

 <p><b>McKINLEYVILLE</b> COMMUNITY SERVICES DISTRICT</p>	<p align="center"><b>McKinleyville Community Services District</b></p> <p align="center"><b>Request for Qualifications</b></p> <p align="center"><b>Fischer Sewer Lift Station Seismic Retrofit Project</b></p> <p align="center">Engineering, Environmental Review and Compliance, Permitting, Construction Management, and Grant Program Management</p>
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## Part 1 Invitation

The McKinleyville Community Services District (MCSD or District) through this Request for Qualifications (RFQ) seeks to select a qualified consulting firm (Consultant) to provide engineering, environmental permitting and other consulting services for the retrofit of existing building, pipes, electrical equipment, pumps, motors and motor control center (MCC). Consultants are encouraged to submit a Statement of Qualifications (SOQ) in accordance with the requirements outlined below.

## Part 2 Project Overview

The main objective of this project is to seismically retrofit the existing Fischer Sewer Lift Station, which is the main wastewater station in McKinleyville. The McKinleyville Community Services District's Fischer Sewer Lift Station currently receives all wastewater from the southern half of the District consisting of a population of approximately 9,000 people.

The Fischer Station also collects the overflow from the Hiller Station, that collects flows from another approximately 8,000 people, when the wastewater flows are too high for Hiller to handle or if the Hiller Station were to become disabled from an earthquake or some other reason. The installation of seismic restraints and retrofits to the building as well as the pipes, pumps, motors, and electrical system will result in a seismically resilient station that will greatly mitigate the risks to MCSD's wastewater system as well as human health and the environment.

The wastewater collected at this site is pumped 5,300-feet through a 12-inch pressure main to the Wastewater Management Facility. Currently, the station runs off two 30 hp centrifugal pumps that alternate lead and are backed up by two 100 hp centrifugal pumps to take on high flows when needed. The station and all existing assets, other than the generator, was built in the early 70's and therefore doesn't meet current seismic standards or equipment efficiencies. The generator and automatic transfer switch were recently upgraded along with the addition of a Tesla battery back-up unit and will not need to be upgraded as part of this project. The majority of the rest of the station will require upgrading.

The station and wet well were originally designed to split the power to the building in half so that

the station could operate on two pumps while the other half of the station was down. There currently isn't a pump around option for this site therefore needing to leave the station operable during the construction phase.

The project is being funded in part by a Federal Emergency Management Agency (FEMA) Hazard Mitigation Grant being administered by the California Governor's Office of Emergency Services (Cal OES). Project activities must adhere to the requirements of both federal and state agencies related to the Hazard Mitigation Grant Program, National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA).

The project will be divided into two phases. Phase One activities will include 30% engineering and design as well as geotechnical, and environmental services as detailed in **Attachment A**. This includes seismic and structural engineering analysis of the lift station as well as the design for the retrofit of the pumps, motors, piping and MCC to bring the station up to current seismic and electrical code. The geotechnical study will be required to develop the seismic analysis and geotechnical investigation, including installing borings at four locations to determine subsurface characteristics, to allow the structural engineer to calculate seismic forces and design retrofits for the building. Phase Two activities include those associated with final design, permitting, contractor selection, and construction observation assistance.

There is no Design Build option for this project.

## Part 3 Scope of Services

The Fischer Sewer Lift Station Seismic Retrofit Project will require the Consultant to provide preliminary design, surveying, detailed design, geotechnical investigations, site surveys, environmental review and compliance, CEQA permitting, NPDES permitting, bidding, construction support services, and grant program management as required for the project's Phase One and Phase Two divisions of work. **Attachment A** provides additional detail for the anticipated scope of services.

Note that **Attachment A** is the scope submitted with the Grant. A final scope and fee will be negotiated with the Consultant selected as part of this RFQ process (see Part 6).

## Part 4 SOQ Requirements

### 4.1 SOQ Contents

The SOQ shall include the following items:

1. Table of Contents
2. Cover Letter

Provide a cover letter, maximum length of 2 pages, indicating the Consultant's interest and summary of qualifications. Include Consultant's name, office location and years in operation. Include name and contact information for the officer authorized to represent the firm for any correspondence and negotiations.

3. Project Understanding and Approach

Summarize the Consultant's understanding of the services to be performed and specific challenges that are related to the delivery of the anticipated Scope of Services.

Approach section should include:

- How the Consultant will address the identified project challenges
- Project Management highlighting communication plan, schedule management and how the consultant will integrate the District into the overall process of design
- Quality Assurance and Quality Control approach and procedures

4. Experience and Qualifications of Firm

Describe qualifications of Consultant's firm and specific experience within the last 5 years providing similar services to those anticipated for this project. Include information related to Consultant's firm with state and federal grant funded projects. Provide descriptions (size, type, year, amount, and location) of five similar projects complete with contact information (name, title, phone number, and e-mail address) for each reference project provided.

Provide a project organization chart showing each team member who would be assigned to the project. Identify key team members who Consultant feels would be critical to the success of the project and describe how each will contribute to the project. Provide examples of project assignments in which they have played a similar role.

