carlsbad, CA 92009

Attention: Paul Bushee, General Manager

Subject: Proposal for District Engineering Services for FY2022/23 – 24/25

We are pleased to provide the Leucadia Wastewater District with the following proposal for engineering services. The work, as further described in the Scope of Services below, consists of providing District Engineering Services, which include attending Board and Engineering Committee meetings, assisting with management of the Capital Improvement Program, and performing development driven tasks.

The detailed scope of services is provided below. Exhibit "A" provides a summary of the scope as well as an estimate of hours and costs by task which total to \$120,000. The hours spent on each task are an estimate of what will be requested by the General Manager and are subject to change. Exhibit B presents the schedule of rates for Dexter Wilson Engineering, Inc. We propose to maintain these rates for the District for a three year period. As such, the total amount of this proposal is for \$360,000 to provide District Engineering Services for FY 2022/23, FY 2023/24, and FY 2024/25.

SCOPE OF SERVICES

Task 1 – District Engineering

- a. Provide general Professional Engineering guidance to the District staff and Board of Directors;
- b. Attend Board Meetings and Engineering Committee Meetings;
- c. Attend weekly Staff Meetings;
- d. Interface with District Legal Counsel and other District consultants;
- e. Represent the District in meetings and matters relating to land development, District planning, interagency relations, and other District concerns;
- f. Interface with the general public and District customers;
- g. Interpret the District's standard specifications and policies as related to engineering issues;
- h. Complete other tasks as directed by the General Manager.

Task 2 – Capital Improvements Program Management

- a. Assist with technical review of CIP projects;
- b. Attend CIP project review meetings;
- c. Attend contractor pre-bid meetings and bid openings, as requested by the District;
- d. Review contractor construction bid evaluations;
- e. Assist District with preparation, distribution and advertisement of District RFP's;
- f. Assist the District with long range planning and implementation of the Wastewater CIP;
- g. Complete other tasks as directed by the General Manager.

Paul Bushee
June 21, 2022
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Task 3 – Development Plan Checking and Construction Inspection

- a. Conduct development plan checking and miscellaneous development related work as requested by the General Manager. All work conducted by Developers shall be funded by Developer deposits to the District. Expenses and invoicing shall be tracked by District Location Codes for each development task.
- b. Provide Construction Inspection for Developer projects.

PERSONNEL

Dexter S. Wilson, P.E. shall be the primary person providing District Engineering Services. If Mr. Wilson is unable to attend meetings then Natalie Frascchetti, P.E. or Kathleen Heitt, P.E. will attend in his place. Natalie Frascchetti and Kathleen Heitt will coordinate the services for the Capital Improvement Program and Development tasks.

COMPENSATION

Work completed under this contract will be billed on a monthly basis. Fees will be calculated on an hourly rate basis by multiplying the actual hours worked on the tasks in each classification by the rates in the schedule attached as Exhibit "B". These rates are valid for three years.

QUALIFICATIONS

Dexter S. Wilson will provide the services described above. Mr. Wilson is a Registered Civil Engineer in California and graduated from Stanford University with a Bachelor of Science in Chemistry, and from the University of Arizona with a Master of Science in Civil Engineering.

Paul Bushee
June 21, 2022
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Natalie J. Frascchetti will assist with the services described above. Ms. Frascchetti is a Registered Civil Engineer in the State of California and graduated from the University of Florida with a Bachelor of Science degree in Environmental Engineering Sciences.

Kathleen L. Heitt will provide the services described above. Ms. Heitt is a Registered Civil Engineer in California and graduated from the University of California, Davis with a Bachelor of Science degree in Civil Engineering.

Thank you for the opportunity to provide a proposal on this project. If this proposal meets your approval, please prepare a contract in your format for our signature.

Respectfully submitted,

Dexter Wilson Engineering, Inc.



Dexter S. Wilson, P.E.

