



REQUEST FOR PROPOSALS (RFP)

FOR

ACC-1 RTP I/O SUBSYSTEM REPLACEMENT PROJECT

SACRAMENTO AREA SEWER DISTRICT
ECHOWATER RESOURCE RECOVERY FACILITY OPERATIONS/ENGINEERING

RFP No. 9158

RFP ISSUE DATE: OCTOBER 28, 2025

PROPOSAL DUE DATE & TIME: JANUARY 14, 2026, 3:00PM PST

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1. INTRODUCTION

The Sacramento Area Sewer District (SacSewer) is a sewage collection, treatment, and resource recovery utility providing service to more than 1.6 million people in a 386 square-mile service area in the Sacramento region. SacSewer’s service area includes the unincorporated areas of Sacramento County, and the cities of Citrus Heights, Rancho Cordova, Elk Grove, Folsom, Sacramento, and West Sacramento.

SacSewer owns and operates over 5,000 miles of sewer pipes and is responsible for the operations and maintenance of those pipes. Sewage is collected from residential, commercial, and industrial customers and conveyed to SacSewer’s EchoWater Resource Recovery Facility (EchoWater Facility) near Elk Grove.

The following is SacSewer’s mission and vision:

Mission: *Serving our community by protecting public health and the environment through sewage collection, treatment, and resource recovery.*

Vision: *Setting the bar for excellence in utility management and environmental sustainability.*

SacSewer is seeking a consulting firm (Consultant) to provide engineering services for planning, design, and construction support to replace the existing Real Time Products Corp. Input/Output (RTP I/O) subsystem and to remove the associated process equipment local controls in Area Control Center-1 (ACC-1) at the EchoWater Facility.

2. BACKGROUND

The EchoWater Facility’s Control and Monitoring System includes, among other equipment, ACCs that contain antiquated 1970’s era RTP I/O subsystem and process equipment local controls installed in the 1980’s. RTP I/O is the communication interface between the wastewater treatment process field equipment and the EchoWater Facility’s main computer, which is an Emerson Ovation System or commonly known at the EchoWater Facility as the Plant Computer Control System (PCCS).

The EchoWater Facility is divided into various treatment process areas with each having their own dedicated local ACC. The RTP I/O subsystem and the local control in ACC-3 in the Primary Treatment Area was successfully replaced by an in-house project in 2022. The following remaining ACCs still contain the RTP I/O subsystem and local controls:

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ACC	Area	Comparison to ACC3 (100% = ACC3 Size*)
ACC1	I/E Building	90%
ACC2	I/E Building	60%
ACC9	Outfall	25%
ACC4/11	Sec. Treatment	125%
ACC13	Digesters	75%
ACC8	Digesters	100%
ACC10/14	Digesters	100%

*Based on I/O count

Table 1

SacSewer plans to replace the RTP I/O subsystem and remove the local controls in all the above ACCs in the coming years starting now with ACC-1 in the Influent/Effluent Building with this RFP. All RTP I/O and local control replacements would follow the same methods successfully used in ACC-3; Chief among them, use of a temporary Programmable Logic Controller (PLC) panel during the cut-over transition and the design/field engineer taking on an active on-site role during the entire construction and startup phases.

A functional block diagram of the existing discrete control subsystem is provided in Attachment E, Figure 1. A more detailed functional block diagram depicting both the discrete and analog control subsystems is provided in Attachment E, Figure 2.

Photographs providing a detailed overview of the existing ACC-1 system and its individual components are included in Attachment F of this RFP.

3. OBJECTIVE

The key parts of the project work are the RTP I/O subsystem replacement, removal of the local controls, developing construction cut-over plans, PLC programming to replace functions lost due to the removal of the local controls and updating existing drawings of ACC-1 equipment affected by the project.

3.1 RTP I/O Subsystem Replacement

SacSewer's intention is to replace the RTP I/O subsystem with Rockwell ControlLogix PLCs and network equipment to enable communication with the existing Emerson Ovation System. A communication network diagram that has been implemented in newer Area Control Centers and is to be utilized for ACC-1 is provided in Attachment E, Figure 4. Redundant hot standby PLCs is SacSewer's current ACC design standard. SacSewer does not intend to replace the extensive control and signal wiring that exists between ACC-1 and the field equipment or modify any equipment or devices outside ACC-1. ACC-1 I/O list is included in the Attachment G, and Table 2 below shows the number of I/O passing through ACC-1.

ACC	NUMBER OF EQUIPMENT/INSTRUMENTS	DI	DO	AI	AO
1	370	348	67	189	5

Table 2 – ACC-1 I/O SUMMARY

The discrete portion of the RTP I/O above, due to the removal of the Discrete Control Station Assembly (DCSA) that is shown in Attachment E, Figures 1 and 2 (The schematic is provided in Figure 3.), will not typically translate into an easy, direct, one-to-one PLC I/O. Each equipment control schematic must be individually reviewed and re-designed so that the existing I/O can be converted to new PLC I/O without requiring modification or replacement of the field wiring leaving the ACC. Field functions such as the field start/stop, reset, safety interlocks etc. must maintain the same functionality after the RTP I/O replacement as they did prior to this project.

This redesign effort will require an excellent knowledge of electrical motor controls, relay logic, flow and level measurement instruments, and PLC I/O design. It is anticipated that the consultant’s design/field engineer with this experience will be available to work and be located at the EchoWater Facility full-time during the pre-design and design phases to learn the SacSewer’s Electronic Document Management System (EDM) to access existing ACC-1 drawings, investigate and field verify the existing controls by working individually and collaboratively with Plant control systems technicians and electricians, and develop the new contract design documents consistent with SacSewer’s design standards.

3.2 Develop Construction Cut-Over Plans

EchoWater Facility is a continuously operating facility treating wastewater 24 hrs/day, 365 days/year. The consultant is required to propose a cut-over plan for the project construction. The cut-over plan should incorporate the use of a temporary PLC panel to keep critical loads and all required PCCS signals functioning. The plan should include duration for each work item and work sequence. Workshops with ACC-1 Operators and PCCS staff will be necessary to understand the area process and its limitations to accommodate the cut-over activities.

3.3 PLC Programming (by SacSewer staff)

Considering that the DCSAs will be removed as discussed in Section 3.1, any hardware logic such as time delays and safety interlocks residing in the DCSA must be moved to the PLC as software logic. However, it is not necessary to maintain the ACC-1 equipment start/stop capability that’s in the DCSA or the analog (speed or flow or level) control capability that currently exist in ACC-1. The goal is to have the necessary PLC programming to interface Ovation to the field equipment directly with minimum modification to the Ovation software

program and maintain the same functionality of the field equipment. All PLC and Ovation software programming is by SacSewer staff.

3.4 Update Existing Drawings

For each piece of ACC-1 equipment, existing drawings such as the control and logic diagram, interconnection drawing, instrument loop drawing and P&ID drawing must be reviewed and revised. RTP I/O, Discrete Control Station Assembly, and analog module information must be removed from these drawings and replaced with the new PLC and design details. All connection drawings must show the new PLC panel termination location. Identify all drawings that become obsolete (no updates).

4. RFP TIMELINE

Event or Action	Deadline
Release of RFP	Tuesday, October 28, 2025
Mandatory Pre-Proposal Conference	Wednesday, December 3, 2025, 10:00 AM PT
Question Submission Deadline	Friday, December 12, 2025, 5:00 PM PT
Final date to provide Responses to Questions on Business Opportunities webpage	Friday, December 19, 2025
Proposal Submission Deadline	Wednesday, January 14, 2026, 3:00 PM PT
Notice of Intent to Award	February 2026, or later

5. MANDATORY PRE-PROPOSAL CONFERENCE & SITE VISIT

A mandatory pre-proposal conference and site walk-through will be held for the purpose of reviewing and answering questions regarding this project. SacSewer will address oral questions during the conference and will make a reasonable attempt to provide answers before the conference's end. Oral answers provided at the conference shall not be binding on SacSewer. A document containing all the questions asked at the pre-proposal conference and SacSewer’s formal answers to them will be uploaded to this RFP’s posting on SacSewer Business Opportunities website no later than the date set in Section 4 of this RFP.

SacSewer will only accept submitted proposals from entities who attended this mandatory pre-proposal conference and site walk-through. **Attendees must e-mail SacSewer’s designated point of contact, denoted in Section 6 of this RFP, with attendee names prior to the mandatory pre-proposal conference and site visit.** This information is required to coordinate access to the mandatory pre-proposal conference and site visit. Representatives of the Sacramento Area Sewer District will be present for questions.

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Pre-Proposal Conference & Site Walk-Through Information

Date & Time: See Section 4 of this RFP
Location: EchoWater Resource Recovery Facility
8521 Laguna Station Road, Elk Grove, CA 95758

6. QUESTIONS AND COMMUNICATION ABOUT THIS RFP

All communication regarding this RFP should be directed to Sanjay Sivaprasad, Senior Electrical Engineer, via email at sivaprasads@sacsewer.com, SacSewer's designated point of contact. Questions for this RFP should be submitted to SacSewer's designated point of contact via email no later than the date and time stated in Section 4 of this RFP. Inquiries and responses will be posted at <https://www.sacsewer.com/business-opportunities/> by no later than date stated in Section 4 of this RFP. Please note SacSewer will respond only to technical questions. Under no circumstances will interpretive guidance be provided. No oral interpretations shall be made to any respondent as to the meaning of any of the documents.

It is the responsibility of interested firms to periodically check the SacSewer website for addenda to this RFP and responses to inquiries.

7. SCOPE OF SERVICES

The scope of services will include but are not limited to those denoted below. A submitted proposal must address the entire scope of services listed.

The selected consultant will be required to perform the specific services as described in the task breakdown noted below. The tasks are divided into pre-design services, design services, construction support services and project management. The list of tasks will be used as a basis for preparation of the proposal.

It is anticipated that consultant's design/field engineer will be on-site working full-time during the project. SacSewer will provide desk space, computer, printer and access to the SacSewer network for the consultant.

Task 1 - Pre-Design Services (Anticipated duration 5 months)

A. I/E Building Area 1 Equipment and ACC-1 Familiarization

- i. Get to know all equipment in the area by name, exact location and their general functions – motors, pumps, fans, valves, gates, electrical equipment such as MCCs, switchgear and VFDs, control panels, various instruments such as flow meters, level transmitters, speed controllers and others. Match or relate PCCS Ovation DCS ACC-1 I/O points to equipment in the area.
- ii. Review existing electrical, control, instrumentation drawings, vendor O&M manuals and other information to understand how the above equipment is connected to ACC-1 and communicate with Plant's Ovation System. Confirm information by field verification.

- iii. Understand the old ACC-1 RTP I/O System. Review drawing information to understand the functions in various cabinets, I/O racks, CSA control station assemblies, analog meters and controllers and other items. Confirm understanding by inspection of ACC-1 cabinets. Understand how the field I/O information is processed and displayed/controlled in ACC-1 and then transmitted to the Ovation System via the RTP I/O. ACC-1 currently also has a small ControlLogix PLC (PLC240000) in one of the RTP I/O cabinets transmitting about twenty (20) hard-wired points to the Ovation System, see last page of Attachment G. This PLC will be removed and the points have to be transferred to the permanent PLC panel.
- iv. At the end of the above effort be able to comprehend and identify every field wire termination in the ACC-1 I/O cabinets and be able to relate them to the field equipment or other systems (there could be as much as a thousand terminations).

B. Cut-over Planning

- i. The cut-over will be done during the 2027 dry season (April-October). A temporary PLC panel will be located close to the ACC-1 RTP I/O cabinets to temporarily relocate the Ovation/RTP I/O points from the critical equipment required to operate the Plant. Meet with ACC-1 staff to identify the required minimum equipment/loads necessary to operate the Plant (I/E pumps, valves, Gates, instruments, etc.). Some loads required to run may not need PCCS control or run status information for the duration of the cut-over. This equipment could be operated locally but would require the remote PCCS controls be bypassed. Following this effort, a reduced I/O count possibly 25-35% of the entire ACC-1 I/O, will be identified to be relocated to the temporary PLC panel.
- ii. Scope and plan how the field wiring in ACC-1 for the temporary PLC I/O points could be relocated to the temporary PLC panel and back to the permanent PLC panel.
- iii. Plan how to sequentially move the I/O points to the temporary PLC panel, not all points could be moved at once due to Plant operational constraints. Coordinate point transfer with PCCS Ovation programmers during construction.

Task 2 - Design Services

- A. Prepare design drawings and specifications for the temporary and permanent PLC panels. Unlike new construction designs, the PLC design drawings have to be very detailed showing I/O module connections to terminal blocks and other specific information. See example drawings in Attachment H. The expanded design details are required to accommodate existing wiring and site conditions. Include updated or new control & logic drawings for all applicable ACC-1 equipment. Deliverables include: 50% design submittal and bid set for temporary

PLC panel and permanent PLC panel (two separate design packages). At the end of the project provide an as-built copy of the permanent PLC panel design drawings.

- B. Prepare design drawings and specifications for the demolition of RTP I/O cabinets, installation of the permanent PLC panel and all associated conduit and other electrical work. Include any civil, architectural and other design work that maybe required. This construction design drawing package will NOT include any detailed wiring schematics to show conductor removal at the RTP I/O cabinets or termination at the temporary or permanent PLC panels. The design/field engineer is required to show and direct this part of the work during construction. Deliverables include: 50% design submittal and bid set for construction.
- C. SacSewer intends to issue three (3) separate Request For Bids for this project; one for the temporary PLC panel, one for the permanent PLC panel and one for construction and, in this sequence to accommodate the construction schedule. The consultant shall provide technical support during the bid period including attending the pre-bid meetings and answering technical questions.
- D. Prepare control narratives or PLC ladder diagrams for the equipment that currently have control logic in the RTP control station assemblies so the district programmers will be able to program the temporary and permanent PLCs (all PLC programming and changes to the Ovation DCS programming will be done by SacSewer staff).
- E. Update existing drawings as described in Section 3.4. For the purpose of evaluating the level of effort, approximately 300 drawings would need updates. In addition, assume 200 drawings would be identified to be obsolete. Drawing updates shall be in AutoCAD.

Task 3 - Construction Support Services (Anticipated duration 5 months)

- A. Active Hands-On Construction Support
Unlike typical construction projects, the design/field engineer is expected to actively participate in the field during construction. The design/field engineer is required to show and direct all the wire de-termination and re-termination from the RTP I/O cabinets to the temporary PLC panel and back to the permanent PLC panel as well as de-termination and re-termination of remaining conductors that do not go to the temporary PLC panel. The contractor will essentially provide only labor and material. The design/field engineer will be responsible for preparing a detailed and comprehensive list of wire terminations and labeling information to facilitate the contractor's installation work.
- B. Testing and Start-up
All I/O point testing and equipment operation will be led by the design/field engineer with the support of SacSewer programmers and area operators. Each I/O point and equipment will have to be fully tested twice, first when the I/O point is

relocated to the temporary PLC panel and again when relocated back to the permanent PLC panel. The majority of the I/O points not relocated to the temporary PLC panel will also have to be tested twice.

Task 4 - Project Management:

A. Project Management and Setup

Includes setup of internal project controls, project tracking documents, contracting documents and initial subconsultant coordination. The consultant will also track project scope, decisions made, budget schedule and provide project coordination throughout the duration of the project. Deliverables include: Decision log, monthly budget update, and project schedule.

B. Invoicing and Progress Monthly Reporting

Consultant shall prepare and submit monthly progress reports with the monthly project invoice. Deliverables include: Monthly progress report and project invoice.

C. Project Meetings and Bi-weekly Progress Meetings.

The Consultant team shall participate in the project Kick-Off Meeting. The consultant's Project Manager and design/field engineer shall participate in bi-weekly progress meetings. The meetings are assumed to have a one hour duration. Deliverables include: Bi-weekly meeting agenda and meeting minutes.

8. BASIS FOR COMPENSATION

Time and Expenses: Compensation for services rendered will be based on a Time and Expenses basis with a not-to-exceed dollar ceiling for the entire contract.

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9. **ORGANIZATION AND CONTENT OF PROPOSAL**

Consultants must provide complete and current information for all categories listed below. A Proposal shall not exceed 25 singled-sided pages. The following items will not count against the maximum page count: Transmittal Letter, Table of Contents, Section Dividers, sealed Cost Proposal, Resumes, Insurance, Conflict of Interest Form, Employment Practices, Exceptions to Sample Agreement Terms and Conditions, and Iran Contracting Act Disclosure Form and Compliance with Economic Sanctions in Response to Russia’s Action in Ukraine. In addition page sizes shall be 8 ½ X 11 with font size no smaller than 12 pt. Figures and tables may be on 11 X 17 sheets.

SECTION	CONTENTS
Cover Letter	Transmittal
a	Company Background
b	Consultant Team
c	Project Overview
d	Detailed Project Approach
e	Related Experience
f	Level of Effort
g	Cost Proposal (must be submitted in sealed envelope)
h	Project Schedule
i	Conflicts of Interest
j	Proprietary Information
k	Insurance
l	Department of Industrial Relations (DIR) Compliance
m	References
n	Exceptions to Sample Agreement Terms and Conditions
o	Iran Contracting Act Disclosure Form and Compliance with Economic Sanctions in Response to Russia’s Action in Ukraine

a. **Company Background**

Provide a brief introduction of your firm. Include office locations, main areas of expertise, number of staff, and company background and history.

b. **Consultant Team**

The proposed project team shall be identified, specifically the design/field engineer who’s work is critical to the success of this project. The design/field engineer shall meet the experience and be capable of completing the work requirements described in Section 3 and Section 7. Include the design/field engineer’s qualification and experience. Other key tasks and the associated personnel shall be identified, including their areas of expertise and level of participation. A project team diagram shall be included. Resumes may be attached as an appendix at the end of the proposal. The geographic location of the firm and other key personnel shall be identified. All proposed subconsultants shall be identified. Key subconsultants, relevant experience, and supporting material shall be

included in the proposal. Consultant staff must have the appropriate level of experience, and expertise to perform the requested work.

If the prime consultant intends to solicit subproposals and/or quotes for certain tasks from qualified subconsultants, subcontractors, other service providers and suppliers, SacSewer expects the prime consultant to solicit qualified firms in the local business community for such services and supplies.

The solicitation conducted should be as broad as possible to reasonably provide opportunities for and encourage relationship building with qualified minority and women- owned firms, and small and local businesses in the Sacramento community. The prime consultant shall not discriminate in the solicitation process.

Substitution of any subconsultants, subcontractors, other service providers and suppliers identified in the proposal upon which the Agreement is based shall not be made without written consent of SacSewer.

c. **Project Overview**

Provide a narrative description of the proposed project based on the Scope of Services. SacSewer will assess your understanding of all aspects of the project based on the overview.

d. **Detailed Project Approach**

Provide a detailed description of the proposed approach to the project as described above. The description must include details to implement the tasks described in the Scope of Services and any recommended revisions to the list of tasks. The approach should recognize, address, and provide for resolution of all aspects of the project.

e. **Related Experience**

Provide a summary of experience with similar projects that the firm and the proposed team have completed. The description of each project should include the year(s) during which the work was performed and the firm's role in the project, responsibilities of key team members, and a contact person, including telephone number of the project owner.

f. **Level of Effort**

Provide a table showing the proposed total level of effort (LOE), in hours, required to complete each task identified in the scope of services. The table shall show, by task, the individual estimated involvement of each key staff member presented in the team organization chart. SacSewer will monitor involvement of these key staff over the course of the project to confirm their involvement. Supporting staff can be shown by various classes of employees to be used for the services. Services provided by subcontractors shall be shown separately within the table.

g. Cost Proposal

Provide your firm's cost proposal in a separately sealed envelope. Additionally, the electronic copy of your firm's proposal **must not** include a copy of the cost proposal. The submitted cost information must represent the full estimated LOE and project schedule included in the consultant's proposal. The envelope for the selected firm will be opened for the purpose of negotiating an agreement. The envelopes for the firms not selected will be returned unopened after negotiations are complete and the contract has been executed.

Compensation will be on a time-and-materials basis, with an authorized not-to-exceed amount. Include the following information:

- i. Direct hourly labor rates for those staff to be billed to the project.
- ii. Estimated labor hours (LOE) and fee by task.
- iii. Types and estimated amount of non-labor costs to be billed to the project.
- iv. Adjustments in rates predicted to occur during the project. For budgeting purposes, a maximum escalation rate of 3 percent per year should be assumed and will be discussed during fee negotiations.
- v. Sub-consultant costs. A maximum markup of 5 percent is permitted.
- vi. Other direct costs (ODCs). A maximum markup of 5 percent is permitted.
- vii. Lodging, meals, and travel shall be reimbursed as follows:
 1. Per diem for lodging (equal to the federal standard CONUS per diem rate for Sacramento County at the time of contract negotiation) will be reimbursed for each work night, up to five (5) nights per week.
 2. Per diem for meals and incidentals (equal to the federal standard CONUS per diem rate for Sacramento County at the time of contract negotiation) will be reimbursed for each work day, up to five (5) days per week.
 3. Airfare and local and home transportation costs will be reimbursed at cost.
 4. Mileage will be reimbursed at the current IRS rate which can be accessed by clicking the following link: <https://www.irs.gov/tax-professionals/standard-mileage-rates>

h. Project Schedule

A schedule for completion of the project shall be submitted with the proposal. All major outputs and meetings shall be included on the schedule, and time shall be allocated for staff review.

i. Conflicts of Interest

Firms submitting proposals in response to this RFP must disclose to SacSewer any actual, apparent, direct or indirect, or potential conflicts of interest that may exist with respect to the firm, management, or employees of the firm or other persons relative to the services to be provided to be awarded pursuant to this RFP. If a firm has no conflicts of interest, a statement to that effect must be included in the proposal. Consultants must submit with their proposal a completed "Conflict of Interest and Non-Collusion Affidavit" Form attached here to as Attachment A.

j. **Proprietary Information**

Any information submitted in a proposal in response to this RFP which the consultant considers to be proprietary must be identified as such, and the consultant must include the legal basis for a claim of confidentiality. SacSewer will not assert the confidentiality of such information unless the consultant executes and submits a written agreement prepared by SacSewer to defend and indemnify the agency for any liability, costs, and expenses incurred in asserting such confidentiality as part of the proposal. The final determination as to whether or not SacSewer will assert the claim of confidentiality on behalf of the consultant is in the sole discretion of the SacSewer.

k. **Insurance**

Provide a summary of the consultant's present and proposed insurance coverage, including commercial general liability, automobile liability, workers' compensation, property damage, employer's liability, and professional liability or errors and omissions liability for the duration of the contract. Please see Attachment B - Sample Agreement and refer to its Exhibit B for SacSewer insurance requirements.

l. **Department of Industrial Relations (DIR) Compliance**

Consultants must note within their proposal, valid DIR registration numbers for consultant's personnel and sub-consultants performing public works tasks.

- i. If applicable to work contemplated under the proposed Agreement, no contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) 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)].
- ii. If applicable to work contemplated under the proposed Agreement, no contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.
- iii. If applicable to work contemplated under the proposed Agreement, this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.
- iv. Labor Compliance Program: The County of Sacramento received final approval from the Director of California Department of Industrial Relations as a Labor Compliance Program effective March 15, 1994. All questions regarding this Labor Compliance Program and prevailing wage requirements should be directed to the Labor Compliance Section at (916) 875-2711.

Pursuant to California Labor Code Section 1720 and following, and Section 1770 and following, the CONTRACTOR shall pay not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations.

Copies of the prevailing wage determinations are on file at the office of the County of Sacramento Labor Compliance Program, 9700 Goethe Road, Suite D, Sacramento, CA 95827, and are also available on the internet at <http://www.dir.ca.gov/DLSR/PWD>.

m. **References**

Provide a minimum of three public agency contacts for which your design/field engineer and key team members (as members of your firm) have provided similar services recently. Provide the name, address, current telephone number, and e-mail address of the representative for each of the references.

n. **Exceptions to Sample Agreement Terms and Conditions**

Provide a list of specific exceptions to contract terms and conditions which the consultant will seek from SacSewer's Sample Agreement. The Sample Agreement is incorporated into this RFP package as Attachment B.

If a consultant does not seek any exceptions from the contract terms and conditions in SacSewer's Sample Agreement, then a statement stating such must be included in this section.

o. **Iran Contracting Act Disclosure Form and Compliance with Economic Sanctions in Response to Russia's Action in Ukraine**

Please see Section 14 of this RFP for additional information on the Iran Contracting Act Disclosure Form and Compliance with Economic Sanctions in Response to Russia's Action in Ukraine. If either or both forms are completed, they must be placed in this section of the proposal.

If a consultant's proposal does not meet the requirement for either condition, then a statement stating such must be included in this section.

10. **PROPOSAL SUBMISSION INSTRUCTIONS**

Please submit a total of five (5) (one (1) signed original, four (4) hard copies) sets, and one (1) electronic digital media copy by the proposal submission deadline stated in Section 4 of this RFP. A submitted proposal should be addressed to the following:

Deliver To:
EchoWater Resource Recovery Facility
Attn: Sanjay Sivaprasad
8521 Laguna Station Road
Elk Grove, CA 95758

All proposals received after the deadline stated in Section 4 of this RFP will not be accepted.

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11. PROPOSAL RATING CRITERIA

The criteria for evaluating the written proposals are described below:

Criteria	Point Value
Overall Responsiveness to RFP Requirements	10
Company Background	5
Project Overview	5
Detailed Project Approach	10
Related Experience	10
Consultant Team	35
Level of Effort	20
Schedule	5
Total	100

12. SELECTION PROCESS

In order to be considered, interested consultants must submit a complete proposal document, with organization and content consistent with Section 9 of this RFP, by the proposal submission deadline stated in Section 4 of this RFP.

Ranking of the proposals will be based on capability/qualifications criteria. Proposals will be evaluated in three phases as follows:

Phase 1: Proposals will be examined as to whether or not the Consultant understood and responded in accordance with the following requirements:

- 1) Proper completion and submittal of required proposal documents; and
- 2) Related experience requirement met or exceeded.

Phase 2: Proposals that meet the requirements in Phase 1 will be evaluated and scored using the table in Section 11 of this RFP. The table identifies criteria used in the determination of the final proposal ranking. If any single criterion score fails to be above zero, the proposal will be automatically rejected. Those proposals with a score of less than 60 will be disqualified. Based upon the evaluation of the proposals and reference checks, the most responsive proposals may be invited to an interview to further aid the selection process. SacSewer may also elect to complete the consultant evaluation and selection without going through the interview process.

Phase 3: Cost information for the highest ranked proposal (and interview, if conducted) will be opened and SacSewer will enter into negotiations with the consultant. If a mutually agreeable contract is unable to be negotiated, SacSewer will conclude negotiations with said consultant, and commence negotiations with the consultant with the next highest ranked proposal. This process will continue until an agreement is successfully negotiated or the entire list of eligible consultants is exhausted. Once a mutually agreeable contract is executed, the remaining sealed cost proposals will be returned to remaining consultants.

