

**AGENDA**

**ENGINEERING COMMITTEE MEETING  
LEUCADIA WASTEWATER DISTRICT**

Wednesday, July 1, 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: 826 5319 8827**

**Password: 113206**

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- 1. Call to Order**
  - 2. Roll Call**
  - 3. Public Comment**
  - 4. New Business**
    - A. Authorize the General Manager to execute a sole source purchase Agreement with Vapex Environmental Technologies to purchase two (2) replacement Vapex odor control units for Batiquitos and Leucadia Pump Stations in an amount not to exceed \$192,000. (Pages 2 - 9)
    - B. Authorize the General Manager to execute a two-year extension to the Dexter Wilson Engineering, Incorporated Professional Services Agreement for engineering consulting services in an amount not to exceed \$240,000. (Pages 10 - 20)
    - C. Authorize a transfer of \$50,000 in capital funds from the La Cost Golf Course Realignment Project, account 50-51-0357-6499, to the Batiquitos (B3) Force Main Discharge Section Replacement Project, account 50-51-0374-6499. (Page 21)
  - 5. Information Items**
    - A. Diana Pump Station Emergency Generator Siting (verbal) (Pages 22 - 32)
  - 6. Directors' Comments**
  - 7. General Manager's Comments**
  - 8. Adjournment**

**MEMORANDUM**

**DATE:** June 24, 2020  
**TO:** Engineering Committee  
**FROM:** Paul J. Bushee, General Manager   
**SUBJECT:** **Award of Purchase Contract – Ozone Odor Control Units (2)**

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**RECOMMENDATION:**

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

1. Authorize the General Manager to execute a sole source purchase Agreement with Vapex Environmental Technologies to purchase two (2) replacement Vapex odor control units for Batiquitos and Leucadia Pump Stations in an amount not to exceed \$192,000.
2. Discuss and take other action as appropriate.

**DISCUSSION:****Tactical Goal: Services / Replace Vapex Odor Control Machine**

In July 2004 and in July 2013, the District purchased and installed two ozone odor control units for the Batiquitos and Leucadia Pump Stations. These proprietary odor control units are marketed under the brand name "Vapex". The units generate ozone and deliver it as a fine spray or fog into the wet well space. The ozone acts as an oxidizing agent that reacts with and destroys odor causing compounds in the wet well.

The existing Vapex units are seven years old and obsolete. Replacement parts are no longer available. The Vapex units are extremely effective at minimizing local odors at Batiquitos and Leucadia Pump Stations. Vapex is a critical component in the District's arsenal of odor control measures including adding Bioxide at Leucadia Pump Station and carbon scrubbers at both Batiquitos and Leucadia Pump Stations. The Vapex units are an integral part of the District's Air Pollution Control District (APCD) permit for odor control at both pump stations.

In the past, Staff has considered various chemical treatments for odor control at Batiquitos Pump Station. However, due to the high risks of personnel exposure, the storage of hazardous chemicals in an environmentally sensitive area and high chemical costs staff believes it is prudent to continue using Vapex. Additionally, changing to a new form of odor control would require modifying the APCD permit for Batiquitos Pump Station.

Due to its proprietary nature, the purchase of the Vapex units is a sole source procurement. The District's Procurement Policy allows sole source purchases if the item or service is of such a unique, proprietary or technical nature that it is only manufactured or provided by a single vendor. Included in the purchase price is equipment startup, training, a 36-month warranty and freight. Therefore, staff requests approval for the purchase of two (2) replacement Vapex odor control units from Vapex Environmental Technologies in an amount not to exceed \$192,000.

**FISCAL IMPACT:**

Adequate Funds for the purchase of the two Vapex units are included in the FY 2021 Capital Acquisition Budget.

