

DISTRICT BOARD Megan Clark Rabi Elias Craig K. Murray Judy Schriebman Crystal Yezman

DISTRICT ADMINISTRATION

Mike Prinz, General Manager Michael Cortez, District Engineer Mel Liebmann, Plant Manager Greg Pease, Collection System/Safety Manager Vacant, Administrative Services Manager

August 28, 2020

To: Interested Parties

Re: Request for Proposals (RFP) Digester Room MCC-2 Upgrades Job No. 21600-06

Dear Prospective Consultants:

The Las Gallinas Valley Sanitary District is seeking proposals from qualified engineering firms to provide design services for the Digester Room MCC-2 Upgrades project. The proposal shall be prepared as per the guidelines set forth in the attached RFP.

If you would like your firm to be considered, five (5) hard copies **and** a PDF file of your proposal on a CD or USB flash drive must be mailed to the LGVSD Engineering Department, 101 Lucas Valley Road, Suite 300, San Rafael, CA 94903; Attention: Michael P. Cortez PE, District Engineer, no later than **2:00 PM on September 21, 2020**. An interview process for the selection of a consultant, if deemed necessary by the District, is tentatively scheduled for the week of September 21, 2020. Award of a contract for this RFP is scheduled for October 15, 2020.

Please contact me or Irene Huang at (415) 472-1734 if you have any questions.

Sincerely,

Michaelpm

Michael P. Cortez, PE District Engineer

1.0 **OBJECTIVE**

The Las Gallinas Valley Sanitary District (LGVSD) is requesting proposals to provide electrical engineering services for the relocation of the existing Digester Room MCC-2 to an unclassified (non-hazardous) location. See *Attachment 2* for preferred location. Prospective Consultants must be licensed professional engineers in the State of California.

Some electrical equipment of LGVSD are original installation such as MCC-2, which is a Square D Company Type CCP Switchboard/MCC installed in 1964. It is currently in use for two digester "scum buster" pumps, hot water boiler pump recirculation, heated sludge liquor pump, and lighting panel. See *Attachment 3* for as-builts. The District has budgeted \$200,000 for design and construction.

2.0 SCOPE OF SERVICES

Consulting services shall include but not be limited to the following:

- 1. Design should include relocation of existing MCC unit and related work.
- 2. Review available as-builts and conduct field verification as necessary to verify existing condition.
- 3. Evaluate feasibility of preferred location and propose a new location if necessary.
- 4. Include special considerations related to maintaining existing equipment and service during installation and tie over. All existing equipment that communicates to the existing MCC shall function with the relocation.
- 5. Prepare full set of plans and technical specifications for the required work. Plans shall include all necessary general, site, demolition, and electrical drawings. LGVSD will provide "front end" boiler plate contract language.
- 6. Prepare project cost estimates at 50% and 95% design, including engineer's estimate two weeks before bid advertisement.
- 7. Provide engineering services during bid phase including attendance at pre-bid meeting, site walk, responding to RFI's from bidders and preparation of addenda.
- 8. Provide engineering services during construction phase including review of all submittals and shop drawings, and responding to contractor RFI's.
- 9. Identification of a project manager, who will serve as a contact person to the District.
- 10. Attend and prepare agendas and minutes for project meetings.
- 11. Prepare as-built drawings based on redlined drawings and communication with contractor and District inspector. Provide record drawings in PDF and AutoCAD formats.

- 12. Participation in the preparation of corrective action list (punch list) prior to final acceptance of the District.
- 13. Perform final inspection for conformance to original intent of the design.
- 14. Additional services as may be specified by the District.

3.0 **PROPOSAL REQUIREMENTS AND CONTENTS**

The proposal shall be prepared in accordance with the following. Material submitted in addition to that specifically required will not be reviewed.

- 1. **General Firm Information:** This section shall include the following:
 - a. Firm Project References. Submit three (3) references, including current contact name and phone number for similar project.
 - b. Organizational Chart
 - c. Résumés
 - d. Hourly Rates
- 2. **Maximum Number of Pages:** 10 single-sided pages including résumés, list of example projects, and fee schedule.

4.0 CONSULTANT SELECTION PROCESS

If deemed necessary, the District may invite up to three (3) firms for oral interviews. The selection panel will consist of the General Manager, District Engineer, and Associate Engineer.

The criteria that will be used in evaluating the proposals include, but are not limited to the following:

- 1. Knowledge and understanding of District needs.
- 2. Commitment of key personnel and their experience.

5.0 TENTATIVE CONSULTANT SELECTION AND OVERALL PROJECT SCHEDULE

1. **Request for Proposals Published** August 28, 2020 Ouestions on the RFP no later than: 2. September 14, 2020 3. Proposal Deadline: September 21, 2020 at 2:00 PM Oral Interviews (optional): Week of September 21, 2020 October 15, 2020 Award of a Consultant Contract: 4. Contract Duration 6 Months 5.

6.0 STANDARD CONSULTANT AGREEMENT

The Consultant selected to provide the Scope of Services shall use the attached District's standard consultant Agreement (Attachment 1). By submitting a proposal for this work, the Consultant agrees to utilize this form for the contract. Contractually required insurance coverage and endorsement information is shown in the body of the document.

ATTACHMENT 1

AGREEMENT FOR CONSULTATION AND PROFESSIONAL ENGINEERING SERVICES

		SERVSERVPROJEC	VICES for CT
(JOB NO		_)	
THIS AGREEMENT made this	day of	,	by and
between the LAS GALLINAS VALLEY S.	ANITARY DISTRI	CT (hereinafter	referred to as
"District"), and		, whose ad	ldress is,
	here	einafter referred	to as

"Consultant");

WITNESSETH:

IN CONSIDERATION of the mutual covenants and conditions herein contained, the parties do hereby agree as follows:

1. General

DISTRICT engages CONSULTANT to furnish the services hereinafter mentioned upon the covenants and conditions of this Agreement, at the compensation herein stipulated, and CONSULTANT accepts said engagement upon said terms.

2. Duties of Consultant; Services to be Performed by Consultant

CONSULTANT shall perform such duties and services as are listed on **Exhibit A** attached hereto, and is hereby referred to and made a part hereof by reference. Said services shall be completed according to the time schedule contained in **Exhibit A**.

3. Services or Materials to be Performed or Furnished by District

DISTRICT shall perform such services or furnish such materials to CONSULTANT in connection with this Agreement as are set forth on **Exhibit B**. If there are no entries on said **Exhibit B**, DISTRICT, shall not be required to provide any services or furnish any materials to CONSULTANT. Unless otherwise provided on **Exhibit B**, all said services and materials to be furnished by DISTRICT will be without cost to CONSULTANT.

4. Payment by District: Time and Manner of Payment

DISTRICT shall pay CONSULTANT, for all services to be rendered and all materials to be furnished under this Agreement, the amount specifically set forth and in the manner specifically set forth on **Exhibit C**. CONSULTANT agrees to accept said sum as full compensation for all services due under this Agreement. Notwithstanding any other language in the Agreement or any exhibits, CONSULTANT agrees that it will perform all tasks for a sum not to exceed ________ (\$______U.S. Dollars). This is an Agreement for a specific task as defined in Exhibit A, Consultant Services

(Scope of Work), for ______Project,

and CONSULTANT has accurately determined the price of those tasks.

5. Authorization To Perform Services

The CONSULTANT is not authorized to perform any services, or incur any costs whatsoever under the terms of this Agreement until receipt of written authorization from the DISTRICT.

6. Additional Work

CONSULTANT shall be entitled to extra compensation for services or materials not otherwise required under this Agreement or described in **Exhibit A**, provided that DISTRICT shall first have identified the services or materials as extra, and requested such extra services or materials in writing, but in no event shall DISTRICT be liable for payment unless the amount of such extra compensation shall first have been agreed to in writing by DISTRICT.

7. Professional Skill

CONSULTANT represents that it is skilled in the professional calling necessary to perform the work agreed to be done by it under this Agreement. CONSULTANT represents and warrants to DISTRICT that it has all licenses, permits, qualifications that are legally required for CONSULTANT to practice its profession and that CONSULTANT shall, at its sole cost and expense, keep all such licenses, permits, and approvals which are legally required for CONSULTANT to practice its profession in effect. DISTRICT relies upon the skill of CONSULTANT to do and perform its work in a skillful manner, and CONSULTANT agrees to thus perform its work, and the acceptance of its work by DISTRICT shall not operate as a release of CONSULTANT from said Agreement. For purposes of this Agreement, "skillful manner" shall mean the standard of care prevailing in the industry in the San Francisco Bay Area during the term of this Agreement.

8. Equal Employment Opportunity

CONSULTANT shall not discriminate against any employee or applicant for employment and shall comply with the provisions of Section 12940 of the Government Code.

9. Compliance with Laws

CONSULTANT shall comply with all federal, state and District laws, statutes, ordinances, rules and regulations and the orders and decrees of any courts or administrative bodies or tribunals in any manner affecting the performance of the Agreement. Any suit or action by either party shall be brought in the Superior Court for the County of Marin, California. The laws of the State of California shall govern this Agreement.

10. Labor Compliance

This project is subject to the requirements of Section 1720 et seq. of the California Labor Code requiring the payment of prevailing wages, the training of apprentices and compliance with other applicable requirements. Contractors and all subcontractors who perform work on the project are required to comply with these requirements. Prevailing wages apply to all projects over \$1,000 which are defined as a "public work" by the State of California.

The applicable California prevailing wage rate can be found at www.dir.ca.gov and are on file with the Agency's principal office, which shall be available to any interested party upon request.

Contract Template Reviewed May 2018 by P. Richardson

Specifically, contractors are reminded of the need for compliance with Labor Code Section 1774-1775 (the payment of prevailing wages and documentation of such), Section 1776 (the keeping and submission of accurate certified payrolls) and 1777.5 in the employment of apprentices on public works projects. Further, overtime must be paid for work in excess of 8 hours per day or 40 hours per week pursuant to Labor Code Section 1811-1813.

No contractor or subcontractor may be listed on a bid proposal for a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].

No contractor or subcontractor may be awarded a contract for public work on a public works project, unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

All contractors/subcontractors and related construction services subject to prevailing wage, including but not limited to: trucking, surveying and inspection work must be registered with the Department of Industrial Relations as a "public works contractor". Those you fail to register and maintain their status as a public works contractor shall not be permitted to perform work on the project.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

The Agency shall withhold any portion of a payment; including the entire payment amount, until certified payroll forms and related documentation are properly submitted, reviewed and found to be in full compliance. In the event that certified payroll forms do not comply with the requirements of Labor Code Section 1720 et seq., the Agency may continue to hold sufficient funds to cover estimated wages and penalties under the contract.

