

AGENDA

**ENGINEERING COMMITTEE MEETING
LEUCADIA WASTEWATER DISTRICT**

Wednesday, August 5, 2020 – 9:00 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: 861 1244 1965

Password: 576926

-
1. **Call to Order**
 2. **Roll Call**
 3. **Public Comment**
 4. **New Business**
 - A. Fiscal Year 2020 Gravity Sewer Repair / Quebrada Realignment Project Award:
Recommendation 1: Authorize the General Manager to execute an Agreement with Burtech Pipeline, Incorporated for construction services to complete the Fiscal Year 2020 Gravity Sewer Repair / Quebrada Realignment Project in an amount not to exceed \$1,395,000 as the lowest responsive and responsible bidder.

Recommendation 2: Authorize an additional appropriation of \$420K for project construction. (Pages 3 - 21)
 - B. Authorize the General Manager to execute an Agreement with Mavteck for construction management services during construction of the Fiscal Year 2020 Gravity Sewer Repair / Quebrada Realignment Project in an amount not to exceed \$45,000. (Pages 22 - 30)
 - C. Adopt Resolution No. 2339 the Leucadia Wastewater District Vehicle Replacement Policy. (Pages 31 - 45)
 5. **Information Items**
 - A. Batiquitos Pump Station Emergency Basin Project Concept (verbal)
(Pages 46 - 52)

6. **Directors' Comments**
7. **General Manager's Comments**
8. **Adjournment**

MEMORANDUM

Ref: 21-7253

DATE: July 30, 2020
TO: Engineering Committee
FROM: Paul J. Bushee, General Manager 
SUBJECT: Award of the District's Fiscal Year 2020 Gravity Sewer Repair / Quebrada Realignment Project Construction Contract

RECOMMENDATION:

Staff requests that the Engineering Committee recommend that the Board of Directors:

1. Authorize the General Manager to execute an Agreement with Burtech Pipeline, Incorporated for construction services to complete the Fiscal Year 2020 Gravity Sewer Repair / Quebrada Realignment Project in an amount not to exceed \$1,395,000 as the lowest responsive and responsible bidder.
2. Authorize an additional appropriation of \$420K for project construction.
3. Discuss and take other action as appropriate.

BACKGROUND:

Tactical Goal: Infrastructure and Technology / FY2020 Gravity Pipeline Rehabilitation – Quebrada Realignment

In July 2019 staff executed a Task Order with Infrastructure Engineering Corporation (IEC) to design the Fiscal Year (FY) 2020 Gravity Sewer Repair Project. The goal of the project was to repair or replace pipelines, manholes and cleanouts that require open trench work. In 2018, the District decided to separate projects that require cured-in-place pipe (CIPP) work from open trench work due to high bids received on projects that included a combination of both methods of pipeline work.

The FY2020 Gravity Pipeline Rehabilitation Project includes the realignment of the Quebrada Gravity Line (Quebrada). This line has a significant sag which causes grit, grease and debris to collect in the line, thereby requiring quarterly cleaning in an easement. The initial design was to reroute the flow and abandon the sagged portion. However, the realignment of Quebrada required a new sewer easement through a resident's property. Although there was an existing storm drain easement on the property, a new sewer easement need to be acquired. The resident refused to allow the addition of the sewer easement through his property. Therefore, the project was revised to include the open trench replacement in place of approximately 500 feet of Quebrada. Originally, this work was included in the La Costa Golf Course / Quebrada Line Realignment Project. However, the Quebrada portion was removed due to the high cost associated with removing the trees and shrubs located over the existing pipeline. Staff elected to revise the plan and realign the pipeline about 10 feet from the existing alignment, placing it in an open walking path, to eliminate vegetation removal expenses and sewer bypass operations.

Additionally, twenty (20) open trench repairs from the Repair Priority List were included to form a bigger project with the intent to attract greater interest for a more competitive bid.

DISCUSSION:

IEC completed project design in May 2020. The project was advertised for bids on June 10th. Bids were due on July 14, 2020. Five (5) bids were received as follows:

<u>Construction Firm</u>	<u>Bid Submitted</u>
Wier Construction Corporation (Wier)	\$1,293,600
Burtech Pipeline, Incorporated (Burtech)	\$1,395,000
CCL Contracting	\$1,598,000
Teichert Energy & Utilities	\$1,688,000
Kay Construction	\$1,996,355

The bids were reviewed by Rob Weber and Viet Duy Vo at IEC. The bid submitted by Wier, the lowest bidder, did not meet the minimum experience requirements for the project. The minimum experience required three (3) projects of the same complexity in the past five (5) years consisting of the installation of at least 1,000 linear feet of 8 inch or greater diameter PVC gravity pipe. Wier submitted one (1) project that met the criteria. The second lowest bidder, Burtech, submitted three (3) projects that satisfied the minimum experience requirements and submitted references for all subject projects. The bid documents clearly stated the experience and reference requirements and all other bidders submitted the required information in their original bid documents. Wier's omissions concern important bid requirements that were not minor or inconsequential such that they could be waived by the District. Staff has consistently applied this standard on all bids for projects.

Wier did provide a list of miscellaneous projects they completed. IEC selected four (4) miscellaneous projects to conduct due diligence reference checks. As a result, three (3) of the four (4) references for Wier provided negative reviews. Furthermore, upon review of the single largest bid item in the project, the Quebrada sewer realignment and installing new manholes, Wier's bid is 55% of the Engineer's Opinion of Probable Construction Cost. This presents a concern with respect to Wier's interpretation of the bid documents and potential risk of exposure to a change order.