jms:PJB

# Replace Vapex Units at BatiQUITOS & Leucadia Pump Stations

Leucadia Wastewater District



# Recommendation

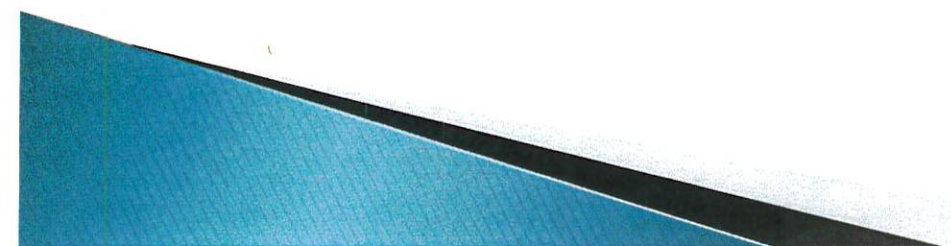
- ▶ Authorize the General Manager to purchase two (2) replacement Vapex odor control units for Batiquitos and Leucadia Pump Stations from Vapex Environmental Technologies in an amount not to exceed \$192,000





# Discussion

- ▶ Vapex units were installed at Batiquitos and Leucadia pump stations in 2004 to help minimize orders
- ▶ The addition of carbon scrubbers were incorporated during pump stations up-grades
- ▶ All 2004 units were replaced in 2013

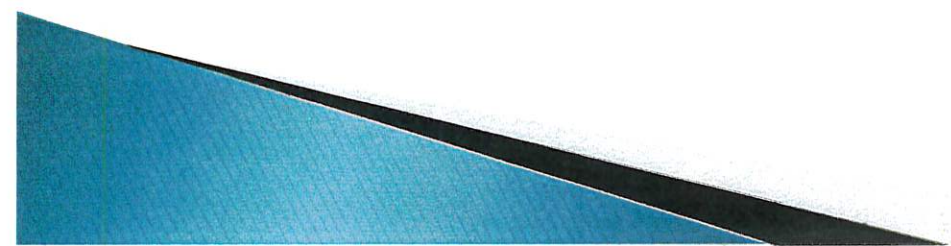


# Discussion Cont.

- ▶ The combinations of Bioxide, Vapex and Carbon Scrubbers work well together helping to minimize odors at both stations
- ▶ Vapex units are a part of districts odor control permit
- ▶ 2013 Vapex units have reached their useful life, replacement parts are no longer available

# Discussion Cont.

- ▶ The purchase of the Vapex units is a sole source procurement.
  - Item or service is of such a unique, proprietary or technical nature that it is only manufactured or provided by a single vendor
  
- ▶ Therefore, staff requests the Engineering Committee recommend to the Board to approve the purchase of two (2) replacement Vapex odor control units not to exceed \$192,000.





# Fiscal Impact

- ▶ Adequate Funds for the purchase of the two Vapex units are included in the FY 2021 Capital Acquisition Budget.

# Questions?





**MEMORANDUM**

**DATE:** June 24, 2020  
**TO:** Engineering Committee  
**FROM:** Paul J. Bushee, General Manager   
**SUBJECT:** **Dexter Wilson Engineering Incorporated Contract Extension for District Engineer Services**

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**RECOMMENDATION:**

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

1. Authorize the General Manager to execute a two-year extension to the Dexter Wilson Engineering, Incorporated Professional Services Agreement for engineering consulting services in an amount not to exceed \$240,000.
2. Discuss and provide direction as appropriate.

**DISCUSSION:**

In July 2017, the District entered into a Professional Services Agreement with Dexter Wilson Engineering, Inc (DWEI) for District Engineer services. The initial contract period was for 3 years with an option to extend the Agreement for 2 additional years. These terms were selected for efficiency and to allow for continuity of service beyond the initial term should it be warranted by DWEI's performance.

The initial three-year period of the DWEI agreement expires in July. Based on DWEI's performance and commitment to the District, staff is recommending that the option for a two-year contract extension be executed. The proposed Amendment No. 1 is attached for your review.

Overall, DWEI has performed exceptionally well and they are recognized as a valuable asset to our District's team.

Therefore, staff requests that the Engineering Committee recommend that the Board of Directors authorize the General Manager to execute a two-year extension to the DWEI Professional Services Agreement for engineering consulting services.