DSW:ps

Attachments

EXHIBIT A
SUMMARY OF ESTIMATED HOURS AND COST

Task	Description	Estimated Professional Hours	Hourly Rates	Professional Costs \$
1	District Engineering			
1a	Provide general Professional Engineering guidance to the District staff and Board of Directors	36	213	7,668
1b	Attend Board Meetings and Engineering Committee Meetings	50	213	10,700
1c	Attend weekly Staff Meetings	54	213	11,542
1d	Interface with District Legal Counsel and other District consultants	34	213	7,288
1e	Represent the District in meetings and matters relating to land development, District planning, interagency relations, and other District matters	26	213	5,538
1f	Interface with the general public and District customers	26	213	5,538
1g	Interpret the District's standard specifications and policies as related to engineering issues	14	213	2,982
1h	Complete other tasks as directed by the General Manager	88	213	18,744
	Subtotal	328		\$70,000
2	Capital Improvements Program Management			
2a	Assist with Technical Review of CIP projects	80	180	14,000
2b	Attend CIP project meetings	36	180	6,480
2c	Attend contractor pre-bid meetings and bid openings, as requested by the District	24	180	4,320
2d	Review contractor construction bid evaluations	12	180	2,160
2e	Assist District with preparation, distribution and advertisement of District RFPs	24	180	4,320
2f	Assist the District with long range planning and implementation of the Wastewater CIP	36	180	6,480
2g	Complete other tasks as directed by the General Manager	68	180	12,240
	Subtotal	280		\$50,000

EXHIBIT A
SUMMARY OF ESTIMATED HOURS AND COST

Task	Description	Estimated Professional Hours	Hourly Rates	Professional Costs \$
3	Development Plan Checking and Construction Inspection All work conducted for new development shall be funded by Developer deposits to the District. Expenses and invoicing shall be tracked by District Location Codes for each development task.			
3a	Conduct development plan checking and miscellaneous development related work as requested by the General Manager.		Funded by Development, as necessary	
3b	Provide Construction Inspection.		Funded by Development, as necessary	
	TOTAL	608		\$120,000

DEXTER WILSON ENGINEERING, INC.

**Rate Schedule for
Leucadia Wastewater District**


Effective July 1, 2022 to July 31, 2025

CLASSIFICATION	HOURLY RATE
Office Personnel:	
Planning/Design	
Principal Engineer (RCE)	\$213.00
Managing Engineer (RCE)	\$204.00
Project Engineer (RCE)	\$185.00
Senior Engineer (RCE)	\$161.00
Design Engineer (RCE)	\$137.00
Associate Engineer III (RCE)	\$128.00
Associate Engineer II	\$114.00
Associate Engineer I	\$ 95.00
Engineering Aide II	\$ 90.00
Engineering Aide I	\$ 85.00
Drafting/Design	
Senior Designer	\$123.00
Senior Drafter	\$104.00
Drafter II	\$ 95.00
Drafter I	\$ 85.00
Clerical	\$ 61.00

MEMORANDUM

Ref: 22-8086

DATE: June 30, 2022
TO: Engineering Committee
FROM: Paul J. Bushee, General Manager
SUBJECT: Update of the Asset Management Plan



RECOMMENDATION:

Staff requests that the Engineering Committee (EC) recommend that the Board of Directors:

1. Authorize the General Manager to execute a sole source Engineering Services contract to update the District's Asset Management Plan with Dexter Wilson Engineering, Incorporated in an amount not to exceed \$127,146.
2. Discuss and take other action as appropriate.

DISCUSSION:

The original Asset Management Plan (AMP) was developed by Dexter Wilson Engineering, Incorporated (DWEI) in 2008 and has gone through several updates. DWEI updated the AMP to the current version in 2018. As you may recall, a unique aspect of the AMP is that it developed a methodical approach to analyze, repair, rehabilitated or replace District's assets prior to failure. As a result of implementing the 2018 AMP, Infrastructure Engineering Corporation (IEC) completed an assessment of the District's pump stations in 2019. The results of that assessment were used to identify and define the scope of pump station projects. Additionally, gravity pipeline rehabilitation projects have been completed annually using either the open trench or Cured-in-Place Pipe (CIPP) lining methods of construction. Subsequently, the continued implementation of the AMP resulted in the completion of the following capital improvement projects:

- 2018 Gravity Pipeline Rehabilitation
- 2020 Gravity Pipeline Rehabilitation
- 2021 Gravity Pipeline Rehabilitation
- La Costa Gravity Line Improvements
- Poinsettia Train Station Parallel Gravity Line
- Leucadia Pump Station Rehabilitation
- Encinitas Estates Pump Station Replacement
- B3 Force Main Discharge Section Replacement
- Gafner AWT Improvements

As capital projects are completed, Staff believes it is prudent to update the District's AMP to document the general condition of District assets, recommend capital improvements and provide an estimated cost for the recommended future projects. Typically the AMP is updated on a 5 year cycle. DWEI was asked to provide a proposal to complete the update. The Scope of Services in DWEI's proposal, attached for your review, includes:

1. Update of background information, historic flow data and Equivalent Dwelling Units.
2. Update all asset category chapters (for example gravity lines, pump stations, recycled water facilities, Encina projects, etc.).
3. Utilize the predictive failure model to forecast gravity line estimated future expenditures.
4. Revise pump station and force main expenditures and replacement reports to incorporate completion of recent projects.
5. Review the implementation of the Island Area Master Plan.
6. Prepare a 5-year CIP and 20-year summary of capital expenditures.