11. Independent Contractor; Not An Agent

CONSULTANT, at all times during the term of this Agreement is acting as an independent contractor in furnishing the services or materials and performing the work required by this Agreement and is not an agent, servant or employee of DISTRICT. Notwithstanding any other DISTRICT, state or federal policy, rule, regulation, law, or ordinance to the contrary, CONSULTANT and any of its employees, agents, and subcontractors providing services under this Agreement shall not qualify for or become entitled to, and hereby agree to waive any and all claims to, any compensation, benefit, or any incident of employment by DISTRICT, including but not limited to eligibility to enroll in the California Public Employees Retirement System (PERS) as an employee of DISTRICT and entitlement to any contribution to be paid by DISTRICT for employer contributions and/or employee contributions for PERS benefits.

Except as DISTRICT may specify in writing, CONSULTANT shall have no authority, express or implied, to act on behalf of DISTRICT in any capacity whatsoever as an agent or pursuant to this Agreement to bind DISTRICT to any obligation whatsoever.

12. Time

CONSULTANT shall devote such time to the performance of services pursuant to this Agreement as may be reasonably necessary for satisfactory performance of CONSULTANT'S obligations pursuant to this Agreement.

13. Indemnity

CONSULTANT agrees to indemnify and save harmless and defend with counsel acceptable to DISTRICT, the DISTRICT, its officials, officers, employees, agents, and volunteers from and against any and all losses, liability, suits, actions, costs, expenses, claims, causes of action and damages (including costs of defense) arising out of any personal injury, bodily injury, loss of life, or damage to property, or any violation of any federal, state, or municipal law or ordinance to the extent caused, in whole or in part, by recklessness, the willful misconduct or negligent acts or omissions of CONSULTANT, its officers, employees, agents, consultants, subcontractors or any officer, agent or employee thereof but excluding liabilities due to the active negligence of the DISTRICT. By execution of this Agreement, CONSULTANT acknowledges and agrees that CONSULTANT has read and understands the provisions hereof and that this paragraph is a material element of consideration. DISTRICT and CONSULTANT agree that this Agreement is consistent with Section 2782.8 of the Civil Code.

14. Insurance: Public Liability, Workers' Compensation, Errors and Omissions

CONSULTANT shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the CONSULTANT, its officers, subcontractors, agents, representatives, or employees.

CONSULTANT shall be required to meet all District Insurance Requirements. See **Exhibit D** for District Insurance Requirements.

15. Consultant Professional Team

CONSULTANT shall provide and maintain the professional team to perform and furnish the materials in connection with this Agreement whose names and capacities are set forth on **Exhibit E**. In the event that any member of said team shall leave the employ of CONSULTANT or be transferred to another office of CONSULTANT, CONSULTANT shall so advise DISTRICT and replace that member with a new member who is competent to perform the required work and who shall be satisfactory to DISTRICT. Such other agents or employee contractors or subcontractors not listed on **Exhibit E** as may be required to perform any portion of this Agreement shall be competent and shall be suitably experienced in the function which they perform.

16. Notices

Unless otherwise provided herein, all notices required hereunder shall be given by certified mail, postage prepaid and addressed to the party at the address indicated in the opening

paragraph of this Agreement provided, however, that in lieu thereof, notice may be given by personal delivery to the party at said address.

17. Title to Documents

All original calculations, photographs, maps, drawings, plans, design notes and other material or documents developed or used in connection with the performance of this Agreement shall be the property of DISTRICT provided, however, that CONSULTANT may provide DISTRICT with legible photostatic copies thereof in lieu of the originals upon approval by DISTRICT representative. All such material and documents shall remain confidential and may not be divulged, published or shared by CONSULTANT without the prior written consent of DISTRICT. Any plans and specifications shall bear the name of the CONSULTANT together with his certificate number, if any. If CONSULTANT'S working papers or product includes computer generated statistical material, CONSULTANT shall provide the material including the data base upon which it is based to DISTRICT in a mutually agreed upon computer machine-readable format and media.

18. Assignment

Neither party shall assign or sublet any portion of this Agreement without the written consent of the other party in writing.

19. Termination

Without limitation to such rights or remedies as DISTRICT shall otherwise have by law, DISTRICT shall also have the right to terminate this Agreement for any reason upon seven (7) days' written notice to CONSULTANT. This Agreement may also be terminated by either party upon seven (7) days' written notice should the other party fail substantially to perform in accordance with this agreement through no fault of the other or if the project is stopped by conditions beyond the control of the DISTRICT.

In addition to terminating this Agreement if CONSULTANT materially breaches any of the terms of this Agreement, DISTRICT'S remedies shall include, but not be limited to:

- Retain the plans, specifications, drawings, reports, design documents, and any other work product prepared by CONSULTANT pursuant to this Agreement;
- Retain a different consultant to complete the work described in **Exhibit A** not finished by CONSULTANT; and/or

This description of DISTRICT's remedies does not otherwise limit DISTRICT's remedies at law or equity.

20. Consultant Nondisclosure

CONSULTANT will not directly or indirectly use (other than for the DISTRICT), publish, or otherwise disclose at any time (except as CONSULTANT'S duties may require), either during or subsequent to the performance of consulting services, any of DISTRICT's confidential information (whether or not conceived, originated, discovered, or developed in whole or in part by CONSULTANT) as defined below.

"Confidential information" means information or material that is not generally available to or used by others, or the utility or value of which is not generally known or recognized as standard practice whether or not the underlying details are in the public domain, including without limitation:

- a. Information or material that relates to DISTRICT'S inventions, technological developments, "know how", purchasing, accounting, merchandising or licensing;
- b. Trade secrets;
- c. Software in various stages of development (source code, object code, documentation, diagrams, flow charts), designs, drawings, specifications, models, data and customer information; and
- d. Any information of the type described above that DISTRICT obtained from another party and that the DISTRICT treats as proprietary or designates as confidential, or is obligated to do so by virtue of a third-party agreement, whether or not owned or developed by the DISTRICT.

The obligations of confidentiality imposed herein will not apply to confidential information that:

- a. Is or has been generally available to the public by any means, through no fault of CONSULTANT and without breach of these provisions.
- b. Is or has been lawfully disclosed to CONSULTANT by a third party without an obligation of confidentiality being imposed upon CONSULTANT.
- c. Has been disclosed without restriction by the DISTRICT or by a third party owner of confidential information.
- d. Was required to be disclosed pursuant to law.

CONSULTANT agree to deliver to DISTRICT promptly on request, or on the date of termination of CONSULTANT'S services, all documents, software, including any copies, and other materials in CONSULTANT'S possession pertaining to the business of DISTRICT and originating with the DISTRICT that came into CONSULTANT'S possession.

The disclosure of confidential information shall not be construed as granting either a license under any patent, patent application or any right of ownership in said confidential information.

CONSULTANT acknowledges and agrees that in the event of a breach or threatened breach of any provisions of this Agreement, the DISTRICT shall have no adequate remedy at law and shall therefore be entitled to enforce any such provision by temporary or permanent injunctive or mandatory relief obtained in any court without the necessity of proving damages, posting any bond or other security, and without prejudice or diminution of any other rights or remedies which may be available at law or in equity.

21. No-Waiver; Construction

Failure on the part of either party to enforce any provisions of this Agreement shall not be construed as a waiver of the right to compel enforcement of such provisions or any other provision. The singular number shall include the plural, and the masculine gender shall include the feminine gender and neuter gender whenever the context of this Agreement permits.

22. Mediation

Should any dispute arise out of this Agreement, the parties shall meet in mediation and attempt to reach a resolution with the assistance of a mutually acceptable mediator. Neither party shall be permitted to file a legal action without first meeting in mediation and making a good faith attempt to reach a mediated resolution. The costs of the mediator, if any, shall be shared equally by the parties. If a mediated settlement is reached, neither party shall be deemed the prevailing party for purposes of the settlement and each party shall bear its own legal costs.

23. Attorney's Fees

If a party brings any action, including an action for declaratory relief, to enforce or interpret the provisions of this Agreement, the prevailing party is entitled to reasonable attorneys' fees in addition to any other relief to which that party may be entitled. Such fees may be set by the court in the same action or in a separate action brought for that purpose.

24. Survival

All obligations arising prior to the termination of this Agreement and all provisions of this Agreement allocating liability between DISTRICT and CONSULTANT survive the termination of this Agreement.

25. Conflict of Interest

CONSULTANT may serve other clients, providing that activities in the service of other clients do not place CONSULTANT in a "conflict of interest" as that term is defined in the Political Reform Act codified at California Government Code § 81000 *et seq.* or Section 1090 et seq. of the Government Code.

26. Severability

If a court of competent jurisdiction finds or rules that any provision of this Agreement is invalid, void, or unenforceable, the provisions of this Agreement not so adjudged shall remain in full force and effect. The invalidity in whole or in part of any provision of this Agreement shall not void or affect the validity of any other provision of this Agreement.

27. Additional Provisions, Exhibits

Additional provisions of this Agreement are set forth on **Exhibits A through Exhibit F**. All Exhibits shall be attached to, and are hereby referred to and made a part hereof by reference.

28. Entire Agreement: Amendment

This contract supersedes any and all other agreements, whether oral or in writing, between the parties with respect to the subject of this contract. Except as to those documents specifically incorporated by reference into this contract, this contract contains all of the covenants and agreements between the parties with respect to the subject of this contract, and each party acknowledges that no representations, inducements, promises, or agreements have been made by or on behalf of any party except the covenants and agreements embodied in this contract. No agreement, statement, or promise not contained in this contract shall be valid or binding on the parties with respect to the subject of this contract. No modifications hereof shall be effective unless such modification is in writing signed by all parties to this Agreement.

IN WITNESS WHEREOF, the parties have hereunto set their hands the day and year first above written.

LAS GALLINAS VALLEY SANITARY DISTRICT

By _____ Mike Prinz, General Manager

Date

CONSULTANT/SERVICE NAME

Signature

Date

Ву_____ Print Name

Title

NOTE: The following exhibits are hereby incorporated into this agreement by this reference:

Exhibit A:	Consultant Services (Scope of Work)
Exhibit B:	Services or Materials to be Performed or Furnished by District
Exhibit C:	Payment Schedule
Exhibit D:	District Insurance Requirements
Exhibit E:	Consultant Team
Exhibit F:	District Safe Work Requirements
	1. Contractor/Consultant Safe Work Requirements

Confined Space Entry Program 2.