**FISCAL IMPACT:**

There are sufficient funds in the Fiscal Year 2021 Budget to cover the first year of the agreement. Staff plans to include funding in the Fiscal Year 2022 Budget to cover the second year's expenses.

rym:PJB

Attachment



**AMENDMENT NO. 1  
TO THE AGREEMENT BETWEEN  
THE LEUCADIA WASTEWATER DISTRICT  
AND  
DEXTER WILSON ENGINEERING, INCORPORATED  
FOR ENGINEERING CONSULTING SERVICES**

This Amendment No. 1 to the AGREEMENT is made and entered into this 9<sup>th</sup> day of July, 2020 by and between the LEUCADIA WASTEWATER DISTRICT, hereinafter referred to as DISTRICT, and DEXTER WILSON ENGINEERING INCORPORATED, hereinafter referred to as CONSULTANT.

WHEREAS, the DISTRICT and CONSULTANT entered into a three (3) year AGREEMENT for **Engineering Consulting Services** on July 1, 2017; and

WHEREAS, said AGREEMENT includes an option to renew or extend the AGREEMENT for two (2) additional years; and

WHEREAS, DISTRICT has determined it would be most efficient to amend the AGREEMENT to extend the period of services from July 1, 2020 to June 30, 2022 or a period of two (2) years.

NOW THEREFORE, in consideration of their mutual promises, obligations, and covenants hereinafter contained, DISTRICT and CONSULTANT agree to amend the AGREEMENT as follows:

**ARTICLE 1. TERM OF CONTRACT**

Article 1: TERM OF CONTRACT, Section 1.01 shall be amended to read as follows:

1.01 The term of this AGREEMENT shall be extended for a two (2) year period commencing on July 1, 2020 and ending on June 30, 2022, or until terminated as provided under Article 7.

**ARTICLE 4: COMPENSATION**

4.01 Compensation for all work performed under Amendment No. 1 shall be calculated on a time and materials basis. Compensation for the services performed during this extension period shall not exceed Two Hundred Forty Thousand dollars (\$240,000). This amount shall be added to the initial AGREEMENT amount to bring the total not to exceed amount for the AGREEMENT to \$585,000. This amount shall not be exceeded unless there is a change in scope of work, in writing and agreed to by both parties.

**EXHIBIT A SCOPE OF WORK**

As allowed in the AGREEMENT, the adjustments to the DEWI Rate Schedule effective January 1, 2020 per the attached Exhibit B have been reviewed and have mutually been agreed to for the two-year extension.

All other terms and conditions of the AGREEMENT shall remain unchanged.

IN WITNESS WHEREOF, the parties hereto caused this AGREEMENT to be executed the day and year first above written.

**DEXTER WILSON ENGINEERING, INC.**

**LEUCADIA WASTEWATER DISTRICT**

By: \_\_\_\_\_  
Dexter Wilson  
President/Secretary

By: \_\_\_\_\_  
Paul J. Bushee  
General Manager

EXHIBIT B

DEXTER WILSON ENGINEERING, INC.

Rate Schedule  
Effective January 1, 2020

<b>CLASSIFICATION</b>	<b>HOURLY RATE</b>
<b>Office Personnel:</b>	
<b>    Planning/Design</b>	
Principal Engineer (RCE)	\$214.00
Managing Engineer (RCE)	\$205.00
Project Engineer (RCE)	\$186.00
Senior Engineer (RCE)	\$162.00
Design Engineer (RCE)	\$124.00
Associate Engineer II	\$114.00
Associate Engineer I	\$105.00
Engineering Aide II	\$105.00
Engineering Aide I	\$ 91.00
<b>    Drafting/Design</b>	
Senior Designer	\$114.00
Senior Drafter	\$105.00
Drafter II	\$ 86.00
Drafter I	\$ 76.00
<b>    Clerical</b>	\$ 62.00



# **DEXTER WILSON ENGINEERING, INC. CONTRACT EXTENSION**

**(July 2020)**



# Recommendation

Authorize the General Manager to execute a two year extension to the Dexter Wilson Engineering, Incorporated Professional Services Agreement for engineering consulting services.