SacSewer reserves the right:

- To reject any or all Proposals, or any part thereof; and
- To select more than one consultant; and
- To waive any informality in the Proposal; and
- To accept the Proposal that is in the best interest of SacSewer.

All SacSewer's decisions will be final.

13. AWARD OF CONTRACT

Award of contract shall be made to the consultant who provides the best value and overall response to the requirements of this RFP. SacSewer may select whichever proposal it determines will best serve its interests. The successful consultant will be selected in accordance with the selection process identified in Section 12 of this RFP, and any addenda thereto, except for such immaterial deviation as may be waived by SacSewer. Selection is expected to be made by February 2026, or later, subject to final approval by the SacSewer Board of Directors. Consultants who submitted proposals will be notified of the outcome of the selection process.

14. ADDITIONAL TERMS AND CONDITIONS

a. **Federal Exclusion List**

SacSewer is prohibited from awarding this contract to any person, entity or business that is on the Federal Exclusion List (<https://www.sam.gov/>). If you or your firm is on this list, then SacSewer cannot award this agreement to you, and you should not provide a response to this RFP. In addition, consultant certifies that it shall not contract with a subcontractor that is debarred, suspended or on the Federal Exclusion List.

b. **Revision of Proposal**

Consultants may withdraw or revise a proposal on the consultant's initiative at any time before the deadline for submission of proposals. The consultant must submit the revised

proposal in the same manner as the original proposal on or before the listed proposal's due date and time. In no case will a statement of intent to submit a revised proposal extend any consultant's due date. At any time during the proposal evaluation process, SacSewer may request a consultant to provide oral or written clarification of its proposal.

c. Errors and Omissions in Proposal

Failure by SacSewer to object to an error, omission, or deviation in the proposal will in no way modify the RFP or excuse the consultant from full compliance with the specifications of the RFP or any Agreement awarded pursuant to the RFP.

d. Iran Contracting Act Disclosure

Pursuant to the Iran Contract Act of 2010 (California Public Contract Code, Sections 2202-2208), consultants are ineligible to submit a proposal for projects with a public entity for goods or services of one million dollars (\$1,000,000) or more if the Consultant engages in investment activities in Iran.

The Iran Contracting Act Disclosure Form, incorporated into this RFP package as Attachment C, shall be completed and submitted by participating firms if the total cost of their proposed solution is in excess of \$1,000,000. The Iran Contracting Act Disclosure Form will also need to be completed by the awarded consultant(s) if the total value of their agreement exceeds \$1,000,000 during its entire term.

e. Economic Sanctions

Pursuant to California State Executive Order N-6-22 (Order) imposing economic sanctions against Russia and declaring support of Ukraine, SacSewer shall terminate any contract with any individual or entity that is in violation of the Order or that is subject to economic sanctions therein and shall not enter a contract with any such individual or entity while the Order is in effect.

Compliance With Economic Sanctions In Response To Russia's Actions In Ukraine Form, incorporated into this RFP package as Attachment D, shall be completed and submitted by the participating firms if the total cost of their proposed solution is in excess of \$5,000,000. Compliance With Economic Sanctions In Response To Russia's Actions In Ukraine form will also need to be completed by the awarded consultant(s) if the total value of their agreement exceeds \$5,000,000 during its entire term. SacSewer shall keep the form and other supporting documentation on file as evidence of compliance with the Order.

(ATTACHMENTS FOLLOW)

RFP No. 9158

ATTACHMENT A

**Conflict of Interest and Non-
Collusion Affidavit**

ATTACHMENT A

CONFLICT OF INTEREST AND NON-COLLUSION AFFIDAVIT

IN ACCORDANCE WITH THIS PROPOSAL, I CERTIFY THAT OUR BUSINESS:

1. Does not and will not have a financial interest in any business, property or source of income, which could be financially affected or otherwise conflict in any manner with the performance of services under this request for proposals;
2. Has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with this request for proposals; and
3. Is not currently suspended or debarred from doing business with any government entity.

I affirm that the above is true and correct to the best of my knowledge under penalty of perjury under the laws of the State of California.

Name

Date

Title

Business Name

RFP No. 9158

ATTACHMENT B

Sample Agreement

Attachment B

SACRAMENTO AREA SEWER DISTRICT

AGREEMENT FOR (Title)

THIS AGREEMENT is made and entered into on _____ by and between the SACRAMENTO AREA SEWER DISTRICT, a county sanitation district pursuant to and operating under the authority of the County Sanitation District Act, commencing at Health and Safety Code section 4700 et.seq., hereinafter referred to as "SacSewer," and [CONSULTANT NAME], a [nature of business, such as: an individual, a partnership, a California corporation, etc.], hereinafter referred to as "CONSULTANT".

RECITALS

WHEREAS, SacSewer determined that it is desirable to retain a consultant to provide for [description of services to be rendered]; and

WHEREAS, CONSULTANT proposed to provide the requested services for the compensation to be provided herein; and

WHEREAS, SacSewer issued a Request for Proposal (RFP) and selected CONSULTANT from among the respondents because CONSULTANT meets SacSewer's needs and provides the best value; and

WHEREAS, SacSewer and CONSULTANT desire to enter into this Agreement on the terms and conditions set forth herein.

NOW, THEREFORE, in consideration of the mutual promises hereinafter set forth, SacSewer and CONSULTANT agree as follows:

1. **SCOPE OF SERVICES**

CONSULTANT shall provide services in the amount, type and manner described in Exhibit [Identifier], which is attached hereto and incorporated herein.

2. **TERM**

This Agreement shall be effective and commence as of the date first written above and shall remain in effect until all services covered by this Agreement are completed, which is estimated to be [Date].

3. **NOTICE**

Any notice, demand, request, consent, or approval that either party hereto may or is required to give the other pursuant to this Agreement shall be in writing and shall be either personally delivered or sent by mail, addressed as follows:

TO SACSEWER:

Sacramento Area Sewer District
10060 Goethe Rd.
Sacramento, CA 95827
Attn: Contracts Payment Desk

TO CONSULTANT:

Name
Address
Attn:

Either party may change the address to which subsequent notice and/or other communications can be sent by giving written notice designating a change of address to the other party, which shall be effective upon receipt.

4. **COMPLIANCE WITH LAWS**

CONSULTANT shall observe and comply with all applicable federal, state, and county and SacSewer laws, regulations and ordinances.

5. **GOVERNING LAWS AND JURISDICTION**

This Agreement shall be deemed to have been executed and to be performed within the State of California and shall be construed and governed by the internal laws of the State of California. Any legal proceedings arising out of or relating to this Agreement shall be brought in Sacramento County, California.

6. **ECONOMIC SANCTIONS**

Pursuant to California State Executive Order N-6-22 (Order) imposing economic sanctions against Russia and declaring support of Ukraine, SacSewer shall terminate any contract with any individual or entity that is in violation of the Order or that is subject to economic sanctions therein, and shall not enter a contract with any such individual or entity while the Order is in effect.

7. **LICENSES AND PERMITS**

A. CONSULTANT shall possess and maintain all necessary licenses, permits, certificates and credentials required by the laws of the United States, the State of California, County of Sacramento (County) and all other appropriate governmental agencies, including any certification and credentials required by SacSewer. Failure to maintain the licenses, permits, certificates, and credentials shall be deemed a breach of this Agreement and constitutes grounds for the termination of this Agreement by SacSewer.

B. CONSULTANT further certifies to SacSewer that it and its principals are not debarred, suspended, or otherwise excluded from or ineligible for, participation in federal, state or county government contracts. CONSULTANT certifies that it shall not contract with a Subcontractor that is so debarred or suspended.

8. PREVAILING WAGES

CONSULTANT shall comply with the provisions of the California Labor Code, specifically, but not limited to, Chapter 1, commencing at Section 1720, of Part 7 of Division 2 (payment of prevailing wages). The prevailing rates for per diem wages shall be those rates determined by the Director of the California Department of Industrial Relations.

9. DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) COMPLIANCE

A. If applicable to work contemplated by this Agreement, no contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

B. If applicable to work contemplated by this Agreement, this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

C. Labor Compliance Program: The County received final approval from the Director of California Department of Industrial Relations as a Labor Compliance Program effective March 15, 1994. All questions regarding this Labor Compliance Program and prevailing wage requirements should be directed to the Labor Compliance Section at (916) 875-2711.

D. If applicable to work contemplated by this Agreement, this is a contracting services project in accordance with Section 1771.5 of the California Labor Code. Pursuant to California Labor Code Section 1720 and following, and Section 1770 and following, the CONSULTANT shall pay not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations. Copies of the prevailing wage determinations are on file at the office of the County of Sacramento Labor Compliance Program, 9700 Goethe Road, Suite D, Sacramento, CA 95827, and are also available on the internet at <http://www.dir.ca.gov/DLSR/PWD>.

10. PERFORMANCE STANDARDS

CONSULTANT shall perform its services under this Agreement in accordance with the industry and/or professional standards applicable to CONSULTANT's services.

11. OWNERSHIP OF WORK PRODUCT

All technical data, evaluations, plans, specifications, reports, documents, or other work products developed by CONSULTANT provided hereunder shall be the exclusive property of SacSewer and shall be delivered to SacSewer upon completion of the services authorized hereunder. CONSULTANT may retain copies thereof for its files and internal use. Publication of the information directly derived from work performed or data obtained in connection with services rendered under this Agreement must first be approved in writing by SacSewer. SacSewer recognizes that all technical data, evaluations, plans, specifications, reports, and other work products are instruments of CONSULTANT's services and are not designed for use other than what is intended by this Agreement.

12. STATUS OF CONSULTANT

[Option (A)]

A. It is understood and agreed that CONSULTANT (including CONSULTANT's employees) is an independent contractor and that no relationship of employer-employee exists between the parties hereto. CONSULTANT's assigned personnel shall not be entitled to any benefits payable to employees of SacSewer. SacSewer is not required to make any deductions or withholdings from the compensation payable to CONSULTANT under the provisions of this Agreement; and as an independent contractor, CONSULTANT hereby agrees to indemnify, defend, and hold SacSewer harmless from any and all claims, including reasonable attorneys' fees, that may be made against SacSewer based upon any contention by any third party that an employer-employee relationship exists by reason of this Agreement.

B. It is further understood and agreed by the parties hereto that CONSULTANT in the performance of its obligation hereunder is subject to the control or direction of SacSewer as to the designation of tasks to be performed, the results to be accomplished by the services hereunder agreed to be rendered and performed, and not the means, methods, or sequence used by CONSULTANT for accomplishing the results.

C. If, in the performance of this Agreement, any third persons are employed by CONSULTANT, such person shall be entirely and exclusively under the direction, supervision, and control of CONSULTANT. All terms of employment, including hours, wages, working conditions, discipline, hiring, and discharging, or any other terms of employment or requirements of law, shall be determined by CONSULTANT, and SacSewer shall have no right or authority over such persons or the terms of such employment.

D. It is further understood and agreed that as an independent contractor and not an employee of SacSewer, neither the CONSULTANT nor CONSULTANT's assigned personnel shall have any entitlement as an SacSewer employee, right to act on behalf of SacSewer in any capacity whatsoever as agent, nor to bind SacSewer to any obligation whatsoever. CONSULTANT shall not be covered by worker's compensation; nor shall CONSULTANT be entitled to compensated sick leave, vacation leave, retirement entitlement, participation in group health, dental, life and other insurance programs, or entitled to other fringe benefits payable by SacSewer to employees of SacSewer.

E. It is further understood and agreed that CONSULTANT must issue W-2 and 941 Forms for income and employment tax purposes, for all of CONSULTANT's assigned personnel under the terms and conditions of this Agreement.

[OR Option (B)]

A. It is understood and agreed that CONSULTANT (including CONSULTANT's employees) is an independent contractor and that no relationship of employer-employee exists between the parties hereto. CONSULTANT's assigned personnel shall not be entitled to any benefits payable to employees of SacSewer as an independent contractor, CONSULTANT hereby agrees to indemnify, defend, and hold SacSewer harmless from

any and all claims, including reasonable attorneys' fees, that may be made against SacSewer based upon any contention by any third party that an employer-employee relationship exists by reason of this Agreement.

B. It is further understood and agreed by the parties hereto that CONSULTANT in the performance of its obligation hereunder is subject to the control or direction of SacSewer as to the designation of tasks to be performed, the results to be accomplished by the services hereunder agreed to be rendered and performed, and not the means, methods, or sequence used by CONSULTANT for accomplishing the results.

C. If, in the performance of this Agreement, any third persons are employed by CONSULTANT, such person shall be entirely and exclusively under the direction, supervision, and control of CONSULTANT. All terms of employment, including hours, wages, working conditions, discipline, hiring, and discharging, or any other terms of employment or requirements of law, shall be determined by CONSULTANT, and SacSewer shall have no right or authority over such persons or the terms of such employment.

D. It is further understood and agreed that as an independent contractor and not an employee of SacSewer, neither the CONSULTANT nor CONSULTANT's assigned personnel shall have:

- (1) Any entitlement as a SacSewer employee.
- (2) Except as otherwise provided by this Agreement, the right to act on behalf of SacSewer in any capacity whatsoever as agent, nor to bind County to any obligation whatsoever.
- (3) CONSULTANT shall not be covered by worker's compensation; nor shall CONSULTANT be entitled to compensated sick leave, vacation leave, retirement entitlement, participation in group health, dental, life and other insurance programs, or entitled to other fringe benefits payable by SacSewer to employees of SacSewer.

E. Notwithstanding CONSULTANT's status as an independent contractor, SacSewer shall withhold from payments made to CONSULTANT such sums as are required to be withheld from employees by the Federal Internal Revenue Code; the Federal Insurance Compensation Act; the State Personal Income Tax Law and the State Unemployment Insurance Code; provided, however, that said withholding is for the purpose of avoiding SacSewer's liability under said laws and does not abrogate CONSULTANT's status as an independent contractor as described in this Agreement. Further, CONSULTANT is not included in any group covered by SacSewer's present agreement with the federal Social Security Administration.

[AND – Optional based on in state vs out-of-state service provider]

F. Notwithstanding subparagraphs (A) and (E), it is further understood and agreed that SacSewer shall withhold seven percent (7%) of all income paid to CONSULTANT under this Agreement for payment and reporting to the California Franchise Tax Board because

CONSULTANT does not qualify as (1) a corporation with its principal place of business in California, (2) a partnership with a permanent place of business in California, (3) a corporation qualified to do business in California by the Secretary of State, or (4) an individual with a permanent residence in the State of California.

13. CONSULTANT IDENTIFICATION

CONSULTANT shall provide SacSewer with the following information for the purpose of compliance with California Unemployment Insurance Code section 1088.8: CONSULTANT's name, address, telephone number, social security number, and whether dependent health insurance coverage is available to CONSULTANT.

14. COMPLIANCE WITH CHILD, FAMILY AND SPOUSAL SUPPORT REPORTING OBLIGATIONS

A. CONSULTANT's failure to comply with state and federal child, family and spousal support reporting requirements regarding a contractor's employees or failure to implement lawfully served wage and earnings assignment orders or notices of assignment relating to child, family and spousal support obligations shall constitute a default under this Agreement.

B. CONSULTANT's failure to cure such default within 90 days of notice by SacSewer shall be grounds for termination of this Agreement.

15. BENEFITS WAIVER

If CONSULTANT is unincorporated, CONSULTANT acknowledges and agrees that CONSULTANT is not entitled to receive the following benefits and/or compensation from SacSewer: medical, dental, vision and retirement benefits, life and disability insurance, sick leave, bereavement leave, jury duty leave, parental leave, or any other similar benefits or compensation otherwise provided to permanent civil service employees pursuant to SacSewer's Employee Benefits documents for all of its Employee Groups, the Civil Service Rule, the Sacramento County Employees' Retirement System and/or any and all memoranda of understanding between SacSewer and its employee organizations. Should CONSULTANT or any employee or agent of CONSULTANT seek to obtain such benefits from SacSewer, CONSULTANT hereby agrees to indemnify, defend, and hold SacSewer harmless from any and all claims, including reasonable attorneys' fees, that may be made against SacSewer for such benefits.

16. RETIREMENT BENEFITS/STATUS

CONSULTANT acknowledges and agrees that SacSewer has not made any representations regarding entitlement, eligibility for and/or right to receive ongoing Sacramento County Employee Retirement System (SCERS) retirement benefits during the term of this Agreement. By entering into this Agreement, CONSULTANT assumes sole and exclusive responsibility for any consequences, impacts or action relating to such retirement benefits that is or will be occasioned as a result of the services provided by CONSULTANT under this Agreement. CONSULTANT waives any rights to proceed against SacSewer should SCERS modify or terminate retirement benefits based on CONSULTANT's provision of services under this Agreement.

17. **SCERS POST RETIREMENT EMPLOYMENT POLICY**

A. Any employee of, or contractor retained by, CONSULTANT who is retired from County or SacSewer service is subject to SCERS Post Retirement Employment Policy and must adhere to limitations on post-retirement service, including a 180-day waiting period before working for the County or SacSewer, and a 960-hour per calendar year cap when working for the County or SacSewer.

B. CONSULTANT shall report to SacSewer in writing, the names of current and future employees who will provide services under this Agreement, that are retired from County or SacSewer employment.

C. CONSULTANT must report to SacSewer in writing on a semi-annual basis (January 5th and July 5th of each calendar year), the names of employees retired from County or SacSewer employment providing services under this Agreement, and hours those employees have worked during the applicable reporting period. CONSULTANT shall submit reports to SDASCERSReporting@sacsewer.com.

D. CONSULTANT shall not assign employees to provide services under this Agreement in violation of SCERS Post Retirement Employment Policy.

18. **CONFLICT OF INTEREST**

CONSULTANT and CONSULTANT's officers and employees shall not have a financial interest, or acquire any financial interest, direct or indirect, in any business, property or source of income which could be financially affected by or otherwise conflict in any manner or degree with the performance of services required under this Agreement.

19. **LOBBYING AND UNION ORGANIZATION ACTIVITIES**

A. CONSULTANT shall comply with all certification and disclosure requirements prescribed by Section 319, Public Law 101-121 (31 U.S.C. § 1352) and any implementing regulations.

B. If services under this Agreement are funded with state funds granted to SacSewer, CONSULTANT shall not utilize any such funds to assist, promote or deter union organization by employees performing work under this Agreement and shall comply with the provisions of Government Code Sections 16645 through 16649.

20. **NONDISCRIMINATION IN EMPLOYMENT, SERVICES, BENEFITS AND FACILITIES**

A. CONSULTANT agrees and assures SacSewer that CONSULTANT and any subconsultants shall comply with all applicable federal, state, and local Anti-discrimination laws, regulations, and ordinances and to not unlawfully discriminate, harass, or allow harassment against any employee, applicant for employment, employee or agent of SacSewer, or recipient of services contemplated to be provided or provided under this Agreement, because of race, ancestry, marital status, color, religious creed, political belief,

national origin, ethnic group identification, sex, sexual orientation, age (over 40), medical condition (including HIV and AIDS), or physical or mental disability. CONSULTANT shall ensure that the evaluation and treatment of its employees and applicants for employment, the treatment of SacSewer employees and agents, and recipients of services are free from such discrimination and harassment.

B. CONSULTANT represents that it is in compliance with and agrees that it will continue to comply with the Americans with Disabilities Act of 1990 (42 U.S.C. § 12101 et seq.), the Fair Employment and Housing Act (Government Code § 12900 et seq.), and regulations and guidelines issued pursuant thereto.

C. CONSULTANT agrees to compile data, maintain records and submit reports to permit effective enforcement of all applicable anti-discrimination laws and this provision.

D. CONSULTANT shall include this nondiscrimination provision in all subcontracts related to this Agreement.

21. INDEMNIFICATION

To the fullest extent permitted by law, for work or services provided under this Agreement, CONSULTANT shall indemnify, defend, and hold harmless SacSewer and County of Sacramento, its governing Board, officers, directors, officials, employees, and authorized volunteers and agents (collectively "Indemnified Parties"), from and against any and all claims, demands, actions, losses, liabilities, damages, and all expenses and costs incidental thereto (collectively "Claims"), including cost of defense, settlement, arbitration, expert fees, and reasonable attorneys' fees, resulting from injuries to or death of any person, including employees of either party hereto, and damage to or destruction of property, or loss of use or reduction in value thereof, including the property of either party hereto, and recovery of monetary losses incurred by SacSewer directly attributable to the performance of CONSULTANT, to the extent arising out of, pertaining to, or relating to the negligence, recklessness, or willful misconduct of CONSULTANT, its employees, CONSULTANT's sub-consultants or subcontractors at any tier, or any other party for which CONSULTANT is legally liable under law.

The right to defense and indemnity under this section arises upon occurrence of an event giving rise to a Claim and tendered in writing to CONSULTANT. CONSULTANT shall defend Indemnified Parties with counsel reasonably acceptable to SacSewer.

Notwithstanding the foregoing, the parties expressly agree that CONSULTANT's defense obligation under this indemnity obligation shall require CONSULTANT to defend the Indemnified Parties until any of the following occur: (1) the judgment has become final by a Court of Competent Jurisdiction, (2) other mutually agreeable dispute resolution or settlement process establishing the proportionate percentage of fault of the parties under law. In the event that fault is apportioned between SacSewer and CONSULTANT, CONSULTANT's final cost of defense shall not exceed its proportionate percentage of fault. To the extent that CONSULTANT's cost of defense exceeds its proportionate percentage of fault, SacSewer shall reimburse CONSULTANT. If requested by SacSewer,

CONSULTANT agrees to participate, at its own expense, in the defense of a Claim to provide testimony or to produce documents or other relevant information.

CONSULTANT shall include in all subcontracts a provision requiring the subconsultant, to the fullest extent permitted by law, to indemnify, defend, and hold harmless SacSewer and its officers, officials, and employees from and against claims, damages, losses, and expenses, including attorneys' fees, but only to the extent arising out of the negligent acts, errors, or omissions of the subconsultant, its employees, or anyone for whom the subconsultant is legally responsible.

To the extent permitted by law, this indemnity obligation shall not be limited by the types and amounts of insurance or self-insurance maintained by CONSULTANT or CONSULTANT's subconsultants or subcontractors at any tier.

Nothing in this indemnity obligation shall be construed to create any duty to, any standard of care with reference to, or any liability or obligation, contractual or otherwise, to any third party.

The provisions of this indemnity obligation shall survive the expiration or termination of the Agreement.

22. INSURANCE

Without limiting CONSULTANT's indemnification, CONSULTANT shall maintain in force at all times during the term of this Agreement and any extensions or modifications thereto, insurance as specified in Exhibit [Identifier]. It is the responsibility of CONSULTANT to notify its insurance advisor or insurance carrier(s) regarding coverage, limits, forms and other insurance requirements specified in Exhibit [Identifier]. It is understood and agreed that SacSewer shall not pay any sum to CONSULTANT under this Agreement unless and until SacSewer is satisfied that all insurance required by this Agreement is in force at the time services hereunder are rendered. Failure to maintain insurance as required in this agreement may be grounds for material breach of contract.

23. INFORMATION TECHNOLOGY ASSURANCES

CONSULTANT shall take all reasonable precautions to ensure that any hardware, software, and/or embedded chip devices used by CONSULTANT in the performance of services under this Agreement, other than those owned or provided by SacSewer, shall be free from viruses. Nothing in this provision shall be construed to limit any rights or remedies otherwise available to SacSewer under this Agreement.

24. COMPENSATION AND PAYMENT OF INVOICES LIMITATIONS

A. Compensation under this Agreement shall be limited to the Maximum Total Payment Amount set forth in Exhibit [Identifier], or Exhibit [Identifier] as modified by SacSewer in accordance with express provisions in this Agreement.

B. CONSULTANT shall submit an invoice in accordance with the procedures prescribed by SacSewer [insert applicable option, e.g. on a monthly basis, upon completion

[of services, etc., as appropriate and change the following submittal language as needed.]
for services provided. Invoices shall be submitted to SacSewer no later than the fifteenth (15th) day following the invoice period, and SacSewer shall pay CONSULTANT within thirty (30) days after receipt of an appropriate and correct invoice.

C. SacSewer operates on a July through June fiscal year. Invoices for services provided in any fiscal year must be submitted no later than July 31, one month after the end of the fiscal year. Invoices submitted after July 31 for the prior fiscal year shall not be honored by SacSewer unless CONSULTANT has obtained prior written SacSewer approval to the contrary.

D. CONSULTANT shall maintain for four years following termination of this Agreement full and complete documentation of all services and expenditures associated with performing the services covered under this Agreement. Expense documentation shall include: time sheets or payroll records for each employee; receipts for supplies; applicable subcontract expenditures; applicable overhead and indirect expenditures.

E. In the event CONSULTANT fails to comply with any provisions of this Agreement, SacSewer may withhold payment until such non-compliance has been corrected.

25. SUBCONTRACTS, ASSIGNMENT

A. CONSULTANT shall obtain prior written approval from SacSewer before subcontracting any of the services delivered under this Agreement. CONSULTANT remains legally responsible for the performance of all contract terms including work performed by third parties under subcontracts. Any subcontracting will be subject to all applicable provisions of this Agreement. CONSULTANT shall be held responsible by SacSewer for the performance of any subconsultant whether approved by SacSewer or not.

B. This Agreement is not assignable by CONSULTANT in whole or in part, without the prior written consent of SacSewer.

26. AMENDMENT AND WAIVER

Except as provided herein, no alteration, amendment, variation, or waiver of the terms of this Agreement shall be valid unless made in writing and signed by both parties. Waiver by either party of any default, breach or condition precedent shall not be construed as a waiver of any other default, breach or condition precedent, or any other right hereunder. No interpretation of any provision of this Agreement shall be binding upon SacSewer unless agreed in writing by the District Engineer and counsel for SacSewer.

27. SUCCESSORS

This Agreement shall bind the successors of SacSewer and CONSULTANT in the same manner as if they were expressly named.

28. TIME

Time is of the essence of this Agreement.

29. INTERPRETATION

This Agreement shall be deemed to have been prepared equally by both of the parties, and the Agreement and its individual provisions shall not be construed or interpreted more favorably for one party on the basis that the other party prepared it.

30. DISTRICT ENGINEER

As used in this Agreement, "District Engineer" shall mean the District Engineer of the Sacramento Area Sewer District, or his designee.

31. DISPUTES

In the event of any dispute arising out of or relating to this Agreement, the parties shall attempt, in good faith, to promptly resolve the dispute mutually between themselves. Pending resolution of any such dispute, CONSULTANT shall continue without delay to carry out all its responsibilities under this Agreement unless the Agreement is otherwise terminated in accordance with the Termination provisions herein. SacSewer shall not be required to make payments for any services that are the subject of this dispute resolution process until such dispute has been mutually resolved by the parties. If the dispute cannot be resolved within 15 calendar days of initiating such negotiations or such other time period as may be mutually agreed to by the parties in writing, either party may pursue its available legal and equitable remedies, pursuant to the laws of the State of California. Nothing in this Agreement or provision shall constitute a waiver of any of the government claim filing requirements set forth in Title 1, Division 3.6, of the California Government Code or as otherwise set forth in local, state and federal law.