Exhibit A

Consultant Services (Scope of Work)

Exhibit B

Services or Materials to be Performed or Furnished by District

Exhibit C

Payment Schedule

Exhibit D

District Insurance Requirements

Insurance Requirements for Professional Services

Consultant shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder and the results of that work by the Consultant, his agents, representatives, employees or subcontractors.

MINIMUM SCOPE OF INSURANCE

Coverage shall be at least as broad as:

- Commercial General Liability (CGL): Insurance Services Office Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations, property damage, bodily injury and personal & advertising injury with limits no less than \$2,000,000 per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required occurrence limit.
- 2. Automobile Liability: ISO Form Number CA 00 01 covering any auto (Code 1), or if Consultant has no owned autos, covering hired, (Code 8) and non-owned autos (Code 9), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.
- 3. Workers' Compensation: as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease. (Not required if consultant provides written verification it has no employees)
- 4. employees)
 Professional Liability (Errors and Omissions): Insurance appropriates to the Consultant's profession, with limit no less than \$1,000,000 per occurrence or claim, \$2,000,000 aggregate. (If applicable see footnote next page)

If the consultant maintains broader coverage and/or higher limits than the minimums shown above, the Entity requires and shall be entitled to the broader coverage and/or higher limits maintained by the contractor. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the Entity.

Other Insurance Provisions

The insurance policies are to contain, or be endorsed to contain, the following provisions:

Additional Insured Status

The Entity, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Consultant including materials, parts or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Consultant's insurance (at least as broad as ISO Form CG 20 10 11 85 or both CG 20 10, CG 20 26, CG 20 33, or CG 20 38; and CG 20 37 forms if later revisions used).

Primary Coverage

For any claims related to this contract, the **Consultant's insurance coverage shall be primary** insurance coverage at least as broad as ISO CG 20 01 04 13 as respects the Entity, its officers,

officials, employees, and volunteers. Any insurance or self-insurance maintained by the Entity, its officers, officials, employees, or volunteers shall be excess of the Consultant's insurance and shall not contribute with it.

Notice of Cancellation

Each insurance policy required above shall provide that **coverage shall not be canceled, except** with notice to the Entity.

Waiver of Subrogation

Consultant hereby grants to Entity a waiver of any right to subrogation which any insurer of said Consultant may acquire against the Entity by virtue of the payment of any loss under such insurance. Consultant agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the Entity has received a waiver of subrogation endorsement from the insurer.

Self-Insured Retentions

Self-insured retentions must be declared to and approved by the Entity. The Entity may require the Consultant to purchase coverage with a lower retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention. The policy language shall provide, or be endorse to provide, that the self-insured retention may be satisfied by either the name insured or Entity.

Acceptability of Insurers

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A:VII, unless otherwise acceptable to the Entity.

Claims Made Policies (note – should be applicable only to professional liability, see below) If any of the required policies provide claims-made coverage:

- 1. The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.
- 2. Insurance must be maintained and evidence of insurance must be provided *for at least five* (5) *years after completion of the contract of work.*
- 3. If coverage is canceled or non-renewed, and not replaced *with another claims-made policy form with a Retroactive Date prior to* the contract effective date, the Consultant must purchase "extended reporting" coverage for a minimum of *five* (5) years after completion of work.

Verification of Coverage

Consultant shall furnish the Entity with original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the Entity before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant's obligation to provide them. The Entity reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Special Risks or Circumstances

Entity reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

Sub Contractors

Consultant shall require and verify that all subconstructors maintain insurance meeting all the requirements stated herein, and Consultant shall ensure that Entity is an additional insured on insurance required from subcontractors.

Note: Professional liability insurance coverage is normally required if the Consultant is providing a professional service regulated by the state. (Examples of service providers regulated by the state are insurance agents, professional architects and engineers, doctors, certified public accountants, lawyers, etc.). However, other professional Consultants, such as computer or software designers, technology services, and services providers such as claims administrators, should also have professional liability. If in doubt, consult with your risk management or insurance advisor.

Exhibit E

Consultant Team

Exhibit F 1. Safe Work Requirements

LAS GALLINAS VALLEY SANITARY DISTRICT

CONTRACTOR SAFE WORK REQUIREMENTS

Revised June 8, 2017

SAFETY POLICY

Contractors and their subcontractors working for the Las Gallinas Valley Sanitary District shall comply with all applicable federal, state, and local safety orders in the performance of any work on District projects. In addition, Contractors and their subcontractors shall comply with all safety regulations and procedures listed in this Safe Work Requirements. Contractors shall take any additional precautions necessary to prevent injury or damage to persons, property, or interference with District operations.

Contractors shall be responsible for notifying employees, subcontractors, and invitees of these District Safe Work Requirements. No work within District facilities or on District contract work sites shall begin prior to such notification. Contractor shall not allow a new employee or new subcontractor to begin work on District projects without having conducted a full and proper safety orientation.

Contractors doing work at the Treatment Plant facility, lift stations or sewage conveyance systems shall schedule a safety orientation session for their site Superintendent and other Contractor-designated personnel with the Authorized District Representative prior to commencing work. The orientation session shall include emergency procedures, an explanation of applicable District safety policies, and any unique and inherent hazards of District facilities. It is then the responsibility of the Contractor's Superintendent or designated personnel to orient and so inform all personnel under the Contractor's supervision.

The District may, in its sole discretion, either temporarily or permanently remove a Contractor's employee from District work and/or terminate the Contractor's right to proceed for any violation of applicable Cal/OSHA Construction Safety Orders or these District Safe Work Requirements.

DEFINITIONS

As used in this Safe Work Requirement, the following definitions are applicable:

A. **PARTS AND MATERIALS**:

All products, materials, devices, systems, or installations installed by Contractor shall have been approved, listed, labeled, or certified as conforming to applicable governmental or other nationally recognized standards, or applicable scientific principles. The listing, labeling, or certification of conformity shall be based upon an evaluation performed by a person, firm, or entity with appropriate registered engineering competence; or by a person, firm, or entity, independent of the manufacturer or supplier of the product, with demonstrated competence in the field of such evaluation.

B. CONTRACTOR

Designates "Contractor", "Contractors", "Sub-Contractors", "Suppliers", and all employees of each.

C. AUTHORIZED DISTRICT REPRESENTATIVE

The District's Authorized Representatives shall be the employee(s) designated by the District to be responsible for communicating with the Contractor.

D. **DISTRICT JURISDICTION**

For the purposes of these regulations, "District" Shall mean the Las Gallinas Valley Sanitary District.

E. TREATMENT PLANT AND FACILITIES

For the purposes of these regulations, "Treatment Plant & Facilities" shall include the District's Wastewater Treatment Plant, lift stations and sewage conveyance systems located within the boundaries of the District.

EMERGENCY PROCEDURES

A. **FIRST AID**

Contractors shall be responsible for providing first aid and medical treatment for their employees and for compliance with the first aid requirements of all applicable Cal/OSHA Construction Safety Orders.

Contractors shall be responsible for making prior arrangements for emergency medical care and for transportation of injured Contractor personnel.

B. **FIRE**

When work is being performed which generates sparks or open flames, the Contractor will provide a fire watch, a person trained in the use of appropriate fire fighting equipment, whose only task is to observe and extinguish fires. A District "Hot Works" permit must be filled out and turned into the Collection System / Safety Manager, or General Manager when the Safety Manager is not available, when work is completed. Contractor shall ensure that appropriate fire extinguisher(s) are available at the specific work site for use in case of a fire. All Contractor's employees shall be properly trained to use them.

In the event of a fire, Contractor shall immediately notify the nearest District employee and if possible, call emergency (911) and give the location of the plant, which is 300 Smith Ranch Rd. San Rafael. A map of the wastewater plant is included in this policy. Refer to Attachment A.

BASIC SAFETY RESPONSIBILITIES AT DISTRICT FACILITIES

A. **COMMUNICATION**

Contractor shall maintain close communication with the Authorized District Representative. Contractors should sign-in at the office at the beginning and end of each day along with a headcount of crew members.

B. **RESPONSIBILITY**

Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the work. The Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss, to:

- 1. All employees on the work site and other persons and organizations who may be affected thereby.
- 2. All the work, materials, and equipment to be incorporated therein, whether in storage or off the site.
- 3. Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation, or replacement in the course of construction.

Contractor shall comply with all applicable laws and regulations (whether referred to herein or not) of any public agency having jurisdiction over the safety of persons or property, or the protection of persons from damage, injury, or loss, and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify owners of adjacent property and facilities when performance of the work may affect them, and shall cooperate with them in the protection, removal, relocation and replacement of their property and facilities.

Contractor shall designate a responsible representative at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's Superintendent unless otherwise designated in writing by the Contractor to the District.

C. GENERAL SAFETY REGULATIONS Basic Rules:

- Work shall not begin until the Contractor's personnel have been informed of the District's Safe Work Requirements and potential hazards. The District employee responsible for the project is responsible for advising the Contractor of the District's Safe Work Requirements and potential hazards.
- All safety procedures applicable to the job being performed, including use of appropriate protection equipment, shall be followed.
- The Contractor's personnel shall **never** operate, use, adjust, modify or relocate any District equipment, switches, valves, or other controls. The Authorized

District Representative must be contacted should operation, adjustment, modification, or relocation of District equipment be necessary.

- Contractor's use of District instruments, tools, ladders, scaffolding or other equipment is not permitted except in cases of emergency as determined by a District supervisor or by permission from a senior Manager of the District.
- Drinking water shall be supplied by Contractor. <u>Do Not Drink Water from Hose</u> <u>Connections at any District Facility</u>.
 - Hose bib connections are located throughout the treatment plant. Most of these supply treated wastewater and may or may not be posted with signs reading "Do Not Drink." In any case, <u>never</u> drink water from hose bibs or hoses.
 - 2. Water lines throughout the treatment plant are color coded (when not stainless steel) and labeled as follows:

Recycle Water Piping	Purple
Domestic Water Piping	Blue
Service Water Piping (Plant Effluent)	Gray

- 3. Hose connections may be used to wash down equipment. Never hose down electrical or heated equipment of any kind. If an employee has used a gray or purple water hose for wash down, he/she should immediately wash their hands in domestic water with soap.
- NEVER make any connection to any water line without first verifying with the Authorized District Representative that contamination of the water lines will not occur.
- Use of alcoholic beverages and/or illegal drugs by Contractor or any employee is strictly prohibited. Smoking within the plant is prohibited. Use of prescription or non-prescription drugs which interfere with the individual's ability to work safely is also prohibited.
- Contractor shall advise the Authorized District Representative of any employee with any medical conditions that could put the employee in danger.