DWEI was requested to submit a proposal because: 1) DWEI worked closely with staff to develop the initial AMP and all previous updates; 2) DWEI developed the predictive failure model used for assessing gravity lines and manholes; 3) DWEI has in depth knowledge of the District's operations from their work on developing and auditing the District's Sewer System Management Plan (SSMP); 4) it provides continuity in the AMP process; and 5) it is the most efficient way to update the AMP. Based on these reasons, the procurement of this engineering service with DWEI satisfies the criteria for sole sourcing allowed under Section 11.1, Sole Source Procurement, of the District's Procurement Policy.

The AMP is a District cornerstone document. It was developed as a "living" document which requires updating as part of its implementation. Therefore, staff requests authorization for the General Manager to execute an Engineering Services contract to update the District's AMP with Dexter Wilson Engineering, Inc.

rym:PJB

Attachment

DEXTER WILSON ENGINEERING, INC.

DEXTER S. WILSON, P.E.
ANDREW M. OVEN, P.E.
NATALIE J. FRASCHETTI, P.E.
STEVEN J. HENDERSON, P.E.
FERNANDO FREGOSO, P.E.
KATHLEEN L. HEITT, P.E.

May 23, 2022

103-017

Leucadia Wastewater District
1960 La Costa Avenue
Carlsbad, CA 92009

Attention: Robin Morshita, Director of Technical Services

Subject: 2023 Leucadia Wastewater District Asset Management Plan

Leucadia Wastewater District's previous Asset Management Plan was developed in 2018. A key recommendation in the Asset Management Plan was to build upon the District's enhanced CCTV efforts, which begin in the 2011-2012 timeframe, to develop a process by which structural and operational issues within the gravity sewers were identified and addressed.

The District has established a methodology, has an ongoing list of prioritized repairs, and has replaced or repaired numerous gravity sewer segments as a result. It takes approximately three years to CCTV the District gravity sewers. Because the District now has a robust system in place to identify and prioritize for replacement, use of the predictive failure model for its original intention (to identify potential areas of concern) is no longer relevant. As such, this Asset Management Plan will utilize the 2013 predictive failure model, and subsequent CCTV evaluations, to assist in projecting the estimated timing of expenditures into the future.

In addition to the gravity sewers, the update to the Asset Management Plan will focus on identifying long-term capital expenditures expected for the District's manholes, pump stations, and force main assets in addition to the Gafner Water Reclamation Plant and ownership at Encina Wastewater Authority.

The detailed Scope of Services anticipated for the Asset Management Plan is provided below. Exhibit "A" presents a summary of hours for each task within the Scope of Services. Exhibit "B" presents a summary of costs for each task.

SCOPE OF SERVICES

To revise the Asset Management Plan (AMP), we propose to complete the following tasks.

1. Review and incorporation of District background documents
 - a. SSMP and Subsequent Audits
 - b. Pump Station Inspections
 - c. Financial Plan
 - d. CIP Work
2. Update background information
 - a. Update weather and rainfall section – discuss drought over last few years, wet winter flows, and provide annual rainfall since 2007.
 - b. Note any changes to drainage basins and other existing system components.
3. Update historic flow data and EDUs through June 2022. Confirm that flow and EDU conclusions are still relevant.
 - a. Incorporate historic flow data through June 2022.
 - b. Update EDU percent of buildout by drainage basin.
 - c. Review LWD sub-basin monitoring data for trends.