32. TERMINATION

A. SacSewer may terminate this Agreement without cause upon [number of days] days written notice to the other party. Notice shall be deemed served on the date of mailing. If notice of termination for cause is given by SacSewer to CONSULTANT and it is later determined that CONSULTANT was not in default or the default was excusable, then the notice of termination shall be deemed to have been given without cause pursuant to this paragraph (A).

B. SacSewer may terminate this Agreement for cause immediately upon giving written notice to CONSULTANT should CONSULTANT materially fail to perform any of the covenants contained in this Agreement in the time and/or manner specified. In the event of such termination, SacSewer may proceed with the work in any manner deemed proper by SacSewer. If notice of termination for cause is given by SacSewer to CONSULTANT and it is later determined that CONSULTANT was not in default or the default was excusable, then the notice of termination shall be deemed to have been given without cause pursuant to paragraph (A) above.

C. SacSewer may terminate or amend this Agreement immediately upon giving written notice to CONSULTANT, 1) if advised that funds are not available from external sources for this Agreement or any portion thereof, including if distribution of such funds to SacSewer is suspended or delayed; 2) if funds for the services and/or programs provided pursuant to this Agreement are not appropriated by the State; 3) if funds in SacSewer's

yearly proposed and/or final budget are not appropriated by SacSewer for this Agreement or any portion thereof; or 4) if funds that were previously appropriated for this Agreement are reduced, eliminated, and/or re-allocated by SacSewer as a result of mid-year budget reductions.

D. If this Agreement is terminated by SacSewer under paragraph (A) or (C) above:

(1) CONSULTANT shall cease rendering services pursuant to this Agreement as of the termination date.

(2) CONSULTANT shall deliver to SacSewer copies of all writings prepared pursuant to this Agreement. The term "writings" shall be construed to mean and include: handwriting, typewriting, drawings, blueprints, printing, electronic media, photostating, photographing, and every other means of recording upon any tangible thing, any form of communication or representation, including letters, words, pictures, sounds, or symbols, or combinations thereof.

(3) CONSULTANT shall not incur any expenses under this Agreement after notice of termination and shall cancel any outstanding expenses obligations to a third party that CONSULTANT can legally cancel.

E. If this Agreement is terminated under paragraphs (A) or (C), above, CONSULTANT shall be paid for authorized and approved services performed prior to the termination date in accordance with the provisions of the Compensation and Payment of Invoices Limitations provision of this Agreement.

[AND]

F. The District Engineer has authority to terminate this Agreement under paragraphs (A), (B), or (C), above.

33. REPORTS

CONSULTANT shall, without additional compensation therefor, make fiscal, program evaluation, progress, and such other reports as may be reasonably required by the District Engineer concerning CONSULTANT's activities as they affect the contract duties and purposes herein. SacSewer shall explain procedures for reporting the required information.

34. AUDITS AND RECORDS

A. Upon SacSewer's request, SacSewer or its designee shall have the right at reasonable times and intervals to audit, at CONSULTANT's premises, CONSULTANT's financial and program records as SacSewer deems necessary to determine CONSULTANT's compliance with legal and contractual requirements and the correctness of claims submitted by CONSULTANT. CONSULTANT shall maintain such records for a period of four years following termination of the Agreement, and shall make them promptly available for copying upon SacSewer's request at SacSewer's expense. SacSewer shall have the right to withhold any payment under this Agreement until CONSULTANT has provided access to CONSULTANT's financial and program records related to this Agreement.

B. CONSULTANT recognizes that SacSewer records are accessible to the public, and must be made promptly available to a requestor, and CONSULTANT agrees to provide the appropriate facilities and services in full compliance with the California Public Records Act when directed by SacSewer to do so. CONSULTANT will follow SacSewer guidance and instruction in the case of any Public Records Act requests. If the CONSULTANT terminates or sells its business, it shall promptly notify SacSewer, and provide options to SacSewer for the disposition of its records. This provision shall survive in the event of termination of this Agreement.

35. PRIOR AGREEMENTS

This Agreement constitutes the entire contract between SacSewer and CONSULTANT regarding the subject matter of this Agreement. Any prior agreements, whether oral or written, between SacSewer and CONSULTANT regarding the subject matter of this Agreement are hereby terminated effective immediately upon full execution of this Agreement.

36. SEVERABILITY

If any term or condition of this Agreement or the application thereof to any person(s) or circumstance is held invalid or unenforceable, such invalidity or unenforceability shall not affect other terms, conditions, or applications which can be given effect without the invalid term, condition, or application; to this end the terms and conditions of this Agreement are declared severable.

37. FORCE MAJEURE

Neither CONSULTANT nor SacSewer shall be liable or responsible for delays or failures in performance resulting from events beyond the reasonable control of such party and without fault or negligence of such party. Such events shall include but not be limited to acts of God, strikes, lockouts, riots, acts of war, epidemics, acts of government, fire, power failures, nuclear accidents, earthquakes, unusually severe weather, acts of terrorism, or other disasters, whether or not similar to the foregoing, and acts or omissions or failure to cooperate of the other party or third parties (except as otherwise specifically provided herein).

38. SURVIVAL OF TERMS

All services performed and deliverables provided pursuant to this Agreement are subject to all of the terms, conditions, price discounts and rates set forth herein, notwithstanding the expiration of the initial term of this Agreement or any extension thereof. Further, the terms, conditions and warranties contained in this Agreement that by their sense and context are intended to survive the completion of the performance, cancellation or termination of this Agreement shall so survive.

39. DUPLICATE COUNTERPARTS

This Agreement may be executed in duplicate counterparts. The Agreement shall be deemed executed when it has been signed by both parties.

40. AUTHORITY TO EXECUTE

Each person executing this Agreement represents and warrants that he or she is duly authorized and has legal authority to execute and deliver this Agreement for or on behalf of the parties to this Agreement. Each party represents and warrants to the other that the execution and delivery of the Agreement and the performance of such party's obligations hereunder have been duly authorized.

(SIGNATURE PAGE FOLLOWS)

SAMPLE

Contract No. [Identifier]

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed as of the day and year first written above.

SACRAMENTO AREA SEWER DISTRICT, [CONSULTANT's name, nature of business]
a county sanitation district pursuant to and operating under the authority of the County Sanitation District Act, commencing at Health and Safety Code section 4700 et.seq.

By: _____
Christoph Dobson, District Engineer

By: _____

Name: _____

Title: _____

Date: _____

Date: _____

Agreement Approved by the Board of Directors with Authority Delegated to the District Engineer to execute the Agreement on behalf of SacSewer.

Agenda Date: _____

Item Number: _____

Resolution No.: _____

THIS AGREEMENT FORMAT HAS BEEN APPROVED BY DISTRICT COUNSEL
[OR]
CONTRACT AND CONSULTANT TAX STATUS REVIEWED AND APPROVED BY
DISTRICT COUNSEL

By: _____
Click or tap here to enter text.
Click or tap here to enter text.

Date: _____

Prepared by: _____
Click or tap here to enter text., [Title]
Finance Department

**EXHIBIT A to Agreement
Between
SACRAMENTO AREA SEWER DISTRICT
And _____**

SCOPE OF SERVICES

1. SERVICE LOCATION(S)

- A. Facility Name(s): FACILITY
- B. Street Address: STREET
- C. City and Zip Code: CITY

2. REQUEST FOR PROPOSAL [AND/OR] CONSULTANT'S PROPOSAL

A. The scope of services to be provided by this Agreement consists of those services set forth in CONSULTANT's Proposal dated [Date] attached hereto as Attachment [Identifier] and incorporated herein by this reference. In the event of any conflict, inconsistency, or ambiguity between this Agreement and the Proposal, this Agreement shall govern. CONSULTANT agrees to perform all services stated in this Agreement for the compensation described herein.

[OR]

A. The scope of services to be provided by this Agreement are those services identified in SacSewer's Request for Proposal (RFP) dated [Date], and CONSULTANT's Proposal dated [Date]. Both the RFP and the Proposal are hereby incorporated into this Agreement as Attachments [Identifier] and [Identifier], respectively, and made a part of this Agreement. In the event of any inconsistencies or ambiguities, the Proposal shall govern over the RFP, and this Agreement shall govern over all. CONSULTANT agrees to perform all services stated in this Agreement for the compensation described herein.

[AND]

B. The District Engineer or designee, may negotiate with CONSULTANT and approve reasonable modifications in tasks, work products, schedules, milestones, and staff assignments so long as such modifications are within the general scope of services provided under this Agreement, do not exceed the Maximum Total Payment Amount, and are determined to be in the best interest of SacSewer.

[Optional]

C. ON-CALL OR SPECIAL SERVICES

Special Services shall be provided by CONSULTANT on an "on-call" basis: when requested by SacSewer's Project Manager, CONSULTANT shall provide project-specific proposals and shall commence the proposed services only upon written authorization of SacSewer's District Engineer. CONSULTANT agrees to perform all services stated in this Agreement for the compensation described herein.

3. **SCHEDULE**

A. CONSULTANT shall complete the services in an expeditious manner and transmit all applicable materials to SacSewer as stated in Attachment [Identifier] or as mutually adjusted with SacSewer's Project Manager.

[OR]

A. CONSULTANT shall perform the services in an expeditious manner in accordance with a mutually acceptable schedule developed between SacSewer and CONSULTANT.

4. **RESPONSIBILITIES OF SACSEWER AND CONSULTANT FOR SCOPE**

A. SacSewer, or its authorized representatives, shall review all documents submitted by CONSULTANT and render decisions pertaining thereto as promptly as is reasonable under the circumstances at the time in order to avoid unreasonable delay of the progress of CONSULTANT. SacSewer shall furnish information and services as required by this Agreement and shall render approvals and decisions as expeditiously as is reasonably necessary under the circumstances at the time for the orderly progress of the CONSULTANT's services and of the project.

B. CONSULTANT shall be solely responsible for the quality and accuracy of its work and the work of its subconsultants performed in connection with this Agreement. Any review, approval, or concurrence therewith by SacSewer shall not be deemed to constitute acceptance or waiver by SacSewer of any error or omission as to such work. CONSULTANT shall coordinate the activities of any subconsultants and is responsible to ensure that all plans, drawings, and specifications are coordinated and interface with the other applicable plans, drawings, and specifications to produce a unified, workable, and acceptable whole functional product.

5. **AUTHORITY OF CONSULTANT PERFORMING SCOPE OF WORK**

CONSULTANT is retained to provide and perform the scope of services covered by this Agreement. CONSULTANT, including CONSULTANT's assigned personnel, shall have no authority to represent SacSewer or SacSewer staff at any meetings of public or private agencies unless an appropriate SacSewer official provides prior written authorization for such representation which outlines the purpose, scope and duration of such representation. CONSULTANT shall possess no authority or right to act on behalf of SacSewer in any capacity whatsoever as agent, nor to bind SacSewer to any obligations whatsoever. SacSewer is responsible for making all policy and governmental decisions related to the work covered by this Agreement.

6. **PUBLICATION OF DOCUMENTS AND DATA**

CONSULTANT shall not publish, or disclose to any third party, documents, data, or any confidential information relative to the work of SacSewer without the prior written consent of SacSewer, however submission or distribution to meet official regulatory requirements, or for other purposes authorized by this Agreement, shall not be construed as publication in derogation of the rights of either SacSewer or CONSULTANT.

7. **PROJECT PERSONNEL**

In the performance of the services hereunder, CONSULTANT shall provide the personnel as set forth in the Proposal. Any change in such personnel or reassignment in their project responsibilities must be agreed to in writing by the District Engineer or his authorized representative before any such change may be made. Key contacts for this project shall be as follows:

SacSewer:

NAME:
PHONE:
FAX:
E-MAIL:

CONSULTANT:

NAME:
PHONE:
FAX:
E-MAIL:

SAMPLE

EXHIBIT B to Agreement
between
SACRAMENTO AREA SEWER DISTRICT
And _____

SACSEWER INSURANCE REQUIREMENTS

Without limiting CONSULTANT's indemnification, CONSULTANT shall procure and maintain for the duration of the Agreement, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the Agreement by CONSULTANT, its agents, representatives, or employees. SacSewer shall retain the right at any time to review the coverage, form, and amount of the insurance required hereby. If in the opinion of SacSewer Risk Manager, insurance provisions in these requirements do not provide adequate protection for SacSewer and for members of the public, SacSewer may require CONSULTANT to obtain insurance sufficient in coverage, form and amount to provide adequate protection. SacSewer's requirements shall be reasonable but shall be imposed to assure protection from and against the kind and extent of risks that exist at the time a change in insurance is required.

1. Verification of Coverage

CONSULTANT shall furnish SacSewer with certificates evidencing coverage required below. Copies of required endorsements must be attached to certificates provided. SacSewer Risk Manager may approve self-insurance programs in lieu of required policies of insurance if, in the opinion of the Risk Manager, the interests of SacSewer and general public are adequately protected. All certificates, evidences of self-insurance, and additional insured endorsements are to be received and approved by SacSewer before performance commences. SacSewer reserves the right to require that CONSULTANT provide complete copies of any policy of insurance including endorsements offered in compliance with these specifications.

2. Minimum Scope of Insurance

Coverage shall be at least as broad as:

A. GENERAL LIABILITY: Insurance Services Office's Commercial General Liability occurrence coverage form CG 0001. Including, but not limited to Premises/Operations, Products/Completed Operations, Contractual, and Personal & Advertising Injury, without additional exclusions or limitations, unless approved by SacSewer Risk Manager.

B. AUTOMOBILE LIABILITY: Insurance Services Office's Commercial Automobile Liability coverage form CA 0001. Commercial Automobile Liability: auto coverage symbol "1" (any auto) for corporate/business owned vehicles. If there are no owned or leased vehicles, symbols 8 and 9 for non-owned and hired autos shall apply. Personal Lines automobile insurance shall apply if vehicles are individually owned.

C. WORKERS' COMPENSATION: Statutory requirements of the State of California and Employer's Liability Insurance.

D. PROFESSIONAL LIABILITY or Errors and Omissions Liability insurance appropriate to CONSULTANT'S profession.

E. CYBER LIABILITY, INCLUDING IDENTITY THEFT, INFORMATION AND NETWORK SECURITY and PRIVACY INJURY:

Coverage shall include but is not limited to:

- (1) Third party injury or damage (including loss or corruption of data) arising from a negligent act, error or omission or a data breach.
- (2) Defense, indemnity and legal costs associated with regulatory breach (including HIPAA), negligence or breach of contract.
- (3) Administrative expenses for forensic expenses and legal services.
- (4) Crisis management expenses for printing, advertising, mailing of materials and travel costs of crisis management firm, including notification expenses.
- (5) Identity event service expenses for identity theft education, assistance, credit file monitoring to mitigate effects of personal identity event, post event services.

F. UMBRELLA or Excess Liability policies are acceptable where the need for higher liability limits is noted in the Minimum Limits of Insurance and shall provide liability coverages that at least follow form over the underlying insurance requirements where necessary for Commercial General Liability, Commercial Automobile Liability, Employers' Liability, and any other liability coverage (other than Professional Liability) designated under the Minimum Scope of Insurance.

3. **Minimum Limits of Insurance**

CONSULTANT shall maintain limits no less than:

A. General Liability shall be on an Occurrence basis (as opposed to Claims Made basis). Minimum limits and structure shall be:

- | | |
|---------------------------------|-------------|
| (1) General Aggregate: | \$2,000,000 |
| (2) Products Comp/Op Aggregate: | \$2,000,000 |
| (3) Personal & Adv. Injury: | \$2,000,000 |
| (4) Each Occurrence: | \$2,000,000 |

B. Automobile Liability:

- (1) Commercial Automobile Liability for Corporate/business owned vehicles including non-owned and hired, \$1,000,000 Combined Single Limit.
- (2) Personal Lines Automobile Liability for Individually owned vehicles, \$250,000 per person, \$500,000 each accident, \$100,000 property damage.

C. Workers' Compensation: Statutory.

- D. Employer's Liability: \$1,000,000 per accident for bodily injury or disease.
- E. Professional Liability : \$2,000,000 per claim and aggregate.
- F. Cyber Liability including errors and omissions, Identity Theft, Information Security and Privacy Injury Liability: \$1,000,000 per claim or incident and \$1,000,000 aggregate.

4. **Deductibles and Self-Insured Retention**

Any deductible or self-insured retention that apply to any insurance required by this Agreement must be declared and accepted by SacSewer.

5. **Claims Made Professional Liability Insurance**

If professional liability coverage is written on a Claims Made form:

- A. The "Retro Date" must be shown, and must be on or before the date of the Agreement or the beginning of Agreement performance by CONSULTANT.
- B. Insurance must be maintained and evidence of insurance must be provided for at least one (1) year after completion of the Agreement.
- C. If coverage is cancelled or non-renewed, and not replaced with another claims made policy form with a "Retro Date" prior to the contract effective date, CONSULTANT must purchase "extended reporting" coverage for a minimum of one (1) year after completion of the Agreement.

6. **Other Insurance Provisions**

The insurance policies required in this Agreement are to contain, or be endorsed to contain, as applicable, the following provisions:

7. **All Policies:**

- A. ACCEPTABILITY OF INSURERS: Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A-: VII. SACRAMENTO AREA SEWER DISTRICT Risk Manager may waive or alter this requirement, or accept self-insurance in lieu of any required policy of insurance if, in the opinion of the Risk Manager, the interests of SACRAMENTO AREA SEWER DISTRICT and the general public are adequately protected.
- B. MAINTENANCE OF INSURANCE COVERAGE: The CONSULTANT shall maintain all insurance coverages and limits in place at all times and provide SACRAMENTO AREA SEWER DISTRICT with evidence of each policy's renewal within ten (10) days after its anniversary date. CONSULTANT is required by this Agreement to immediately notify SACRAMENTO AREA SEWER DISTRICT if they receive a communication from their insurance carrier or agent that any required insurance is to be canceled, non-renewed, reduced in scope or limits (except for reduction due to claims), or otherwise materially changed. CONSULTANT shall provide evidence that such cancelled or non-renewed or otherwise materially changed insurance has been replaced or its cancellation notice withdrawn without any interruption in coverage, scope, or limits. Failure to maintain required insurance in force shall be considered a material breach of the Agreement.

8. **Commercial General Liability and/or Commercial Automobile Liability:**
- A. **ADDITIONAL INSURED STATUS:** SACRAMENTO AREA SEWER DISTRICT, and the County of Sacramento and their governing Boards, officers, directors, officials, employees, and authorized volunteers and agents (each an “Additional Insured Party,” and collectively “Additional Insured Parties”), are to be included as additional insureds as respects: liability arising out of activities performed by or on behalf of CONSULTANT in the performance of work; products and completed operations of CONSULTANT; premises owned, occupied or used by CONSULTANT in the performance of the work; or automobiles owned, leased, hired or borrowed by CONSULTANT. The coverage shall contain no endorsed limitations on the scope of protection afforded to the Additional Insured Parties.
- B. **PRIMARY INSURANCE:** For any claims related to this agreement, CONSULTANT’s insurance coverage shall be primary insurance as respects any insurance or self-insurance maintained by the Additional Insured Parties. Any insurance or self-insurance maintained by the Additional Insured Parties shall be excess of CONSULTANT’s insurance and shall not contribute with it.
- C. **SEVERABILITY OF INTEREST:** CONSULTANT’s insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer’s liability.
- D. **SUBCONTRACTORS:** CONSULTANT shall be responsible for the acts and omissions of all its subcontractors and additional insured endorsements as provided by CONSULTANT’s subcontractor.
9. **Professional Liability:**
- PROFESSIONAL LIABILITY PROVISION:** Any professional liability or errors and omissions policy required hereunder shall apply to any claims, losses, liabilities, or damages, demands, and actions arising out of or resulting from professional services provided under this Agreement.
10. **Workers’ Compensation:**
- WORKERS’ COMPENSATION WAIVER OF SUBROGATION:** The workers’ compensation policy required hereunder shall be endorsed (via a specific endorsement or as required by written contract) to state that the workers’ compensation carrier waives its right of subrogation against the SACRAMENTO AREA SEWER DISTRICT, and the County of Sacramento and their governing Boards, officers, directors, officials, employees, and authorized volunteers and agents, which might arise by reason of payment under such policy in connection with performance under this Agreement by CONSULTANT. Should CONSULTANT be self-insured for workers’ compensation, CONSULTANT hereby agrees to waive its right of subrogation against SACRAMENTO AREA SEWER DISTRICT, and the County of Sacramento and their governing Boards, officers, directors, officials, employees, and authorized volunteers and agents
11. **Subconsultant Insurance**
- CONSULTANT shall require all subconsultants performing work under this Agreement to maintain insurance coverage that meets or exceeds the requirements of this Agreement and

shall obtain certificates and endorsements evidencing such coverage prior to commencement of subconsultant services. Evidence shall be provided to SacSewer upon request.

12. Subcontractor Additional Insured Requirements

Each subconsultant's Commercial General Liability and Automobile Liability policies shall name the Sacramento Area Sewer District, the County of Sacramento, and their respective governing boards, officers, directors, officials, employees, and authorized volunteers as additional insureds, using endorsements at least as broad as ISO forms CG 20 10 11/85 and CA 20 48 02/99 (or their equivalent). Such coverage shall be primary and non-contributory with any insurance maintained by SacSewer.

Professional Liability (Errors and Omissions) insurance shall apply solely to the subconsultant as the named insured and shall not include SacSewer or its representatives as additional insureds.

The CONSULTANT is responsible for verifying that subconsultant coverage and endorsements comply with these requirements before any subconsultant begins work.

13. Notification of Claim

If any claim for damages is filed with CONSULTANT or if any lawsuit is instituted against CONSULTANT, that arise out of or are in any way connected with CONSULTANT's performance under this Agreement and that in any way, directly or indirectly, contingently or otherwise, affect or might reasonably affect SACRAMENTO AREA SEWER DISTRICT, or any Additional Insured Party, CONSULTANT shall give prompt and timely notice thereof to SACRAMENTO AREA SEWER DISTRICT. Notice shall be prompt and timely if given within thirty (30) days following the date of receipt of a claim or ten (10) days following the date of service of process of a lawsuit.

**EXHIBIT C to Agreement
between
SACRAMENTO AREA SEWER DISTRICT
And _____**

COMPENSATION

1. MAXIMUM PAYMENT TO CONSULTANT

The Maximum Total Payment Amount under this Agreement is: \$ _____.

2. COMPENSATION COMPONENTS

A. Time and Expenses: Compensation for services rendered shall be paid on a time and expenses basis at the usual and customary rates for the services actually rendered, as stated in CONSULTANT's Proposal, attached hereto as Attachment [Identifier] and by this reference incorporated herein, and shall not exceed \$ _____. The rates stated in Attachment [Identifier] shall apply for all services provided throughout the term of this Agreement. Total compensation, including fees, expenses, and profit for services rendered by CONSULTANT shall not exceed the Maximum Total Payment Amount under this Agreement listed above.

B. Special or Optional Services: Compensation in the amount of \$ _____ for services identified in Exhibit [Identifier] as special or optional services may only be released upon written authorization by the District Engineer, or duly authorized designee.

C. Contingency: An additional contingency in the amount of \$ _____ is hereby established for possible additional services that may be identified during performance of the work covered by this Agreement and which are within the general work parameters of this Agreement. Such contingency may only be released upon written authorization by the District Engineer.

D. Rate Increases: SacSewer's Project Manager and CONSULTANT may negotiate an adjustment to rates effective January 1st of each year throughout the term of this Agreement, effective January 1, 20[XX], provided that annual adjustments shall not exceed a three percent (3%) increase over the prior year's rates. CONSULTANT shall submit new negotiated rates to SacSewer's Project Manager not less than 30 days prior to said effective date.

Rate increases may only be initiated upon written authorization by the SacSewer's Project Manager. Total compensation, including fees, expenses, and profit for services rendered by CONSULTANT shall not exceed the Maximum Total Payment Amount under this Agreement listed above.

For employees subject to State Prevailing Wages, annual escalations, if any, shall be effective the date(s) stipulated by the Director of Industrial Relations (DIR).

E. Consultant Expenses:

(1) Non-Reimbursable Expenses Are As Follows: Non-reimbursable expenses include alcoholic beverages, expenses associated with a non-employee who accompanies the employee on official business, personal expenses, and traffic fines or parking tickets.

(2) Invoices: CONSULTANT must submit itemized invoices that detail labor hours and expenses. In order to be reimbursed for travel related expenses, CONSULTANT must submit itemized invoices for airfare, hotel stays, cab or shuttle fees, restaurant fees, and related expenses. CONSULTANT must separate out line items for non-taxable expenses.

(3) Lodging, Meals, and Travel: Lodging, meals, and travel during this contract period shall be reimbursed as follows:

- a. Per diem for lodging (equal to the federal standard CONUS per diem rate for Sacramento County at the time of contract negotiation) will be reimbursed for each work night, up to five nights per week.
- b. Per diem for meals and incidentals (equal to the federal standard CONUS per diem rate for Sacramento County at the time of contract negotiation) will be reimbursed for each work day, up to five days per week.
- c. Airfare and local and home transportation costs will be reimbursed at cost with no markup.
- d. Mileage will be reimbursed at the current IRS rate which can be accessed by clicking the following link: <https://www.irs.gov/tax-professionals/standard-mileage-rates>

F. Maximum Allowable Markups: Maximum allowable markups will be five percent (5%) on subconsultants and other direct costs (ODCs).

3. CONSULTANT COMPLIANCE WITH REQUIREMENTS OF CONTRACT FUNDING RESOURCES

State Of California Grant Funding - Clean Water State Revolving Fund (SRF) Regulations/Proposition 1

As compensation for services rendered under this Agreement is funded by State grant monies in conjunction with the SRF/Proposition 1, concerning invoices issued under contract, Consultant is required to segregate expenses into categories including eligible, and those identified as ineligible, pursuant to the State Water Resources Control Board SRF Policy. For information on what constitutes an ineligible expense please visit the following [web link for details:](http://www.waterboards.ca.gov/water_issues/programs/grants_loans/srf/docs/fy1213/final_policy_0513.pdf)

Expenses incurred for lodging, meals, and travel shall be reimbursed as follows:

Per Diem for lodging (up to the California State HR Per Diem rate) will be reimbursed for each work night, up to five (5) nights per week.

Per Diem for meals and incidentals (up to the California State HR Per Diem rate) will be reimbursed for each work day, up to five (5) days per week.

For information on California State HR Per Diem rates please visit the following web link for details: <http://www.calhr.ca.gov/employees/pages/travel-reimbursements.aspx>

4. ITEMIZED TASKS AND SUBTASKS

If CONSULTANT's Proposal contains a schedule of tasks or subtasks with identified levels of effort such as estimated hours and/or estimated costs, or identifiable work products, milestones, or other events, then compensation for these individual tasks or activities shall not exceed the identified estimate or other limiting factors without the written approval of SacSewer's Project Manager. CONSULTANT shall promptly notify SacSewer's Project Manager in writing of any tasks, subtasks, work products, or milestones that need to be reevaluated and indicate the reason and/or justification for such reevaluation. SacSewer's Project Manager is authorized to negotiate adjustments of individual tasks so long as the work is within the general scope of the project and the total compensation does not exceed the Maximum Total Payment Amount under this Agreement listed above.