Burtech satisfied all bid requirements. Burtech's bid of \$1,395,000 is \$102K more than Wier's bid. Both bids were under the \$1.459M Engineer's Cost Estimate for construction. Upon completion of IEC's review, it was recommended that Burtech be awarded the contract as the lowest responsive and responsible bidder, see attached letter.

Wier was notified of Staff's intent to recommend that Burtech be awarded the contract as the lowest responsive and responsible bidder. Subsequently, Staff met with Wier representatives to discuss rejection of their bid. Wier will not contest the bid rejection or District's award to Burtech.

Burtech's bid price of \$1,395,000 is approximately \$64,000 (4.4%) less than the estimated construction cost. Therefore, staff concurs with IEC's recommendation and requests that the Board of Directors award the contract to Burtech Pipeline, Incorporated as the lowest responsive and responsible bidder.

FISCAL IMPACT:

Funds totaling \$1.02 million were appropriated in the FY 2021 (FY21) Budget for project construction. This appropriation is sufficient to commence project construction. However, the addition of 11 items during project design resulted in a cost escalation for construction. Therefore, Staff requests an additional appropriation to the FY21 Budget of \$420K to cover the cost for construction and a 5% contingency.

ier:PJB

Attachment



BID REVIEW MEMORANDUM

Date: July 24, 2020

Subject: **Fiscal Year 2020 Gravity Sewer Repair/Quebrada Realignment Project**

Prepared By: Sheila McAtee, E.I.T.

Reviewed By: Rob Weber, P.E.

PURPOSE

This memorandum provides a summary of IEC's evaluation of bid results and the responsiveness of the submitted bids for the subject project.

BID RESULTS

Five bids were received and opened on July 14th, 2020. The bids are summarized on Table 1 - Bid Summary (see attached) and characteristics of the bids are as follows:

Apparent Low Bid:	\$1,293,600
Second Lowest Bid:	\$1,395,000
High Bid:	\$1,996,355
Engineer's Opinion of Probable Cost:	\$1,458,072

Wier Construction Corporation (Wier) submitted the lowest bid at \$1,293,600. Burtech Pipeline, Inc. (Burtech) was the second lowest bidder at \$1,395,000. Both Wier and Burtech submitted prices *below* the Engineer Opinion of Probable Construction Cost (EOPCC) of \$1,458,072.

REVIEW OF APPARENT LOW BIDDER

Wier Construction Corporation (Wier) based in Escondido, CA submitted the apparent low bid. The following evaluation was performed:

1. **Experience Requirements – PVC Pipe:** The bid documents require the Contractor to submit three project references, completed in the previous five years, where the Contractor was required to install at least 1,000 linear feet PVC gravity sewer pipe with a minimum diameter of 8 inches. Wier submitted only one properly formatted reference that met this criterion – the Campo Road Sewer Replacement Project. Wier did submit a generic list of additional projects that were not directly applicable to the subject project. In the interest of completeness and due diligence, IEC reviewed the additional provided list and noted two (2) projects that were sewer related, however, Wier did not indicate on the list which projects met the experience required by the bid documents nor was it clear to IEC upon review of the information. In the project descriptions, the length and diameter of sewer pipe was provided, but not the pipe material.
2. **References:** The bid documents provided by Wier only specified one reference. In the general project list, there was contact information available, but none were marked specifically as references. In reviewing the general list, IEC only found one contact that dealt with relevant projects (sewer). IEC first contacted the two references that dealt with similar projects. In these reviews, one provided negative feedback, and the other was



mediocre at best. In the negative review, it was stated that Wier was “very difficult to work with”, making the entirety of the project “painful.” This reference stated that quality of work did meet project requirements in the end, but their opinion was that they would *not* award another contract to Wier. In the second reference, it was stated that Wier did a “good job”, they were a “decent” contractor, and they *would* award them another contract. Due to conflicting information, IEC reached out to two more contacts for projects unrelated to this one; one school modernization, and one roadway improvement. Both additional reviews were negative. One review noted that the Wier was constantly changing project managers, which added the stress of constantly re-building relationships. When asked if the work was performed acceptably, the contact said yes, but they did have to “babysit” them, due to revolving PMs. When asked if they would award another contract to Wier, they stated that “there are better contractors out there”. The final reference stated that when working with Wier, everything was a challenge, stating multiple claims filed that were “not justified”. When asked if they would award another contract to Wier, they stated, “No, never again.” Overall, 3 of 4 reviews were negative, and one minorly positive.

3. **Bid item review:** In reviewing the distribution of bid items, IEC identified an unbalanced distribution of the bids with respect to one of the bid items, specifically with the single largest bid item in the project: the sewer realignment and manhole installations on Quebrada Circle. Below is a comparison of bid amounts. Note that Wier’s bid is \$90,500 less than the second lowest bid amount and 55% of the Engineer’s Opinion of Probable Construction Cost. This presents a concern with respect to how Weir interpreted the contract documents and the District’s potential risk of exposure to a change order.