Personal Protection Equipment:

- Contractor shall be responsible for providing and assuring use by employees of all OSHA required protective equipment.
- Approved respiratory equipment shall be worn when the possibility of exposure to hazardous dusts, vapors, fumes, mists, or gases exists. In addition to all other safety regulations, pipes or conduit should be mechanically BLOCKED off when being worked on. District safety procedures shall be followed when working on, but not limited to, the following systems:
 - 1) Natural gas and sludge gas (Methane)

- 2) Ferrous Chloride
- 3) Polymer
- 4) Hypochlorite
- 5) Compressed Air
- 6) Sodium Bisulfite

Contractor shall be responsible for determining the existence and location of such systems prior to commencement of work.

Power Tools and Welding Equipment:

- Gasoline and electrical powered hand tools shall be protected by approved ground fault circuit interrupters, or shall be double insulated. Cords shall be inspected daily prior to use. Damaged cords shall not be used on District work.
- Pneumatic driven power tools shall be disconnected from air lines when not in use. Hoses shall be inspected daily prior to use. Damaged hoses shall not be used on District work.
- Power tools shall be used only by trained personnel who have a valid license (when applicable, i.e, welding) in their possession. Proper warning signs shall be posted when these tools are in use.
- Electric and gas welding and cutting tools, including cords and gas hoses, shall be inspected daily prior to use. Damaged cords and gas hoses shall not be used on District work.
- Contractor and Contractor employees' tools and equipment used on District work sites shall be in safe operating condition and shall conform to the requirements of Cal/OSHA regulations. All personnel using such tools shall be properly trained.

D. **BARRICADES AND SIGNS FOR TRAFFIC CONTROL**

All Contractors, permittees, or agencies doing work for District which requires traffic control shall:

- 1) Install and maintain required traffic devices.
- 2) Provide appropriately equipped flag persons when required.
- 3) Provide adequate safeguards for workers and District personnel.
- 4) Maintain access for District personnel to all District facilities.

All work on streets, roadways, or similar thoroughfares shall comply with the Federal Highway Administration's "Manual on Uniform Traffic Control Devices for Streets and Highways" and any local ordinances. District Plant speed is *maximum* 10 mph.

SPECIAL PROCEDURES AND UNIQUE HAZARDS

A. CONFINED SPACE ENTRY

Confined spaces of all types exist throughout the District and throughout the plant and range from open trenches and manholes, to tanks, clarifiers and digesters. Contractors are required to meet Cal/OSHA safety standards for CONFINED SPACE ENTRY OPERATIONS, Title 8 Article 108 (Sections 5156-5159), or the most current CAL/OSHA applicable standards, and to provide a safe working environment for their employees. All Contractors directing or working in confined spaces are required to notify the Authorized District Representative. Contractors are responsible for all operations, testing, equipment calibration, ventilation, and entry per the Cal/OSHA standards. Contractors are responsible for all confined space permits and all appropriate equipment. Completed confined space permits are to be turned in to the District's safety manager.

B. **ELECTRICAL SUPPLY SYSTEMS**

The treatment plant's Electrical Supply System consists of two 65kW Gas Microturbine Generators, one 500kW diesel oil engine driven standby generator and one 380 KW trailer mounted standby generator, and solar power. All electrical power generated in the plant and PG&E power (beyond their transformer) is 480 volt, 3 phase, 60 Hz electricity and is delivered to one 480 volt switchgear panel. This panel is interconnected by cables and protected by breakers, relays and monitoring devices.

Electricity is dispersed from the switchgear through breakers and cables to motor control centers (MCC's), to power panels, to transformers (voltage reducers), to lighting panels and to motor driven pumps and equipment. Lockable control stations are located at each piece of equipment. 480 volt, 208 volt and 120 volt electricity is used in the plant. Contact the duty operator prior to working on any piece of electrical equipment. Electricity is hazardous and can burn or kill people.

All work on electrical systems shall be done in accordance with the State of California, CAL/OSHA, Article 33, Electrical Requirements for construction work, Low Voltage Electrical Safety Orders.

C. FERROUS CHLORIDE SYSTEMS -

The Ferrous Chloride System consists of a positive displacement pump with feed rate adjustment. Shut-off valves are located before and after the pump. Before working on this system, close all valves and disconnect the pump from electricity.

Ferrous Chloride is a dangerous chemical which will attack the skin, eyes and the mucous membranes of the mouth, throat and lungs. Contact the plant duty operator prior to working on this system.

D. **DIGESTER GAS SYSTEM**

The Digester Gas System consists of one steel tank, associated piping, compressors, flare, etc. Sludge is bacterially reduced in the tanks creating principally methane (CH) and other combustible hazardous gases, including hydrogen sulfide (H_2S). Hydrogen sulfide is toxic at very low concentrations. These gases are contained by the tank covers and piping which is located on overhead racks, in pipe trenches and buried throughout the plant. The gases are burned in large engines driving generators to make electricity for the plant. Heat from the engines is captured and piped to the digesters to heat the sludge, speeding up the digestion process.

Digesters and the stored gases within them are hazardous. No smoking, cutting, or sparkgenerating equipment is allowed on or within ten feet of any digester. Contact the duty operator prior to working on digesters.

E. **Hypochlorite System**

Hypochlorite, or concentrated chlorine bleach (12.5%), is used to disinfect, or kill bacteria and virus in the final effluent (water) discharged from the plant. Two tanks, each 7,000 gallons are used to store hypochlorite. Piping, valves, pumps, strainers (filters) and flow measuring and control equipment make up the system. Hypochlorite will attack clothing, skin, eyes and mucous membranes of the nose, mouth, throat and lungs. Contact the duty operator prior to working on the hypochlorite system.

F. SODIUM BISULFITE

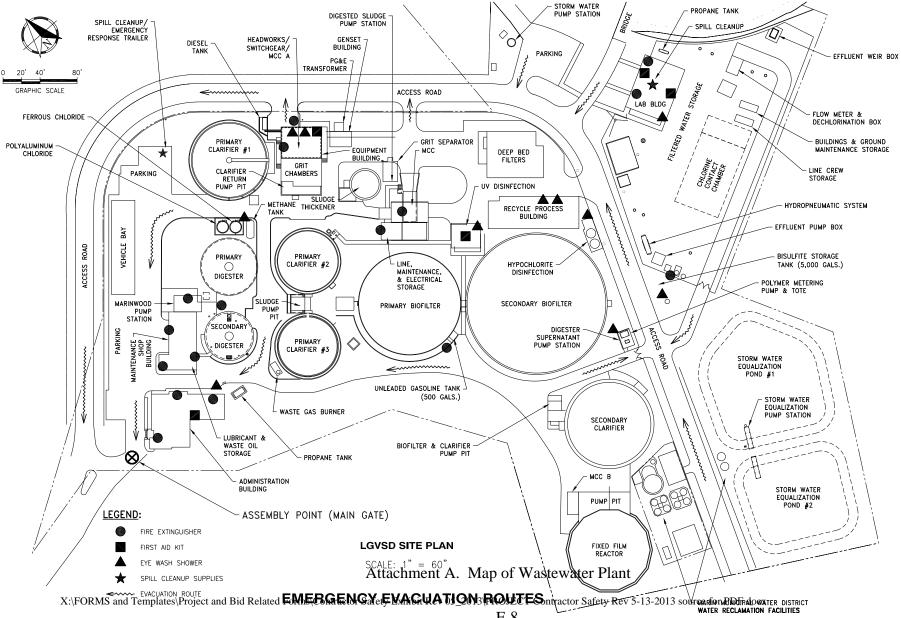
Sodium bisulfite is used when neutralizing sodium hypochlorite. Two tanks, each 4,000 gallons and one 2,500 gallons are used to store sodium bisulfite. Piping, valves, pumps, strainers (filters) and flow measuring and control equipment make up the system. Sodium bisulfite is an irritant to eyes, skin and mucous membranes. Inhalation of mist may cause irritation to respiratory tract. Contact the duty operator prior to working on the sodium bisulfite system.

G. GENERAL HAZARDS

Throughout District's treatment plant and facilities there are a number of extremely hazardous elements that are dangerous. They include, but are not limited, to:

- Flammable gas and petroleum.
- H_2S (hydrogen sulfite)
- Deep pools of liquid sewage which are rarely patrolled, and for which self-rescue is unlikely.
- Automatic start equipment.
- HBV (Hepatitis B Virus)

LAS GALLINAS VALLEY SANITARY DISTRICT



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CONTRACTOR SAFE WORK REQUIREMENTS April 22, 2016 **Exhibit F 2. Confined Space Entry Program**

Las Gallinas Valley Sanitary District

Confined Space

Entry

Program

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LAS GALLINAS VALLEY SANITARY DISTRICT Confined Space Entry Program

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LGVSD CONFINED SPACE ENTRY PROGRAM

INTRODUCTION

The purpose of Las Gallinas Valley Sanitary District's confined space entry program is to protect employees who work in manholes, pump stations, tanks, or any other confined space that could expose employees to hazardous conditions or substances. The program establishes an entry permit system and procedures to ensure that potential hazards of each confined space are identified and evaluated and that appropriate safety precautions are taken before an employee enters the space.

Employees will given an opportunity to participate in the development and implementation of LGVSD's confined space procedures. The program will be revised or procedures will be modified whenever suggestions or recommendations from employees would improve confined space safety.

The policies and procedures in this program are consistent with the requirements of Cal/OSHA General Industry Safety Orders, Title 8, Sections 5156 and 5157 and supersede previous confined space policies and procedures. The program applies to all employees who work in, or in connection with LGVSD confined spaces.

Confined spaces at LGVSD have been identified based on the definitions in Section 5157 as follows:

Confined Space is a space that:

- 1. Is large enough and so configured that an employee can bodily enter and perform assigned work; and
- 2. Has limited or restricted means for entry or exit; and
- 3. Is not designed for continuous employee occupancy.

Permit-Required Confined Space is a space that has one or more of the following characteristics:

- 1. Contains or has a potential to contain a hazardous atmosphere;
- 2. Contains a material that has the potential for engulfing an entrant;
- 3. Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross section; or
- 4. Contains any other recognized serious safety or health hazard.