5. WORK NOT IN SCOPE OF SERVICES

CONSULTANT shall immediately notify SacSewer's Project Manager in writing of any work that SacSewer requests to be performed that CONSULTANT believes is outside of the original scope of work covered by this Agreement. If it is determined that said request is outside of the scope of work, such work shall not be performed unless and until the District Engineer approves such request in writing and authorizes the use of any contingency funds for such work, or an amendment providing for an adjustment in CONSULTANT's compensation is approved and executed by both parties.

6. NOTIFICATION OF 75% EXPENDITURE OF COMPENSATION

CONSULTANT shall notify SacSewer's Project Manager in writing upon expenditure of seventy-five percent (75%) of the authorized Agreement amount. Such notice shall identify the percentage of funds expended, the percentage of work completed, an explanation of any variation between these two (2) percentages, and an assessment of the cost of the remaining work to be performed.

7. SUBMISSION OF INVOICES

CONSULTANT shall address and submit all invoices associated with this Agreement by U.S. mail or personal delivery to the following address:

Sacramento Area Sewer District
10060 Goethe Road
Sacramento, CA 95827
ATTN: CONTRACTS ACCOUNTS PAYABLE

CONSULTANT shall include the following information on all invoices:

- (1) Contract Number: Click or tap here to enter text.
- (2) Project Name: Click or tap here to enter text.
- (3) Date of Invoice Submission
- (4) Time Period Invoice Covers
- (5) Services Provided and Respective Compensation Requested
- (6) Any other information deemed necessary by CONSULTANT and/or SacSewer

SacSewer may change the address to which subsequent invoices shall be sent by giving written notice designating a change of address to CONSULTANT, which shall be effective upon receipt.

8. PAYMENTS

In accordance with the Compensation and Payment of Invoices Limitations provision of this Agreement, SacSewer shall address and submit payments to CONSULTANT at [address in the Notice provision of this Agreement or the following address]

CONSULTANT's Name
Address

CONSULTANT may change the address to which subsequent payments shall be sent by giving written notice designating a change of address to SacSewer, which shall be effective upon receipt.

RFP No. 9158

ATTACHMENT C

Iran Contracting Act Disclosure Form

Attachment C

IRAN CONTRACTING ACT DISCLOSURE FORM

(California Public Contract Code, sections 2202-2208)

When responding to a bid or proposal or executing a contract or renewal for a County of Sacramento contract for goods or services of \$1,000,000 or more, a vendor must either: a) certify it is not on the current list of persons engaged in investment activities in Iran created by the California Department of General Services (“DGS”) pursuant to Public Contract Code section 2203(b) and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code section 2203(c) or (d).

To comply with this requirement, please provide your vendor or financial institution name and complete one of the options below. Please note: California law establishes penalties for providing false certifications, including civil penalties equal to the greater of \$250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts. (Public Contract Code section 2205.)

OPTION #1 - CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below is not on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person/vendor, for 45 days or more, if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

<i>Vendor Name/Financial Institution (Printed)</i>	
<i>By (Authorized Signature)</i>	
<i>Printed Name and Title of Person Signing</i>	
<i>Date Executed</i>	<i>Executed in</i>

OPTION #2 – EXEMPTION

Pursuant to Public Contract Code sections 2203(c) and (d), a public entity may permit a vendor/financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or enters into or renews, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

<i>Vendor Name/Financial Institution (Printed)</i>	
<i>By (Authorized Signature)</i>	
<i>Printed Name and Title of Person Signing</i>	
<i>Date Executed</i>	<i>Executed in</i>

RFP No. 9158

ATTACHMENT D

**Compliance with Economic Sanctions in
Response to Russia's Action in Ukraine**

Attachment D

COMPLIANCE WITH ECONOMIC SANCTIONS IN RESPONSE TO RUSSIA'S ACTIONS IN UKRAINE

Per Executive Order N-6-22, all contractors and grantees that have agreements valued at \$5 million or more with agencies/departments subject to the California Governor's authority are directed to report to their contracting or grantor agency or department regarding their compliance with economic sanctions imposed by the U.S. government in response to Russia's actions in Ukraine, as well as sanctions imposed under state law, if any.

Please insert the contractor/grantee name and Federal ID Number (if available) and complete the notice and attach a report as described below.

NOTICE

Having conducted a good faith review, I attest that the contractor/grantee is in compliance with the economic sanctions imposed by the U.S. government in response to Russia's actions in Ukraine, as well as sanctions imposed under state law, if any.

<i>Contractor/Grantee Name (Printed)</i>		<i>Federal ID Number (or n/a)</i>
<i>By (Authorized Signature)</i>		
<i>Printed Name and Title of Person Signing</i>		
<i>Date</i>		

Attach a report to this notice form and return it as described in Section 13 of the RFP, describing the steps, if any, you have taken in response to Russia's actions in Ukraine.

Note that responses may be subject to disclosure under the California Public Records Act. Accordingly, it is within the discretion of the respondent to determine what information to provide. Additionally, please do not include any confidential information or disclosures that could pose security risks.

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ATTACHMENT E

Control Subsystems Drawings

TO PCCS

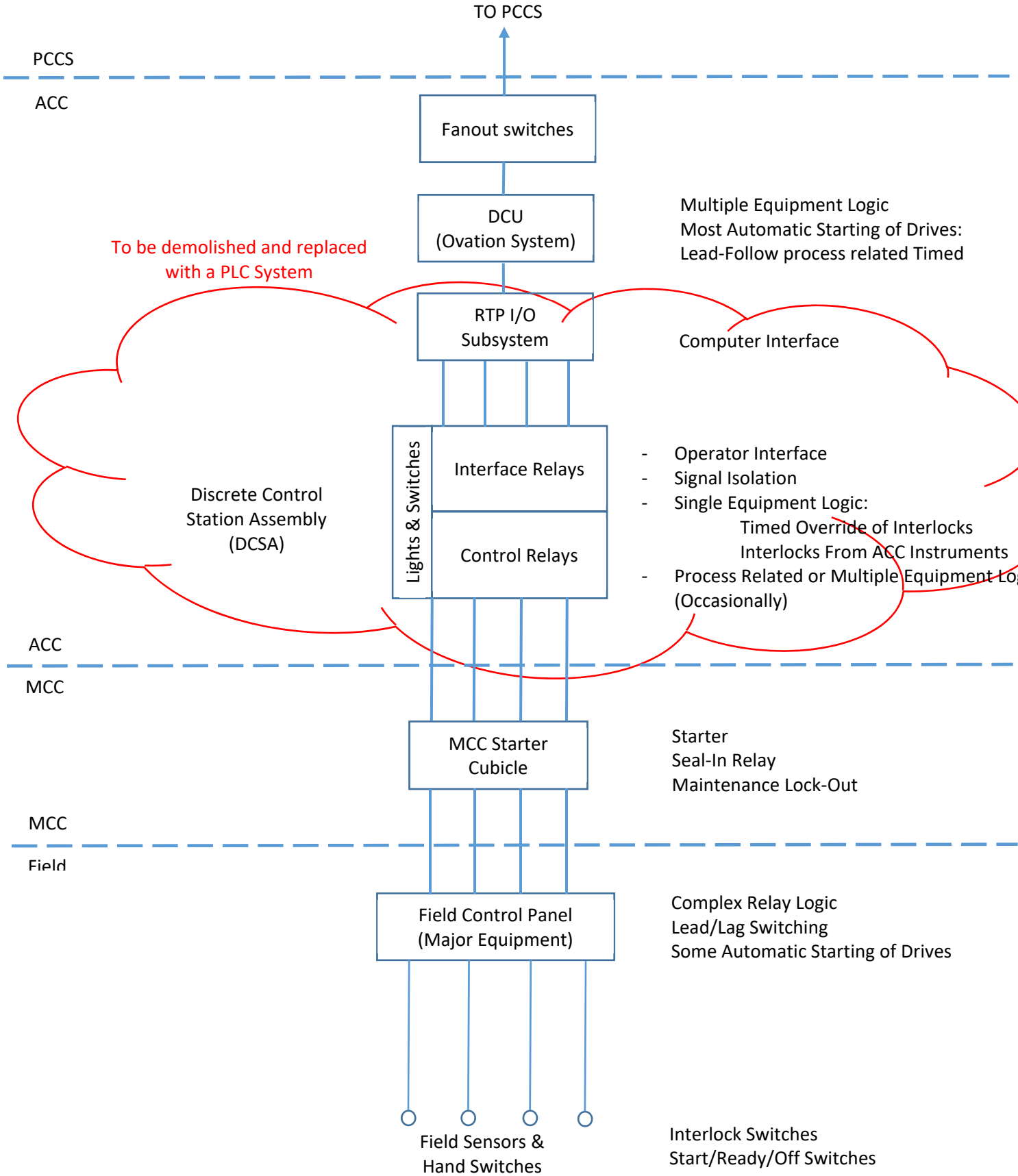


FIGURE 1
EXISTING ACC DISCRETE CONTROL SUBSYSTEM

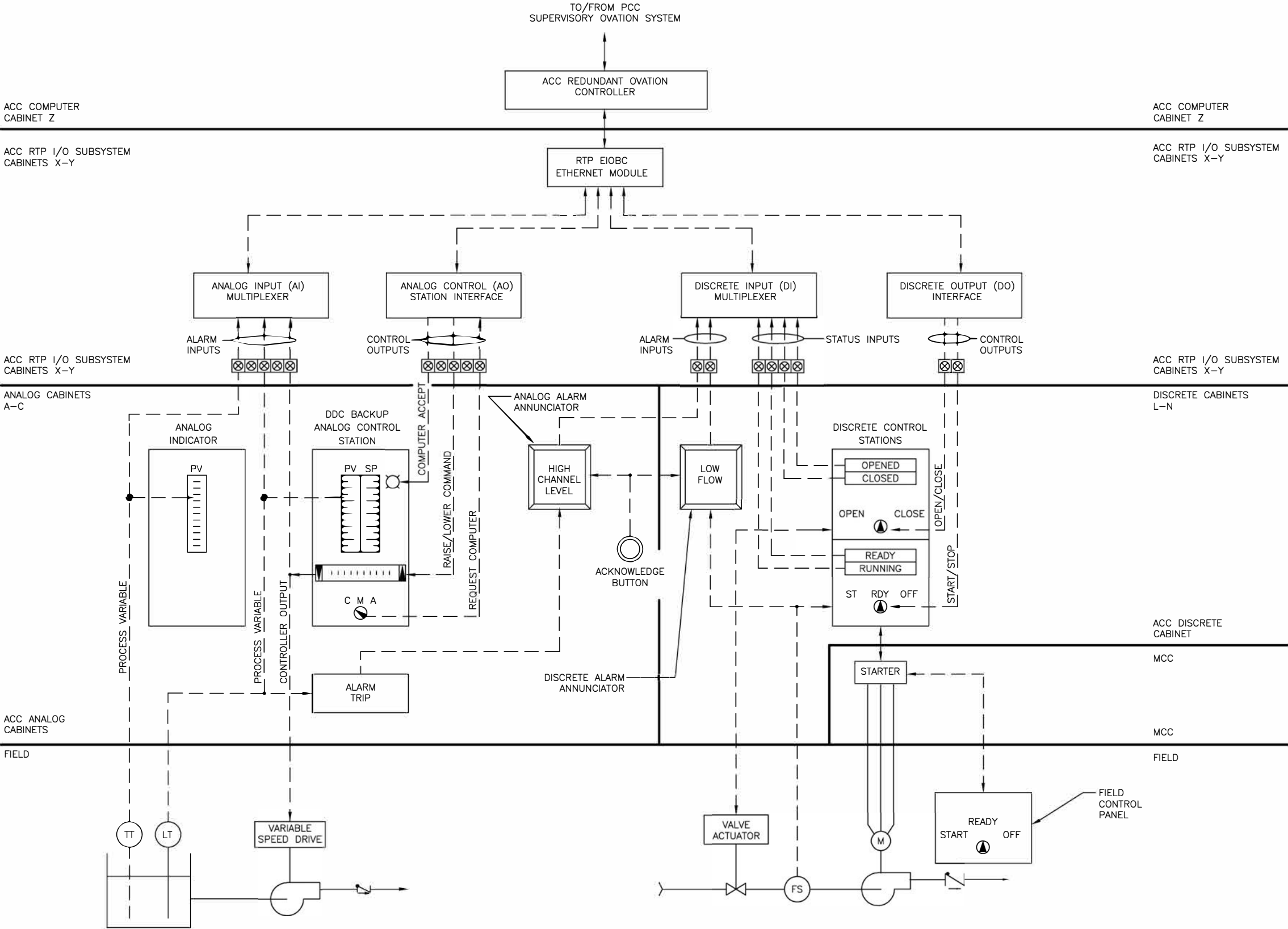


FIGURE 2

EXISTING ACC DISCRETE AND ANALOG CONTROL SUBSYSTEM

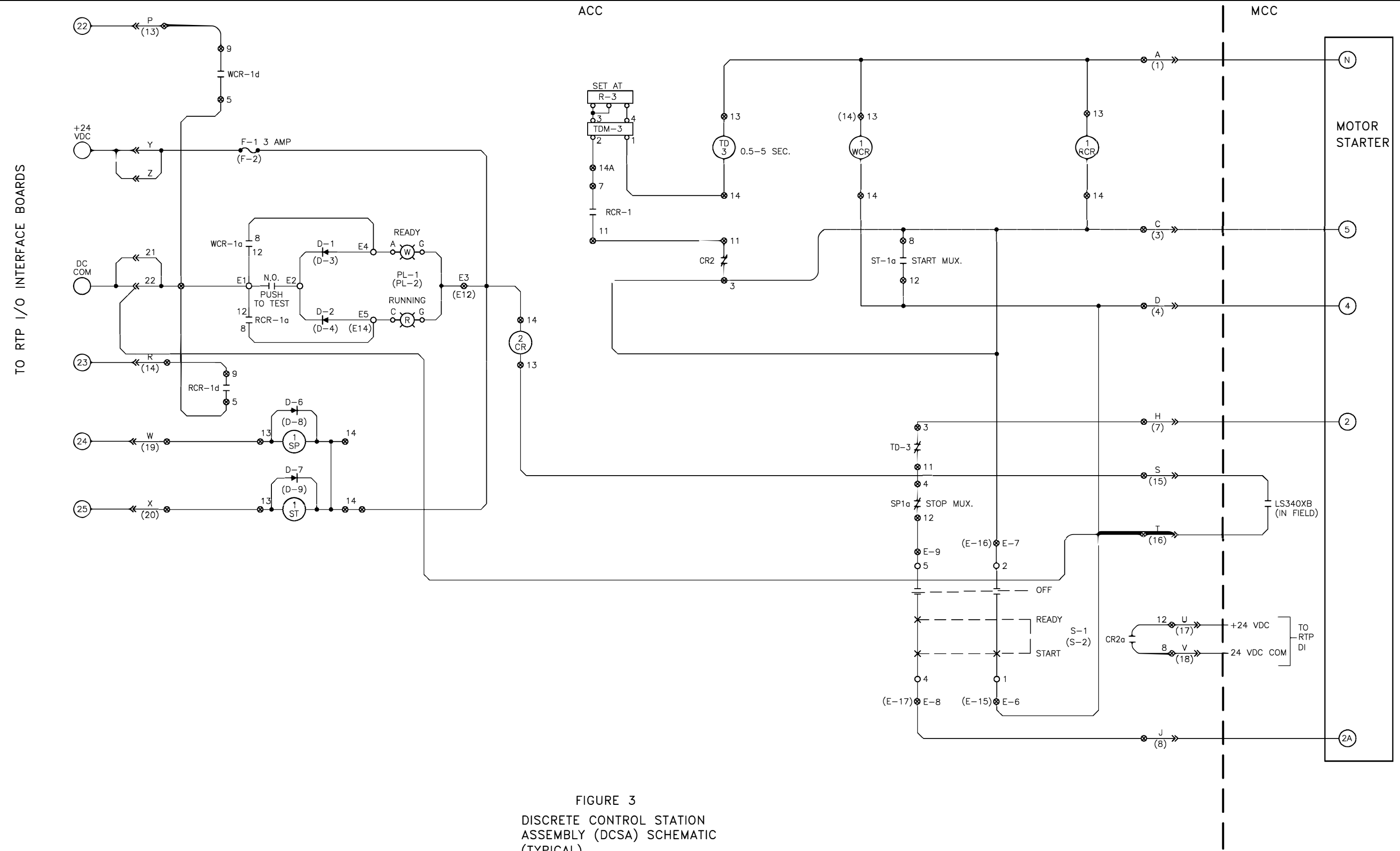
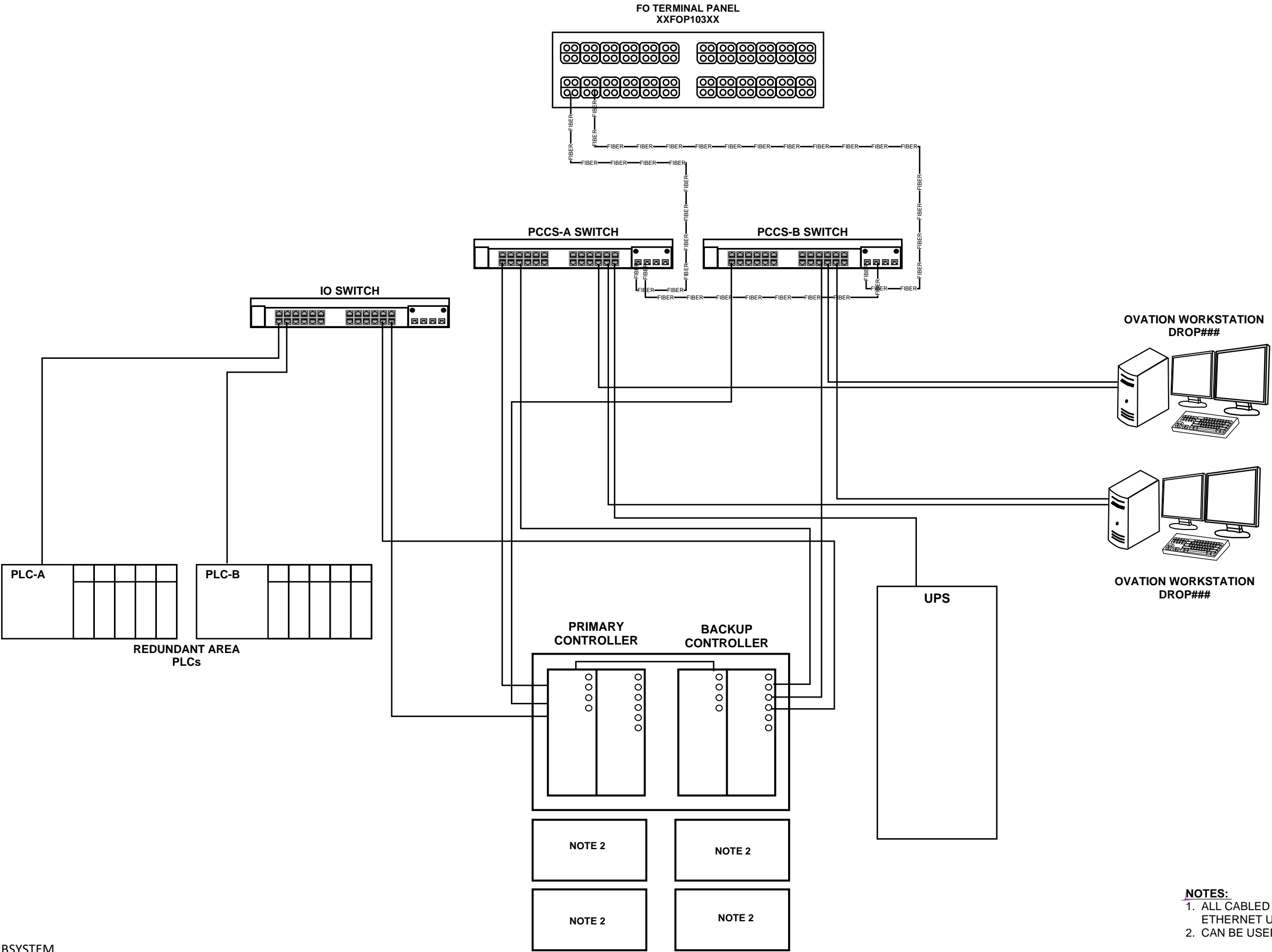


FIGURE 3
DISCRETE CONTROL STATION
ASSEMBLY (DCSA) SCHEMATIC
(TYPICAL)



- NOTES:**
1. ALL CABLED ARE CAT5E/CAT6 UTP WIRED FOR IEE 802.3 ETHERNET UNLESS LABELED OTHERWISE.
 2. CAN BE USED FOR ELCs OR IO MODULES.