Cost Estimates for: New 8" & 10" PVC - Sewer Realignment, New Sewer Manholes (Quebrada Cir)					
EOPCC	Wier Construction	Burtech Pipeline	CCL Contracting	Teichert Energy & Utilities	Kay Construction
\$480,000	\$269,500	\$545,000	\$390,000	\$360,000	\$425,770

For the reasons discussed above we have concerns about Weir’s ability to fulfill the contract obligations and deliver a quality project to the District without exposing the District to the risk of unnecessary delays and change orders. We therefore recommend awarding the contract to the second lowest bidder, Burtech Pipeline.

REVIEW OF APPARENT SECOND LOWEST BIDDER

Burtech Pipeline, based in Encinitas, California, submitted the second lowest bid. IEC has reviewed Burtech’s bid, and recommends the District award the project to Burtech for the following reasons:

Contractor’s License: The Contractor holds the required Class A License (No. 718202). The license is current and active.

Bid Bond: A bid bond in the amount of ten percent (10%) of the bid amount was submitted with North American Specialty Insurance Company as surety.

Signatures: The Contractor’s President & CEO, Dominic J Burtech, signed the Closing Statement, Bidder’s Bond, and Non-Collusion Affidavit.



Worker's Compensation Insurance: Policy is in effect through 10/1/2020. The most recent workers' compensation experience modification factor for Burtech is 0.79%.

Experience Requirements – PVC Pipe: The bid documents require the Contractor to submit three project references that included construction of polyvinyl chloride (PVC) gravity sewer of at least 1,000 linear feet of a minimum diameter of 8 inches. Burtech provided documentation in the required format that exceeded the experience requirements.

References: IEC contacted Burtech's four listed references to perform an assessment of the Contractor's prior work. Of four provided references, two were successfully contacted. Both gave highly positive reviews for Burtech for all questions. One reference stated "Burtech was overall good to work with, there were no claims filed, there were change orders, but they were legitimate, work was performed acceptably, and they would award Burtech another contract".

Registration with the Department of Industrial Relations (DIR):

As of 03/01/2015 contractors and their subcontractors are required to be registered with the DIR prior to bidding a public works project. IEC confirmed that both Burtech, and their listed subcontractors, Nu Line Technologies and DB Pipeline, are registered with the DIR.

Contractor Legal Name	Registration Number	Registration Date	Expiration Date
Burtech Pipeline Incorporated	1000006324	07/01/2019	06/30/2022
Nu Line Technologies, LLC.	1000003808	07/01/2020	06/30/2022
DB Pipeline, Inc	1000062288	07/02/2019	06/30/2022

Source: <https://efiling.dir.ca.gov/PWCR/Search.action>

Bid Item Review: No irregularities were found with bid items.

Claims Filed: Burtech has no claims filed in the last five years against them.

RECOMMENDATION

IEC recommends award of the contract to Burtech Pipeline, Incorporated, based on their knowledge and experience record and responsiveness to the bidding requirements.

Attachments

Table 1 – Bid Summary

**Leucadia Wastewater District
FY2020 Gravity Sewer Repairs
Bid Summary**

Bid Item	Quantity	Unit	Article	Engineer's Estimate	Water Construction	Burtech Pipeline	CCL Contracting	Teichert Energy & Utilities	Key Construction
1	1	LS	Mobilization, Bonds, Permits, Cleanup and Demobilization	\$52,640	\$64,750	\$55,000	\$80,000	\$70,000	\$95,000
2	1	LS	Sheeting, Shoring and Bracing	\$20,000	\$140,000	\$35,000	\$57,000	\$70,000	\$140,000
3	1	LS	New 8" PVC - New Sewer Manhole and Relocation (Andrew Ave)	\$34,000	\$68,250	\$21,000	\$29,000	\$68,000	\$47,709
4	1	LS	Replace CO and Repair 6 Lateral Connections (Andrew Ave Easement)	\$100,000	\$30,625	\$50,000	\$52,000	\$54,000	\$25,245
5	1	LS	New 8" PVC - Sag Repair, New Sewer Manhole (Village Run E)	\$76,000	\$72,625	\$77,000	\$63,000	\$71,000	\$78,953
6	1	LS	New 8" PVC - Relocate Lateral, New Sewer Manhole (Avenida Joaquin)	\$35,000	\$30,625	\$25,000	\$53,000	\$62,000	\$52,137
7	1	LS	New Sewer Manhole (Glen Arbor Dr)	\$25,000	\$30,625	\$21,000	\$25,000	\$44,000	\$53,433
8	1	LS	New Sewer Manhole (Oak Burl Ln)	\$25,000	\$30,625	\$21,000	\$25,000	\$42,000	\$52,137
9	1	LS	New 8" PVC - Lateral Connection Repair (El Camino Real)	\$35,000	\$17,500	\$16,000	\$28,000	\$57,000	\$30,947
10	1	LS	New Sewer Manhole (Cerro St)	\$25,000	\$30,625	\$22,000	\$29,000	\$48,000	\$52,299
11	1	LS	New 12" PVC - Sewer Realignment, 2 New Sewer Manholes (N Vulcan Ave)	\$58,000	\$72,100	\$140,000	\$111,000	\$82,000	\$147,501
12	1	LS	New 8" PVC - Full Liner, New Sewer Manhole (Alicante Rd)	\$35,000	\$42,000	\$38,000	\$70,000	\$87,000	\$62,505
13	1	LS	New Sewer Manhole (Babilonia st)	\$25,000	\$47,875	\$24,000	\$27,000	\$62,000	\$51,489
14	1	LS	New Sewer Manhole (Dorado Pl)	\$25,000	\$30,625	\$22,000	\$28,000	\$54,000	\$50,409
15	1	LS	New 8" PVC - Spot Repair and Install Liner (El Fuerte)	\$28,000	\$29,750	\$17,000	\$32,000	\$98,000	\$56,295
16	1	LS	New 8" PVC - Sag Repair (Garboso St)	\$100,000	\$91,000	\$53,000	\$101,000	\$98,000	\$62,505
17	1	LS	New 8" PVC - New Sewer Manhole and Install Liner (La Costa Ave Easement)	\$28,000	\$49,000	\$35,000	\$41,000	\$87,000	\$348,165
18	1	LS	New 18" PVC - Sag Repair, Sewer Realignment (La Costa Golf Course Easement)	\$52,000	\$78,750	\$95,000	\$266,000	\$87,000	\$6,566
19	1	LS	Raise Manhole to Grade (Marbella Easement)	\$15,000	\$5,250	\$5,000	\$3,000	\$42,000	\$18,073
20	1	LS	Spot Repair, Install 4 Top Hats (Navarra Dr)	\$65,000	\$21,000	\$37,000	\$38,000	\$63,000	\$425,770
21	1	LS	Sewer Realignment-Abandon-in-Place Existing 8" PVC & Construct New 8" PVC (Quebrada Cir)	\$480,000	\$157,500	\$375,000	\$278,000	\$255,000	
22	1	LS	Sewer Realignment-Construct 3 New Manholes (Quebrada Cir)		\$98,000	\$105,000	\$68,000	\$80,000	
23	1	LS	Sewer Realignment-Vegetation/Shrub Removal (Quebrada Cir)		\$14,000	\$65,000	\$44,000	\$25,000	
24	1	LS	New Sewer Manhole (Unicornio St & Zodiaco St)	\$25,000	\$22,750	\$21,000	\$25,000	\$27,000	\$51,155
25	1	LS	New Sewer Manhole (Unicornio St & Cacatua Pl)	\$25,000	\$22,750	\$22,000	\$25,000	\$38,000	\$50,949