5. Proposed Project Manager References

Provide a list of no fewer than three references to check the performance of the team member identified as the proposed project manager in the SOQ.

6. Appendices

- a. Resumes: Provide resumes, limited to two pages each, for all key proposed team members who would be assigned to the project.
- b. Professional Services Agreement: A sample of the District's Professional Services Agreement with the additional Federal Contract provisions required is attached to this RFQ (Attachment B). SOQs must include any objections Consultant may have with the District's contract template and provide an explanation of the inability to comply with the required term(s). Submission of a SOQ without objections constitutes Consultant's approval and agreement to execute an agreement in the form of Attachment B.

## 4.2 Page Limit

SOQ shall be limited to a total of 12 pages which shall be numbered in consecutive order. The page limit excludes the SOQ cover, table of contents, cover letter, section dividers, and resumes. SOQs shall be submitted on 8½ by 11 pages only with each double-sided sheet counted as 2 pages.

## 4.3 SOQ Submittal Requirements

Consultants who wish to be considered for selection to provide services for this project must

submit three (3) hard copies of the complete SOQ and a complete electronic pdf version on a flash drive in a sealed envelope and labeled with:

- Submitting firm’s name and address
- “Statement of Qualifications for Engineering Services for MCSD “Fischer Sewer Lift Station Seismic Retrofit Project.”
- SOQ due date and time as specified in the Consultant Selection Schedule below

The sealed SOQ envelope shall be placed in a separate envelope and sent to the following:

Statement of Qualifications for Fischer Sewer Lift Station Seismic Retrofit Project  
 Attn: Patrick Kaspari, General Manager  
 McKinleyville Community Services District  
 1656 Sutter Road  
 McKinleyville, CA 95519

SOQs must be received in the office listed above. SOQs received after the deadline specified in the Consultant Selection Schedule below, regardless of postmark date, will be rejected.

SOQs and materials submitted in response to this RFQ will become the property of the District and will not be returned. The District is not responsible for any costs incurred in the preparation of responses to this RFQ.

#### 4.4 Questions and Addenda

Questions regarding this RFQ must be submitted in writing, by e-mail only, to James Henry, Operations Director, at [jhenry@mckinleyvillecsd.com](mailto:jhenry@mckinleyvillecsd.com) by the deadline shown in the Consultant Selection Schedule below. Questions will be responded to in writing. Written summaries of all questions and answers will be distributed to each consultant. Addendum will be issued, if necessary, and posted to the District’s website.

Site visits are available upon request. Requests shall be in writing via e-mail and directed to James Henry, Operations Director, at [jhenry@mckinleyvillecsd.com](mailto:jhenry@mckinleyvillecsd.com).

## Part 5 Schedule

### 5.1 Project Schedule

The followings is a preliminary schedule for the project:

<b>Event</b>	<b>Date</b>
Notice to Proceed with Phase One	March 7, 2024
Consultant completes Phase One work	January 3, 2025
THE FOLLOWING SCHEDULE IS DEPENDT ON FEMA REVIEW SO IS AN APPROXIMATION	
NEPA review by FEMA	March 2024 through September 2024
Notice to Proceed with Phase Two work	January 2025
Detailed design	January 2025 through December 2025
Bid project	January 2026
Execute construction contract	March 2026

<b>Event</b>	<b>Date</b>
Construction	March 2026 through June 2027
Phase Two final completion	July 2027

The Phase 2 project schedule is subject to review of site surveys and FEMA Environmental and Historic Preservation review, and is also dependent on obligation of Phase Two funding from FEMA and Cal OES.

## 5.2 Consultant Selection Schedule

The following schedule has been established for the Consultant selection process. The District reserves the right, however, to modify this schedule as needed.

<b>Event</b>	<b>Date</b>
Issue RFQ	December 8, 2023
Deadline to submit questions	January 25, 2024 (5:00 p.m.)
Deadline for addenda to be issued	January 31, 2024
Deadline to submit SOQ	February 6 (3:30 p.m.)
Selection Committee review	February 7 to 9, 2024
Notify apparent most qualified Consultant	February 9, 2024
Selected Consultant submits scope of work and fee	February 23, 2024 (5:00 p.m.)
District Board approval of contract	March 6, 2024
Execute Consultant contract	March 7, 2024

## Part 6 Selection, Award, and Contract Negotiation

### 6.1 Selection Process

Consultants are responsible for the completeness of the SOQs submitted. SOQs that do not contain information required by this RFQ may be rejected as non-responsive.

The District will establish a selection committee to review submitted SOQs that have been found to be responsive. The committee will score these SOQs against the stated criteria and weighting described below. SOQs will then be ranked according to score with the apparent most qualified Consultant being the one receiving the highest score.

The District reserves the right to request interviews of the top ranked firms. Should interviews be required, those Consultants participating in the interview process will have their SOQs rescored and the final rankings will be based on those scores.