# Discussion

- July 2017 executed contract for District Engineer services
- Initial period for 3 years
- Option to extend for 2 additional years – based on performance
- Terms for efficiency and continuity of service



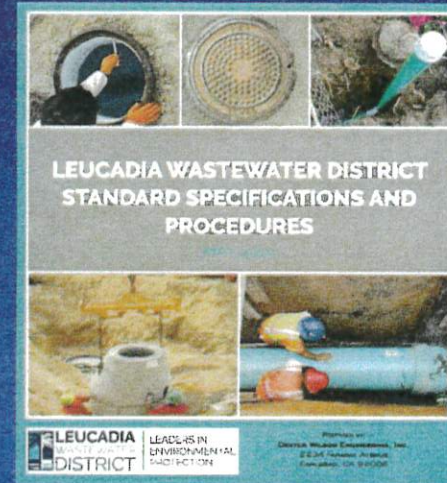


# Discussion (cont.)

## Scope of Services

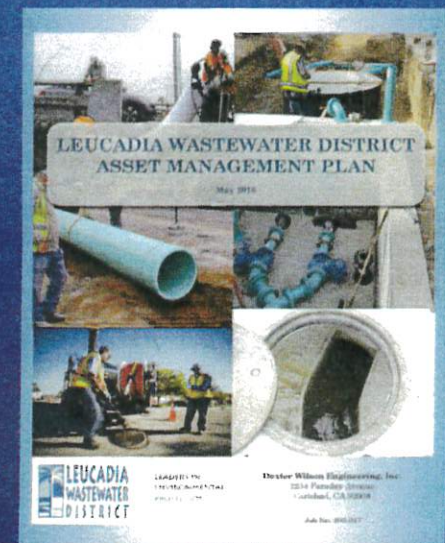
### ➤ District Engineer:

- ✓ Engineering guidance to staff
- ✓ Standard specifications



### ➤ Capital Improvement Program support:

- ✓ Technical review of projects
- ✓ Planning – Asset Management Plan





# Discussion (cont.)

- Development support:
  - ✓ Plan checking
  - ✓ Construction inspection
  - ✓ Annexations



- DWEL has performed exceptionally well and in a highly professional manner



# Recommendation

Authorize the General Manager to execute a two year extension to the Dexter Wilson Engineering, Incorporated Professional Services Agreement for engineering consulting services.



# Questions / Comments



**MEMORANDUM**

**Date:** June 24, 2020  
**To:** Engineering Committee  
**From:** Paul J. Bushee, General Manager  
**Subject:** **Transfer of Capital Funds**



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**RECOMMENDATION:**

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

1. Authorize a transfer of \$50,000 in capital funds from the La Cost Golf Course Realignment Project, 50-51-0357-6499, to the Batiquitos (B3) Force Main Discharge Section Replacement Project account, 50-51-0374-6499.
2. Discuss and take other action as appropriate.

**DISCUSSION:**

As part of the Batiquitos (B3) Force Main Discharge Section Replacement Project (B3 Project) three manholes at the end of the force main were designated to be Cured-In-Place Manhole Lined (CIPML). The manhole at the end of the B3 Force Main was not a conventional manhole and was oddly shaped. The lining contractor recommended that the manhole be replaced instead of CIPML because the liner would not properly fit the odd shape of the manhole. If the liner were installed, it would contain major creases and folds when cured. A Change order was issued for the construction of the new manhole.

In November 2019 a major storm event occurred that resulted in a Sewer System Overflow (SSO) at the Batiquitos Pump Station (BPS). The SSO occurred because the B3 isolation valve at the pump station failed in the close position. The valve failure prevented staff from using the B3 Force Main to increase output at BPS to mitigate the increase of flow into the station during the storm. Charles King Company, the B3 Project Contractor, was asked to repair the B3 isolation valve at the pump station under a Charge Order. It should be noted that subsequent to the valve repair, BPS operated without a SSO during the epic April 2020 storm by pumping through both B2 and B3 Force Mains.

The transfer of funds is necessary to cover these change orders and the associated construction management and inspection costs. Construction of the La Costa Golf Course Realignment Project was completed in May 2019 and final construction payment made in August 2019. There is \$163,000 remaining in that account. Therefore, staff requests authorization to transfer \$50,000 from the La Costa Golf Course Realignment Project to the Batiquitos (B3) Force Main Discharge Section Replacement Project.