Non-Permit Confined Space is a space that does not contain (or with respect to atmospheric hazards, has no potential to contain) any hazard capable of causing death or serious physical harm.

Employees who work in or in connection with confined spaces are required to follow the procedures described in this program and to take all the appropriate precautions to ensure that the work is performed safely. At no time should an employee enter a confined space or perform work in the space unless it can be done safely.

PERMIT-REQUIRED CONFINED SPACEs

The tables on pages 4 and 5 list confined spaces at LGVSD that require a permit to enter. Potential hazards associated with these spaces include engulfment, toxic gases, explosive or flammable gases, oxygen deficiency, electrical and mechanical hazards, and may under certain circumstances involve heat stress. Warning signs will be posted at wet wells and similar locations to inform employees that the space requires a permit to enter. To prevent unauthorized entry, each of these spaces will be secured.

Using the entry permit, a non-entry evaluation must be done so that potential hazards can be identified and the appropriate safety precautions taken. The types of hazards that may be encountered, pre-entry safety checks, and the types of safety equipment that will be used are entered on the permit. Only the person designated as the entry supervisor has the authority to authorize the entry permit. At least three employees are required for a permit-required confined space entry which would include an attendant and a standby rescuer.

The tables on pages 4 and 5 that list permit-required confined spaces at LGVSD are not all-inclusive. Other spaces may be determined to be permit-required after evaluating the conditions or circumstances of the entry. The type of work to be performed in the space could introduce hazards to an otherwise safe space. Working with flammable or toxic substances, welding or other hot work, or drifting vapors from outside sources would make a space hazardous or potentially hazardous and therefore require a permit to enter.

ALTERNATE ENTRY PROCEDURES

Alternate procedures are allowed in permit-required spaces where it can be demonstrated and documented that the only hazard or potential hazard is an atmospheric one, and that continuous forced air ventilation alone will maintain the space safe for entry. A trained, qualified employee may enter these confined spaces without an attendant or rescue preparations provided the following conditions are met.

- 1. All unsafe conditions are eliminated before the confined space cover is removed.
- 2. The entrance to the space is guarded with a railing or other type of barrier to prevent an accidental fall through the opening and to protect employee in the space.
- 3. The atmosphere is tested before entry in the following order: O2, LEL/LFL, H2S.
- 4. No entrance is made until hazardous atmosphere is eliminated.
- 5. There is no hazardous atmosphere when employees are in the space.
- 6. Continuous forced ventilation is used.
- 7. The air supply is clean and will not increase hazards.
- 8. The air supply is directed to area where employees are working.
- 9. The atmosphere is tested every 15 minutes to ensure a hazardous atmosphere is not developing.
- 10. Records of pre-entry and entry monitoring data and inspection data are maintained.
- 11. The entrant certifies, in writing, that the required pre-entry measures have been taken.
- 12. Monitoring and inspection data, and the certification information are made available to each employee entering the space.

If a hazardous atmosphere develops in the space, or other hazards arise, alternate procedures can no longer be used and the space must be reclassified as a fully permitted space.

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SPECIAL ENTRY PROCEDURES

There are a few confined spaces at LGVSD that are not considered permit-required confined spaces. As far as can be determined, these spaces do not contain any known hazard. However, as a precautionary measure, employees are required to follow certain special procedures before entering these spaces.

- 1. Test the atmospheric conditions prior to entry.
- 2. If atmospheric conditions are acceptable, entry can be made.
- 3. If atmospheric conditions are not acceptable, use alternate procedures.
- 4. If any other hazardous condition exists, follow permit-required confined space procedures.

THE ENTRY PERMIT SYSTEM

Confined space entry permits are to be issued for a specific purpose, a specific work crew, and for a specified period of time. The entry permit is a written authorization of the location and type of work to be done. It also authorizes the personnel assigned to the job, and verifies that potential hazards have been evaluated and controlled or eliminated, that proper safety precautions have been taken, and it is safe for workers to enter. The permit must be kept at the work site (outside the space) for the duration of the work and cancelled after the work is completed.

HOT WORK PERMIT

A hot work permit must be issued for any work that produces heat, sparks or flame in a permit-required confined space. This includes but not limited to brazing, cutting, grinding, soldering, and welding.

Table 1: Main Plant Permit-Required Confined Spaces

	Permit-	Alternate or Special		Permit-	Alternate or Specia
MAIN PLANT	Required	Procedure	MAIN PLANT	Required	Procedur
Marinwood Pump Station			Deep Bed Filter		
Pre Wet Well Structure	•		Bypass Channel	•	
Wet Well	•		Wet Well/Supply Pumps	•	
Valve Pit		SP	Valve Pit	•	SP
Flow Meter Pit (F1)		SP	Tanks	•	01
Primary Clarifier		JF	Weir Overflow Pit	•	
Tank	•		Underdrain	•	
Scum Pit	•		Inlet Channel	•	
Weir Overflow Pit	•		Center Column	•	
Chemical Tank	•		F8 Flow Meter Manhole	•	
Sodium Hydroxide Tank	•		Effluent Channel	•	
Methane Tank	•		Backwash Return Wet Well	•	
Methane Scrubber Tank					
Primary Digester	•		Hypochlorite Storage Tank Digester Supernatant Pump Station	•	
			• · ·	-	
Tank Valve Pit	•		Wet Well Valve Pit	•	SP
Secondary Digester			Secondary Clarifier		55
Tank			Tank		
Valve Pit	•	SP	Flow Meter (F4)	•	
		<u>ог</u>		•	
Intermediate Flow Meter Pit (F3) Aerated Grit	•		Effluent Box Scum Pit	•	
				•	
Tank	•		Fixed Film Reactor		
Scum Pit	•		Tank	•	
Outlet Channel	•		Underdrain	•	
Inlet Channel	•		Center Column	•	
Clarifier Return Pit			F4 Diversion Box	٠	
Wet Well	•		Influent and Effluent Wet well	•	
Inflluent Flow Meter Pit		SP	Filter Water Storage Tank	•	
Grease Storage Tank	•		Chlorine Sample Pump #2		
Intermediate Clarifier East			Wet Well	•	
Diversion Structure	•		Valve Pit	•	
Tank	•		Chlorine Contact Chamber/DBF Backwash		
Scum Pit	•		Tank	•	
Weir Overflow Pit (2)	•				
Intermediate Clarifier West			Pipe Inspection Manhole	•	
Tank	•		Plant Effluent Water Pump Wet Well	•	
			Bisulfite		
Scum Pit	•		Wet Well	•	
Weir Overflow Pit	•		Tanks	•	
Sludge Thickener			White Shack Effluent Box		
Influent Pit	•		Wet Well	•	
Tank	•		Flow Meter Pit (F5)		SP
Scum Pit	•		Effluent Pipe Inspection Manhole	•	
Primary Biofilter			Stormwater Pump Station		
Valve Pit			Wet Well	•	
Pump Pit Dry Well		SP	Flow Metet Pit (F9)		SP
Underdrain	•		Miller Creek Plant Effluent Box Wet Well	•	
Priim/Sec Biofilter Diversion Vault	•		Storm Ponds Pump Pit Wet Wells	•	
Secondary Biofilter			Centrifuge Pit Tank	•	
Effluent Box	•		Gardener's Building (ventilate before entry)	-	
Underdrain	•		F4 - DBF Efflent Box	•	
	•			•	
Pump Pit			DBF Effluent Weir Box/Plant Water Pump MMWD Backwash Return Wet Wells (2)	•	

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Table 2: Reclamation, Collection System, and Pump Stations Permit-Required Confined Spaces

Location	Permit- Required	Alternate Procedure	Location	Permit- Required	Alternat Procedu
RECLAMATION			PUMP STAIONS		
Diversion box			McInnis Park		
Wet Well	•		Wet Well	•	
Valve Pit	•		Valve Pit		•
Underdrain	•		Smith Ranch		
ransfer Box			Wet Well	•	
Wet Well	•		Valve Pit		•
Valve Pit	•		Flow Meter Pit		•
Underdrain	•		Industrial Park		
leter Pit (F7)		•	Wet Well	•	
eclamation Pump Station			Valve Pit		•
Wet Well	•		John Duckett		
Flow Meter Pit (F6)			Wet Well	•	
ludge Supernatant Pump Station			Valve Pit		•
Wet Well	•		Flow Meter Pit		•
Dry Well	•		Comminutor Deck		•
Valve Pit		•	Civic Center North		
ond Diverson Gate Boxes	•		Wet Well	•	
ond Infkuent/Effluent Boxes	•		Valve Pit		•
ludge Ponds (3)	•		Marin Lagoon (9)		
			Wet Well	•	
			Valve Pit		•
COLLECTION SYSTEM			Mulligan		
Il Manholes	•		Wet Well	•	
ir Release Valves		•	Valve Pit		•
alve Boxes	•		Venetia Harbor		
			Wet Well	•	
			Valve Pit		•
			Hawthorne		
			Wet Well	•	
			Dry Well		•
			Adrian Way		_
			Wet Well	•	
			Valve Pit		•
			Descanso Way		
			Wet Well	•	
			Valve Pit		•
			McPhail		
			Wet Well	•	
			Valve Pit		•
			San Rafael Meadows		
			Wet Well	•	
			Valve Pit		•
	D)				
PECIAL ENTRY PROCEDURES (SI Test atmospheric conditions prior to			1		
If atmospheric conditions are accept		made			
If atmospheric conditions are not ac			res		
i achoophone conditions are not ac			d space procedures.		

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DUTIES OF ENTRY TEAM

A permit-required confined space entry team will include an entry supervisor, entrant(s), and at least one attendant. Before an employee begins confined space work, the work must be authorized by the District Manager or Plant Superintendent. In the absence of the District Manager and Plant Superintendent, the designated employee-in-charge may authorize the work.

As long as each individual can fully perform his/her duties, an entry supervisor may be the same person as the entrant or the attendant. The safety precautions that should be taken with a permit-required confined space entry will vary depending on the types of hazards or potential hazards involved. Regardless of the types of hazards, it is the District's policy that in addition to an attendant, a standby rescuer must be part of the entry team.

Duties of Entry Supervisor

- 1. Verifies that acceptable entry conditions exist.
- 2. Ensures acceptable entry conditions are maintained.
- 3. Verifies that the information and procedures on the entry permit are accurate and complete.
- 4. Verifies that the equipment specified on the permit is in place and in good condition.
- 5. Reviews permit conditions and procedures with entrants and attendants.
- 6. Ensures unauthorized persons do not enter the space.
- 7. Signs the permit to authorize entry.
- 8. Cancels and files permit.