The District reserves the right to withdraw this RFQ or modify the schedule at any time. The District also makes no representation that a contract will be awarded to any firm responding to this RFQ. The District reserves the right to reject any and all SOQs, to waive irregularities in any SOQ or the RFQ procedure and to be the sole judge of responsiveness to this RFQ.

## 6.2 Selection Criteria

The District's selection committee will score responsive SOQs according to the following criteria:

<b>Criteria</b>	<b>Points Possible</b>
1. Understanding of the project and proposed approach	25
2. Qualifications and experience on similar projects	25
3. Key personnel qualifications	20
4. Project manager references	15
5. Experience with federal grant funded projects	15
Total Points Possible	100

## 6.3 Contract Negotiation

Once a tentative selection has been made by the selection committee, the District will attempt to negotiate a contract with the selected Consultant. If the negotiations are not successful, the District will terminate negotiations with the selected Consultant and will begin to negotiate with other qualified consultants in the order of their respective SOQ ranking (from highest to lowest) until an agreement is reached, or the District decides to terminate the selection process.

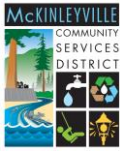
## Part 7 Attachments

Attachment A: Scope of Services from Hazard Mitigation Grant Application

Attachment B: Professional Services Agreement and Federal Contract Provisions

Attachment C: Supporting Documents

**Attachment A:**  
**Scope of Services from Hazard  
Mitigation Grant Application**



## **MCSD Fischer Lift Station Seismic Retrofit Project – Scope of Work**

The mitigation goals and objectives of the proposed project are to reduce the risk of loss of wastewater services to a significant portion of the community of McKinleyville, CA in the case of a large seismic event. The main objective of this project is to seismically retrofit the existing Fischer Lift Station, which is the main wastewater station in McKinleyville. The McKinleyville Community Services District (MCSD or District) Fischer Lift Station currently receives all wastewater from the southern half of the District including a population of 8,000 people. The Fischer Station also collects the overflow from the Hiller Station, that collects flows from another 9,000 people, when the wastewater flows are too high for Hiller to handle or if Hiller Station were to become disabled from an earthquake or some other reason. The installation of seismic restraints and retrofits to the building as well as the pipes, pumps, motors, and electrical system will result in a seismically resilient station that will greatly mitigate the risks to MCSD's wastewater system as well as human health and the environment. The project will be broken into two Phases (1 and 2). The District will develop a request for qualifications (RFQ) and/or request for proposals (RFP) for surveying, geotechnical, environmental, engineering and construction services and select qualified firms based on a competitive process.

### **Phase 1**

Phase 1 will consist of a the development of the Request for Qualifications (RFQ) for professional services required to complete the project, the procurement of those services, a Geotechnical analysis, structural analysis, engineering design, and special studies to facilitate the NEPA/CEQA processes, and completion of the CEQA document and any other necessary permits.

#### Development for Request for Qualifications and Procurement of Professional Consulting Services

The District will prepare a Request for Qualification (RFQ) for the procurement of design services. This will include the Geotechnical Engineer, the Structural Engineer, the Civil, Electrical and Mechanical Engineers required for the preparation of the design documents and studies. An environmental consulting firm will also be required to perform the Special Studies necessary for the completion of the NEPA/CEQA documents, as well as to complete the necessary CEQA document. The District will prepare and circulate the RFQ, review and rank the Statements of Qualifications obtained in response to the RFQ, negotiate the scope, fee and schedule with the highest ranked firm(s) and award the contract for the performance of the remaining Phase 1 and Phase 2 tasks, with the exception of the construction services.

#### Geotechnical Investigation

The seismic/structural analysis will require information on the soil under the site to finalize the design and calculated seismic forces during a design earthquake. A geotechnical firm will be contracted with to collect this information and prepare a geotechnical report for use in the final design. The geotechnical firm will install borings at two to four locations on the site to determine the characteristics of the subsurface and allow the structural engineer to calculate seismic forces and design retrofits for the building and other project components. The geotechnical firm will mark the boring locations for a USA North 811 alert. They will also obtain Humboldt County boring and encroachment permits. They will then drill, log, and sample up to four test borings to 25 feet below ground surface (bgs). The drilling contractor will advance the borings with a rubber-tired, truck-mounted drill rig using 6- to 8-inch-diameter hollow and/or solid stem



augers. Soil samples will be collected at a minimum of 5-foot intervals and will be tested to obtain the data required for the project design. They will also prepare a Geotechnical Report that will include a narrative of the scope of work; project description; subsurface soil; groundwater conditions; laboratory results; recommendations for seismic design including soil lateral pressure, composite soil modulus, soil types, groundwater considerations, and skin friction and passive resistance for thrust restraint design; a discussion of soil resistance; limitations; vicinity map; geologic map; fault map; site plan with boring locations; and boring logs with laboratory test results.

### Engineering Design

The mitigation project involves the retrofit of the existing building, pipes, electrical equipment, pumps and motors. The building will be evaluated by a structural engineer and designs will be prepared to retrofit it to bring it up to current seismic code. The existing electrical controls, panels, motor control center and wiring are also not up to code and will likely need to be replaced in their entirety to conform to current code and reduce fire risks in the event of an earthquake. Pumps and motors will also be replaced and will be seismically restrained along with the associated piping to conform to the current electrical and seismic codes and seismic isolation and restrained joints added to help ensure they perform better in the event of an earthquake.