4. Revise Ultimate EDU projections for the District. This requires review of SANDAG land use information from Cities of Carlsbad and Encinitas to evaluate buildout land uses and EDUs within the District. Discuss impacts of ADU state and local regulations.
5. Hydraulic Modeling – In consultation with District staff, selective hydraulic modeling will be done in areas of interest.
6. Evaluate average sewage factors of 215 gpd/EDU, 250 mg/l BOD, and 250 mg/L TSS using available data from Encina Wastewater Authority quarterly sampling.
7. Update Gravity Sewer Pipeline Recommendations
 - a. Document and evaluate CCTV progress. Specifically, review pipeline and manhole repair priority lists, CIP projects and miscellaneous line repair projects since 2018 AMP. Review CCTV inspection status. Provide CIP and process recommendations.
 - b. Compare CCTV status to 2012 AMP predictive failure model results. Identify areas recommended for focused inspection.
 - c. Identify CIP projects.
8. Update Gravity Sewer Manhole Recommendations. Provide discussion/evaluation of manhole rehabilitation methods based on District experience.
9. Build on CIP projects and SSMP work to update pump station replacement reports, revise pump station expenditures, and incorporate into 5-year CIP and 20-year Capital Expenditures.
10. Regarding Pump Stations, validate pump nameplate capacity information, add estimates of actual pumping rates, flow rates to the station based on EDUs and LWD sub-meters, the design wet well setpoints, actual operating set points, and wet well operational volumes to evaluate pump starts.
11. Update forcemain chapter based on CIP projects since 2018. Identify 5-year CIP and 20-year Capital Expenditures.

12. Update jointly-owned facility chapter based on CIP projects since 2018. Identify 5-year CIP and 20-year Capital Expenditures.
13. Update recycled water facilities chapter based on CIP projects since 2018. Identify 5-year CIP and 20-year Capital Expenditures.
14. Update Encina capital project tables and incorporate into 5-year CIP and 20-Year Capital Expenditures. Provide tables of potential future Encina CIP project implementation schedules.
15. Prepare 5-year CIP and 20-year summary of Capital Expenditures. Compare rate of gravity sewer pipeline replacement recommendations in 2018 AMP to actual CIP projects. Update Predictive Failure Model summaries of total length and cost to replace based on remaining Useful Life.
16. Island Area Master Plan – Document portions of the IAMP which have been constructed. Provide discussion on connection policy approach (e.g., connect in easiest manner rather than strict adherence to IAMP).
17. Develop first draft of AMP (5 copies) for District review.
18. Incorporate revisions for final AMP. Produce 10 copies of final AMP.
19. Attend meetings with District staff as necessary.
20. Prepare presentation for Engineering Committee and Board Meeting after completion of final AMP.

Robin Morshita
May 23, 2022
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Assumptions:

1. Work will build upon prior Predictive Failure Model.
2. Update of the District's financial model and 50 year CIP are outside this scope of work.

COMPENSATION

Work completed under this contract will be billed on a monthly basis. Fees will be calculated on an hourly rate basis by multiplying the actual hours worked on the job in each classification by the rates in the schedule attached as Exhibit "C". These rates are subject to change in January of each year.

All direct costs will be billed outside the proposed cost ceiling at cost plus 10 percent.

TIME OF PERFORMANCE

All tasks will be performed in a timely manner. We anticipate the minimum time to complete all tasks is four months from execution of this contract.

QUALIFICATIONS

Dexter S. Wilson will supervise the services described above. Mr. Wilson is a Registered Civil Engineer in California and graduated from Stanford University with a Bachelor of Science in Chemistry, and from the University of Arizona with a Master of Science in Civil Engineering.

Natalie J. Frascchetti will provide the services described above. Ms. Frascchetti is a Registered Civil Engineer in California and graduated from the University of Florida with a Bachelor of Science degree in Environmental Engineering Sciences.

Robin Morshita
May 23, 2022
Page 6

Kathleen L. Heitt will provide the services described above. Ms. Heitt is a Registered Civil Engineer in California and graduated from the University of California, Davis with a Bachelor of Science degree in Civil Engineering.

Thank you for the opportunity to provide a proposal on this project. If this proposal meets your approval, please prepare a contract in your format for our signature.

Respectfully submitted,

Dexter Wilson Engineering, Inc.

A handwritten signature in blue ink, appearing to read "Natalie Frascchetti", with a stylized flourish at the end.

Natalie J. Frascchetti, P.E.

NF:ck

Attachments

Exhibit "A"

Summary of Hours by Task

Task	Professional	Technical	Clerical	Total
1	24	0	0	24
2	12	4	0	16
3	40	8	0	48
4	40	70	0	110
5	88	80	8	176
6	40	0	0	40
7	60	24	0	84
8	16	0	0	16
9	16	0	8	24
10	40	0	8	48
11	8	0	0	8
12	8	0	0	8
13	8	0	0	8
14	8	0	0	8
15	40	8	16	64
16	24	16	0	40
17	24	8	40	72
18	16	8	40	64
19	24	0	0	24
20	8	0	0	8
TOTAL	544	226	120	890

Exhibit "B"

Summary of Costs by Task

Task	Cost, \$
1	3,960
2	2,552
3	7,744
4	14,630
5	25,000
6	6,600
7	13,332
8	2,640
9	3,212
10	7,172
11	1,320
12	1,320
13	1,320
14	1,320
15	8,888
16	6,248
17	7,964
18	6,644
19	3,960
20	1,320
TOTAL	\$127,146

Exhibit "C"

DEXTER WILSON ENGINEERING, INC.