Total (Engineers Estimate with 5% added contingency)
Check Total (Bids)
 Difference

\$1,458,072
\$1,293,600
\$1,293,600
\$0

\$1,598,000
\$1,598,000
\$0
\$0

\$1,688,000
\$1,688,000
\$0
\$0

\$1,996,355
\$1,996,355
\$0
\$0

FY20 GRAVITY SEWER REPAIR LINE / QUEBRADA REALIGNMENT PROJECT

Award of Construction Contract

Tactical Goal: Infrastructure and Technology 

(AUGUST 2020)

Recommendation

- Authorize the General Manager to execute:
 - An Agreement with Burtech Pipeline Inc. for the construction of the FY20 Gravity Sewer Repair / Quebrada Realignment Project in an amount not to exceed \$1,395,000 as the lowest responsive and responsible bidder.
 - An additional appropriation of \$420K for project construction.

Background

- Goal – Repair or replace Rated 3 gravity lines/manholes discovered by CCTV crew
- FY20 includes projects that require open trench work
- Combined with Quebrada Line



Background

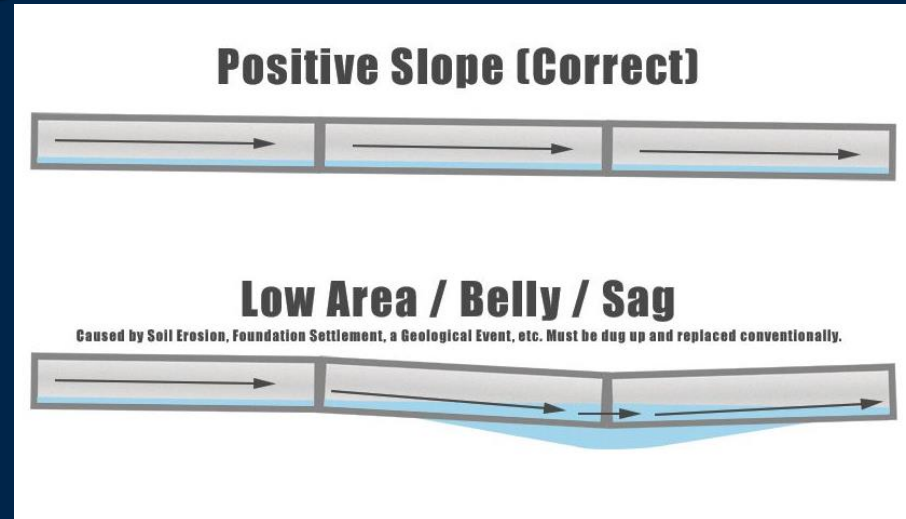
➤ Quebrada Gravity Line

- 500 linear feet of line with a significant sag

- Initial design – reroute
 - Easement not acquired

- Revised plan - include open trench work in place
 - High costs

- Revised plan - relocated 10' from existing alignment



Background

- FY 2020 Gravity Sewer Repair Project
 - 20 open trench repairs

- Quebrada Realignment Project
 - Open trench repair

FY 2020 Gravity Sewer Repair / Quebrada Realignment Project

Bid Schedule

- IEC completed Design in May 2020
- June 10, 2020 Notice Inviting Bids
- **July 14, 2020** **Bids Due**
- August 19, 2020 Award
- Engineer's Estimate - \$1,459,000