Under this task, the selected Engineer will perform the final seismic and design analysis and will prepare final design documents and associated technical specifications for the proposed project. The initial report will consist of a structural analysis by a structural engineer to detail the basis of design for the upgrade of the existing facility as well as the restraints required for the pumps, pipes, etc. The final general design will consist of completing drawings showing project location and vicinity, general project notes, design criteria, legends, and abbreviations. An opinion of probable construction cost will also be prepared under this subtask.

The final civil, structural, mechanical and electrical engineering designs will consist of drawings for civil & structural details, electrical single line drawings as well as details, site demolition, seismic retrofit details, pipe installation and restraint details, piping plan and profiles, pump & motor installation and seismic restraint details, valve details, seismic pipe joint details, thrust block details, paving details, electrical single line drawings, MCC details, etc. Technical specifications consisting of those for demolition, earthwork, paving, piping, pumps, motors, valves, manholes, electrical conduit, electrical wires, MCC, etc. will be prepared.

Document preparation and review for final design will consist of preparing submittal documents for review and comment by the District, conducting 4-hour design review meetings and incorporating review comments received from the District. Design documents and review meetings will be provided at the 60% and 90% completion levels. Final bid documents will be prepared after incorporating District comments on the 90% design submittal package.

The design will also consist of the preparation of the Engineer's Opinion of Probable Construction Costs. Costs will be prepared at the 60%, 90%, and 100% levels. The costs developed will be used to update the Cost Benefit Analysis to ensure the project is still cost effective.

Deliverables will consist of hard copies and electronic copy of the detailed design drawings and specifications provided at the 60% and 90% completion levels. An opinion of probable construction cost will be provided at the 60% and 90% completion levels.

### NEPA/ CEQA Special Studies

The construction of the project will likely be limited to the footprint of the existing Fischer Lift Station. The new equipment will take up approximately the same area as the existing equipment, so should fit in the existing building. Connections will be made to the existing plumbing and pressure mains. The laydown areas will also be confined to the paved area within the fencing for the existing Lift Station. Given that the work will occur within the existing disturbed areas, it is anticipated that this project will have minimal to no environmental impacts. To help ensure that, and to allow for the completion of the National Environmental Protection Act (NEPA) analysis as well as the California Environmental Quality Act (CEQA) the necessary Special Studies will be completed as part of Phase 1. The Special Studies shall include biological (wetlands and other natural resources), cultural resources, and Phase 1 environmental studies. The cultural resources investigation will include pre-field research, a field survey, consultation with the Native American Heritage Commission, and outreach to local Native American tribes (separate from AB 52 consultation). A letter will also be sent out to all the local Tribal Historic Preservation Officers (THPOs) detailing the project in conformance with the AB 52 consultation process.

These studies will be submitted to FEMA/CalOES to allow them to complete the NEPA analysis. It is anticipated that the NEPA analysis will result in a Finding of No Significant Impact and the CEQA analysis will result in a Notice of Exemption as the work will fit into a Categorical Exemption for retrofit of existing facilities.

### Permitting/CEQA

The level of CEQA environmental document that will be required for this project is not certain at this time; however, the replacement of existing infrastructure is typically categorically exempt from CEQA and can be addressed with a Notice of Exemption (NOE). The scope and cost estimate for this task assume that an Initial Study (IS) and a Mitigated Negative Declaration (MND) with an associated Mitigation Monitoring & Reporting Plan (MMRP) will not be required for this project, and that an NOE will be sufficient to satisfy CEQA. A NOE will be prepared using Humboldt County's current form. The District will file the NOE with the County and pay all associated filing fees. The District Board will then adopt the NOE at a regularly scheduled Board meeting.

The District is not required to obtain Building Permits for water & wastewater facilities, so will not need to for this project. The size of the project, and the fact that it is contained within the footprint of the existing lift station will also preclude the need for a grading or NPDES permit. However, the District will confirm this prior to issuing the project for construction.

## **PHASE 2**

After FEMA completes NEPA and full project funding is released, Phase 2 will include the release of the Construction Bid Documents for bid, construction of the project and the final grant closeout.

### Advertise for Bids/ Issue Notice to Proceed

Upon approval of the Phase 2 costs, the project will be let out for bid, and a construction contractor will be selected via a bid process in conformance with State and Federal requirements. After design is complete, the Engineer will provide bid period assistance and will organize and lead a pre-bid meeting with the Engineer, the District and contractors interested in bidding on the project. The Engineer will prepare pre-bid summary meeting notes and issue them as a Bid Addendum. The Engineer will also assist the District

in answering bidder questions and prepare addenda to clarify, correct, or change the bidding documents. The District and Engineer will then evaluate the bids that are submitted, preparing a bid tabulation, and make recommendations to the District Board for awarding the construction contract for the project.