Duties of Entrant

- 1. Properly uses the safety equipment and tools supplied.
- 2. Promptly notifies the attendant if any prohibited condition exists or any warning signs or symptoms appear.
- 3. Quickly evacuates space if an order is given by the attendant or entry supervisor, if any prohibited condition is detected, or if an alarm is activated.
- 4. Maintains communication with the attendant to enable attendant to monitor status of space conditions and the entrants.
- 5. Adheres to the procedures and precautions indicated on the permit and provided in training.

Duties of Attendant

- 1. Remains outside the permit space until relieved by another attendant.
- 2. Maintains communication with entrants.
- 3. Maintains accurate count and identification of entrants.
- 4. Monitors activities inside and outside the space.
- 5. Orders entrants to evacuate if a prohibited condition exists, or behavioral effects of hazardous exposure are detected, or activities outside space could endanger entrants, or attendant cannot effectively perform all required duties.
- 6. Ensures unauthorized persons stay away from the space.
- 7. Performs non-entry rescue procedures or initiates on-site rescue operations.
- 8. Summons additional rescue services, when needed.

ENTRY PROCEDURES

Pre-Entry

- 1. Notify other work groups or employees who may be affected by any interruption in service.
- 2. Determine (by entry supervisor or other qualified person) what hazards or potential hazards are within the confined space.
- 3. Check that all safety equipment is available and in good working condition.
- 4. Check that atmosphere monitoring equipment has been calibrated as recommended by manufacturer.
- 5. Without entering space:
 - a) Test atmosphere and record readings on permit.

Acceptable atmospheric conditions: Oxygen not less than 19.5% or more than 23.5%, LEL/LFL not more than 10%, H2S not more than 10 ppm, CO not more than 25 ppm.

- b) Ventilate the space or check that ventilation system is operating properly.
- 6. Ensure that all affected employees observe pre-entry atmospheric testing.
- 7. Set up barrier around entrance to prevent accidental falls and to protect employees from vehicles, or falling objects.
- 8. Check for physical hazards such as poor footing, structures and equipment that hinder movement, and extreme temperatures or humidity that could affect worker safety.
- 9. Secure and lock out all energy sources (electrical, mechanical, hydraulic, pneumatic, chemical) that are potentially hazardous to confined space workers. Follow lockout/ tagout procedures.
- 10. Disconnect, blind, or block lines to prevent development of hazardous conditions.
- 11. Use continuous forced air ventilation. Ensure that there is no recirculation of exhausted air from blowers or the introduction of contaminants from the outside, such as traffic exhaust, or vapors or toxic substances from other areas. Place blowers at least 10 feet away from opening of space.
- 12. Entry supervisor reviews and authorizes entry permit if the space is safe to enter, and all preparatory steps required for safe entry have been taken.

Entry

- 1. Only employees who have been trained on LGVSD's confined space entry and work procedures are allowed to work in or around confined spaces.
- 2. Only the work activity specified on the authorized permit is to be performed in the ` confined space.
- 3. At least one attendant is required for confined space work.
- 4. If at any time during the performance of confined space work, dangerous atmospheric conditions develop, work must stop and the space evacuate immediately.
- 5. An attendant must be stationed outside the space at all times during the confined space operations and remain in constant communication with workers in the space.
- 6. The attendant must order evacuation of the space whenever:
 - a) a condition not allowed on the permit is observed
 - b) unusual behavior is observed
 - c) an outside situation endangers the confined space workers
 - d) the attendant must leave the work station

- 7. The permit must be cancelled if the air becomes hazardous after entry.
- 8. Respiratory equipment must be worn whenever a safe atmosphere cannot be assured after implementing pre-entry procedures.

Post-Entry

The entry supervisor:

- 1. Cancels the permit by entering date and time of cancellation and signature.
- 2. On the reverse side of the permit, makes note of any problems encountered during entry operations.
- 3. Places the cancelled permit in the safety files.
- 4. Notifies the Plant Superintendent if any equipment, safety gear or tools need to be repaired or replaced.

RESCUE PROCEDURES

It is the District's policy that all employees who work in or in connection with confined spaces must be trained in rescue procedures. Members of a permit space entry team must be knowledgeable of the hazards or potential hazards, be able to recognize the signs and symptoms of exposure, be trained in the selection and use of personal protective equipment, and be certified in first-aid and cardiopulmonary resuscitation. Prior to each entry the team will plan and prepare for non-entry and entry rescues and ensure that at least one standby is immediately available to provide rescue services.

Self-Rescue

If possible, entrants should immediately leave the confined space:

- 1. When an alarm sounds.
- 2. At the first sign of any exposure symptoms.
- 3. When ordered to evacuate by attendant or entry supervisor.

Non-Entry Rescue

If entrants cannot immediately evacuate the space at the first sign of trouble, the attendant should attempt a nonentry rescue by retrieving the entrant using a harness and hoisting equipment. The attendant must not enter the space unless relieved by another attendant. Retrieval systems must be used in vertical permit spaces more than 5 feet deep.

Entry Rescue

Rescuers are to assume that a hazardous atmosphere exists if an entrant has slurred speech, appears dizzy, disoriented, confused, unconscious, or displays any unusual behavior, or if communication with the entrant is lost. A self-contained breathing apparatus must be worn for entry rescues if a hazardous atmosphere is suspected or if there is any chance that it can develop. Call 911 for assistance or if specialized equipment is needed to remove a worker.

Outside Rescue Services

Although outside rescue services may be present at the time of the entry or summoned to give assistance and support in an emergency, members of the entry team must be prepared to give immediate assistance to any of the entrants who may need it.

NON-PERMIT CONFINED SPACES

All confined spaces are considered permit-required until pre-entry procedures demonstrate otherwise. A confined space may be designated a non-permit space, or a permit-required confined space may be reclassified a

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non-permit space if all hazards have been eliminated. Because atmospheric hazards are controlled with ventilation and not eliminated in spaces, these spaces cannot be classified as non-permit spaces.

CONTRACTORS

Contractors and subcontractors who plan to work in LGVSD confined spaces will be given all available information on LGVSD confined space hazards, the permit system, and entry procedures. Contractors are required to use a permit system for entry into LGVSD permit-required confined spaces. Contractors are also required to coordinate work and entry activities whenever LGVSD employees and contractor employees will be working in or near the permit spaces.

At the conclusion of the contractor's work, the LGVSD supervisor in charge will debrief the contractor to determine if any hazards were encountered or created during entry.

TRAINING

All employees who work in or around confined spaces must be trained before performing any confined space work. At a minimum, the training will include:

- 1. Hazards of confined spaces.
- 2. Signs and symptoms of hazard exposure.
- 3. Duties of entrant, attendant, and entry supervisor.
- 4. Pre-entry and entry procedures.
- 5. LGVSD confined space permit system.
- 6. Selection and use of personal protective equipment.
- 7. Atmosphere test equipment.
- 8. Rescue procedures and equipment.
- 9. CPR/First Aid.

In addition, employees involved in confined space work will participate in simulated rescue operations at least once per year. Review training will be provided whenever the need is indicated, such as changes in procedures, introduction of new equipment, the hiring of new employees or whenever deficiencies in implementing the program are observed.

Training records will be maintained which will include names and signatures of trainees and trainers, dates and content of training. These records will be made available for inspection to employees or their representatives

LGVSD CONFINED SPACE ENTRY PERMIT

Date issued: Per Location/Description of Space:		Work Site Permit: Authorized entry permit and monitoring data must remain at the work site until			
Street Address of Entry Reason for Entry:				Fire Dept. Notified 472-09 Before entry After exiting	initials
Entry Supervisor:			_		
Authorized Attendants and Initials		Author	ized Entrant	and Initials:	
Note: Indicate which attendant is assigned responsibilities and duties.	-		s and entrant	indicate they understand their	
Pre-Entry Checks (complete before obtaini	ng work	Potential Hazards:		\Box Manhole hook	N/A
authorization):		Oxygen deficiency	N/A		N/A
□ Notified other work groups.	N/A		N/A		N/A
□ Notified office personnel.	N/A		N/A		N/A
□ Checked that entry team training is current.			N/A		N/A
□ Reviewed entry procedures with team.	N/A		N/A		N/A
□ Set up barrier at entrance to space.	N/A		N/A		N/A
□ Checked that gas detection equipment	27/4	□ Engulfment/entrapment	N/A		N/A
calibration is current.	N/A		N/A		N/A
□ Performed pre-entry atmosphere tests.	N/A		N/A		
□ Checked ventilation system.	N/A		N/A		N/A
□ Checked for physical hazards.	N/A		N/A		N/A
□ Secured and locked out energy sources.	N/A		N/A		N/A
 Blocked or disconnected lines. 	N/A			□ Goggles, face shield	N/A
□ Discussed potential hazards with team.	N/A		N/A		N/A
□ Reviewed emergency response procedures.			N/A		N/A
□ Checked condition of safety equipment.	N/A		N/A		N/A
□ Obtained work authorization signatures.	N/A			_ 🗆 Other	
		□ Hoisting equipment	N/A	-	
Hot Work: Does the entry involve hot work? □ Yes Special Instructions:	5 – N	Jo If Yes, complete and attach a		mit.	
Monitoring Data: Record monitoring data at Acceptable Atmospheric Conditions: Oxyg Work Authorization Signatures All confined space work must be authorized by the General Manager, Plant Manager or Collection Cree Manager Work authorized by:	en not less E W hat co b		L/LFL/not mon	mit ntry Date:	
Date/Time:	_				

Rev May 2013

Monitoring	Data: Mo	nitor c	ontinuously	and record	l data at	15-minute	interval	s.
Time	LEI <10%	- 6	O 2 > 19.5%, <23.5%	H <10	2S ppm	CO <25 ppm	1	Initials
				_				
Decoud the time	a when a con		initially and a	0 the man	and sast	ovit and and		ftor
Record the tim Name	when a wo	HKer(s)	initially enter	<u>s the space</u> Ti	and cach me	exit and ent	ry therea	ner.
	Entry	Exit	t Entry	Exit	Entry	Exit	Entry	Exit
								_
								_

ConfinedSpace Permit Back

LGVSD CONFINED SPACE ALTERNATE PROCEDURES

Entry into this confined space without an entry permit is allowed if the only potential hazard posed by the space is a hazardous atmosphere and the following measures are taken:

- Any condition making it unsafe to remove the entrance cover is eliminated before the cover is removed.
 The atmosphere is tested prior to entry.
- 3. No entry is made if there is a hazardous atmosphere.
- 4. Continuous forced ventilation is used.
- The opening of the space is guarded by a railing or other temporary barrier.
 The air supply is clean and is directed to where employees will be working.
- 7. The atmosphere is periodically tested and monitoring data is recorded.
- 8. Employees will immediately evacuate the space if a hazardous atmosphere is detected.