Bid Results

Construction Firm	Bid Price
Wier Construction Corporation	\$1,293,600
Burtech Pipeline, Incorporated	\$1,395,000
CCL Contracting	\$1,598,000
Teichert Energy & Utilities	\$1,688,000
Kay Construction	\$1,996,355

Discussion

- Wier Construction (Wier) did not satisfy bid requirements
- Minimum Bid Requirements:
 - Complete 3 projects of the same complexity and scope within the past 5 years
- Wier submitted:
 - 1 project that met minimum criteria
 - 3 of 4 references were negative reviews

Discussion

- Burtech Pipeline (Burtech) satisfied bid requirements
- Burtech submitted:
 - 4 projects that satisfied minimum criteria
- Bid Documents clearly stated requirements
 - Other bidders submitted requested information
- Omissions NOT minor or inconsequential, should NOT be waived (consistently applied standard)

Discussion

- Burtech bid is \$102K more than Wier
- Both bids were under Engineer's Estimate (\$1.459M)
- Wier notified of nonresponsive bid

Summary

- Wier apparent low bidder
- Wier bid nonresponsive
- Burtech second low bidder
 - Satisfied bid requirements
 - Bid is 4.4% below Engineer's Estimated Cost
- Consistently applied standard for bid evaluation

Recommendation

- Award Contract for the FY20 Gravity Sewer Repair / Quebrada Realignment Project construction to Burtech Pipeline in an amount not to exceed \$1,395,000 as the lowest responsive and responsible bidder

Fiscal Impact

- Sufficient funds to commence construction
- Authorize an additional appropriation of \$420K for project construction



Questions / Comments



MEMORANDUM

Ref: 21-7254

DATE: July 30, 2020
TO: Engineering Committee
FROM: Paul J. Bushee, General Manager 
SUBJECT: **Contract Award for Construction Management Services for the District's Fiscal Year 2020 Gravity Sewer Repair/Quebrada Realignment Project**

RECOMMENDATION:

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

1. Authorize the General Manager to execute an Agreement with Mavteck for construction management services during construction of the Fiscal Year 2020 Gravity Sewer Repair/Quebrada Realignment Project in an amount not to exceed \$45,000.
2. Discuss and take other action as appropriate.

DISCUSSION:

Tactical Goal: **Infrastructure and Technology / FY2020 Gravity Pipeline Rehabilitation – Quebrada Realignment**

The Leucadia Wastewater District's (District) Fiscal Year 2020 Gravity Sewer Repair/Quebrada Realignment Project (Project) requires construction management (CM) support to oversee construction of the project. The CM services consist of contractor oversight, negotiating change orders, construction inspection and administration. Mr. Maverick Madsen (Mavteck) has a proven track record of providing excellent CM services to the District. Mr. Madsen has provided excellent CM services for the 2017 Village Park No. 5 Pump Station Replacement, Batiquitos (B3) Force Main Discharge Section Replacement, and La Costa Force Main Emergency Repair projects. Additionally, Mr. Madsen has been awarded the CM contract for the current Leucadia Pump Station Rehabilitation Project. For this Project, Mavteck submitted a proposal to provide CM services in an amount not to exceed \$45,000, an estimated 375 hours at \$120 per hour. Based on the estimated two-hundred (200) calendar day construction period and Mr. Madsen's experience and past performance, staff believes this fee is fair and reasonable.

Included in the Project is the installation of over 1,000 linear feet of new PVC pipe, seventeen (17) new sewer manholes, one (1) new sewer cleanout, two (2) spot repairs, and about 100 linear feet of Cured-In-Place-Pipe (CIPP).

Mr. Madsen has consistently provided outstanding CM services on previous District projects. He possesses the requisite knowledge of the District's collection system and operations. Retaining his CM services during construction will provide continuity, efficiency and is in the best interest of the District. For these reasons, the procurement of these CM services satisfies the criteria for continuity of service under Section 11.4, Continuing Services, of the District's Procurement Policy.

The services provided by the contract will be paid on a time and material basis. Therefore, Staff recommends that the Board award the contract for CM services for the FY 2020 Gravity Pipeline Rehabilitation Project to Mavteck.

FISCAL IMPACT:

Sufficient funds to cover the proposed cost for construction management services have been budgeted.

ier:PJB

FY20 GRAVITY SEWER REPAIR LINE / QUEBRADA REALIGNMENT PROJECT

Award of Construction Management Services

Tactical Goal: Infrastructure and Technology

(AUGUST 2020)

Recommendation

Authorize the General Manager to execute an Agreement with Mavteck for construction management services during the construction of the FY20 Gravity Sewer Repair / Quebrada Realignment Project in an amount not to exceed \$45,000.

Discussion

Construction Management Services:

- Contractor oversight
- Review / negotiate Change Orders
- Construction Inspection
- Administration:
 - ❖ Payment Requests
 - ❖ Submittals / RFIs
 - ❖ Contractor Payroll



Construction Management

Maverick Madsen (Mavteck) projects:

- Leucadia PS Rehabilitation Project - awarded
- Batiquitos (B3) Force Mains Discharge Section Replacement
- La Costa Force Main Emergency Repairs

Mavteck experience:

- 25 years in heavy construction public works
- Treatment plants, pump stations, pipelines

**Proposal - \$45K (375 hours @ \$120/hour
on a time and materials basis)**

Discussion

- Retaining his service:
 - Provides continuity
 - Efficient
 - Best interest of the District
- Satisfies Procurement Policy
 - Section 11.4 – Continuing Services
- Proposal is fair and reasonable

Recommendation

- Award CM Services Contract to Mavteck

Fiscal Impact

- Sufficient funds budgeted for CM Services

Questions / Comments

MEMORANDUM

DATE: July 30, 2020
TO: Engineering Committee
FROM: Paul J. Bushee, General Manager 
SUBJECT: Resolution No. 2339 Adopting the Leucadia Wastewater District Vehicle Replacement Policy

RECOMMENDATION:

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

1. Adopt Resolution No. 2339 the Leucadia Wastewater District Vehicle Replacement Policy.
2. Discuss and take other action as appropriate.