### Construction

Construction will be overseen by the selected engineering firm, and they will be responsible for ensuring compliance with contract documents, measuring quantities, approving pay requests, responding to requests for information, processing contract change orders, and documenting the construction for the final reports. Construction of this project will involve the installation of seismic retrofits for the existing building, pipes, electrical equipment, pumps and motors. The building will be evaluated by a structural engineer and designs prepared to retrofit it to bring it up to current seismic code. It is anticipated that seismic ties will be installed on the building rafters to tie them to the concrete block walls. The walls will also be tied more fully to the existing slab with ties. The reinforcement in the concrete block walls will also be further evaluated to assess whether they are up to seismic code. If not, additional reinforcement will be added.

The existing electrical controls, panels, motor control center and wiring are also not up to code and will likely need to be replaced in their entirety to conform to current code and reduce fire risks in the event of an earthquake. Pumps and motors will also be replaced and will be seismically restrained along with the associated piping to conform to the current electrical and seismic codes. The new equipment will take up approximately the same area as the existing equipment. Connections will be made to the existing plumbing and pressure mains and will follow current building codes to help mitigate risks from future seismic events.

The existing pumps and motors will be taken down one at a time, and the pump and motor installed, similarly one at a time. This will help to ensure that the wastewater pumping will not be interrupted. The building, pump, motor and MCC installation and foundations will be designed and constructed to current building code standards, helping to ensure they remain in service in the event of a large earthquake

Gasoline/diesel equipment to be used will likely include small trucks, a boom truck, a manlift, possibly a backhoe, and other miscellaneous construction equipment. Minor demolition of concrete and/or asphalt surfaces may be required, as well as removal of existing pipes, pumps, motors and electrical equipment. As much of the demolition debris will be recycled as possible.

### Grant Close-Out

Final project reports will be prepared including as-built drawings, photographic documentation of the work progress and documentation of final construction contracting and change orders. These reports will be submitted to CalOES for project closeout.

**Attachment B and B.1  
Professional Services  
Agreement  
and  
Federal Contract Provisions**

McKinleyville Community Services District  
PO Box 2037, McKinleyville California 95519  
Telephone (707) 839-3251 - FAX (707) 839-8456

Professional Services Agreement

This Professional Services Agreement (this "Agreement") is made and entered between the parties listed below as of the date(s) set forth below. For your protection, make sure that you read and understand all provisions before signing. The terms recited as sections a through u on Pages 3 through 7 are incorporated in this document and, along with this page, constitute material terms and conditions of the Agreement between the parties.

TO: \_\_\_\_\_ DATE: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ Agreement No. \_\_\_\_\_

The undersigned Consultant offers to furnish the following services (the "Services"):

As described in the proposal submitted by Consultant dated DATE HERE, which is attached hereto as **Exhibit A** and incorporated herein by reference. The Services shall be provided on a time and materials basis not to exceed the amounts described in **Exhibit B**, which is attached hereto and incorporated herein by reference. The scope of work for this project includes the following:

Contract Price: Not To Exceed \$ \_\_\_\_\_  
Payment Intervals Monthly \_\_\_\_\_  
Completion Date \_\_\_\_\_

Instructions: Sign and return original. Upon acceptance by McKinleyville Community Services District, a copy will be signed by its authorized representative and promptly returned to you. Insert below, the names of your authorized representative(s).

Accepted: McKinleyville CSD

Consultant:

\_\_\_\_\_  
(Business Name)

By Patrick Kaspari

By \_\_\_\_\_

Title General Manager

Title \_\_\_\_\_

Other authorized representative(s):

Other authorized representative(s):

\_\_\_\_\_

\_\_\_\_\_

Consultant agrees with McKinleyville Community Services District that:

- a. **Indemnification.** To the fullest extent permitted by law and consistent with California Civil Code §2782.8(a), Consultant will, indemnify, defend, and hold harmless McKinleyville Community Services District, its directors, officers, employees, and authorized volunteers (collectively "District") from and against all claims, demands and damages of all persons and entities that arise out of the Consultant's negligent acts or omissions, recklessness, or willful misconduct in the performance (or non-performance) of the Services under this Agreement. Consultant shall not be obligated to defend or indemnify the District from and against all claims, demands and damages that arise out of, pertain to, or relate to the District's own negligent acts or omissions, recklessness, or willful misconduct or the negligent acts or omissions, recklessness, or willful misconduct of others.
- b. **Standard of Care.** In providing the Services under this Agreement, Consultant shall exercise that degree of skill and care ordinarily used by other reputable members of Consultant's profession, practicing in the same or similar locality and under similar circumstances.
- c. **Workers Compensation Insurance.** By his/her signature hereunder, Consultant certifies that he/she is aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and that Consultant will comply with such provisions before commencing the performance of the professional services and work under this Agreement. Consultant and sub-consultants will keep workers' compensation insurance for their employees in effect during all Services covered by this Agreement.
- d. **Professional Liability Insurance.** Consultant will file with McKinleyville Community Services District, before beginning professional services, a certificate of insurance satisfactory to the McKinleyville Community Services District evidencing professional liability coverage of not less than \$1,000,000 per claim and annual aggregate, requiring 30 days notice of cancellation (10 days for non-payment of premium) to McKinleyville Community Services District. Coverage is to be placed with a carrier with an A.M. Best rating of no less than A-:VII, or equivalent, or as otherwise approved by McKinleyville Community Services District. The retroactive date (if any) is to be no later than the effective date of this Agreement. Consultant shall maintain such coverage continuously for a period of at least three years after the completion of the contract Services. Consultant shall purchase a one-year extended reporting period i) if the retroactive date is advanced past the effective date of this Agreement; ii) if the policy is canceled or not renewed; or iii) if the policy is replaced by another claims-made policy with a retroactive date subsequent to the effective date of this Agreement. In the event that the Consultant employs other consultants (sub-consultants) as part of the Services covered by this Agreement, it shall be the Consultant's responsibility to require and confirm that each sub-consultant provides insurance coverage deemed appropriate by Consultant for the role of the subconsultant under this contract.
- e. **Insurance Certificates.** Consultant will file with McKinleyville Community Services District, before beginning professional services, certificates of insurance satisfactory to McKinleyville Community Services District evidencing general liability coverage of not less than \$1,000,000 per occurrence (\$2,000,000 general and products-completed

operations aggregate (if used)) for bodily injury, personal injury and property damage; auto liability of at least \$1,000,000 for bodily injury and property damage each accident limit; workers' compensation (statutory limits) and employer's liability requiring 30 days (10 days for non-payment of premium) notice of cancellation to McKinleyville Community Services District. The general liability coverage is to state or be endorsed to state "such insurance shall be primary and any insurance, self-insurance or other coverage maintained by McKinleyville Community Services District, its directors, officers, employees, or authorized volunteers shall not contribute to it". The general liability coverage shall give McKinleyville Community Services District, its directors, officers, employees, and authorized volunteers insured status using ISO endorsement CG2010, CG2033, or equivalent. Coverage is to be placed with a carrier with an A.M. Best rating of no less than A- :VII, or equivalent, or as otherwise approved by McKinleyville Community Services District. In the event that the Consultant employs other consultants (sub-consultants) as part of the Services covered by this Agreement, it shall be the Consultant's responsibility to require and confirm that each sub-consultant has in place levels of insurance deemed appropriate by the Consultant for the risk associated with the role of each subconsultant under this contract.

- f. **Renewal Certificates.** If any of the required coverages expire during the term of this Agreement, the Consultant shall deliver the renewal certificate(s) including the general liability additional insured endorsement to McKinleyville Community Services District at least ten (10) days prior to the expiration date.
- g. **General Manager Authority.** Consultant shall not accept direction or orders from any person other than the General Manager or the person(s) whose name(s) is (are) inserted on Page 1 as "other authorized representative(s)" on behalf of McKinleyville Community Services District.
- h. **Payment Intervals.** Payment, unless otherwise specified on Page 1, is to be 30 days after acceptance of a written invoice by McKinleyville Community Services District.
- i. **Permits and Licenses.** Permits and licenses required by governmental authorities in connection with Consultant's services will be obtained at Consultant's sole cost and expense, and Consultant will comply with applicable local, state, and federal regulations and statutes including Cal/OSHA requirements.
- j. **Amendments and Modifications.** Any change in the scope of the professional Services to be done, method of performance, nature of materials, work provided or price thereof, or to any other matter materially affecting the performance or nature of the Services will not be paid for or accepted unless such change, addition or deletion is approved in advance, in writing by a supplemental Agreement executed by McKinleyville Community Services District. Consultant's "authorized representative(s)" has (have) the authority to execute such written change for Consultant.
- k. **Representations.** Consultant represents that it is now, and will remain for the duration of its Services, properly licensed, qualified, experienced, and equipped to perform the Services. Consultant also represents that the Services shall be completed in accordance with this Agreement. Consultant further represents that the Services and the sale or use of the Services shall not infringe, directly or indirectly, on any valid patent, copyright or trademark, and Consultant shall, at Consultant's sole cost and expense, indemnify, and hold harmless McKinleyville Community Services District from and against any and all



claims and causes of action based on infringements thereof. These representations shall survive the expiration or termination of this Agreement, and are in addition to any warranties provided by law. No payment to Consultant for any Services performed hereunder (including, without limitation, final payment) shall constitute a waiver of any Claims by McKinleyville Community Services District against Consultant relating to the Services.