**Rate Schedule
Effective February 1, 2022**

CLASSIFICATION	HOURLY RATE
Office Personnel:	
Planning/Design	
Principal Engineer (RCE)	\$225.00
Managing Engineer (RCE)	\$215.00
Project Engineer (RCE)	\$195.00
Senior Engineer (RCE)	\$170.00
Design Engineer (RCE)	\$140.00
Associate Engineer II	\$130.00
Associate Engineer I	\$100.00
Engineering Aide II	\$ 95.00
Engineering Aide I	\$ 90.00
Drafting/Design	
Senior Designer	\$130.00
Senior Drafter	\$110.00
Drafter II	\$100.00
Drafter I	\$ 90.00
Clerical	\$ 65.00

MEMORANDUM

Ref: 22-8087

DATE: June 30, 2022
TO: Engineering Committee
FROM: Paul J. Bushee, General Manager 
SUBJECT: Contract Award for the District's Village Park No. 7 Pump Station Replacement Project

RECOMMENDATION:

Staff requests that the Engineering Committee (EC) recommend that the Board of Directors:

1. Authorize the General Manager to execute a change order to the Contract to construct the Encinitas Estates Pump Station Replacement Project with Pacific Hydrotech Corporation for the construction of the Village Park No. 7 Pump Station Replacement Project in an amount not to exceed \$795,500.
2. Waive the requirements of Section 8, Formal Procurements for Goods, Construction Services and Other Services (\$60,000.10 and over), of the Procurement Policy as allowed under Section 3.9.
3. Authorize an additional appropriation of \$275K for project construction to cover construction costs and a 10% contingency.
4. Discuss and take other action as appropriate.

BACKGROUND:

Tactical Goal: Infrastructure and Technology / Village Park No. 7 Pump Station Replacement

In 2019 Infrastructure Engineering Corporation (IEC) conducted the District's Pump Station Condition Assessment Report. As a result of the assessment, IEC recommended the replacement of the Village Park No. 7 (VP7) Pump Station (a Smith & Loveless packaged pump station). This recommendation mirrored the recommendation to replace the Encinitas Estates Pump Station that is currently being completed. VP7 was constructed in 1973 and is approaching the end of its useful life of 50 years. Additionally, the steel shell of the pump station is deteriorating and repair parts are difficult to obtain from Smith & Loveless. The District has systematically replaced a packaged pump station with a submersible pump station.

In July 2021, a Task Order was issued to IEC for the preliminary design for the VP7 Replacement Project (Project). The Preliminary Design Report to replace VP7 with a submersible pump station included an estimated Project construction cost of \$2.11M. The pump station services 91 residents. This represents an expenditure of \$23,186 per resident. Based on the high estimated construction cost, staff researched other systems to replace the current packaged pump station. As a result, the E/One Grinder Pump Station (E/One) was selected. E/One is a packaged pump station with four grinder pumps in a non-metallic shell which meets the pumping capacity requirements needed at VP7.

DISCUSSION:

IEC completed project design in May 2022. The Engineer's cost estimate for installing E/One and a corresponding smaller force main was \$810K. This estimated construction cost represents a significant savings to the District. However, the reduced cost increases the possibility of small firms with minimal construction experience bidding on the Project due to simplified construction, reduced insurance / bonding costs and lower up front capital requirements. This increases District's risk in constructing the Project. Additionally, the current rate of inflation and general economic environment (supply chain issues) increase risk when bidding for construction services. The added risk to construction firms results in higher bid prices.

Pacific Hydrotech Corporation (PHC) is completing construction of the Encinitas Estates Pump Station (EEPS) Replacement Project. During that project, they have demonstrated exceptional skill constructing the pump station in a confined area. The construction of a submersible pump station is especially complex, requiring significant expertise and experience. To date, PHC has accomplished this construction with two change orders to date for a total of \$9,857 on the \$1.797M original contract cost (November 2020). The skill set to replace VP7 with E/One (civil, mechanical and electrical) is the same as demonstrated by PHC during construction of EEPS.