BACKGROUND:

The Leucadia Wastewater District (District) owns various types of vehicles to perform its mission and effectively maintain its collection system. Vehicles require replacement as they reach the end of their useful life. In the past, staff used vehicle replacement guidelines to replace District vehicles. Staff believes the implementation of a vehicle replacement policy is more appropriate. The purpose of this policy is to establish standardized criteria for the systematic replacement of District vehicles.

DISCUSSION:

The District operates and maintains a safe, reliable, usable and well-conditioned vehicle fleet. Vehicle replacement is based on several factors including years of service, mileage, engine hours, reliability, its ability to efficiently/adequately perform its specific function and repair cost. In order to establish a replacement policy Staff is recommending that the Board adopt Resolution No. 2339 the Vehicle Replacement Policy, attached for your review, which includes the following key components:

1. Establishes minimum replacement criteria for District vehicles:
 - a) Passenger Vehicles - 5 years & 60,000 miles or 7 years & any miles.
 - b) Light Duty Trucks (1/2 ton) - 5 years & 75,000 miles or 7 years & any miles.
 - c) Medium Duty Trucks (3/4 ton - 3 ton) - 5 years & 60,000 miles or 7 years & any miles.
 - d) Heavy Duty Trucks (greater than 3 ton) - 8 years or 4,000 engine run hours.
 - e) Portable Diesel Equipment - 10 years or 4,000 engine run hours.
2. Describes other factors for vehicle replacement due to specialty/mission critical system components.
3. Allows for retaining a vehicle in service beyond the minimum replacement criteria.
4. Allows for damaged or stolen vehicle replaced.
5. Explains how staff normally budgets for vehicle replacement.

The major change from the current guidelines to this new policy is in the minimum replacement criteria for Heavy Duty Trucks. The length of service was reduced from 10 years to 8 years, the mileage criteria was removed and the parameter of 4,000 engine run hours was added. These changes are based on Staff's experience with the Vactor Combination Truck (Vactor). The Vactor is comprised of hydro-cleaning and vacuum components mounted on a heavy duty truck chassis. The engine not only propels the truck, it powers the operation of both hydro-cleaning and vacuum components. This places a strain on the engine while the truck itself remains stationary. Therefore, it is prudent to separate engine life (run hours) from service years and vehicle mileage criteria because those parameters do not accurately

represent the functional age of a Vactor. As a result, the mileage criteria was removed and the service life was reduced to reflect actual Vactor operations and to account for the long lead time to manufacture a Vactor when one is purchased.

The policy will be an effective tool for staff to consistently and rationally replace fleet vehicles and assist with budgeting funds to complete vehicle purchases. Therefore, staff recommends the adoption of Resolution 2339 the Vehicle Replacement Policy.

Attachment

jms:PJB

RESOLUTION NO. 2339

**A RESOLUTION OF THE BOARD OF DIRECTORS OF
THE LEUCADIA WASTEWATER DISTRICT
ADOPTING THE VEHICLE REPLACEMENT POLICY**

Whereas, the Leucadia Wastewater District's (District) owns various types of vehicles to perform its mission and effectively maintain the collection system; and

Whereas, it is prudent to establish standardized criteria for the systematic replacement of District vehicles.

NOW, THEREFORE, it is hereby resolved as follows:

1. The LWD Board of Directors adopts the Vehicle Replacement Policy attached hereto as Exhibit "A" and directs that it be implemented consistent with all applicable laws and related District policies.

PASSED AND ADOPTED by the Board of Directors of the Leucadia Wastewater District this 12th day of August, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Allan Juliussen, President

Attest:

Paul J. Bushee, Secretary /Manager

Exhibit A

Vehicle Replacement Policy

Vehicle Replacement Policy

I. Purpose

The Leucadia Wastewater District (District) owns various types of vehicles to perform its mission and effectively maintain its collection system. Vehicles require replacement as they reach the end of their useful life. The purpose of this policy is to establish standardized criteria for the systematic replacement of District vehicles.

II. General

The District operates and maintains a safe, reliable, usable and well-conditioned vehicle fleet. To accomplish this, there are instances that require vehicle replacement. Vehicle replacement schedules are based on several factors including years of service, mileage, engine hours, reliability, maintenance, and repair cost. However, there are circumstances when a vehicle may be retained in service beyond its presumed replacement point based on an overall condition assessment that demonstrates the vehicle continues to meet safety and reliability standards.

III. Routine Replacement Criteria

When a new vehicle is added to the fleet, a replacement schedule is established for that vehicle. The Field Services Superintendent routinely monitors the service and replacement needs for each vehicle. As the vehicle approaches minimum replacement criteria, an assessment is made to determine whether procurement of a new vehicle is warranted. Whenever possible, staff will attempt to extend a vehicle's service life.