FIGURE 4

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ATTACHMENT F

ACC-1 Photographs



PHOTO 1
ACC-1 FRONT



PHOTO 2
ACC-1 REAR

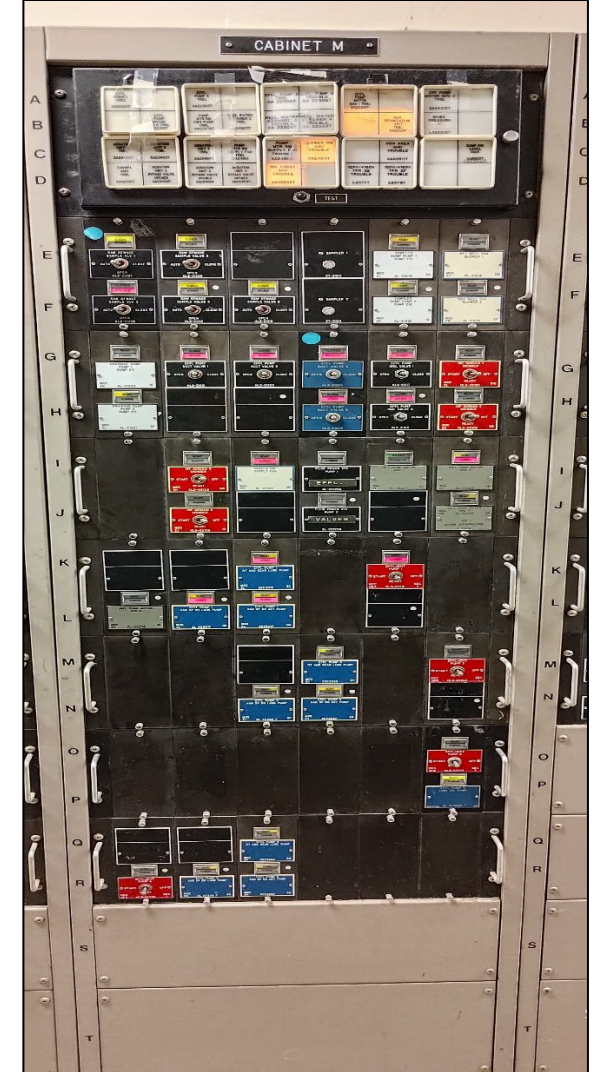


PHOTO 3
ALARM PANEL AND DCSA



PHOTO 4
ALARM PANELS AND
ANALOG CONTROLLERS

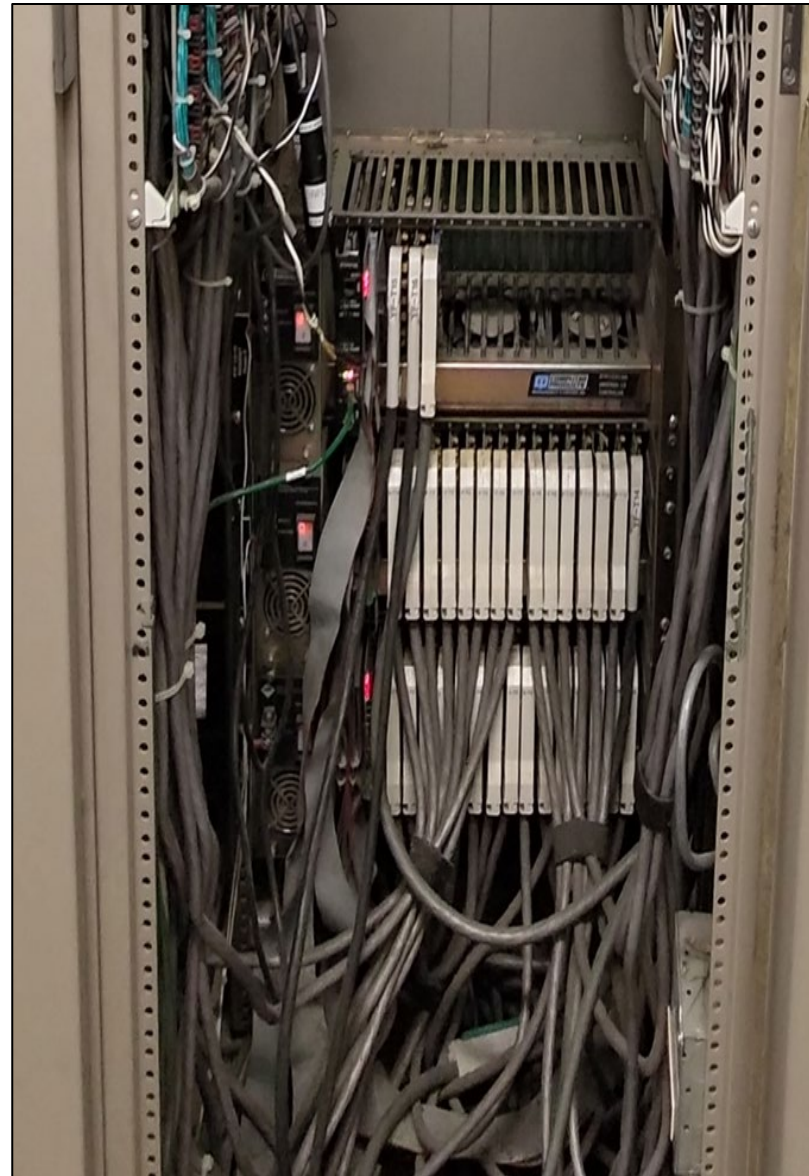


PHOTO 5
RTP I/O RACK/SYSTEM

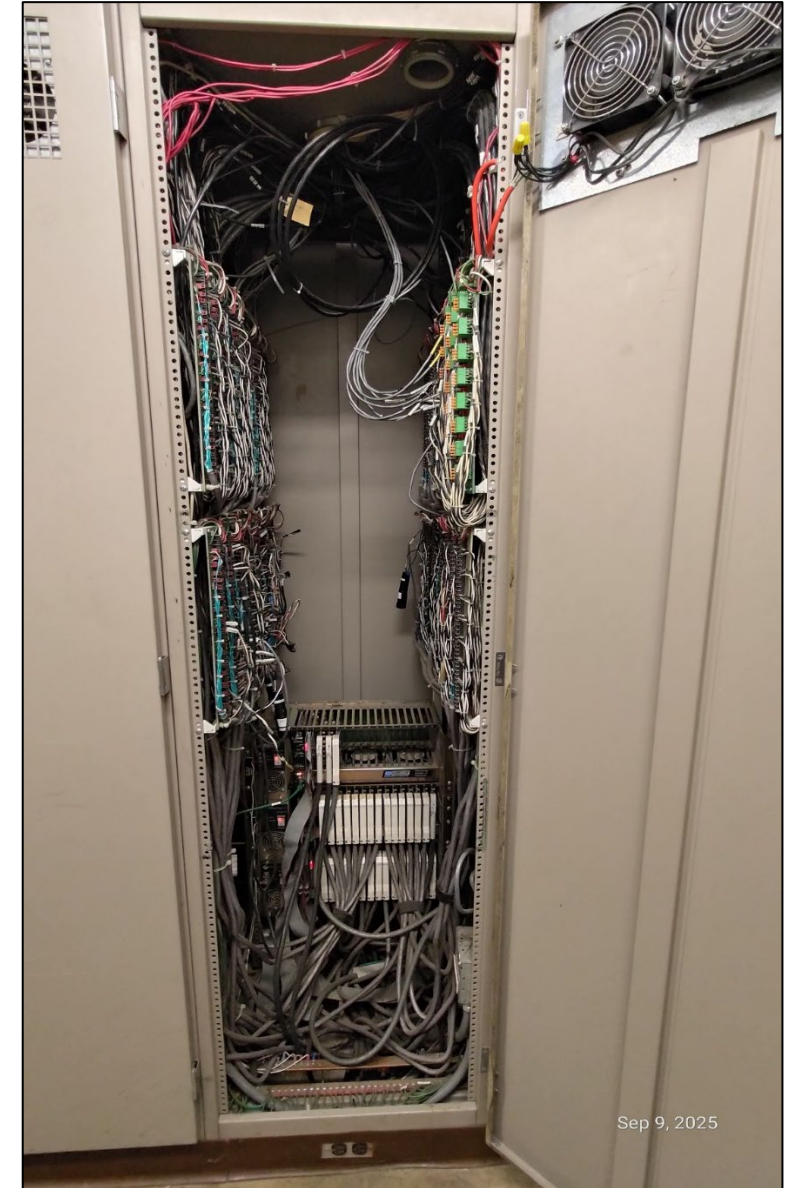


PHOTO 6
RTP I/O INTERFACE BOARDS

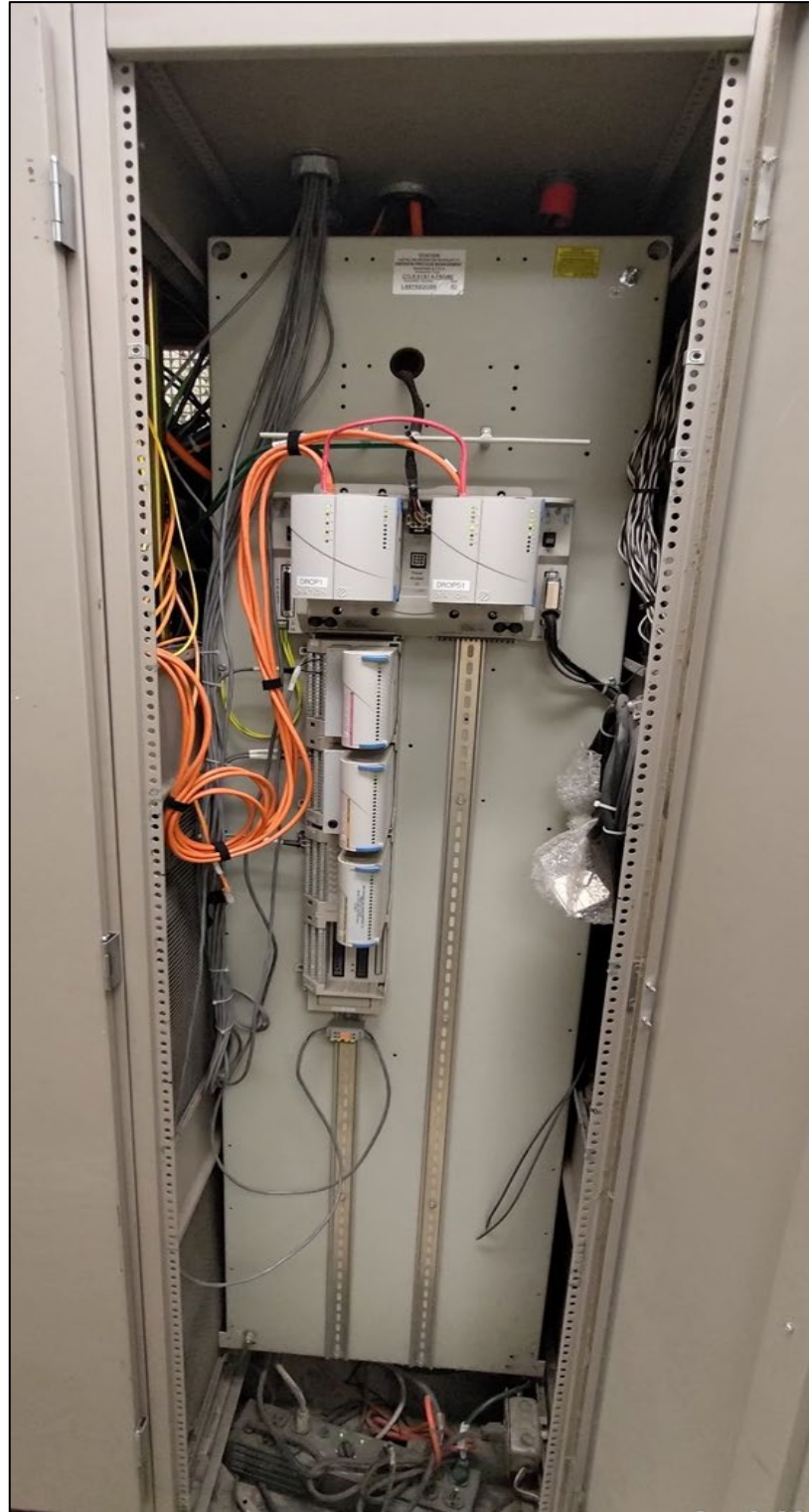


PHOTO 7
OVIATION REDUNDANT
DISTRIBUTED CONTROL
UNITS (DCU)

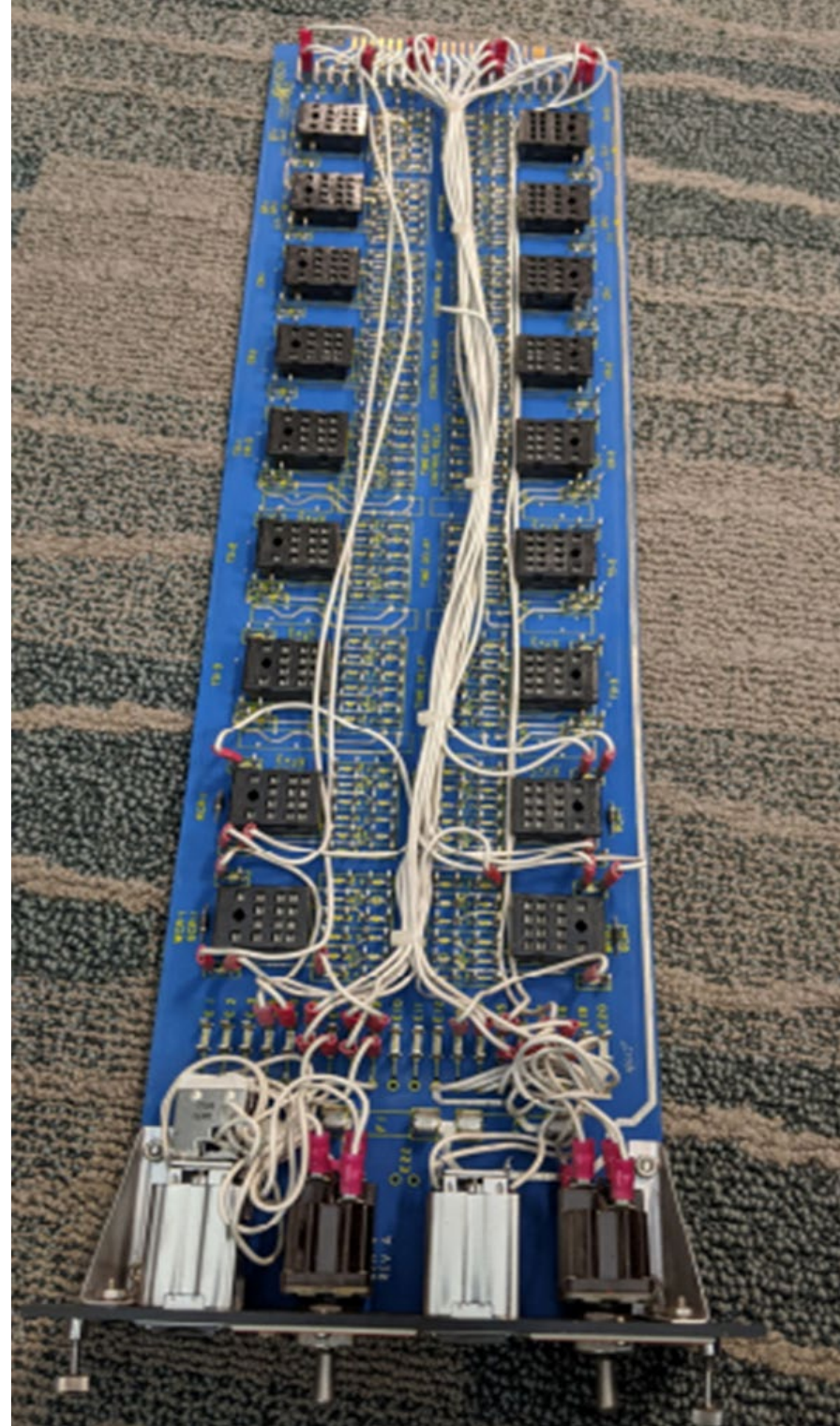
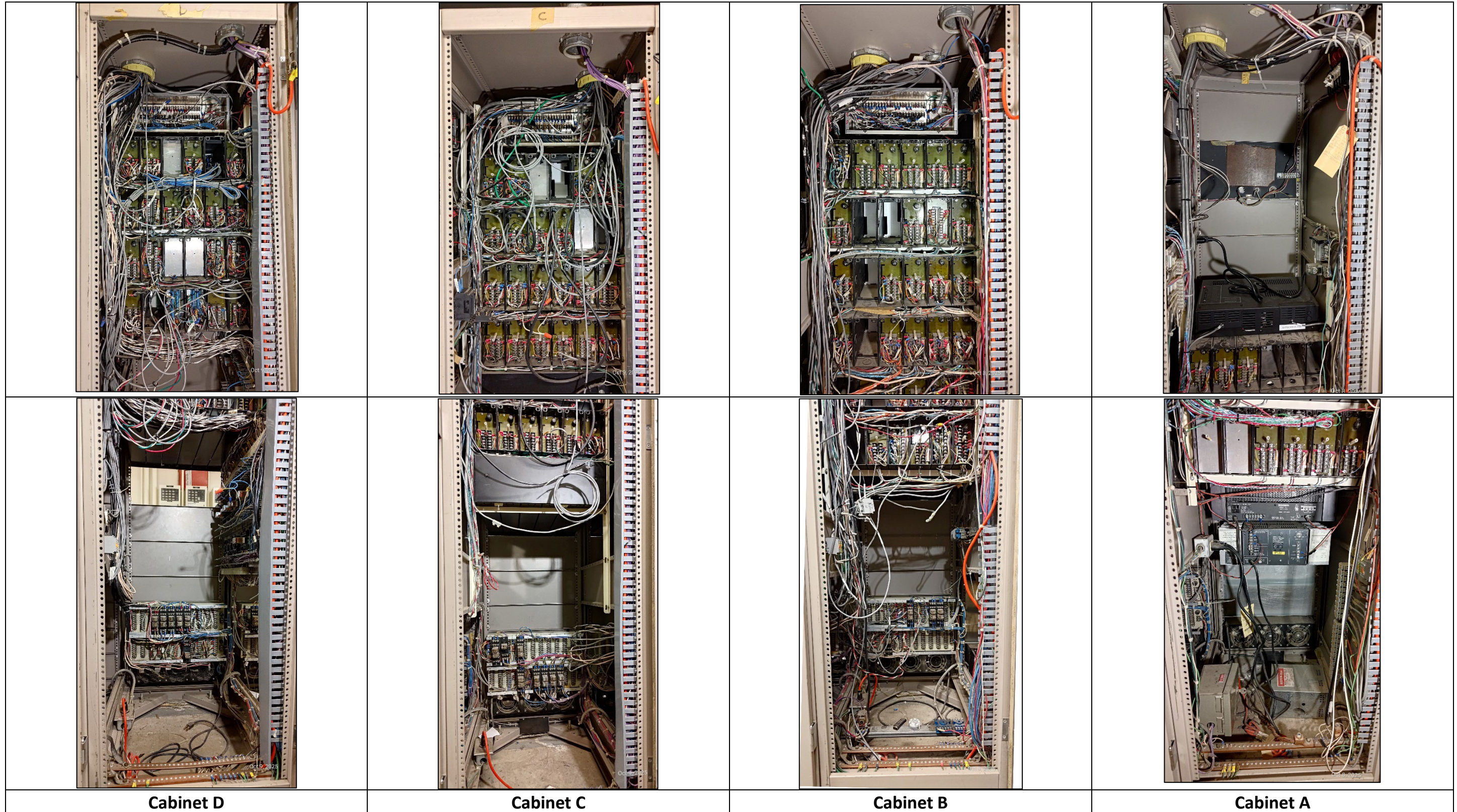
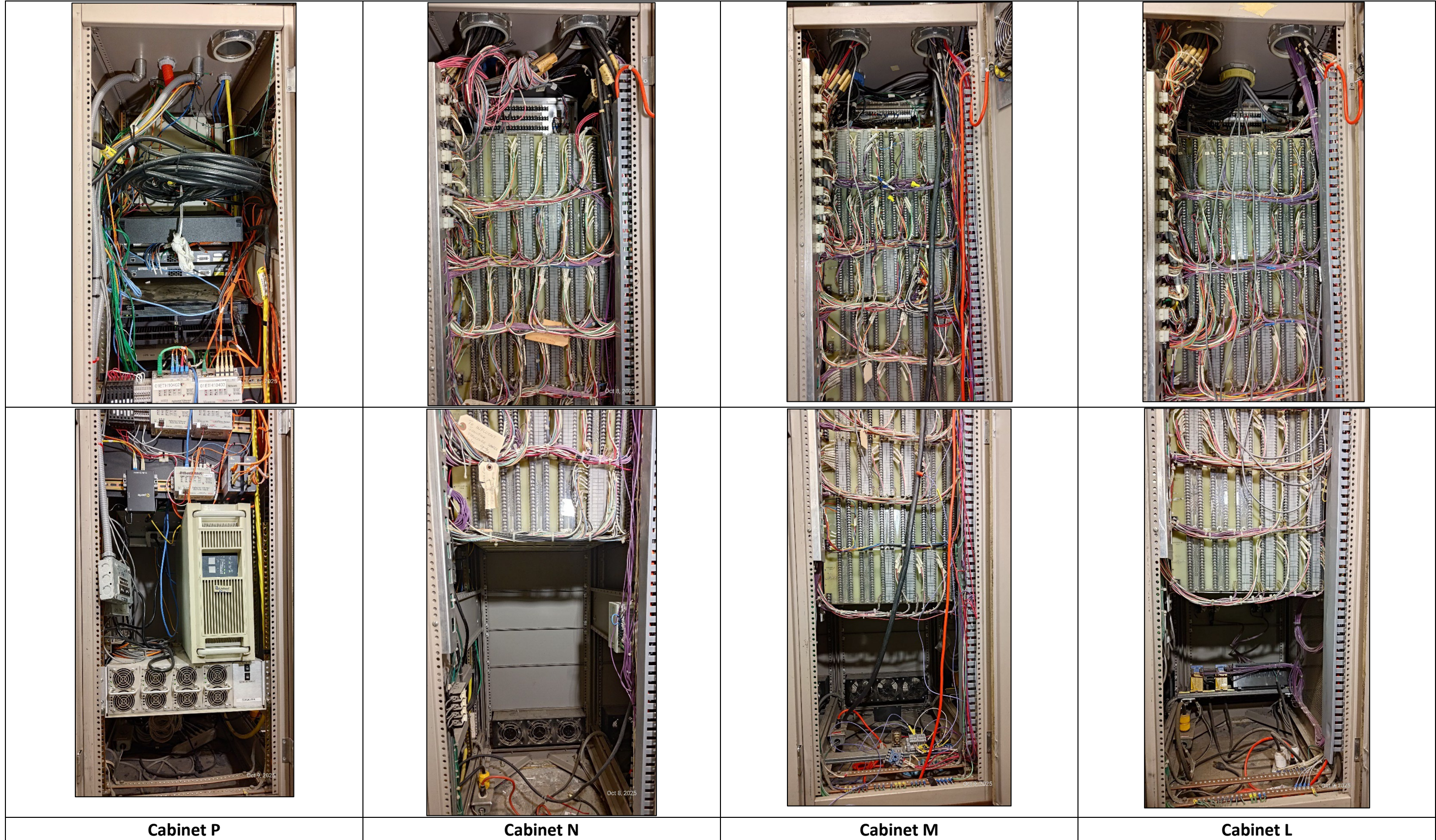


PHOTO 8
DISCRETE CONTROL
STATION ASSEMBLY (DCSA)



PHOTO 9
PLC240000





Cabinet P

Cabinet N

Cabinet M

Cabinet L



Cabinet Z

Cabinet Y

Cabinet X

Cabinet W

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ATTACHMENT G
ACC-1 I/O List

No.	Object: Digital Points	Description
1	A2612M	SCREEN ROOM MANUAL ALARM
2	A2612T	SCREEN RM. HC TRBL.
3	A2612U	SCREEN RM COMB GAS HI-10 PCT
4	A2612V	BR SCREEN RM WARNING BEACON ON
5	E2060T	BUS 2A FDR DE-ENERGIZED
6	E2062T	BUS 2B FDR DE-ENERGIZED
7	E2075T	ACC1 INSTR PWR SUPPLY 1 VOLTAG
8	E2075U	ACC1 INSTR PWR SUPPLY 2 VOLTAG
9	E2077T	XFMR 2E TROUBLE
10	E2078T	XFMR 2F TROUBLE
11	F2325T	INF SAMPLE FLOW LO 1-5 FT/SEC
12	G23440A	I/E BLDG BOILER RM FIRE ALARM
13	G23440B	BOILER CONTROL ROOM FIRE ALARM
14	G23440C	I/E BLDG ADDITION FIRE ALARM
15	G23440D	BOILER STORAGE/TOOL RM FIRE
16	G23440E	I/E BLDG PERSNL ADDITION FIRE
17	G23440F	I/E BLDG AHU22733 FIRE ALARM
18	G23440G	I/E BLDG TAMPR SWTCH SUPV TRBL
19	G23440H	I/E BLDG FLOW SWITCH ALARM
20	G23440J	I/E BLDG AHU23415 FIRE ALARM
21	G23440K	I/E BLDG PERSNL ADDITION FIRE
22	G2630	TROUBLE FIRE ALARM PANEL ACC 1
23	G2630A	FIRE IE SO ACC1
24	G2630AA	FIRE ADMIN MAINT STOR BLDG
25	G2630B	FIRE IE SO ACC1
26	G2630C	FIRE IE SO INF PUMP 4 AHU22230
27	G2630CC	FIRE IE SOUTH AHU23602
28	G2630D	FIRE IE SO INF PUMP 6 AHU22232
29	G2630E	FIRE SO IE EFF PUMP 1 AHU22310
30	G2630EE	HALON DUMP IE SO PCC ACCESS RM
31	G2630F	FIRE IE SO EFF PUMP 3 AHU22312
32	G2630G	FIRE IE SO ELEVATOR
33	G2630GG	HALON DUMP IE SOUTH ACC1
34	G2630H	FIRE IE SO EFF PUMP 6 AHU22315
35	G2630J	FIRE IE SO BOILER RM AHU22702
36	G2630K	FIRE SO IE FN24602
37	G2630L	FIRE IE SO AHU24611
38	G2630M	FIRE IE SO PCC
39	G2630N	FIRE IE SO PCC
40	G2630P	FIRE IE SO PCC ACCESS RM
41	G2630Q	FIRE IE SO PCC ACCESS RM
42	G2630R	FIRE IE SO INF PUMP 1 AHU22227
43	G2630S	FIRE IE SO INF PUMP 3 AHU22229
44	G2630T	FIRE IE SO SUBSTATION NO.1
45	G2630U	FIRE IE SO MCC 1
46	G2630V	FIRE IE SO PCC AHU24801-2

No.	Object: Digital Points	Description
47	G2630X	FIRE IE SO SCREEN RM FN22107
48	HIK9003_ST	EMER HOLD BASIN RET FLOW CV
49	L1005T	SUMP 102 HI AT 98.0 FT
50	L1005U	SUMP 102 LO LVL 92.75
51	L1006T	WSTWTR SMP 101 HI LVL 97.0 FT
52	L1006U	WSTWTR SMP 101 LO LVL 92.75 FT
53	L2101T	INF CHNL HI LVL 93.5 FT
54	L2102T	WET WELL HI LVL 92.0 FT
55	L2103T	BSN RM FLOOD 95' FLOATS RAISED
56	L2340T	N SURGE TANK LVL HI 156 FT
57	L2341T	S SURGE TANK LVL HI 156 FT
58	L2358T	SUMP 222 HI LEVEL AT 81.5 FT
59	L2358U	SUMP 222 LOW LEVEL AT 75.5 FT
60	L2359T	CAA DUCT LEVEL HI
61	L2607T	SUMP 211 HI LVL 7.5 FT
62	L2607U	SUMP 211 LO LVL 2.5 FT
63	L2608T	SUMP 223 HI LVL 8.2 FT
64	L2608U	SUMP 223 LO LVL 2.7 FT
65	L2609T	SUMP 221 LEVEL HI
66	L2609U	SUMP 221 LEVEL LO
67	L2610T	SUMP 213 HI LVL 73.6 FT
68	L2610U	SUMP 213 LO LVL 63.9 FT
69	L4481T	SEC EFF CHNL HI LVL 111.29 FT
70	LIC4481A_ST	EFF PUMPS 1 AND 5 SPD CONTROL
71	LIC4481E_ST	EFFLUENT BYPASS VALVES CONTROL
72	PIC2326_ST	EFFLUENT PUMP HEAD CONTROLLER
73	PIC2330_ST	EFFLUENT PUMP HEAD CONTROLLER
74	PIC2331_ST	EFFLUENT PUMP HEAD CONTROLLER
75	T2059T	TFR2A TEMPERATURE HIGH
76	T2061T	TFR2B TEMPERATURE HIGH
77	T22305F	EFF PUMP 5 TEMP/VIB ALERT
78	U2561	MAINTENANCE FUEL OIL BATCH COM
79	U2562	STEAM CLEANER FUEL OIL BATCH C
80	UPS22763	BLR RM/ACC 1 UPS TROUBLE
81	UPS24101	PCC/BLDG UPS TROUBLE
82	X1021T	MIS COMPUTER RM POWER FAILURE
83	X14065R	SUMP 101 DRAINAGE PUMP 1 RNG
84	X14065W	SUMP 101 DRAINAGE PUMP 1 RDY
85	X14066R	SUMP 101 DRAINAGE PUMP 2 RNG
86	X14066W	SUMP 101 DRAINAGE PUMP 2 RDY
87	X14067R	SUMP 101 DRAINAGE PUMP 3 RNG
88	X14067W	SUMP 101 DRAINAGE PUMP 3 RDY
89	X14068R	DRAINAGE PUMP 1 RNG
90	X14068W	DRAINAGE PUMP 1 RDY
91	X14069R	DRAINAGE PUMP 2 RNG
92	X14069W	DRAINAGE PUMP 2 RDY

No.	Object: Digital Points	Description
93	X14070R	DRAINAGE PUMP 3 RNG
94	X14070W	DRAINAGE PUMP 3 RDY
95	X2052G	BUS 2F MAIN CB CLOSED
96	X2053G	BUS 2E-2F TIE CB CLOSED
97	X2053R	BUS 2E-2F TIE CB OPENED
98	X2056G	BUS 2A MAIN CB CLOSED
99	X2056R	BUS 2A MAIN CB OPENED
100	X2057G	BUS 2B MAIN CB CLOSED
101	X2057R	BUS 2B MAIN CB OPENED
102	X2058G	BUS 2A-2B TIE CB CLOSED
103	X2058R	BUS 2A-2B TIE CB OPENED
104	X2063A	RETRANSFER BUS 2A & 2B TO NORM
105	X2073T	TRANSFER SWITCH 2A ON EMERG
106	X2074T	TRANSFER SWITCH 2B ON EMERG
107	X21101A	INFL HEAD GATE 1 OPEN
108	X21101B	INFL HEAD GATE 1 CLOSE
109	X21101G	INFL GATE 1 CLOSED
110	X21101R	INFL GATE 1 OPENED
111	X21102A	INFL HEAD GATE 2 OPEN
112	X21102B	INFL HEAD GATE 2 CLOSE
113	X21102G	INFL GATE 2 CLOSED
114	X21102R	INFL GATE 2 OPENED
115	X21103A	INFL HEAD GATE 3 OPEN
116	X21103B	INFL HEAD GATE 3 CLOSE
117	X21103G	INFL GATE 3 CLOSED
118	X21103R	INFL GATE 3 OPENED
119	X21104X	INFL DIVER GATE 1 LT LIMIT
120	X21104Y	INFL DIVER GATE 1 RT LIMIT
121	X21105X	INFL DIVER GATE 2 LT LIMIT
122	X21105Y	INFL DIVER GATE 2 RT LIMIT
123	X21106X	INFL DIVER GATE 3 LT LIMIT
124	X21106Y	INFL DIVER GATE 3 RT LIMIT
125	X21113R	SCRN RM SUMP PUMP 1 RNG
126	X21113W	SCRN RM SUMP PUMP 1 RDY
127	X21114R	SCRN RM SUMP PUMP 2 RNG
128	X21114W	SCRN RM SUMP PUMP 2 RDY
129	X21115R	SCRN RM SUMP PUMP 3 RNG
130	X21115W	SCRN RM SUMP PUMP 3 RDY
131	X21120A	SCREENING SLUICE WATER VALVE O
132	X21120B	SCREENING SLUICE WATER VALVE C
133	X21120G	SCREENINGS SLUICE WATER VALVE
134	X21120R	SCREENINGS SLUICE WATER VALVE
135	X21201A	INFL PUMP 1 START
136	X21201B	INFL PUMP 1 STOP
137	X21201E	INF PUMP I VSD LUBE PUMP READY
138	X21201F	INFL PUMP 1 VSD LUBE PUMP RNG