rym:PB



**DIANA PUMP STATION  
EMERGENCY GENERATOR SITING**

**(July 2020)**



# Background

## Diana Pump Station Upgrade Project

### ➤ Mechanical:

- ❖ Replace pumps with chopper pumps
- ❖ Replace check and isolation valves

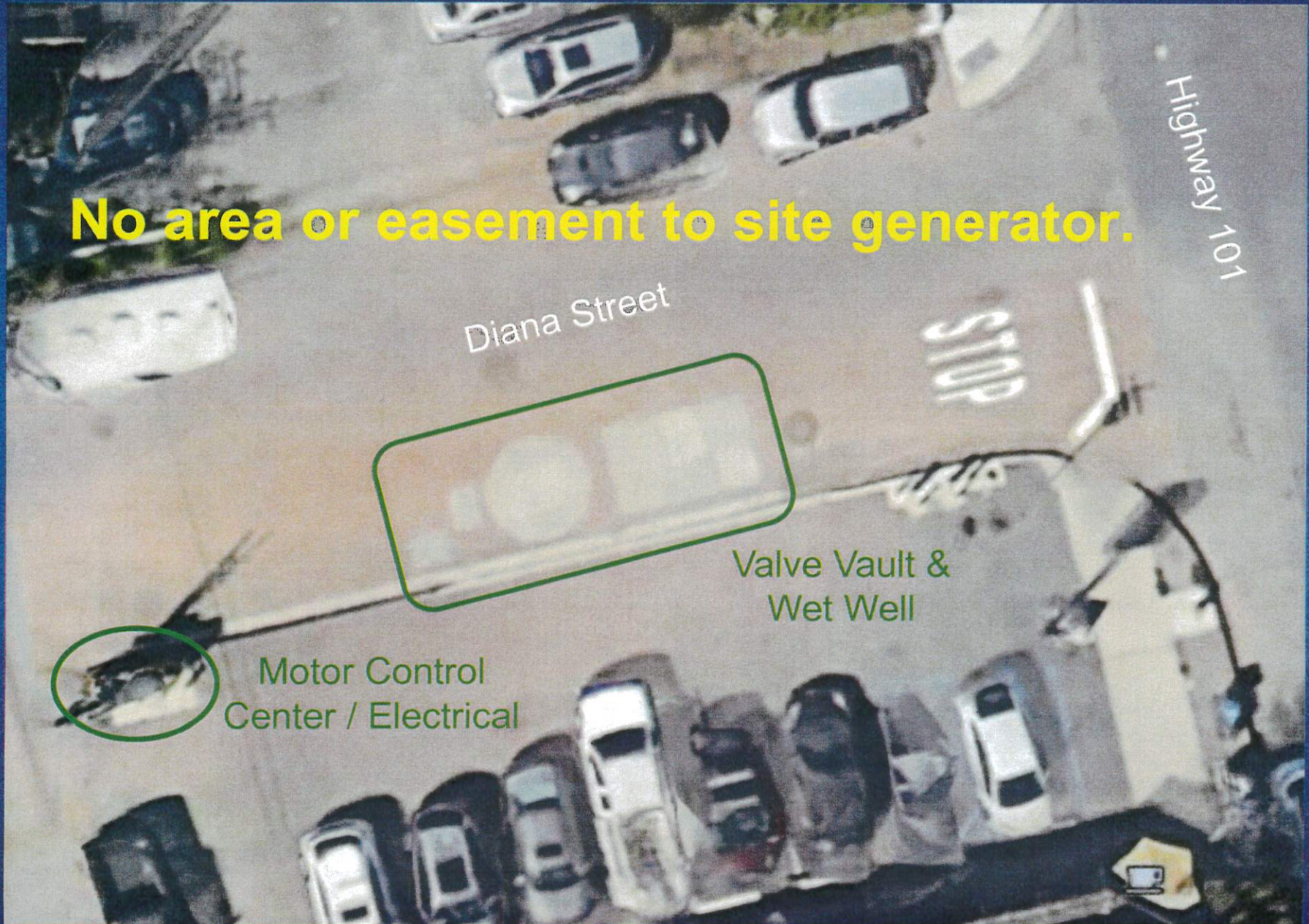
### ➤ Electrical:

- ❖ Pump control upgrade
- ❖ Replace main breaker
- ❖ Relocate above-grade facilities
- ❖ Install emergency generator