- l. **Ownership of Drawings and Samples.** Consultant shall submit promptly for all drawings, details, samples and other data required or specifically requested by McKinleyville Community Services District in connection with provision of the Services, and such drawings, details, samples and other data created in connection with performance of the Services and provision of the work shall constitute the property of the McKinleyville Community Services District.
- m. **Compliance with Law/Safety.** In performance of the Services, Consultant shall, at its expense, exercise due professional care, comply strictly with, and cause all sub-consultants to comply strictly with, all laws, orders, rules and regulations of governmental authorities, including those relating to the storage, use or disposal of hazardous wastes, substances or materials, and including the procurement and payment for all necessary permits, certificates and licenses required in connection with the Services. If either Consultant or McKinleyville Community Services District receives notice of any violation by Consultant of any laws relating to Consultant or McKinleyville Community Services District receives notice of any violation by Consultant of any laws relating to Consultant's (or sub-consultants) services or work provided hereunder, such party shall promptly inform the other party in writing of the existence thereof. Consultant shall comply with all applicable laws relating to safety, including without limitation the Occupational Safety and Health Act of 1970 as it may be amended from time to time, and all regulations and standards issued pursuant thereto. Consultant shall conform to the current prevailing standards of safety practice.
- n. **Equal Opportunity.** In the performance of the Services there shall be no discrimination on account of race, religion, sex, sexual orientation, age or national origin and Consultant shall comply with applicable federal, state and local laws and regulations pertaining to fair employment practices, including without limitation the provisions of Executive Order 11246 as amended by the President of the United States and the rules and regulations issued pursuant thereto, unless exempted.
- o. **Termination.** McKinleyville Community Services District may, at its option, terminate this Agreement without cause at any time. If at the time of any such termination, any Services have already been provided by Consultant but are unpaid for, McKinleyville Community Services District's only obligation, if Consultant is not in default, shall be to pay for such Services actually provided by Consultant prior to the date of termination. Upon receipt of notice of termination, Consultant shall immediately stop all performance hereunder except as otherwise directed by McKinleyville Community Services District, and if Consultant is not in default, McKinleyville Community Services District shall pay to Consultant (a) the prorata portion of the agreed price based on the percentage completion of the Services which was satisfactorily completed at the time of termination, and (b) the actual net costs incurred by Consultant directly connected with the Services that was not completed prior to the date of termination; provided, however, that under no circumstances shall the total under (a) and (b) exceed the contract price stated on page one (1) of this Agreement, above. Upon such payment, title to any such items or uncompleted Services shall, at McKinleyville Community Services District's option, pass to McKinleyville Community Services District.

- p. **Default.** Upon any default by Consultant hereunder, or in the event of proceedings by or against Consultant in bankruptcy or for the appointment of a receiver or trustee or an assignment for the benefit of creditors, McKinleyville Community Services District may, at its option, terminate this Agreement without penalty or liability (except for payment for any Services completed and accepted by McKinleyville Community Services District). Consultant shall be liable to McKinleyville Community Services District for all expenses incurred by McKinleyville Community Services District in finishing the Services and any damage incurred through any default, which at the option of McKinleyville Community Services District, may be charged against any amounts due from McKinleyville Community Services District to Consultant hereunder, but Consultant's liability hereunder shall not be limited thereby and such liability shall survive the expiration or termination of this Agreement. Any remedies provided for in this Agreement are cumulative and shall be in addition to, and not in limitation of, any other rights and remedies that may be available at law or in equity. Neither party shall be in default of this Agreement until such party has received three (3) days written notification (except in the instance of a health or safety concern, in which case failure to immediately remediate the health or safety violation shall be grounds to declare a default of this Agreement), and an opportunity to cure, or in the case of an alleged default which requires more than three (3) days to cure, a reasonable time so long as the alleged defaulting party commences the remediation of the default immediately, and thereafter diligently prosecutes the same to completion.
- q. **Notices.** Notices, requests, demands, and other communications hereunder shall be in writing and delivered personally, sent by reputable overnight courier or mailed by first class, United States mail, with postage prepaid, to McKinleyville Community Services District, **PO Box 2037, McKinleyville California 95519, Attention: Patrick Kaspari**, and to Consultant at the address set forth below its signature, or at any other address that may be given by either party to the other in the manner provided above. Notices delivered personally or sent by overnight courier shall be deemed delivered upon receipt. Notices delivered by mail shall be deemed delivered upon the earlier of (i) receipt or (ii) the date five (5) U.S. mail delivery days after the notice was placed in the United States mail as provided above.
- r. **Headings.** All section headings are provided for convenience only, and shall not be deemed to constitute material terms and conditions of this Agreement.
- s. **Interpretation.** Both Consultant and McKinleyville Community Services District are deemed to have jointly participated in the negotiation and preparation of this Agreement. Consequently, both Consultant and McKinleyville Community Services District are considered to have drafted this Agreement in equal parts and, if any ambiguity is found to exist, all rules of law and evidence requiring ambiguities to be interpreted to the detriment of the drafting party shall not apply.
- t. **Attorneys Fees and Venue for Disputes.** If litigation becomes necessary to enforce the terms and provisions of this Agreement or as a result of any breach by Consultant or District of this Agreement, the prevailing party in any such litigation shall be entitled to recover reasonable attorney's fees and costs. The Humboldt County Superior Court for the State of California shall have exclusive jurisdiction over any dispute arising out of this Agreement or Consultant's provision of Services hereunder, and shall serve as the venue for any such dispute. All parties expressly consent to this designation of jurisdiction and venue.