No.	Object: Digital Points	Description
139	X21201H	INF PUMP 1 RAG LUBE PUMP READY
140	X21201J	INF PUMP 1 RAG LUBE PUMP RNG
141	X21201K	INF PUMP 1 VSD ACT PUMP RDY
142	X21201L	INF PUMP 1 VSD ACT PUMP RNG
143	X21201R	INFL PUMP 1 RNG
144	X21201T	INFLUENT PUMP 1 TROUBLE
145	X21201W	INFL PUMP 1 RDY
146	X21202A	INFL PUMP 2 START
147	X21202B	INFL PUMP 2 STOP
148	X21202E	INF PUMP 2 LUBE PUMP RDY
149	X21202F	INF PUMP 2 LUBE PUMP RNG
150	X21202R	INF PUMP 2 RNG
151	X21202T	INF PUMP 2 TROUBLE
152	X21202U	INF PUMP 2 VFC IN LOCAL
153	X21202V	INF PUMP 2 VFC TROUBLE
154	X21202W	INF PUMP 2 RDY
155	X21202X	INF PUMP 2 TEMP/VIB ALERT
156	X21203A	INFL PUMP 3 START
157	X21203B	INFL PUMP 3 STOP
158	X21203E	INF PUMP 3 VSD LUBE PUMP READY
159	X21203F	INFL PUMP 3 VSD LUBE PUMP RNG
160	X21203H	INF PUMP 3 RAG LUBE PUMP READY
161	X21203J	INF PUMP 3 RAG LUBE PUMP RNG
162	X21203K	INF PUMP 3 VSD ACT PUMP RDY
163	X21203L	INF PUMP 3 VSD ACT PUMP RNG
164	X21203R	INFL PUMP 3 RNG
165	X21203T	INFLUENT PUMP 3 TROUBLE
166	X21203W	INFL PUMP 3 RDY
167	X21204A	INFL PUMP 4 START
168	X21204B	INFL PUMP 4 STOP
169	X21204E	INF PUMP 4 VSD LUBE PUMP READY
170	X21204F	INF PUMP 4 VSD LUBE PUMP RNG
171	X21204H	INF PUMP 4 RAG LUBE PUMP READY
172	X21204J	INF PUMP 4 RAG LUBE PUMP RNG
173	X21204K	INF PUMP 4 VSD ACT PUMP RDY
174	X21204L	INFL PUMP 4 VSD ACT PUMP RNG
175	X21204R	INFL PUMP 4 RNG
176	X21204T	INFLUENT PUMP 4 TROUBLE
177	X21204W	INFL PUMP 4 RDY
178	X21206A	INFL PUMP 6 START
179	X21206B	INFL PUMP 6 STOP
180	X21206E	INF PUMP 6 VSD LUBE PUMP READY
181	X21206F	INF PUMP 6 VSD LUBE PUMP RNG
182	X21206H	INF PUMP 6 RAG LUBE PUMP READY
183	X21206J	INF PUMP 6 RAG LUBE PUMP RNG
184	X21206K	INF PUMP 6 VSD ACT PUMP RDY

No.	Object: Digital Points	Description
185	X21206L	INFL PUMP 6 VSD ACT PUMP RNG
186	X21206R	INFL PUMP 6 RNG
187	X21206T	INFLUENT PUMP 6 TROUBLE
188	X21206W	INFL PUMP 6 RDY
189	X21207A	RAW SEWAGE SAMPLE VALVE 1 OPEN
190	X21207G	RAW SEWAGE SAMPLE VALVE 1 CLOS
191	X21207R	RAW SEWAGE SAMPLE VALVE 1 OPEN
192	X21208A	RAW SEWAGE SAMPLE VALVE 1 OPEN
193	X21208G	INF SAMPLE VALVE 1 CLOSED
194	X21208R	INF SAMPLE VALVE 1 OPENED
195	X21209A	RAW SEWAGE SAMPLE VALVE 3 OPEN
196	X21209G	RAW SEWAGE SAMPLE VALVE 3 CLOS
197	X21209R	RAW SEWAGE SAMPLE VALVE 3 OPEN
198	X21210A	RAW SEWAGE SAMPLE VALVE 4 OPEN
199	X21210G	RAW SEWAGE SAMPLE VALVE 4 CLOS
200	X21210R	RAW SEWAGE SAMPLE VALVE 4 OPEN
201	X21212A	RAW SEWAGE SAMPLE VALVE 6 OPEN
202	X21212G	RAW SEWAGE SAMPLE VALVE 6 CLO
203	X21212R	RAW SEWAGE SAMPLE VALVE 6 OPE
204	X21213	RAW SEWAGE SAMPLER 1 FLOW PACE
205	X21214	RAW SEWAGE SAMPLER 2 FLOW PACE
206	X21215R	SAMPLER SUMP PUMP 1 RNG
207	X21215T	SUMP 212 SAMPLER SUMP HI LEV
208	X21215U	SUMP 212 SAMPLER SUMP LO LEV
209	X21215W	SAMPLER SUMP PUMP 1 RDY
210	X21216R	SAMPLER SUMP PUMP 2 RNG
211	X21216W	SAMPLER SUMP PUMP 2 RDY
212	X21220R	SUMP 211 DRAIN SUMP PUMP 1 RNG
213	X21220W	SUMP 211 DRAIN SUMP PUMP 1 RDY
214	X21221R	SUMP 211 DRAIN SUMP PUMP 2 RNG
215	X21221W	SUMP 211 DRAIN SUMP PUMP 2 RDY
216	X21301A	EFFL PUMP 1 SUCTION VALVE OPEN
217	X21301B	EFFL PUMP 1 SUCTION VALVE CLOS
218	X21301G	EFFL. PUMP 1 SUCT VALVE CLOSED
219	X21301R	EFFL. PUMP 1 SUCT VALVE OPEN
220	X21303A	EFFL PUMP 3 SUCTION VALVE OPEN
221	X21303B	EFFL PUMP 3 SUCTION VALVE CLOS
222	X21303G	EFFL PUMP 3 SUCT VALVE CLOSED
223	X21303R	EFFL PUMP 3 SUCT VALVE OPEN
224	X21305A	EFFL PUMP 5 SUCTION VALVE OPEN
225	X21305B	EFFL PUMP 5 SUCTION VALVE CLOS
226	X21305G	EFF PUMP 5 SUCTION VLV CLOSED
227	X21305R	EFF PUMP 5 SUCTION VLV OPENED
228	X21306A	EFFL PUMP 6 SUCTION VALVE OPEN
229	X21306B	EFFL PUMP 6 SUCTION VALVE CLOS
230	X21306G	EFFL PUMP 6 SUCT VALVE CLOSED

No.	Object: Digital Points	Description
231	X21306R	EFFL PUMP 6 SUCT VALVE OPEN
232	X21313G	EFF BYPASS VALVE 13 CLOSED
233	X21314G	EFF BYPASS VALVE 14 CLOSED
234	X21315G	EFF BYPASS VALVE 15 CLOSED
235	X21316G	EFF BYPASS VALVE 16 CLOSED
236	X21317A	EFFL PUMP ISOL VALVE 1 OPEN
237	X21317B	EFFL PUMP ISOL VALVE 1 CLOSE
238	X21317G	EFFL PUMP ISOL VALVE 1 OPEN
239	X21317R	EFFL PUMP ISOL VALVE 1 CLOSED
240	X21318A	EFFL PUMP ISOL VALVE 2 OPEN
241	X21318B	EFFL PUMP ISOL VALVE 2 CLOSE
242	X21318G	EFFL PUMP ISOL VALVE 2 OPEN
243	X21318R	EFFL PUMP ISOL VALVE 2 CLOSED
244	X22107R	SCREEN RM SUPPLY FAN RNG
245	X22107T	SCREEN RM FAN TRBL
246	X22107W	SCREEN RM SUPPLY FAN RDY
247	X22225R	EFF. FLUID PWR PUMP 1 RNG
248	X22225T	EFF FLUID PWR MAINT TBL
249	X22227R	INFL PUMP MOTOR AHU 1 RNG
250	X22227T	INFL PUMP MOTOR AHU 1 TRBL
251	X22227W	INFL PUMP MOTOR AHU 1 RDY
252	X22229R	INFL PUMP MOTOR AHU 3 RNG
253	X22229T	INFL PUMP MOTOR AHU 3 TRBL
254	X22229W	INFL PUMP MOTOR AHU 3 RDY
255	X22230R	INFL PUMP MOTOR AHU 4 RNG
256	X22230T	INFL PUMP MOTOR AHU 4 TRBL
257	X22230W	INFL PUMP MOTOR AHU 4 RDY
258	X22232R	INFL PUMP MOTOR AHU 6 RNG
259	X22232T	INFL PUMP MOTOR AHU 6 TRBL
260	X22232W	INFL PUMP MOTOR AHU 6 RDY
261	X22301A	EFFL PUMP 1 START
262	X22301B	EFFL PUMP 1 STOP
263	X22301E	EFF PUMP 1 VSD LUBE PUMP READY
264	X22301F	EFF PUMP 1 VSD LUBE PUMP RNG
265	X22301H	EFF PMP 1 RAG LUBE PUMP READY
266	X22301J	EFF PMP 1 RAG LUBE PUMP RNG
267	X22301K	EFF PMP 1 VSD ACT PMP READY
268	X22301L	EFF PMP 1 VSD ACT PUMP RNG
269	X22301R	EFFL PUMP 1 RNG
270	X22301T	EFFLUENT PUMP 1 TROUBLE
271	X22301W	EFFL PUMP 1 RDY
272	X22303A	EFFL PUMP 3 START
273	X22303B	EFFL PUMP 3 STOP
274	X22303E	EFF PMP 3 VSD LUBE PUMP READY
275	X22303F	EFF PUMP 3 VSD LUBE PUMP RNG
276	X22303H	EFF PMP 3 RAG LUBE PUMP READY

No.	Object: Digital Points	Description
277	X22303J	EFF PMP 3 RAG LUBE PUMP RNG
278	X22303K	EFF PMP 3 VSD ACT PUMP READY
279	X22303L	EFF PMP 3 VSD ACT PMP RNG
280	X22303R	EFFL PUMP 3 RNG
281	X22303T	EFFLUENT PUMP 3 TROUBLE
282	X22303W	EFFL PUMP 3 RDY
283	X22305A	EFFL PUMP 5 START
284	X22305B	EFFL PUMP 5 STOP
285	X22305G	EFF PUMP 5 LUBE PUMP READY
286	X22305H	EFF PUMP 5 LUBE PUMP RUNNING
287	X22305R	EFF PUMP 5 RNG
288	X22305T	EFFLUENT PUMP 5 TROUBLE
289	X22305U	EFF PUMP 5 VFC IN LOCAL
290	X22305V	EFF PUMP 5 VFC TROUBLE
291	X22305W	EFF PUMP 5 RDY
292	X22306A	EFFL PUMP 6 START
293	X22306B	EFFL PUMP 6 STOP
294	X22306E	EFF PMP 6 VSD LUBE PUMP READY
295	X22306F	EFF PMP 6 VSD LUBE PUMP RNG
296	X22306H	EFF PMP 6 RAG LUBE PUMP READY
297	X22306J	EFF PMP 6 RAG LUBE PUMP RNG
298	X22306K	EFF PMP 6 VSD ACT PUMP READY
299	X22306L	EFF PMP 6 VSD ACT PUMP RNG
300	X22306R	EFFL PUMP 6 RNG
301	X22306T	EFFLUENT PUMP 6 TROUBLE
302	X22306W	EFFL PUMP 6 RDY
303	X22307R	EFFL HEADER SUMP PUMP RNG
304	X22307W	EFFL HEADER SUMP PUMP RDY
305	X22308R	DRAINAGE SUMP PUMP 3 RNG
306	X22308W	DRAINAGE SUMP PUMP 3 RDY
307	X22309R	DRAINAGE SUMP PUMP 4 RNG
308	X22309W	DRAINAGE SUMP PUMP 4 RDY
309	X22310R	EFF PUMP 1 MOTOR AHU RNG
310	X22310T	EFF PUMP 1 MOTOR AHU TROUBLE
311	X22310W	EFF PUMP 1 MOTOR AHU READY
312	X22312R	EFF PMP 3 MOTOR AHU RNG
313	X22312T	EFF PMP 3 MOTOR AHU TROUBLE
314	X22312W	EFF PMP 3 MOTOR AHU READY
315	X22315R	EFF PMP 6 MOTOR AHU RNG
316	X22315T	EFF PMP 6 MOTOR AHU TROUBLE
317	X22315W	EFF PMP 6 MOTOR AHU READY
318	X22478T	PUMP MTR RM CWS PUMP TRBL
319	X22503A	WHWS PUMP 2 START
320	X22503B	WHWS PUMP 2 STOP
321	X22503R	RECL WATER PUMP 2 RNG
322	X22503W	RECL WATER PUMP 2 RDY

No.	Object: Digital Points	Description
323	X22504A	WHWS PUMP 3 START
324	X22504B	WHWS PUMP 3 STOP
325	X22504R	RECL WATER PUMP 3 RNG
326	X22504W	RECL WATER PUMP 3 RDY
327	X22505A	WHWS PUMP 4 START
328	X22505B	WHWS PUMP 4 STOP
329	X22505R	RECL WATER PUMP 4 RNG
330	X22505W	RECL WATER PUMP 4 RDY
331	X22507T	WHWS PUMP 2 STRAINER TRBL
332	X22508T	WHWS PUMP 3 STRAINER TRBL
333	X22509T	WHWS PUMP 4 STRAINER TRBL
334	X22511T	WATER DEIONIZATION UNIT TRBL
335	X22515T	WHWS PRES LO
336	X22601R	SANITARY SUMP PUMP 1 RNG
337	X22601W	SANITARY SUMP PUMP 1 RDY
338	X22602R	SANITARY SUMP PUMP 2 RNG
339	X22602W	SANITARY SUMP PUMP 2 RDY
340	X22611A	SCUM FEED FROM PCS LINE 1 OPEN
341	X22611B	SCUM FEED FROM PCS LINE 1 CLOS
342	X22611G	SCUM BYPASS TO DIGESTER VALVE
343	X22611R	SCUM BYPASS TO DIGESTER VALVE
344	X22612A	SCUM FEED FROM PSC LINE 2 OPEN
345	X22612B	SCUM FEED FROM PSC LINE 2 CLOS
346	X22612G	SCUM BYPASS TO DIGESTER VALVE
347	X22612R	SCUM BYPASS TO DIGESTER VALVE
348	X22613A	SCUM BYPASS TO DIGESTER VALVE
349	X22613B	SCUM BYPASS TO DIGESTER VALVE
350	X22613G	SCUM BYPASS TO DIGESTER VALVE
351	X22613R	SCUM BYPASS TO DIGESTER VALVE
352	X22614A	SCUM BYPASS TO DIGESTER VALVE
353	X22614B	SCUM BYPASS TO DIGESTER VALVE
354	X22614G	SCUM BYPASS TO DIGESTER VALVE
355	X22614R	SCUM BYPASS TO DIGESTER VALVE
356	X22702R	BOILER UTIL RM AHU RNG
357	X22702T	BOILER UTIL RM AHU TRBL
358	X22702U	BOILER UTIL RM AHU FILT MEDI
359	X22702W	BOILER UTIL RM AHU RDY
360	X23440T	FIRE ALARM PANEL 23440 TROUBLE
361	X23602T	SO LOBBY AHU TRBL
362	X23602U	SO LOBBY AHU FILTER
363	X24601R	PUMP MTR RM SUPPLY FAN 1 RNG
364	X24601T	PUMP MTR RM SUPPLY FAN 1 TRBL
365	X24601W	PUMP MTR RM SUPPLY FAN 1 RDY
366	X24602R	PUMP MTR RM SUPPLY FAN 2 RNG
367	X24602T	PUMP MTR RM SUPPLY FAN 2 TRBL
368	X24602W	PUMP MTR RM SUPPLY FAN 2 RDY

No.	Object: Digital Points	Description
369	X24608T	PUMP MTR RM FILT MEDIA RUNOUT
370	X24611R	BLOWER RM AHU RNG
371	X24611T	BLOWER RM AHU TRBL
372	X24611U	BOILER RM AHU FILT MEDIA RUNO
373	X24611W	BLOWER RM AHU RDY
374	X24801R	OBS AREA AHU RNG
375	X24801T	PCC/ACC1 AHU TROUBLE
376	X24801U	OBSERVATION AREA AHU FILT MEDI
377	X24801VA	LAB HVAC EXHST FLUME TROUBLE
378	X24801VB	LAB HVAC TEMPERATURE TROUBLE
379	X24801VC	LAB HVAC SUPPLY AIR TROUBLE
380	X24801W	OBS AREA AHU RDY
381	X2612R	LEL ALARMS - MUST BE RESET TO
382	X2626	ACC1 ANNUNCIATOR ACK
383	X39127T	SA SIPHON BRK VALVE RCVR PRES
384	X39134G	I-1 SIPHON BREAK VALVE CLOSED
385	X39134R	I-1 SIPHON BREAK VALVE OPENED
386	X39135G	I-2 SIPHON BREAK VALVE CLOSED
387	X39135R	I-2 SIPHON BREAK VALVE OPENED
388	X39136G	I-3 SIPHON BREAK VALVE CLOSED
389	X39136R	I-3 SIPHON BREAK VALVE OPENED
390	X39137G	I-4 SIPHON BREAK VALVE CLOSED
391	X39137R	I-4 SIPHON BREAK VALVE OPENED
392	X39139G	I-6 SIPHON BREAK VALVE CLOSED
393	X39139R	I-6 SIPHON BREAK VALVE OPENED
394	X42858A	EMERGENCY DVRSN VLV 1 OPEN (
395	X42858B	EMERGENCY DVRSN VLV 1 CLOSE (
396	X42858G	EMERG DIVERSION VALVE 1 CLOSED
397	X42858R	EMERG DIVERSION VALVE 1 OPENED
398	X42858W	EMERG DIVERSION VALVE 1 RDY
399	X42859A	EMERGENCY DVRSN VLV 2 OPEN (
400	X42859B	EMERGENCY DVRSN VLV 2 CLOSE (
401	X42859G	EMERG DIVERSION VALVE 2 CLOSED
402	X42859R	EMERG DIVERSION VALVE 2 OPENED
403	X42859W	EMERG DIVERSION VALVE 2 RDY
404	X92301R	TUNNEL AIR HANDLING UNIT RNG
405	X92301T	TUNNEL AIR HANDLING UNIT TRBL
406	X92301U	TUNNEL AIR FILTER MEDIA RUNOUT
407	X92301W	TUNNEL AIR HANDLING UNIT RDY
408	X95101T	BACKFLOW VALVE TELE TROUBLE
409	X96113A	INFL JUNC STR TRANSFER FAN 1 S
410	X96113B	INFL JUNC STR TRANSFER FAN 1 S
411	X96113R	INFL JUNC STR TRANSFER FAN 1
412	X96113W	INFL JUNC STR TRANSFER FAN 1
413	X96114A	INFL JUNC STR TRANSFER FAN 2 S
414	X96114B	INFL JUNC STR TRANSFER FAN 2 S

No.	Object: Digital Points	Description
415	X96114R	INFL JUNC STR TRANSFER FAN 2
416	X96114W	INFL JUNC STR TRANSFER FAN 2
417	X96116A	INFL JUNC ST TRNSF FAN 4 START
418	X96116B	INFL JUNC ST TRNSF FAN 4 STOP
419	X96116R	INFL JUNC STR TRANSFER FAN 4
420	X96116W	INFL JUNC STR TRANSFER FAN 4
421	X96211R	SUMP 961 PUMP RNG
422	X96211T	SUMP 961 LEVEL HIGH
423	X96211W	SUMP 961 PUMP RDY
424	XSW24101	PCC/BLDG UPS XFER SW LOW VOLTS
425	XSW27763	BLR RM/ACC 1 UPS XFRSW LOVOLTS
426	Y22225R	EFFL FLUID POWER PUMP 2 RNG
427	Y22225T	EFF FLUID PWR TBL HI PRIORITY
428	ZIK4011_ST	SEC DIVERSION VALVE 1 V42858
429	ZIK4012_ST	SEC DIVERSION VALVE 2 V42859

No.	Object: Analog Points	Description
1	A2001	INFLUENT PH
2	A2002	INFLUENT ORP
3	A2612	COMBUSTIBLE GAS - INF CHAN 2
4	C2005	INFL CONDUCTIVITY
5	DRP1_IOBC_WDOG1	DROP 1 WATCHDOG 1
6	E1000H	ACC 1 5.0V CALIBRATION REFEREN
7	E2075	ACC1 24VDC INSTR SUPPLY
8	F2010	WHWS FLOW
9	F2111_DROP1	TOTAL INFL FLOW DROP 1
10	F2112	INFLUENT PUMP 1 FLOW
11	F2113	INFLUENT PUMP 2 FLOW
12	F2114	INFLUENT PUMP 3 FLOW
13	F2115	INFLUENT PUMP 4 FLOW
14	F2117	INFLUENT PUMP 6 FLOW
15	F2355	CAA PITOT TUBE DELTA PRESSURE
16	F4307_DROP1	SEC EFFLUENT FLOW CHNL NORTH
17	F4407_DROP1	SEC EFFLUENT FLOW CHNL SOUTH
18	F9555_DROP1_RAW	EFFLUENT FLOW-ACC 1 RAW DATA
19	K2326	EFFLUENT VALVE FEEDBACK
20	K2328	EFFLUENT VALVE FEEDBACK
21	K2330	EFFLUENT VALVE FEEDBACK
22	K2331	EFFLUENT VALVE FEEDBACK
23	K4481A	EFFL PUMPS SPEED CNTL FB
24	K4481E	EFFL BYP VALVES POSN CNTL FB
25	L2101	INFLUENT CHANNEL LEVEL
26	L2102A	WET WELL LEVEL SOUTH
27	L2102B	WET WELL LEVEL CENTER
28	L2102C	WET WELL LEVEL NORTH
29	L2610	SUMP 213 LEVEL
30	L4481	SEC SED BATT I LEVEL
31	L4482	SEC SED BATT II LEVEL
32	L4540	SEC SED BATT III LEVEL
33	L9003	CV91001 DIFF LEVEL
34	LIC4481A_AO	EFF PUMPS 1 AND 5 SPD CONTROL
35	LIC4481E_AO	EFFLUENT BYPASS VALVES CONTROL
36	P2009	WHWS PRESSURE
37	P2326	EFFLUENT PUMP 1 DIFF PRESSURE
38	P2328	EFFLUENT PUMP 3 DIFF PRESSURE
39	P2330	EFFLUENT PUMP 5 DIFF PRESSURE
40	P2331	EFFLUENT PUMP 6 DIFF PRESSURE
41	S2120	INFLUENT PUMP 1 RPM
42	S2121	INFLUENT PUMP 2 RPM
43	S2122	INFLUENT PUMP 3 RPM
44	S2123	INFLUENT PUMP 4 RPM
45	S2125	INFLUENT PUMP 6 RPM
46	S2306	EFFLUENT PUMP 1 RPM

No.	Object: Analog Points	Description
47	S2308	EFFLUENT PUMP 3 RPM
48	S2310	EFFLUENT PUMP 5 RPM
49	S2311	EFFLUENT PUMP 6 RPM
50	T1020	MIS SERVER ROOM TEMP
51	T2006	INFLUENT TEMPERATURE
52	T21201A	INFL PUMP 1 RADIAL BRG TEMP
53	T21201B	INFL PUMP 1 THRUST BRG TEMP
54	T21201C	INFL PUMP 1 RAG VERT BRG TEMP
55	T21201D	INFL PUMP 1 RAG HORIZ BRG TEMP
56	T21201E	INFL PUMP 1 VSD LO SP BRG TEMP
57	T21201F	INFL PUMP 1 VSD HI SP BRG TEMP
58	T21201G	INFL PUMP 1 MOTOR BRG 1 TEMP
59	T21201H	INFL PUMP 1 MOTOR BRG 2 TEMP
60	T21202A	INF PUMP 2 RADIAL BEARING
61	T21202B	INF PUMP 2 THRUST BRG TEMP
62	T21202C	INF PUMP 2 LOWER MTR BEARING T
63	T21202D	INF PUMP 2 UPPER MTR BEARING T
64	T21202E	INF PUMP 2 HOTTEST MTR WINDING
65	T21203A	INFL PUMP 3 THRUST BRG TEMP
66	T21203B	INFL PUMP 3 RADIAL BRG TEMP
67	T21203C	INFL PUMP 3 RAG VERT BRG TEMP
68	T21203D	INFL PUMP 3 RAG HORIZ BRG TEMP
69	T21203E	INFL PUMP 3 VSD LO SP BRG TEMP
70	T21203F	INFL PUMP 3 VSD HI SP BRG TEMP
71	T21203G	INFL PUMP 3 MOTOR BRG 1 TEMP
72	T21203H	INFL PUMP 3 MOTOR BRG 2 TEMP
73	T21204A	INFL PUMP 4 RADIAL BRG TEMP
74	T21204B	INFL PUMP 4 THRUST BRG TEMP
75	T21204C	INFL PUMP 4 RAG VERT BRG TEMP
76	T21204D	INFL PUMP 4 RAG HORIZ BRG TEMP
77	T21204E	INFL PUMP 4 VSD LO SP BRG TEMP
78	T21204F	INFL PUMP 4 VSD HI SP BRG TEMP
79	T21204G	INFL PUMP 4 MOTOR BRG 1 TEMP
80	T21204H	INFL PUMP 4 MOTOR BRG 2 TEMP
81	T21206A	INFL PUMP 6 RADIAL BRG TEMP
82	T21206B	INFL PUMP 6 THRUST BRG TEMP
83	T21206C	INFL PUMP 6 RAG VERT BRG TEMP
84	T21206D	INFL PUMP 6 RAG HORIZ BRG TEMP
85	T21206E	INFL PUMP 6 VSD LO SP BRG TEMP
86	T21206F	INFL PUMP 6 VSD HI SP BRG TEMP
87	T21206G	INFL PUMP 6 MOTOR BRG 1 TEMP
88	T21206H	INFL PUMP 6 MOTOR BRG 2 TEMP
89	T22301A	EFFL PUMP 1 RADIAL BRG TEMP
90	T22301B	EFFL PUMP 1 THRUST BRG TEMP
91	T22301C	EFFL PUMP 1 RAG VERT BRG TEMP
92	T22301D	EFFL PUMP 1 RAG HORIZ BRG TEMP