The minimum replacement criteria for District vehicles are as follows:

- a. Passenger Vehicles - 5 years & 60,000 miles or 7 years & any miles.
- b. Light Duty Trucks (1/2 ton) - 5 years & 75,000 miles or 7 years & any miles.
- c. Medium Duty Trucks (3/4 ton – 3 ton) - 5 years & 60,000 miles or 7 years & any miles.
- d. Heavy Duty Trucks (greater than 3 ton) - 8 years or 4,000 engine run hours.
- e. Portable Diesel Equipment - 10 years or 4,000 engine run hours.

IV. Replacement Due to Other Factors

In some instances, a vehicle may not meet the District minimum replacement criteria. However, specialty/mission critical system components integral to the special function of the vehicle may require vehicle replacement due to:

- High repair costs of the essential equipment (e.g. CCTV Camera and software)
- Unreliable, end of life or obsolete essential components
- New technology that improves function or efficiency

These factors may be used to justify vehicle replacement when warranted.

V. Retaining a Vehicle in Service

Any vehicle may be kept in service beyond the minimum replacement criteria based on its general condition, reliability, maintenance history, or when it is in the best interest of the District. To retain a vehicle, the Field Service Superintendent will obtain approval from the General Manager to keep the vehicle in service.

Retention of a vehicle may be more applicable to vehicles which transport specialized equipment unique to Field Service activities, for example Close Circuit Televised Equipment (CCTV) or rodder equipment.

VI. Replacement of a Retained Vehicle

A vehicle that has been retained beyond the minimum replacement criteria will be evaluated on an annual basis. Should a vehicle that has been kept in service require replacement at or prior to the completion of the estimated retention period, the Field Services Superintendent will recommend to the General Manager that the vehicle be replaced. Replacement of the vehicle will require General Manager approval.

VII. Damaged or Stolen Vehicles

Any vehicle damaged or stolen beyond economical repair (including unusual wear by abnormal operating conditions) may be replaced without regard to the established standards when recommended by the Field Services Superintendent and approved by the General Manager.

VII. Budget Information

When it is determined that a vehicle should be replaced, the Field Services Superintendent will obtain financial information regarding anticipated cost, budget implications (current FY or future FY) and details of the replacement vehicle. The Field Services Superintendent will ensure that sufficient funds are budgeted for vehicle purchase.

RESOLUTION NO. 2339 - LEUCADIA WASTEWATER DISTRICT VEHICLE REPLACEMENT POLICY

August 2020

RECOMMENDATION

- ▶ Adopt Resolution No. 2339 –
Leucadia Wastewater District
Vehicle Replacement Policy

BACKGROUND

- ▶ District owns various types of vehicles to perform mission and maintain collection system
- ▶ District currently uses “Vehicle Replacement Guidelines”
- ▶ A policy is more appropriate to establish standardized criteria for the systematic vehicle replacement

DISCUSSION

- ▶ The Vehicle Replacement Policy includes the following key components:
 - Defines minimum replacement criteria
 - Describes other replacement factors for essential equipment
 - Allows for retaining a vehicle in service beyond minimum replacement criteria
 - Allows for damaged or stolen vehicles to be replaced
 - Explains how the District budgets for vehicle replacement

VEHICLE REPLACEMENT CRITERIA

► The minimum replacement criteria is as follows:

- a) Passenger Vehicles - 5 years & 60,000 miles or 7 years & any miles.
- b) Light Duty Trucks (1/2 ton) - 5 years & 75,000 miles or 7 years & any miles.
- c) Medium Duty Trucks (3/4 ton – 3 ton) - 5 years & 60,000 miles or 7 years & any miles.
- d) Heavy Duty Trucks (greater than 3 ton) - 8 years or 4,000 engine run hours.
- e) Portable Diesel Equipment - 10 years or 4,000 engine run hours.

COMBINATION TRUCK

- ▶ The Combination truck is designed to be stationary while its working
- ▶ Large majority of use is spent hydro-cleaning sewer lines.
- ▶ Chassis mileage vs. engine hours



SUMMARY

- ▶ Policy is an effective tool to consistently and rationally replace fleet vehicles
- ▶ Policy assists Staff with Budget implications for proposed vehicle purchases

RECOMMENDATION

- ▶ Adopt Resolution No. 2339 – Leucadia Wastewater District Vehicle Replacement Policy

QUESTIONS?


BATIQUITOS PUMP STATION EMERGENCY BASIN REHABILITATION PROJECT

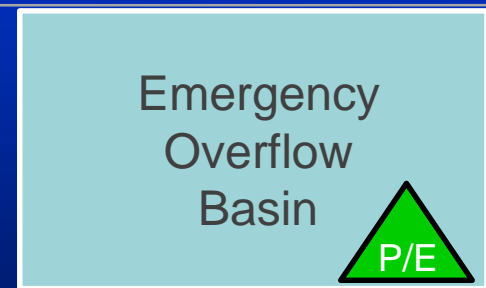
Project Concept

Tactical Goal: Infrastructure and Technology

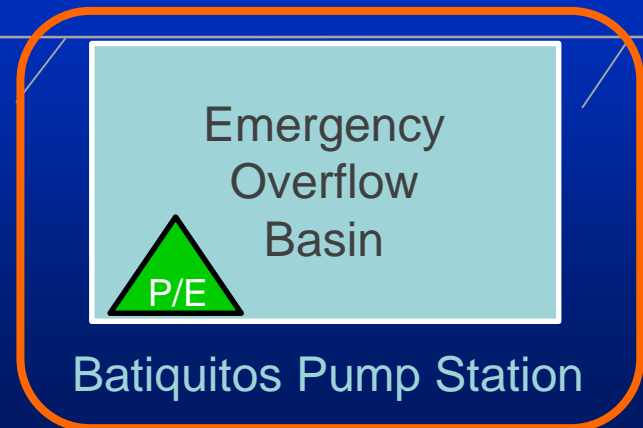
(August 2020)