Certification: I certify that on the date indicated, the conditions and pre-entry measures described above existed or were

Implen	implemented and this space was determined to be safe for entry.												
	Signatu	ire			Da	te	Signature Date						
Monit	oring Da	ita: Reco	ord the pr	e-entry test d	ata, mo	nitor the sp	bace cont	inuously	and recor	d the r	eadings eve	ry 15 mi	nutes.
Date	Time	%00 ₂	со	%LEL	H ₂ S	Initials	Date	Time	%0 ₂	со	%LEL	H_2S	Initial

P:Safety\Alternate Permit

Revised September 2008

LGVSD HOT WORK PERMIT

This form is to be filled out by employee before performing hot work.							
Name:							
Date: Time: Locatio	n of job:						
Detailed description of job:							
		YES	NO				
 If the job is planned to be done indoors, can it be done outdo If yes, move to one of these locations. 	ors or in the welding shop?						
2. have all combustible materials (solids, liquids, gases) been re-	emoved from the work area?						
3. Are there any gas lines or other lines carrying combustible/fl	ammable materials?						
4. If yes, have all lines be disconnected, blanked or otherwise p	rotected?						
5. Has atmospheric test data been collected in the work area?							
6. Is a fire watch needed for this job?							
7. Is a fire extinguisher or water hose available and ready to use at the job site? $\hfill \Box$							
8. Can flame or sparks ignite materials in work area or on lowe	r floors or levels?						
9. Are non-flammable tarps used to cover combustibles in the v	9. Are non-flammable tarps used to cover combustibles in the work area?						
10. Have affected employees reviewed or given specific safety	instructions?						
11. Have screens been set up in the work area?							
Special precautions to be taken:							
I have reviewed and approved this permit: Please make note of any actions taken based on the above responses.							
Date: Time:							
Signature of District Manager							
Revision: February 2006							

P:Safety\Hot Work Permit

 $X:\label{eq:contractor} Safety \ Exhibit \ F\LGVSD \ Confined \ Space \ Program.docx$

LGVSD CONFINED SPACE ENTRY PROCEDURES SUMMARY

Pre-Entry

- 1. Obtain work authorization from the District Manager or District Superintendent.
- 1. Perform non-entry evaluation of the space to identify potential hazards.
- 2. Test atmosphere, check ventilation system and check for physical hazards in and around work area.
- 3. Ensure affected employees observe pre-entry testing.
- 4. Gather appropriate safety equipment and check that all of it is in good working condition.
- 5. Without entering the space, secure and lockout energy sources and disconnect or block lines.
- 6. Place barricade or railing around opening to space.
- 7. Make sure there are no ignition sources near the confined space.
- 8. Complete pre-entry checks.
- 9. Have the Entry Supervisor authorize the entry permit.
- 10. Test atmosphere of space again. If there is no air contamination or O2 deficiency, entry may proceed provided permit conditions and appropriate safety procedures are in effect.
- 11. If there is contamination or O2 deficiency, ventilate 10 minutes and test again. If contamination persists, do not enter. Notify the Entry Supervisor.
- 12. Prior to entry, ventilate manholes and other confined spaces known or suspected to be hazardous.
- 13. Maintain continuous ventilation. Existing ventilation must be augmented whenever there is a potential for hazardous atmosphere or initial tests indicate contamination.
- 14. Keep the entry permit and monitoring data at the work site until the job is complete. Entry permits are valid only for the duration indicated on the permit.

Entry

- 1. Do not work in or around confined spaces if you are not properly trained or experienced in safe entry and rescue procedures.
- 2. Wear respiratory equipment whenever a safe atmosphere cannot be ensured.
- 3. Attendant must be in constant communication and visual contact with entrant and must monitor activities inside and outside of space.
- 4. Attendant must order evacuation if he/she observes any activity not on the permit, unusual behavior, or an outside situation that endangers the entrant.
- 5. Perform only the work authorized on the permit.

Rescue

- 1. Attendant never performs entry rescue unless relieved by another attendant.
- 2. Perform rescue from outside the space whenever possible.
- 3. Use respiratory equipment if entry rescue is performed.
- 4. Call 911 for rescue assistance.

Post-Entry

- 1. Note on back of permit and notify the District Superintendent of any unsafe or unusual conditions encountered during the confined space work.
- 2. Have Entry Supervisor cancel and file the permit.
- 3. Submit the cancelled permit to the Safety chairperson for review and filing.
- 3. Notify the Plant Superintendent if any equipment, safety gear or tools need to be repaired or replaced.

ATTACHMENT 2



Figure 1. Preferred Location of new MCC-2.

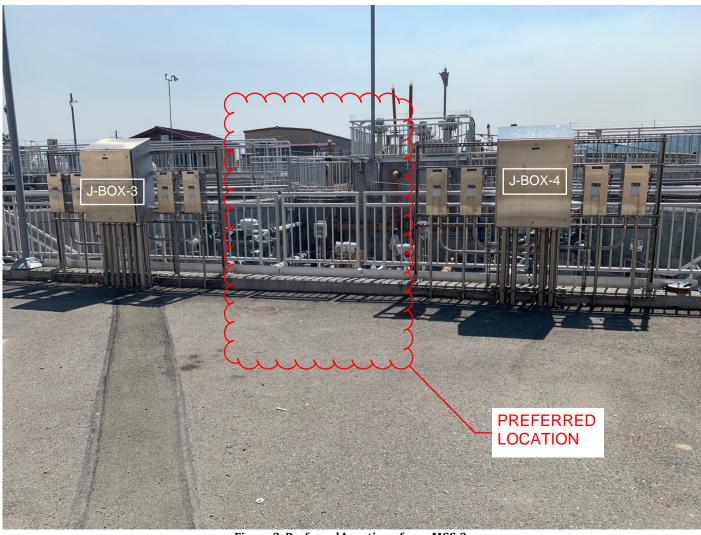


Figure 2. Preferred Location of new MCC-2.



Figure 3. Existing MCC-2 in Digester Room.