No.	Object: Analog Points	Description
93	T22301E	EFFL PUMP 1 VSD LO SP BRG TEMP
94	T22301F	EFFL PUMP 1 VSD HI SP BRG TEMP
95	T22301G	EFFL PUMP 1 MOTOR BRG 1 TEMP
96	T22301H	EFFL PUMP 1 MOTOR BRG 2 TEMP
97	T22303A	EFFL PUMP 3 RADIAL BRG TEMP
98	T22303B	EFFL PUMP 3 THRUST BRG TEMP
99	T22303C	EFFL PUMP 3 RAG VERT BRG TEMP
100	T22303D	EFFL PUMP 3 RAG HORIZ BRG TEMP
101	T22303E	EFFL PUMP 3 VSD LO SP BRG TEMP
102	T22303F	EFFL PUMP 3 VSD HI SP BRG TEMP
103	T22303G	EFFL PUMP 3 MOTOR BRG 1 TEMP
104	T22303H	EFFL PUMP 3 MOTOR BRG 2 TEMP
105	T22305A	EFF PUMP 5 RADIAL BRG TEMP
106	T22305B	EFF PUMP 5 LOWER THRUST BRG T
107	T22305C	EFF PUMP 5 LOWER MTR BEARING T
108	T22305D	EFF PUMP 5 UPPER MTR BEARING T
109	T22306A	EFFL PUMP 6 RADIAL BRG TEMP
110	T22306B	EFFL PUMP 6 THRUST BRG TEMP
111	T22306C	EFFL PUMP 6 RAG VERT BRG TEMP
112	T22306D	EFFL PUMP 6 RAG HORIZ BRG TEMP
113	T22306E	EFFL PUMP 6 VSD LO SP BRG TEMP
114	T22306F	EFFL PUMP 6 VSD HI SP BRG TEMP
115	T22306G	EFFL PUMP 6 MOTOR BRG 1 TEMP
116	T22306H	EFFL PUMP 6 MOTOR BRG 2 TEMP
117	T2619	ACC 1 TEMP
118	T2621	PUMP BLDG MCC RM TEMP
119	T2622	PUMP BLDG SWGR RM TEMP
120	V21201A	INFL PUMP 1 CASE VIBRATION
121	V21201B	INFL PUMP 1 SHAFT VIBR X DIR
122	V21201C	INFL PUMP 1 SHAFT VIBR Y DIR
123	V21201D	INFL PUMP 1 RAG VERT SHAFT VIB
124	V21201E	INFL PUMP 1 RAG HOR SHAFT VIBR
125	V21201F	INFL PUMP 1 VSD LO SP BRG VIBR
126	V21201G	INFL PUMP 1 VSD HI SP BRG VIBR
127	V21201H	INFL PUMP 1 MOTOR CASE VIBR
128	V21202A	INF PUMP 2 VOLUTE CASE VIB
129	V21202B	INF PUMP 2 PMP BEARING VIB X-D
130	V21202C	INF PUMP 2 PMP BEARING VIP Y-D
131	V21202D	INF PUMP 2 MTR BEARING VIB X-D
132	V21202E	INF PUMP 2 MTR BEARING VIB Y-D
133	V21203A	INFL PUMP 3 CASE VIBRATION
134	V21203B	INFL PUMP 3 SHAFT VIBR X DIR
135	V21203C	INFL PUMP 3 SHAFT VIBR Y DIR
136	V21203D	INFL PUMP 3 RAG VERT SHAFT VIB
137	V21203E	INFL PUMP 3 RAG HOR SHAFT VIBR
138	V21203F	INFL PUMP 3 VSD LO SP BRG VIBR

No.	Object: Analog Points	Description
139	V21203G	INFL PUMP 3 VSD HI SP BRG VIBR
140	V21203H	INFL PUMP 3 MOTOR CASE VIBR
141	V21204A	INFL PUMP 4 CASE VIBRATION
142	V21204B	INFL PUMP 4 SHAFT VIBR X DIR
143	V21204C	INFL PUMP 4 SHAFT VIBR Y DIR
144	V21204D	INFL PUMP 4 RAG VERT SHAFT VIB
145	V21204E	INFL PUMP 4 RAG HOR SHAFT VIBR
146	V21204F	INFL PUMP 4 VSD LO SP BRG VIBR
147	V21204G	INFL PUMP 4 VSD HI SP BRG VIBR
148	V21204H	INFL PUMP 4 MOTOR CASE VIBR
149	V21206A	INFL PUMP 6 CASE VIBRATION
150	V21206B	INFL PUMP 6 SHAFT VIBR X DIR
151	V21206C	INFL PUMP 6 SHAFT VIBR Y DIR
152	V21206D	INFL PUMP 6 RAG VERT SHAFT VIB
153	V21206E	INFL PUMP 6 RAG HOR SHAFT VIBR
154	V21206F	INFL PUMP 6 VSD LO SP BRG VIBR
155	V21206G	INFL PUMP 6 VSD HI SP BRG VIBR
156	V21206H	INFL PUMP 6 MOTOR CASE VIBR
157	V22301A	EFFL PUMP 1 CASE VIBRATION
158	V22301B	EFFL PUMP 1 SHAFT VIBR X DIR
159	V22301C	EFFL PUMP 1 SHAFT VIBR Y DIR
160	V22301D	EFFL PUMP 1 RAG VERT SHAFT VIB
161	V22301E	EFFL PUMP 1 RAG HOR SHAFT VIBR
162	V22301F	EFFL PUMP 1 VSD LO SP BRG VIBR
163	V22301G	EFFL PUMP 1 VSD HI SP BRG VIBR
164	V22301H	EFFL PUMP 1 MOTOR CASE VIBR
165	V22303A	EFFL PUMP 3 CASE VIBRATION
166	V22303B	EFFL PUMP 3 SHAFT VIBR X DIR
167	V22303C	EFFL PUMP 3 SHAFT VIBR Y DIR
168	V22303D	EFFL PUMP 3 RAG VERT SHAFT VIB
169	V22303E	EFFL PUMP 3 RAG HOR SHAFT VIBR
170	V22303F	EFFL PUMP 3 VSD LO SP BRG VIBR
171	V22303G	EFFL PUMP 3 VSD HI SP BRG VIBR
172	V22303H	EFFL PUMP 3 MOTOR CASE VIBR
173	V22305A	EFF PUMP 5 PMP VOLUTE CASE VIB
174	V22305B	EFF PUMP 5 PMP BEARING VIB X-D
175	V22305C	EFF PUMP 5 PMP BEARING VIB Y-D
176	V22305D	EFF PUMP 5 MTR BEARING VIB X-D
177	V22305E	EFF PUMP 5 MTR BEARING VIB Y-D
178	V22306A	EFFL PUMP 6 CASE VIBRATION
179	V22306B	EFFL PUMP 6 SHAFT VIBR X DIR
180	V22306C	EFFL PUMP 6 SHAFT VIBR Y DIR
181	V22306D	EFFL PUMP 6 RAG VERT SHAFT VIB
182	V22306E	EFFL PUMP 6 RAG HOR SHAFT VIBR
183	V22306F	EFFL PUMP 6 VSD LO SP BRG VIBR
184	V22306G	EFFL PUMP 6 VSD HI SP BRG VIBR

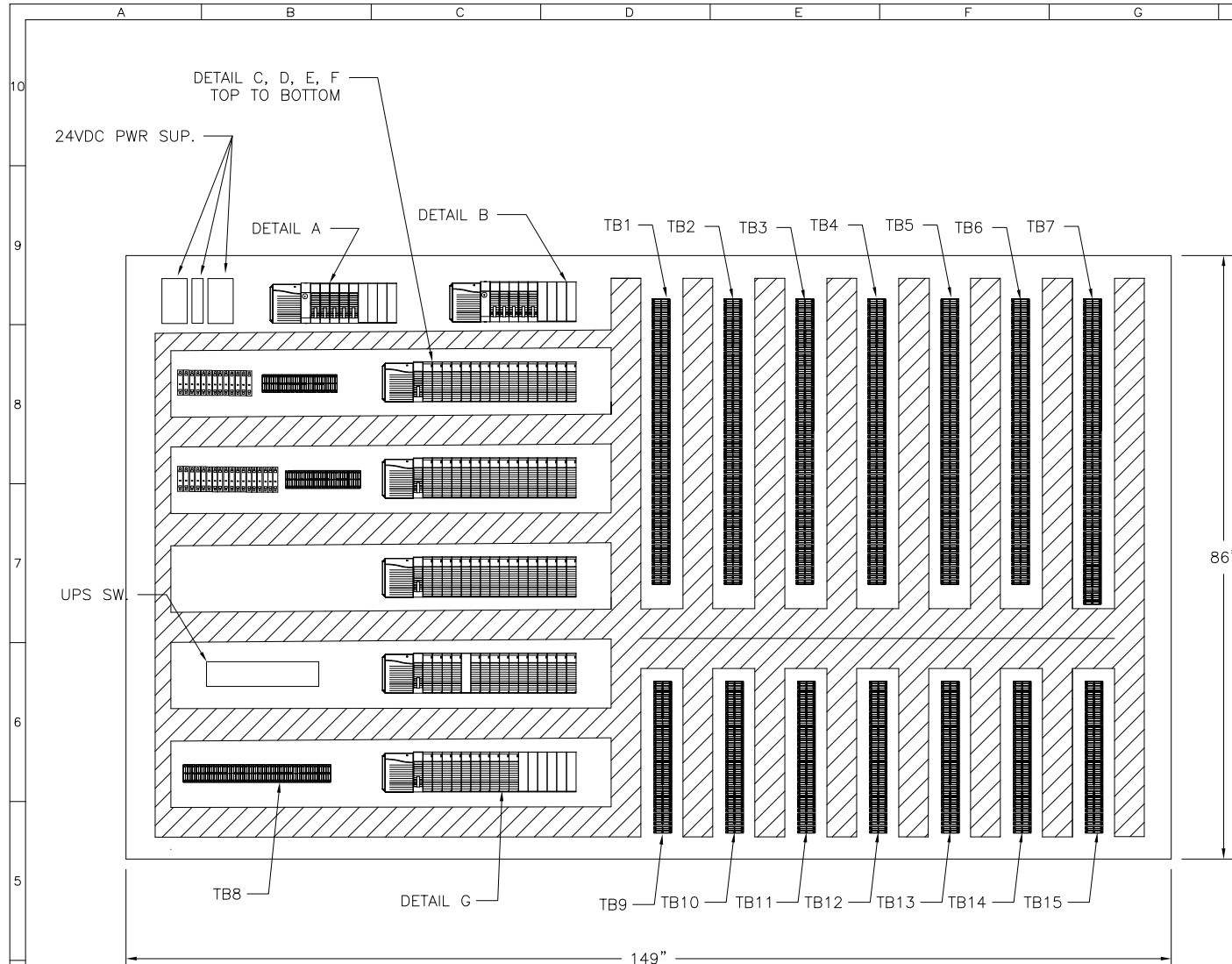
No.	Object: Analog Points	Description
185	V22306H	EFFL PUMP 6 MOTOR CASE VIBR
186	Z4011	SEC DIVERSION VALVE 1 DEMAND
187	Z4011A	SEC DIVERSION VALVE 1 POSITION
188	Z4012	SEC DIVERSION VALVE 2 FB POS
189	Z4012A	SEC DIVERSION VALVE 2 POSITION
190	Z9002	EMER HOLD BASIN RET FLOW CV PO
191	ZIK4011_AO	SEC DIVERSION VALVE 1 V42858
192	ZIK4012_AO	SEC DIVERSION VALVE 2 V42859
193	L2607	SUMP 211 LEVEL
194	WHWS_CL2_PILOT	WHWS CL2 PILOT

No.	Local
1	LIC2118 setpoint.
2	I-2 Speed CMD
3	I-1 Speed CMD
4	E-6 Speed CMD
5	E-3 Speed CMD
6	I-6 Speed CMD
7	E-3 Discharge Valve Position CMD
8	E-5 Discharge Valve Position CMD
9	E-6 Discharge Valve Position CMD
10	E-1 Discharge Valve Position CMD
11	V42859 Demand
12	G91001 Set Point HIK9003
13	PI Level South LIT3101
14	PI Level North LIT 3103
15	ESB RETURN HIK 9003 FB
16	Total influent flow
17	ESB A Level FB
18	Influent PH
	RIO
1	BS Silence button.
2	New BS Lights
3	BS Horns.

RFP No. 9158

ATTACHMENT H

Example PLC Panel Design Drawings



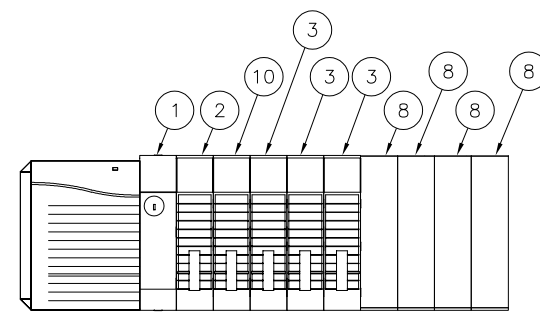
GENERAL NOTES:

1. MATERIAL LIST BELOW DOESN'T COVER ALL ITEMS. MISC. ITEMS SUCH AS LABELS, WIRES, DINRAIL AND OTHERS ARE NOT SHOWN.
2. DISCRETE I/O WIRING IS UNIQUE DUE TO EXISTING MULTICONDUCTOR WIRING TO MCC AND THE CONTROL LOGIC DESIGN. SEE WIRING SCHEMATICS AND NOTE ON CONTROL AND LOGIC DIAGRAMS.
3. TB1 THRU TB6 150 TERMINAL BLOCKS EACH.
TB7 170 TERMINAL BLOCKS OR AS NEEDED.
TB8 THRU TB15 75 TERMINAL BLOCKS EACH.
4. MOUNT FAN ON RIGHT SIDE OF ENC.(LEFT SIDE FACING ENC.)
5. MOUNT SIDE PANEL ON LEFT SIDE OF ENC.(RIGHT SIDE FACING ENC.) FOR FUTURE USE.

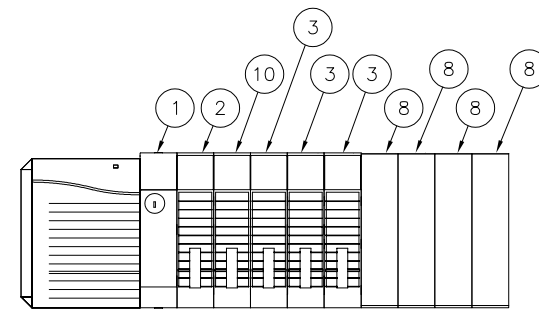
MATERIAL LIST

QUANTITY	DESCRIPTION	MANUFACTURER	PART NO.
1	ENCLOSURE, NEMA 12, FOUR-DOOR, FRONT ACCESS, FREE STANDING, ANSI GRAY. 86"H x 149"W x 20"D	HOFFMAN	A86M4E20G
2	ENCLOSURE BACK PANEL, WHITE, 80"H x 70"W		CUSTOM
2	CONTROLLOGIX CHASSIS, 10 SLOT	ALLEN-BRADLEY	1756-A10
5	CONTROLLOGIX CHASSIS, 17 SLOT	ALLEN-BRADLEY	1756-A17
7	CHASSIS POWER SUPPLY, INPUT 120VAC	ALLEN-BRADLEY	1756-PA72
2	CONTROLLOGIX PROCESSOR	ALLEN-BRADLEY	1756-L73
7	ETHERNET IP COMMUNICATION MODULE, DUAL PORT	ALLEN-BRADLEY	1756-EN2TR
6	ETHERNET IP COMMUNICATION MODULE	ALLEN-BRADLEY	1756-EN2T
22	AC DIGITAL INPUT MODULE, 16 POINT	ALLEN-BRADLEY	1756-IA16I
30	ISOLATED CONTACT OUTPUT MODULE, 8 OUTPUTS	ALLEN-BRADLEY	1756-OX8I
8	ANALOG INPUT MODULE, 4-20MA, 8 DIFFERENTIAL INPUTS	ALLEN-BRADLEY	1756-IF16
4	ANALOG OUTPUT MODULE, 4-20MA, 8 CHANNELS OUTPUTS	ALLEN-BRADLEY	1756-OF8
15	SLOT FILLER	ALLEN-BRADLEY	1756-N2
9	DIGITAL INPUT MODULE, 24VDC, 16 PT, NON-ISOLATED	ALLEN-BRADLEY	1756-IB16
2	REDUNDANCY MODULE	ALLEN-BRADLEY	1756-RM2
2	24VDC POWER SUPPLY, 20A	PHOENIX CONTACT	QUINT-PS/1AC/24DC/20
1	ACTIVE REDUNDANCY MODULE	PHOENIX CONTACT	QUINT-ORING/24DC/2X20
3	CIRCUIT BREAKER, 15A, 1P, 10KAIC		
7	CIRCUIT BREAKER, 5A, 1P		
2	CIRCUIT BREAKER, 6A, 1P		
18	CIRCUIT BREAKER, 2A, 1P, 24VDC		
2	LIGHT FIXTURE, 120VAC W/ DOOR SWITCH		
2	RECEPTACLE		
1	THERMOSTAT	HOFFMAN	ATEMNO
1	FAN KIT 140CFM, 120V	HOFFMAN	TFP61
NOTE 4	AS NEEDED	TERMINAL BLOCKS	
NOTE 3	AS NEEDED	WIREWAY DUCT 4.25" (W) 5.1" (H)	PANDUIT G4X5LG6
	AS NEEDED	WIREWAY DUCT COVER	PANDUIT C4LG6
	AS NEEDED	WIREWAY DUCT 2.25" (W) 5.1" (H)	PANDUIT G2X5LG6
	AS NEEDED	WIREWAY DUCT COVER	PANDUIT C2LG6
1	UPS, 120V, 1500VA, MINI TOWER (FLOOR MOUNT)	VERTIV LIEBERT	PS15-1500MT120LI
1	UPS BYPASS SWITCH	VERTIV LIEBERT	MP2-115A
NOTE 5	1	ENCLOSURE SIDE PANEL, WHITE, 78"H X 16" OR 18"W	HOFFMAN
		ENC. GROUNDING BAR	

- ①
- ②
- ③
- ④
- ⑤
- ⑥
- ⑦
- ⑧
- ⑨
- ⑩



DETAIL RACK A



DETAIL RACK B

DOOR NAMEPLATE INSCRIPTION
 CPNLXXXXXX
 ACC3 AREA PLC CONTROL PANEL
 WHITE LETTERS ON BLACK BACKGROUND



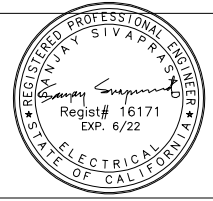
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE PANEL LAYOUT
 DRAWN SS/GA
 DESIGNED SS
 CHECKED SS

ENGRS STAMP



SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT
 ACC3 PERMANENT PLC PANEL
 PANEL LAYOUT AND BOM

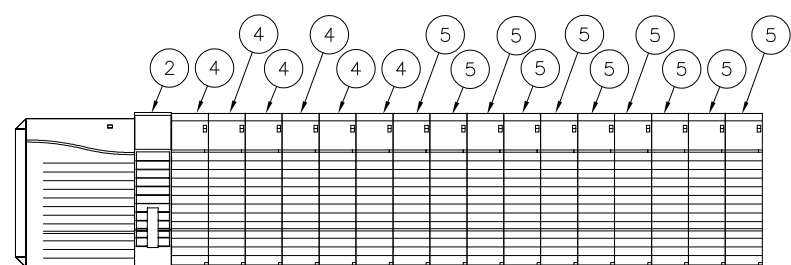
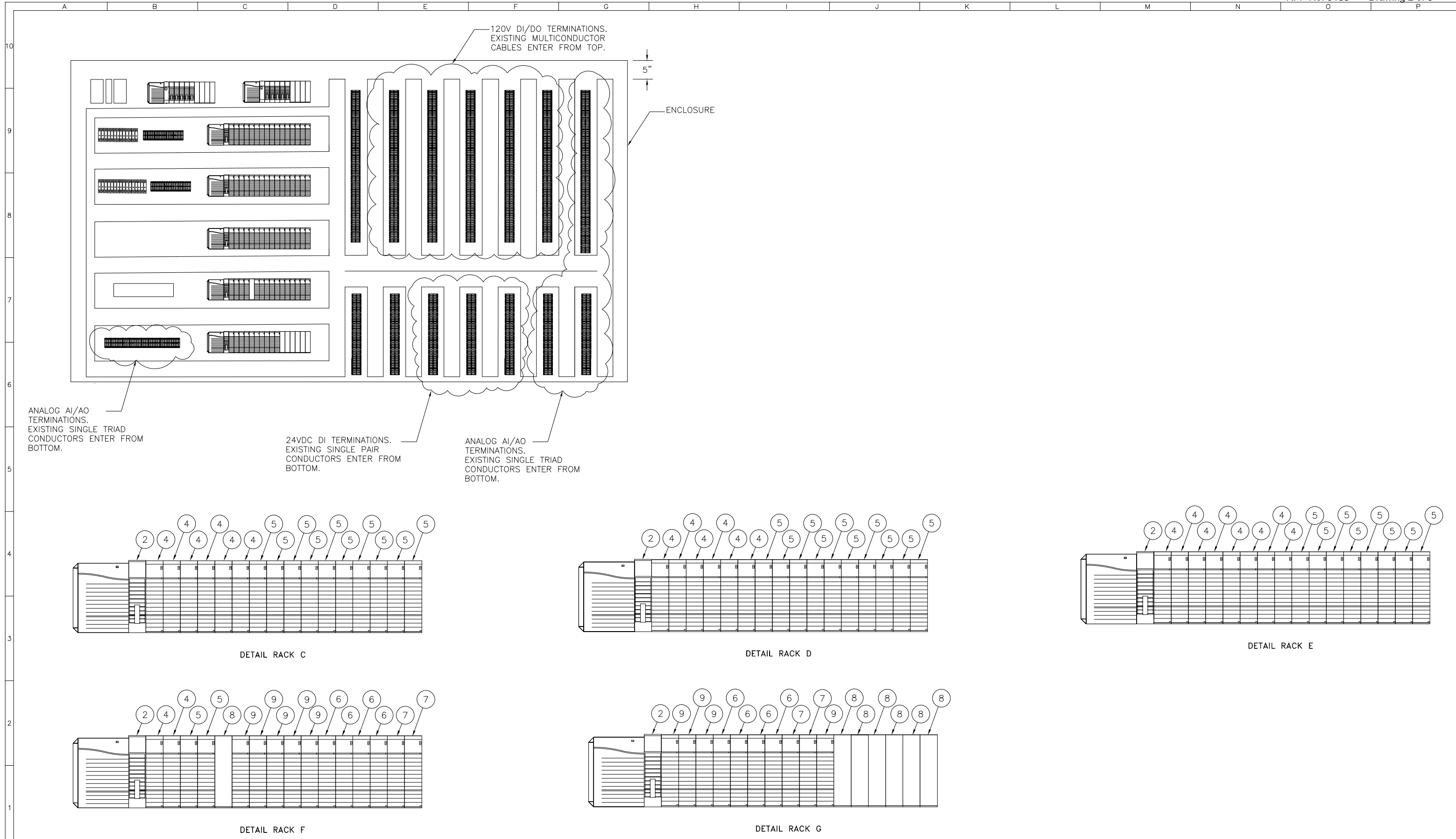
RFB NO. 8405
 CONTRACT NUMBER

ACC3 PERMANENT PLC PANEL
 PANEL LAYOUT AND BOM

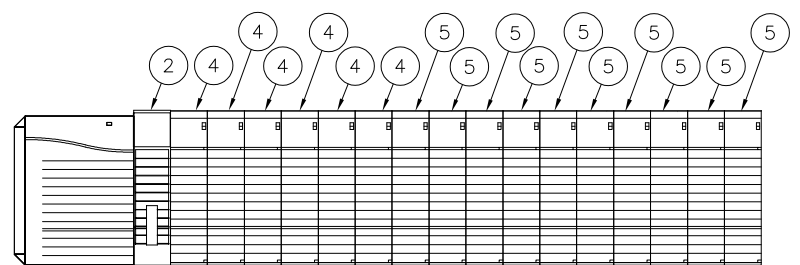
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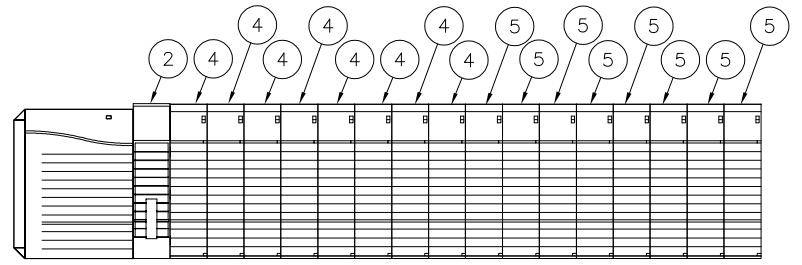
SHEET NUMBER
1 OF 46



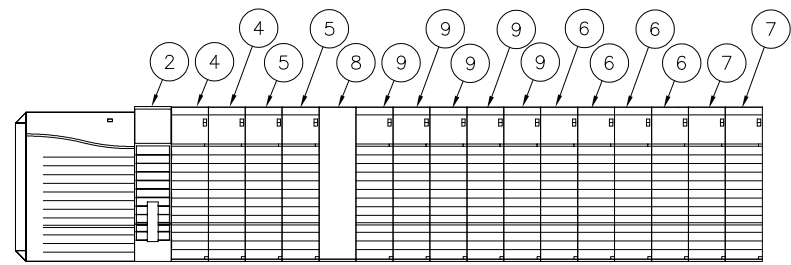
DETAIL RACK C



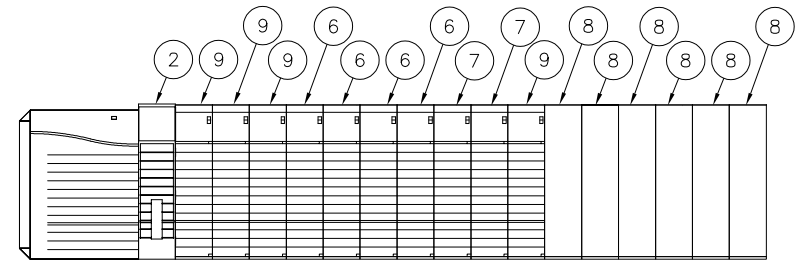
DETAIL RACK D



DETAIL RACK E



DETAIL RACK F



DETAIL RACK G



PRIMARY	SUB
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REVISIONS				
ZONE	REV.	DESCRIPTION	BY	DATE

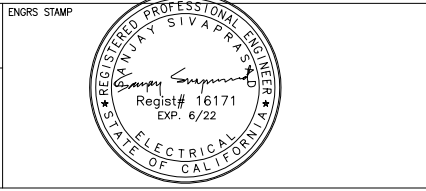
LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE PLC Layout 1

DRAWN SS/GA

DESIGNED SS

CHECKED SS



SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT

ACC3 PERMANENT PLC PANEL I/O REPLACEMENT PROJECT

RFB NO. 8405
CONTRACT NUMBER

ACC3 PERMANENT PLC PANEL PANEL LAYOUT DETAILS

SCALE
DRAWING NUMBER 3X1001
SHEET NUMBER 2 OF 46



PRIMARY	SUB
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REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE RTP100