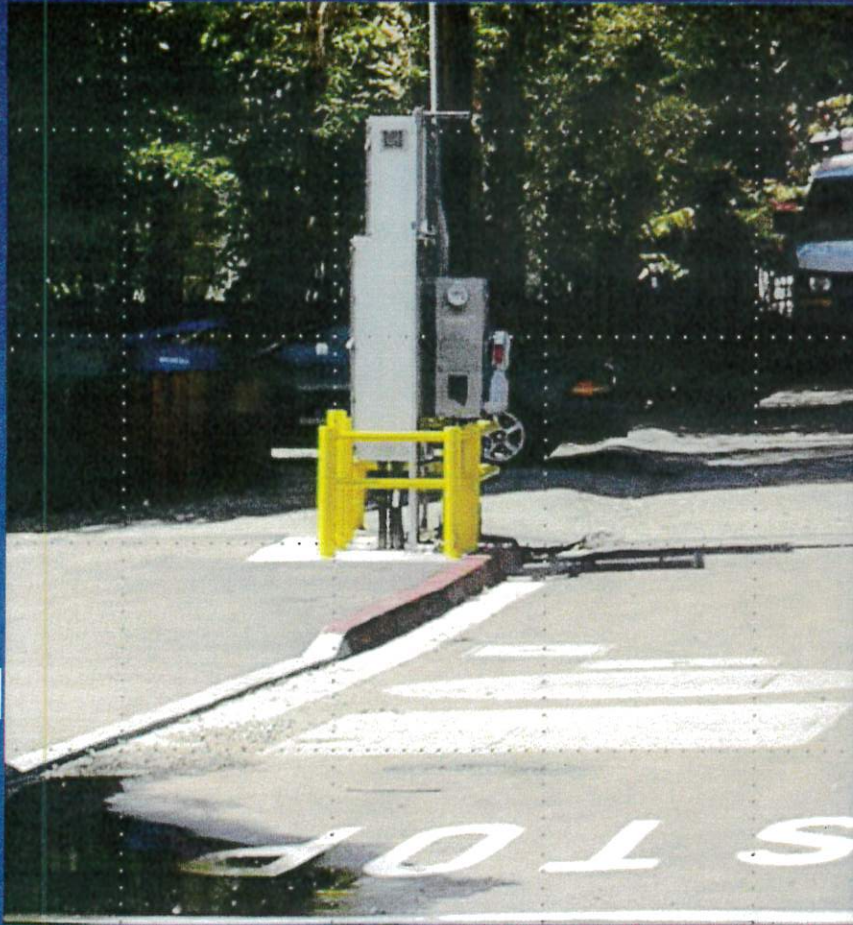
# Diana Pump Station

No area or easement to site generator.





# Motor Control Center (MCC) and Electrical





# Parcel Location

26



Diana Street

**Diana Pump Station**

Highway 101

© 2019 Google

STOP  
Google Earth



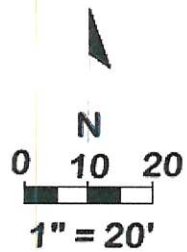




# Preliminary Site Layout

APN 254-292-28

APN 254-292-15-00



PROPOSED PARCEL  
294 SF  
0.0067 AC  
CONC BLOCK  
WALL



MANUAL TRANSFER SWITCH  
W/ PORTABLE GENERATOR  
CONNECTIONS  
AUTOMATIC  
TRANSFER SWITCH

BEACHWALK RESIDENT  
ACCESS TO REMAIN

SDG&E PAD MOUNT  
TRANSFORMER

ACCESS DOUBLE  
GATE

DIANA STREET

ACCESS DOOR

MOTOR CONTROL  
CENTER AND REMOTE  
TELEMETRY UNIT

CLEANOUT

DIANA PUMP STATION  
AND VALVE VAULT

SDG&E METER  
PEDESTAL

EXIST HANDHOLES

CONC PAD

PROPOSED PULL BOX

CONDUIT TO PUMP  
STATION

DEMO EXIST ELEC SERVICE,  
PUMP CONTROL, RTU, AND  
POLE/BARRIERS

N COAST HWY 101



**Beachwalk  
Condominiums**





# Discussion

- Contacted Beachwalk property manager
- Onsite meeting with Beachwalk HOA
- HOA open to providing an easement
- Property appraisal required



# Discussion (cont.)

➤ Parcel area = 423 square feet





# Questions / Comments