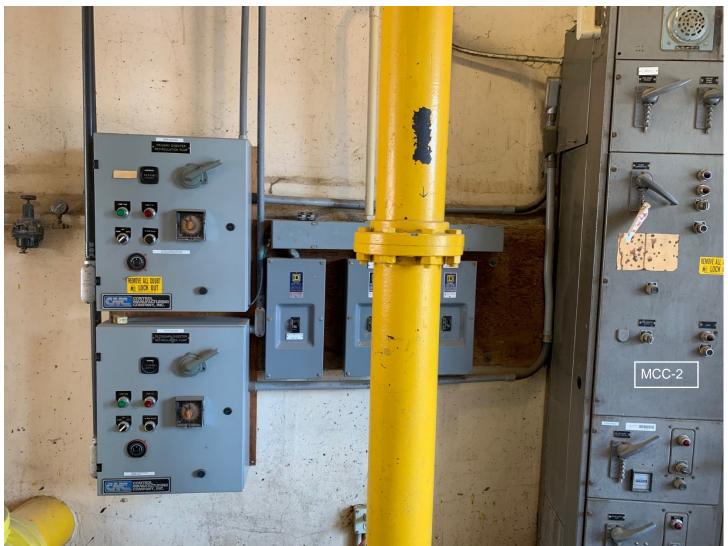
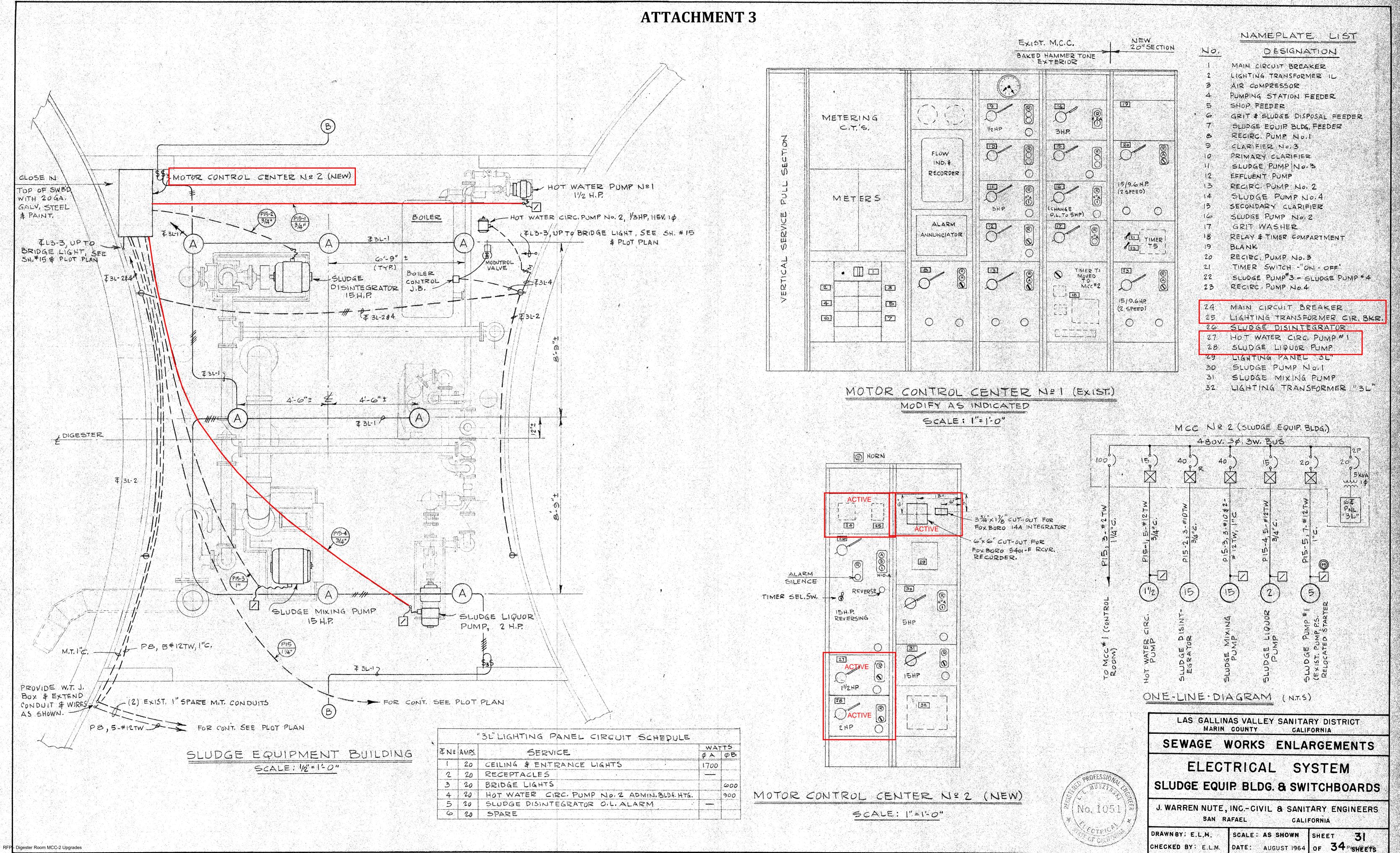
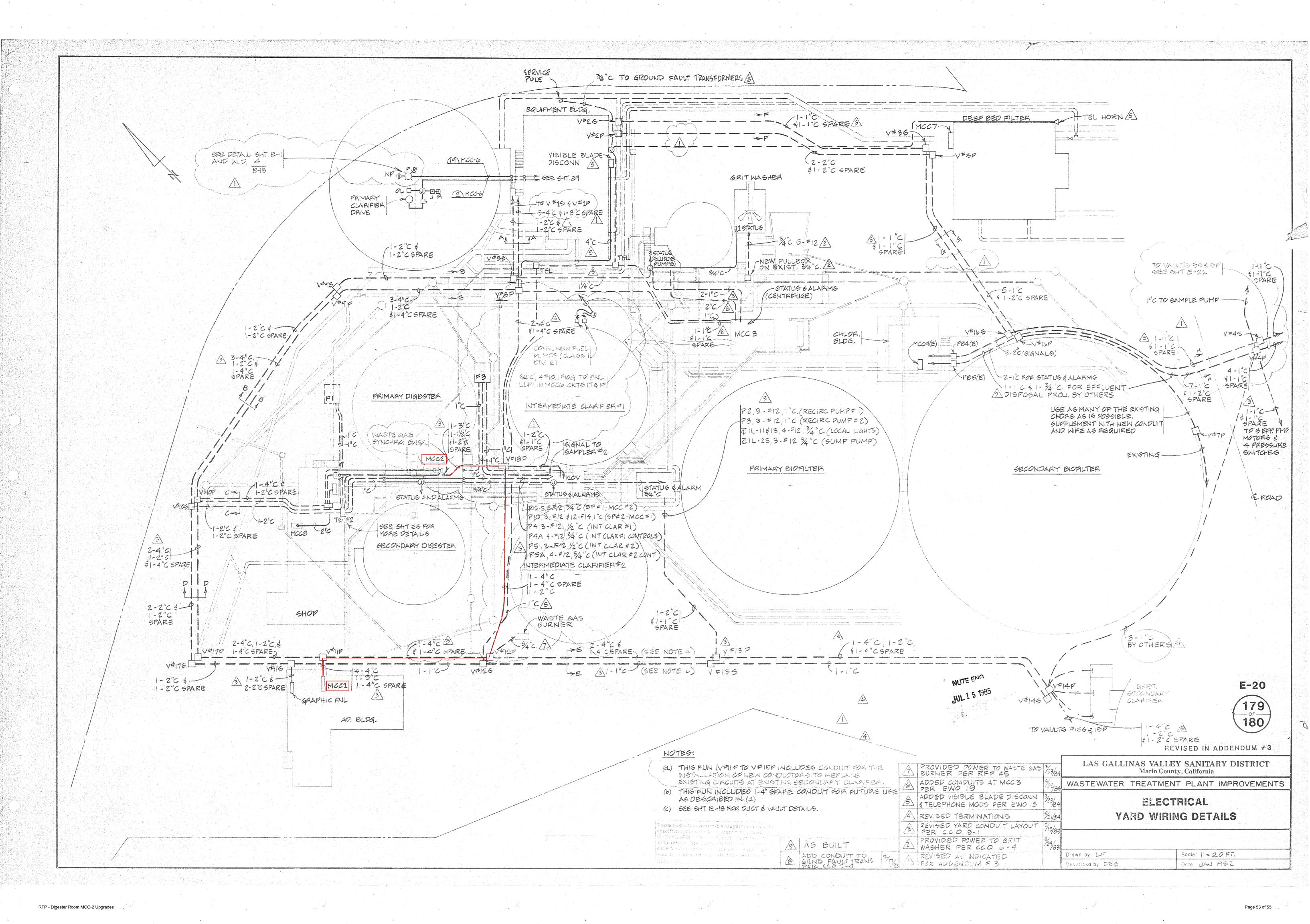


Figure 4. Existing control panels for "scum buster" pumps.





00:60

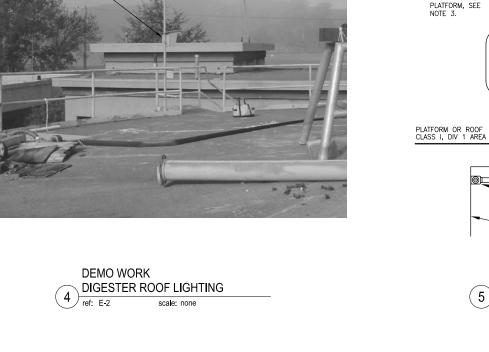
2010

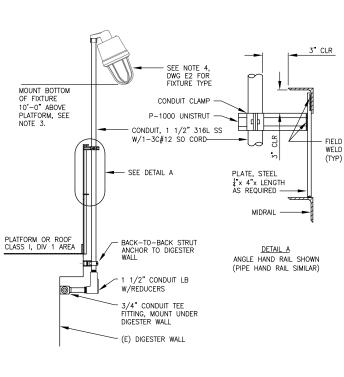
16,

Nov

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FLOODLIGHT - STANCHION MOUNT

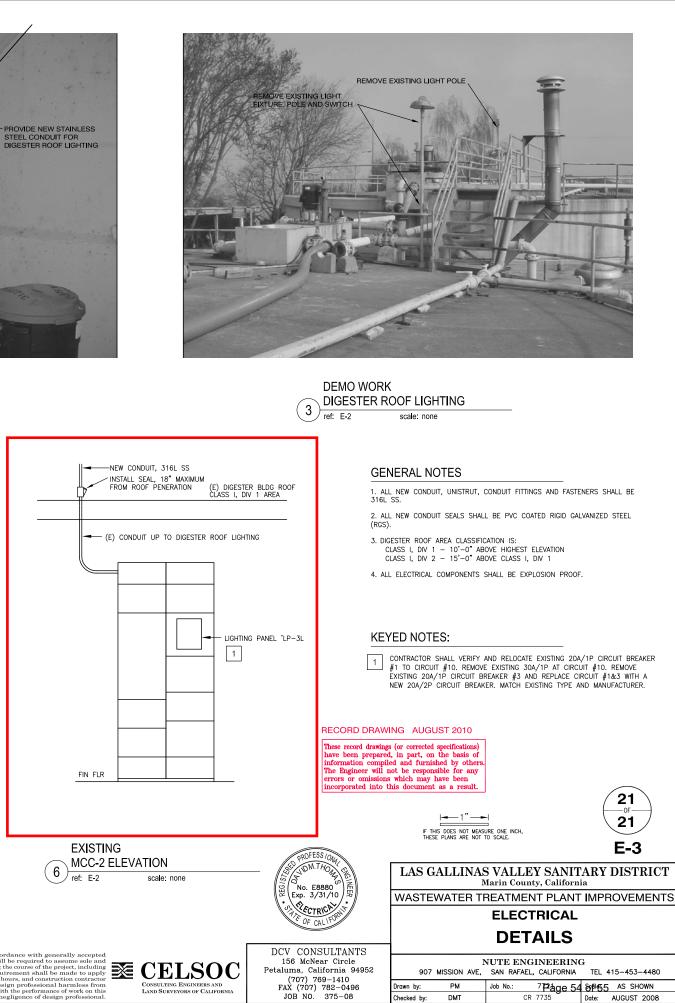
scale: none

ref E-2

NEW

ref E 2

2





JUNCTION BOX DETAIL

scale: none

1

ref: E-2

REMOVE EXISTING LIGHT

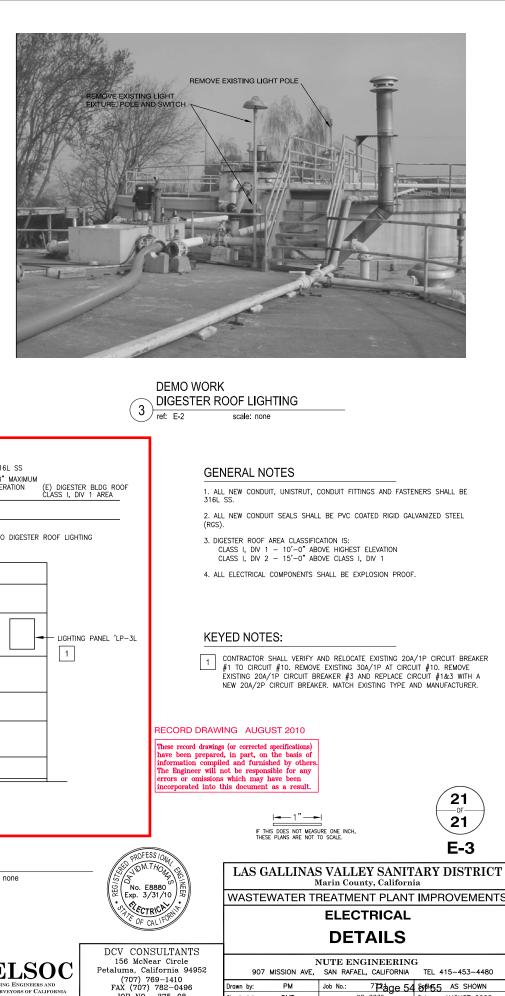
ALL WEATHER

EQUIPMENT



DIGESTER ROOF LIGHTING SWITCH

scale: none



contractor agrees that in ac ce with gen Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours, and construction contractor any and all liability, real or alleged, in connection with the performance of work on this project, except for liability arising from the sole negligence of design professional.



RFP - Digester Room MCC-2 Upgrades