DRAWN SS

DESIGNED SS

CHECKED SS

ENGRS STAMP

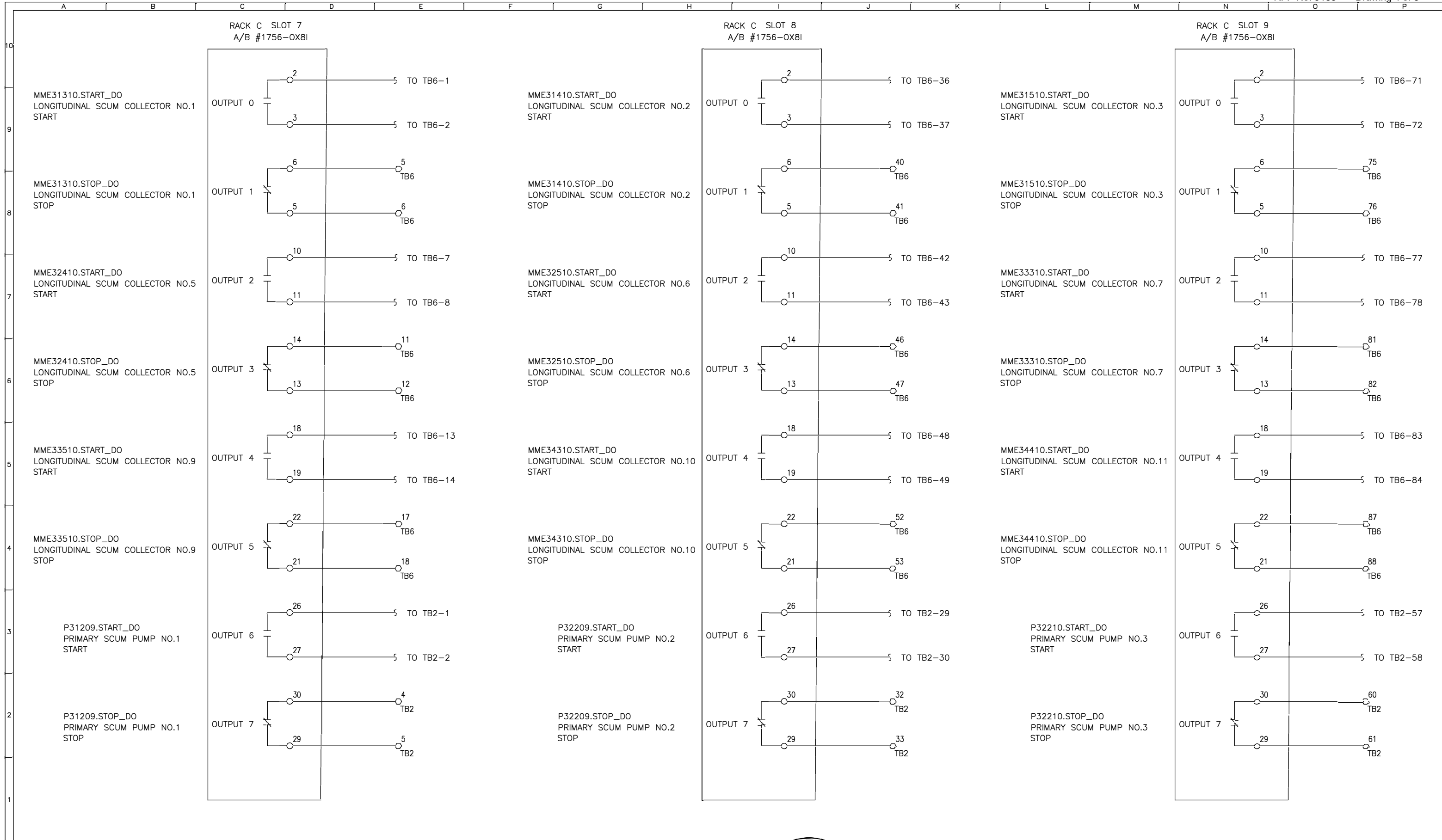
SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT

ACC3 RTP I/O REPLACEMENT PROJECT

RFB NO. 8405 CONTRACT NUMBER

ACC3 PERMANENT PLC PANEL DIGITAL INPUTS

SCALE NO SCALE
DRAWING NUMBER 3X1004
SHEET NUMBER 5 OF 46

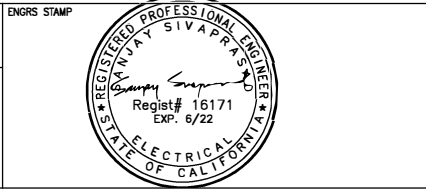


PRIMARY	SUB
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REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE RTP200
 DRAWN SS
 DESIGNED SS
 CHECKED SS



SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT
 ACC3 RTP I/O REPLACEMENT PROJECT

RFB NO. 8405
 CONTRACT NUMBER

ACC3 PERMANENT PLC PANEL
 DIGITAL OUTPUTS

SCALE NO SCALE
 DRAWING NUMBER 3X1012
 SHEET NUMBER 13 OF 46



PLC ANALOG INPUT LIST

TERMINATE THE FOLLOWING AT TB7 UNLESS NOTED OTHERWISE

TERMINATE THE FOLLOWING AT TB15 UNLESS NOTED OTHERWISE

POINT ID	DESCRIPTION	TYPE	RACK	SLOT	POS	LOOP POWERED	TERMINATE AT
LIT3322A.LVL_AI	TANK NO.1 LEVEL	AI	F	11	0	YES	
LIT3323B.LVL_AI	TANK NO.5 LEVEL	AI	F	11	1	YES	
LIT3324C.LVL_AI	TANK NO.9 LEVEL	AI	F	11	2	YES	
G39504A.POS_AI	BATTERY NO.1 GATE A POSITION	AI	F	11	3		TB8
G39506A.POS_AI	BATTERY NO.3 GATE A POSITION	AI	F	11	4		TB8
PT4205.PRES_AI	WRH PRESSURE	AI	F	11	5	YES	
LIT3349.LVL_AI	BATTERY NO.1 DIFFERENTIAL LEVEL	AI	F	11	6		
	SPARE	AI	F	11	7		
LIT3322A.LVL_AI	TANK NO.2 LEVEL	AI	F	12	0	YES	
LIT3323B.LVL_AI	TANK NO.6 LEVEL	AI	F	12	1	YES	
LIT3325A.LVL_AI	TANK NO.10 LEVEL	AI	F	12	2	YES	
G39504B.POS_AI	BATTERY NO.1 GATE B POSITION	AI	F	12	3		TB8
G39506B.POS_AI	BATTERY NO.3 GATE B POSITION	AI	F	12	4		TB8
PT4206.PRES_AI	WRL PRESSURE	AI	F	12	5	YES	
LIT3350.LVL_AI	BATTERY NO.2 DIFFERENTIAL LEVEL	AI	F	12	6		
	SPARE	AI	F	12	7		
LIT3322A.LVL_AI	TANK NO.3 LEVEL	AI	F	13	0	YES	
LIT3323B.LVL_AI	TANK NO.7 LEVEL	AI	F	13	1	YES	
LIT3325B.LVL_AI	TANK NO.11 LEVEL	AI	F	13	2	YES	
G39505A.POS_AI	BATTERY NO.2 GATE A POSITION	AI	F	13	3		TB8
G39507A.POS_AI	BATTERY NO.4 GATE A POSITION	AI	F	13	4		TB8
FIT4203.FLOW_AI	WRH FLOW	AI	F	13	5		
LIT3351.LVL_AI	BATTERY NO.3 DIFFERENTIAL LEVEL	AI	F	13	6		
	SPARE	AI	F	13	7		
LIT3323A.LVL_AI	TANK NO.4 LEVEL	AI	F	14	0	YES	
LIT3324B.LVL_AI	TANK NO.8 LEVEL	AI	F	14	1	YES	
LIT3325C.LVL_AI	TANK NO.12 LEVEL	AI	F	14	2	YES	
G39505B.POS_AI	BATTERY NO.2 GATE B POSITION	AI	F	14	3		TB8
G39507B.POS_AI	BATTERY NO.4 GATE B POSITION	AI	F	14	4		TB8
FIT4204.FLOW_AI	WRL FLOW	AI	F	14	5		
LIT3352.LVL_AI	BATTERY NO.4 DIFFERENTIAL LEVEL	AI	F	14	6		
	SPARE	AI	F	14	7		
FIT3114.FLOW_AI	GRIT FLOW LINE NO.1	AI	G	4	0		
FIT3115.FLOW_AI	GRIT FLOW LINE NO.2	AI	G	4	1		
FIT3210.FLOW_AI	GRIT FLOW LINE NO.3	AI	G	4	2		
FIT3211.FLOW_AI	GRIT FLOW LINE NO.4	AI	G	4	3		
FIT3310.FLOW_AI	GRIT FLOW LINE NO.5	AI	G	4	4		
FIT3311.FLOW_AI	GRIT FLOW LINE NO.6	AI	G	4	5		
FIT3412.FLOW_AI	GRIT FLOW LINE NO.7	AI	G	4	6		
FIT3413.FLOW_AI	GRIT FLOW LINE NO.8	AI	G	4	7		

POINT ID	DESCRIPTION	TYPE	RACK	SLOT	POS	LOOP POWERED	TERMINATE AT
AIT3030.LVL_AI	PRIMARY INF CHANNEL H2S LEVEL	AI	G	5	0		
AIT3050A.LVL_AI	PRIMARY ORT INLET H2S LEVEL	AI	G	5	1		
AIT3050B.LVL_AI	PRIMARY ORT OUTLET H2S LEVEL	AI	G	5	2		
AIC3902.LVL_AI	PRIMARY ORT H2S ANALYZER	AI	G	5	3		
G39541.POS_AI	PRI. INF EMERG DIV GATE 1 POSITION	AI	G	5	4		
G39542.POS_AI	PRI. INF EMERG DIV GATE 2 POSITION	AI	G	5	5		
G91002.POS_AI	PRI. INF DIV ESB A INLET GATE POSITION	AI	G	5	6		
LIT4470.LVL_AI	SUMP404 LEVEL DEWATERING PUMP STA	AI	G	5	7		
LIT3104.LVL_AI	PRIMARY INF CHANNEL DIVERSION LEVEL	AI	G	6	0		
LIT3107.LVL_AI	PRIMARY INF DIVERSION CONDUIT LEVEL	AI	G	6	1		
F3108A.FLOW_AI	PRIMARY INF DIVERSION FLOW	AI	G	6	2		
TFR4G.CUR_AI	TRANSFORMER 4G CURRENT	AI	G	6	3		
TFR4H.CUR_AI	TRANSFORMER 4H CURRENT	AI	G	6	4		
ACC3RM.TEMP_AI	ACC3 ROOM TEMP.	AI	G	6	5		
MCCRM.TEMP_AI	ACC3 MCC ROOM TEMP.	AI	G	6	6		
AIT390004.LVL_AI	NORTH WAS PUMPING ANALYZER	AI	G	6	7		
	SPARE	AI	G	7	0		TB10
	SPARE	AI	G	7	1		TB10
	SPARE	AI	G	7	2		TB10
	SPARE	AI	G	7	3		TB10
	SPARE	AI	G	7	4		TB10
	SPARE	AI	G	7	5		TB10
	SPARE	AI	G	7	6		TB10
	SPARE	AI	G	7	7		TB10

 <p>REGIONALSAN Sacramento Regional County Sanitation District</p>	SUB	<table border="1"> <thead> <tr> <th colspan="5">REVISIONS</th> </tr> <tr> <th>ZONE</th> <th>REV.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> <th>APP.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>					REVISIONS					ZONE	REV.	DESCRIPTION	BY	DATE	APP.																									<p>LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)</p> <p>FILE <u>RTP300</u></p> <p>DRAWN <u>SS</u></p> <p>DESIGNED <u>SS</u></p> <p>CHECKED <u>SS</u></p>	 <p>ENGRS STAMP</p>	<p>SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT</p> <p>ACC3 RTP I/O REPLACEMENT PROJECT</p> <p>RFB NO. 8405 CONTRACT NUMBER</p>	<p>ACC3 PERMANENT PLC PANEL PLC ANALOG I/O LIST 1</p>	SCALE NO SCALE
		REVISIONS																																												
ZONE	REV.	DESCRIPTION	BY	DATE	APP.																																									
DRAWING NUMBER 3X1025																																														
									SHEET NUMBER 26 OF 46																																					

PLC ANALOG OUTPUT LIST

TERMINATE THE FOLLOWING AT TB14 UNLESS NOTED OTHERWISE

POINT ID	DESCRIPTION	TYPE	RACK	SLOT	POS	TERMINATE AT
VFD31201.SPD_AO	PRIMARY SLUDGE PUMP NO.1 SPEED	AO	F	15	0	
VFD32201.SPD_AO	PRIMARY SLUDGE PUMP NO.4 SPEED	AO	F	15	1	
VFD33201.SPD_AO	PRIMARY SLUDGE PUMP NO.7 SPEED	AO	F	15	2	
VFD34201.SPD_AO	PRIMARY SLUDGE PUMP NO.10 SPEED	AO	F	15	3	
G39504A.POS_AO	BATTERY NO.1 GATE A POSITION	AO	F	15	4	TB8
G39505B.POS_AO	BATTERY NO.2 GATE B POSITION	AO	F	15	5	TB8
G39507A.POS_AO	BATTERY NO.4 GATE A POSITION	AO	F	15	6	TB8
	SPARE	AO	F	15	7	
VFD31202.SPD_AO	PRIMARY SLUDGE PUMP NO.2 SPEED	AO	F	16	0	
VFD32202.SPD_AO	PRIMARY SLUDGE PUMP NO.5 SPEED	AO	F	16	1	
VFD33202.SPD_AO	PRIMARY SLUDGE PUMP NO.8 SPEED	AO	F	16	2	
VFD34202.SPD_AO	PRIMARY SLUDGE PUMP NO.11 SPEED	AO	F	16	3	
G39504B.POS_AO	BATTERY NO.1 GATE B POSITION	AO	F	16	4	TB8
G39506A.POS_AO	BATTERY NO.3 GATE A POSITION	AO	F	16	5	TB8
G39507B.POS_AO	BATTERY NO.4 GATE B POSITION	AO	F	16	6	TB8
G91002.POS_AO	PRI. INF DIV ESB A INLET GATE POSITION	AO	F	16	7	
VFD31203.SPD_AO	PRIMARY SLUDGE PUMP NO.3 SPEED	AO	G	8	0	
VFD32203.SPD_AO	PRIMARY SLUDGE PUMP NO.6 SPEED	AO	G	8	1	
VFD33203.SPD_AO	PRIMARY SLUDGE PUMP NO.9 SPEED	AO	G	8	2	
VFD34203.SPD_AO	PRIMARY SLUDGE PUMP NO.12 SPEED	AO	G	8	3	
G39505A.POS_AO	BATTERY NO.2 GATE A POSITION	AO	G	8	4	TB8
G39506B.POS_AO	BATTERY NO.3 GATE B POSITION	AO	G	8	5	TB8
G39541.POS_AO	PRI. INF EMERG DIV GATE NO.1 POSITION	AO	G	8	6	
G39542.POS_AO	PRI. INF EMERG DIV GATE NO.2 POSITION	AO	G	8	7	
	SPARE	AO	G	9	0	
	SPARE	AO	G	9	1	
	SPARE	AO	G	9	2	
	SPARE	AO	G	9	3	
	SPARE	AO	G	9	4	
	SPARE	AO	G	9	5	
	SPARE	AO	G	9	6	
	SPARE	AO	G	9	7	



ZONE	REV.	DESCRIPTION	BY	DATE	APP.

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2"-SCALE ACCORDINGLY)

FILE RTP301
DRAWN SS
DESIGNED SS
CHECKED SS

ENGRS STAMP



SACRAMENTO REGIONAL
WASTEWATER TREATMENT PLANT

ACC3 PERMANENT PLC PANEL
PLC ANALOG I/O REPLACEMENT PROJECT

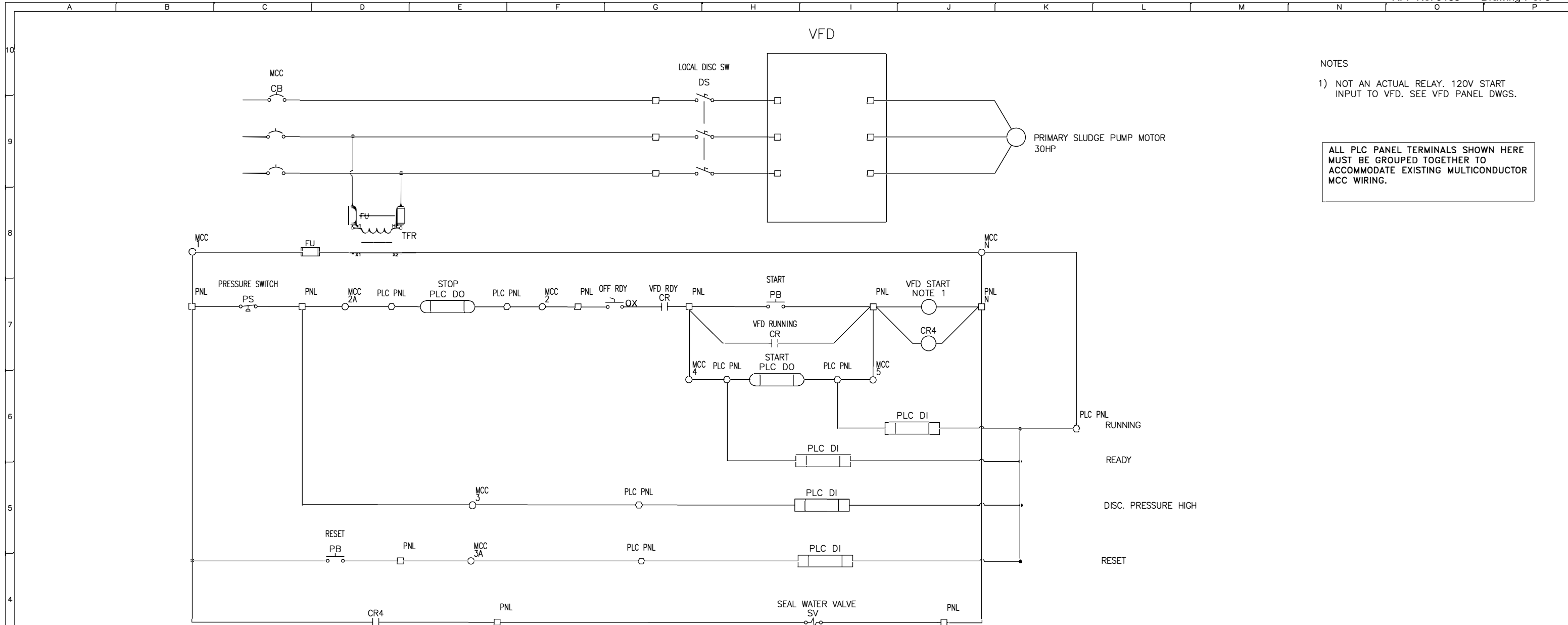
RFB NO. 8405
CONTRACT NUMBER

ACC3 PERMANENT PLC PANEL
PLC ANALOG I/O LIST 2

SCALE
NO SCALE

DRAWING NUMBER
3X1026

SHEET NUMBER
27 OF 46



NOTES
 1) NOT AN ACTUAL RELAY. 120V START INPUT TO VFD. SEE VFD PANEL DWGS.

ALL PLC PANEL TERMINALS SHOWN HERE MUST BE GROUPED TOGETHER TO ACCOMMODATE EXISTING MULTICONDUCTOR MCC WIRING.

BATTERY NO.1

EQUIP NO.	DESCRIPTION
P31201	PRIMARY SLUDGE PUMP NO.1
P31202	PRIMARY SLUDGE PUMP NO.2
P31203	PRIMARY SLUDGE PUMP NO.3

BATTERY NO.2

EQUIP NO.	DESCRIPTION
P32201	PRIMARY SLUDGE PUMP NO.4
P32202	PRIMARY SLUDGE PUMP NO.5
P32203	PRIMARY SLUDGE PUMP NO.6

BATTERY NO.3

EQUIP NO.	DESCRIPTION
P33201	PRIMARY SLUDGE PUMP NO.7
P33202	PRIMARY SLUDGE PUMP NO.8
P33203	PRIMARY SLUDGE PUMP NO.9

BATTERY NO.4

EQUIP NO.	DESCRIPTION
P34201	PRIMARY SLUDGE PUMP NO.10
P34202	PRIMARY SLUDGE PUMP NO.11
P34203	PRIMARY SLUDGE PUMP NO.12



ZONE	REV.	DESCRIPTION	BY	DATE	APP.

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

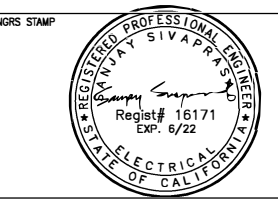
LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE C&LD PSP

DRAWN SS

DESIGNED SS

CHECKED SS



SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT

ACC3 RTP I/O REPLACEMENT PROJECT

RFB NO. 8405

CONTRACT NUMBER

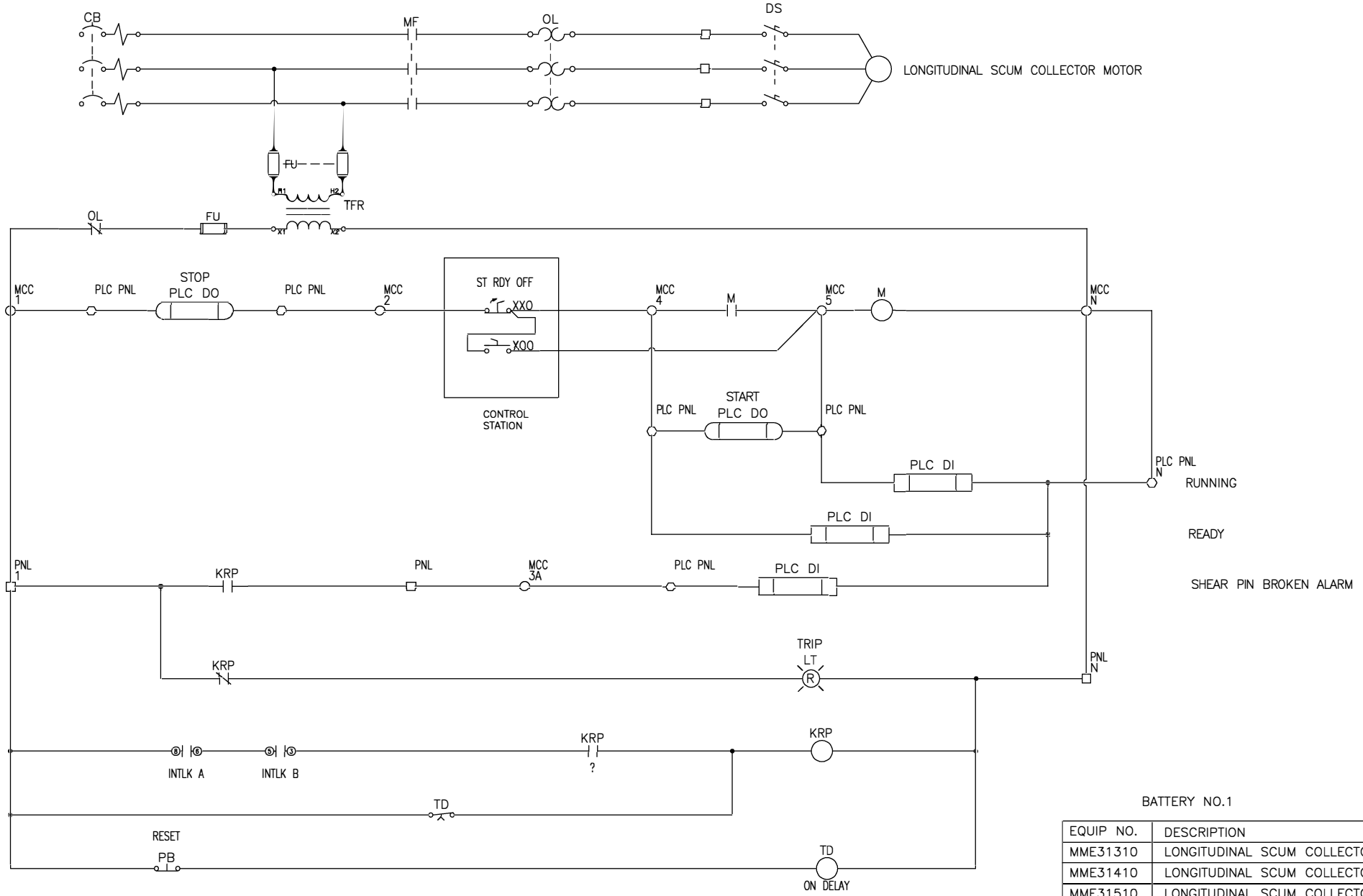
CONTROL AND LOGIC DIAGRAM

PRIMARY SLUDGE PUMPS

SCALE NO SCALE

DRAWING NUMBER 3X1028

SHEET NUMBER 29 OF 46



ALL PLC PANEL TERMINALS SHOWN HERE MUST BE GROUPED TOGETHER TO ACCOMMODATE EXISTING MULTICONDUCTOR MCC WIRING.

BATTERY NO.1

EQUIP NO.	DESCRIPTION
MME31310	LONGITUDINAL SCUM COLLECTOR NO.1
MME31410	LONGITUDINAL SCUM COLLECTOR NO.2
MME31510	LONGITUDINAL SCUM COLLECTOR NO.3

BATTERY NO.2

EQUIP NO.	DESCRIPTION
MME32310	LONGITUDINAL SCUM COLLECTOR NO.4
MME32410	LONGITUDINAL SCUM COLLECTOR NO.5
MME32510	LONGITUDINAL SCUM COLLECTOR NO.6

BATTERY NO.3

EQUIP NO.	DESCRIPTION
MME33310	LONGITUDINAL SCUM COLLECTOR NO.7
MME33410	LONGITUDINAL SCUM COLLECTOR NO.8
MME33510	LONGITUDINAL SCUM COLLECTOR NO.9

BATTERY NO.4

EQUIP NO.	DESCRIPTION
MME34310	LONGITUDINAL SCUM COLLECTOR NO.10
MME34410	LONGITUDINAL SCUM COLLECTOR NO.11
MME34510	LONGITUDINAL SCUM COLLECTOR NO.12



PRIMARY

SUB

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

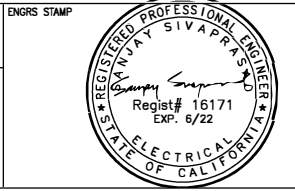
LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE C&LD SCUM C

DRAWN SS

DESIGNED SS

CHECKED SS



SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT

ACC3 RTP I/O REPLACEMENT PROJECT

RFB NO. 8405
CONTRACT NUMBER

CONTROL AND LOGIC DIAGRAM
LONGITUDINAL SCUM COLLECTORS

SCALE
NO SCALE

DRAWING NUMBER
3X1030

SHEET NUMBER
31 OF 46