Why a Change Order as opposed to a new contract? The situation to construct VP7 as a Change Order to the EEPS project is a result of the coincidental timing of the two pump station replacement projects and project similarities. This represents a unique opportunity to reduce project costs without sacrificing quality of construction. This unconventional approach benefits both the District and PCH by reducing administrative / overhead costs and risk. Issuing a Change Order will enable the construction of VP7 to be performed under the same specifications and administrative requirements used to construct EEPS, reducing costs. For example, the insurance and bonding requirements remain the same. Therefore, PCH will not have the overhead expense to obtain new documents. The District will save administrative cost by not issuing new project documents or conducting the bidding process. Additionally, due to the current construction market, continued supply chain issues and rate of inflation, staff believes this approach is in the best interest of the District.

Based on these factors, staff approached PHC to provide a quote to construct VP7 as a change order to the EEPS project. PCH was provided the VP7 Plans and submitted a quote of \$795,500 to construct the Project. The quote is \$1.32M less than the submersible pump station cost estimate and in line with the Engineer's Cost estimate for constructing VP7 using E/One. Therefore, staff has determined this quote to be fair and reasonable.

Proceeding with this approach requires Board authorization of the change order and waiver of the requirements for Formal Procurements for Goods, Construction Services and Other Services (\$60,000.10 and over) in the Procurement Policy, the sealed bidding procedure. In accordance with Section 3.9 of the Procurement Policy, "The Board of Directors may, at its sole discretion, waive all or any part of this Policy." Therefore, the Board has the authority to waive the procurement requirements.

Considering the above factors, staff requests that the Board waive the formal procurement requirements in the Procurement Policy and authorize the General Manager to execute a change order to the EEPS Replacement Project for the replacement of the VP7 Pump Station.

FISCAL IMPACT:

Funds totaling \$600K have been appropriated for project construction. This appropriation is insufficient to complete project construction. Therefore, staff requests an additional appropriation to the FY 2023 Budget of \$275K to cover the bid price for construction and a 10% contingency.

rym:PJB

New projects this month: 0
Total active projects: 16

LEUCADIA WASTEWATER DISTRICT
Development Services
Jun-2022

District Location Code		Project Name	Project Description	Estimated EDUs	Status
3252-	0929	CASCADA VERDE	Development with Sewer Connection	35	Plans signed. Inspection pending.
3252-	0943	LEUCADIA STREETSCAPE	Streetscape Plan Check	Public Improvement	Phase 1 approved and under inspection. Further phases in review.
3252-	1006	Jason Street Storm Drain	Utility Conflict	Public Improvement	Waiting on mylars. Project on hold pending funding.
3252-	1015	Orpheus Avenue Drainage Improvements	Utility Conflict	Public Improvement	In Review. Provided PC1 and now waiting on City of Encinitas.
3252-	1032	Weston Annexation - La Costa Avenue	Annexation/Subdivision with Sewer Connection	48	In Review. Waiting on plan submittal.
3252-	1033	1528 N. Coast Highway	Development with Sewer Connection	14	Plans approved. Inspection ongoing.
3252-	1058	El Camino Real Building	Development with Sewer Connection	8.2	Plans approved. Construction start (lateral inspection) in progress.
3252-	1079	City of Encinitas - Leucadia Blvd & Hygela Roundabout	Public Street Improvement	Public Improvement	Plans signed. Inspection pending.
3252-	1111	Marea Village 1900 & 1950 N Coast Hwy 101	Development with Sewer Connection.	148.9	Preliminary sewer study approved. Waiting on plan submittal.
3252-	1114	1143 Eolus Avenue Public Sewer Improvement Plan	Public Sewer Improvement	1	In-review.
3252-	1115	555 & 571 North Vulcan	Public Sewer Improvement	12	In-review.
3252-	1135	Woodside Development - La Costa Avenue	Development with Sewer Connection	95	Preliminary sewer study approved. Plans in-review..
3252-	1139	1967 Vulcan Avenue	Development with Sewer Connection	73	In-review
3252-	1151	Omni La Costa Resort-Spa	Tenant Improvement	Private Improvement Affecting LWD Sewer	In-review. Coordinating meeting with engineer.
3252-	1152	Piraeus Point	Development with Sewer Connection	149	Waiting on sewer study submittal.
3252-	1153	Thai One On	Tenant Improvement	22	Plans signed. Waiting on BMP.

● - Food
Services
Establishment

● - 50 EDU's or
more

● - Less Than 50
EDU's