Discussion

- Leucadia Pump Station Rehabilitation - Design
 - **Station Bypass**
 - 2 Submersible Pumps in Overflow Basin
 - 1 - permanent, **1 – temporary**
- 
- Prepare Batiquitos Pump Station Emergency Basin
 - ✓ Reline Basin
 - ✓ **Install Pump Rails**
 - ✓ Install Electrical
 - ✓ **Install Discharge Piping**

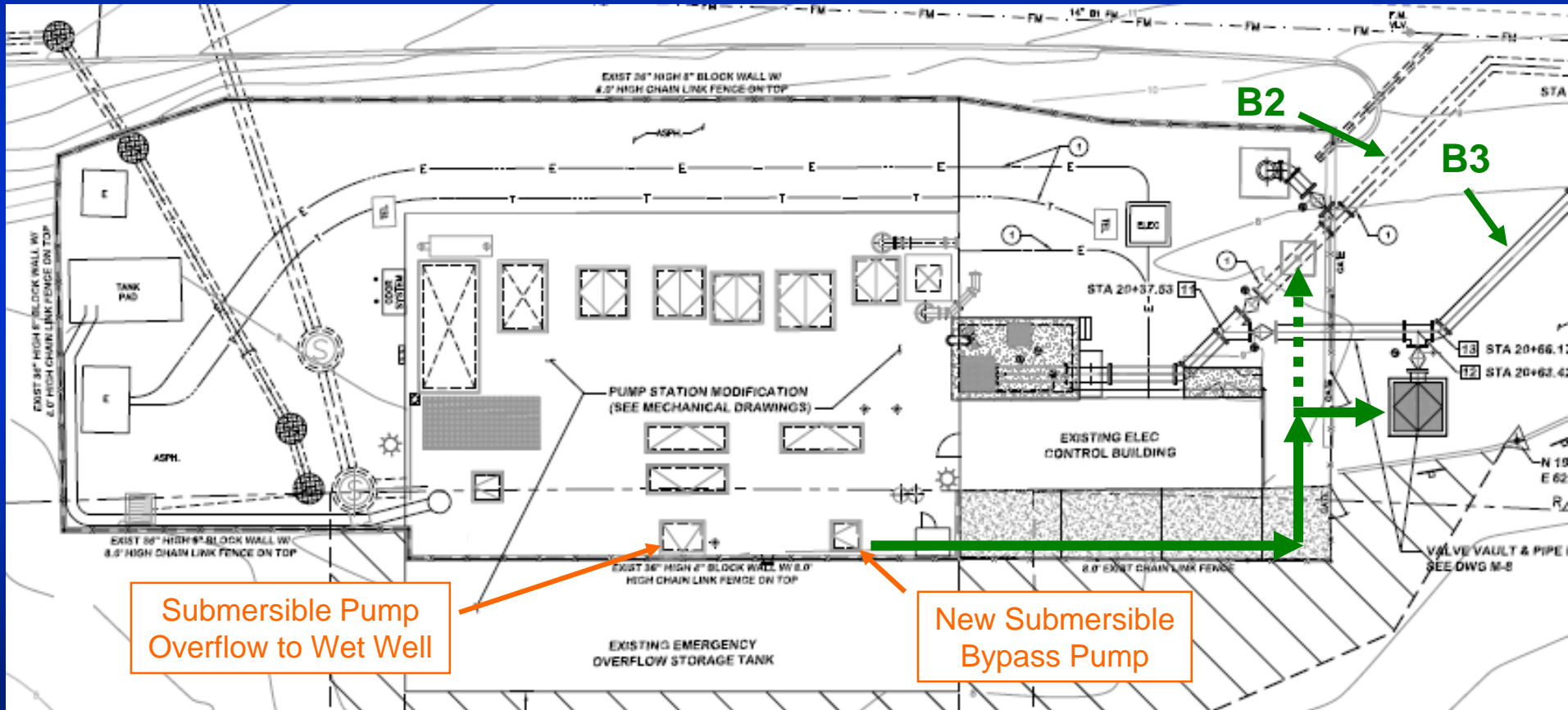


Leucadia Pump Station



Batiquitos Pump Station

Discussion (cont.)



Discussion (cont.)

- Request quote from Stanek Constructors
- Reduced mobilization costs – bonds, insurance
- Coordination to minimize pump storage on site
 - ✓ Timing of pump removal at Leucadia and installation at Batiquitos

Discussion (cont.)

- If quote is reasonable – construct as change order under Leucadia Pump Station Rehab Project
- If unreasonable – include in Batiquitos Pump Station Rehabilitation Project (second budgeted project)
- Rehabilitation project design to start MAR 2021

Discussion (cont.)

- Pump Station Rehabilitation includes:
 - ✓ Replace 4 pumps with dry pit submersible pumps, valves and piping
 - ✓ Replace discharge header – installed 1974
 - ✓ Replace emergency generator
- Possibly use emergency basin and pump for bypass operations

Questions / Comments