- u. **MUTUAL UNDERSTANDING OF SERVICES.** McKinleyville Community Services District and Consultant agree that the purpose of value engineering is the identification and presentation of recommendations for improvement of project or process value, for consideration by the McKinleyville Community Services District and their other professional advisors. Both parties understand that as a part of these services, Consultant does no design work and makes no project decisions. McKinleyville Community Services District and Consultant agree that Consultant will be liable to the McKinleyville Community Services District only for damages arising from Consultant's negligence in the performance of the Value Analysis or Value Engineering work itself, and only to the extent that such negligence directly damages the McKinleyville Community Services District.

**PHYSICAL ADDRESS:**

1656 SUTTER ROAD  
McKINLEYVILLE, CA 95519

**MAILING ADDRESS:**

P.O. BOX 2037  
McKINLEYVILLE, CA 95519

**MAIN OFFICE:**

PHONE: (707) 839-3251  
FAX: (707) 839-8456

**PARKS & RECREATION OFFICE:**

PHONE: (707) 839-9003  
FAX: (707) 839-5964

**AMENDMENT to  
MCKINLEYVILLE COMMUNITY SERVICES DISTRICT CONTRACT  
WITH \_\_\_\_\_ (FEDERAL CONTRACT PROVISIONS)**

Amendment to Agreement Number \_\_\_\_\_ dated \_\_\_\_\_ between McKinleyville Community Services District (Client or District) and \_\_\_\_\_ (Consultant) (the "Contract"), regarding the following identified project:

Project: \_\_\_\_\_ (the "Project")

The Project is funded in part with Federal financial assistance and therefore requires inclusion of certain contract provisions pursuant to Title 2 Code of Federal Regulations ("C.F.R."), Part 200. These include: a) Debarment and Suspension provisions, b) Byrd Anti-Lobbying and Certification Act provisions and compliance, and c) Clean Air Act and Federal Water Pollution Control Act compliance acknowledgement provisions.

Consequently, the Contract is amended to include the following terms and conditions as material terms thereof:

1. **Debarment and Suspension:** This Contract is a covered transaction for purposes of Title 2 C.F.R. Part 180 and 2 C.F.R. Part 3000. As such, the Consultant is required to verify that none of the Consultant's principals (defined at 2 C.F.R. § 180.995) or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935) to perform work under this Contract in accord with said provisions.

When performing this Contract the Consultant must comply with 2 C.F.R. Part 180, subpart C and 2 C.F.R. Part 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier covered subcontract or related transaction it enters into.

This certification is a material representation of fact relied upon by the McKinleyville Community Services District. If it is later determined that the Consultant did not comply with 2 C.F.R. Part 180, subpart C and 2 C.F.R. Part 3000, subpart C, in addition to remedies available to Client, the federal government may pursue available remedies, including but not limited to suspension and/or debarment.

The Consultant agrees to comply with the requirements of 2 C.F.R. Part 180, subpart C and 2 C.F.R. Part 3000, subpart C throughout the term of the contract. The Consultant further agrees to include a provision requiring such compliance in its lower tier covered subcontracts and transactions.

2. **Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352 (as amended):** The Consultant and their subcontractors with subcontracts in excess of \$100,000 shall file the anti-lobbying certification required by 31 U.S.C. § 1352 (as amended). Consultant and each tier subcontractor

shall certify to the tier above that it will not and has not used federally appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, officer or employee of Congress, or an employee of a Member of Congress in connection with obtaining any federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-federal funds that takes place in connection with obtaining any federal award. Such disclosures shall be forwarded from tier to tier up to the Consultant who in turn will forward the certification(s) to the District to forward to the federal awarding agency. Consultant will complete and return a certification in the following form:

### **Certification for Contracts, Grants, Loans, and Cooperative Agreements**

The undersigned certifies, to the best of his or her knowledge and belief, that:

No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.

If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, Title 31, U.S.C. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, \_\_\_\_\_, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chap. 38,

Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.

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Signature of Contractor's Authorized Official

---

Name and Title of Contractor's Authorized Official

3. Clean Air Act: The Consultant agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 *et seq.*

The Consultant agrees to report each violation to the Client and understands and agrees that the Client will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency (FEMA), and the appropriate Environmental Protection Agency Regional Office.

The Consultant agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with federal assistance provided by FEMA.

4. Federal Water Pollution Control Act: The Consultant agrees to comply with all applicable standards, orders, or regulations issued pursuant to the federal Water Pollution Control Act, as amended, 33 U.S.C. § 1251 *et seq.*

The Consultant agrees to report each violation to the Client and understands and agrees that the Client will, in turn, report each violation as required to assure notification to the California Office of Emergency Services, Federal Emergency Management Agency (FEMA), and the appropriate Environmental Protection Agency Regional Office.

The Consultant agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with federal assistance provided by FEMA.

All other provisions specified in the original Contract including previous amendments are in effect and the Contract shall hereinafter be read and interpreted as if the terms and conditions recited in this Amendment are included therein.

IN WITNESS WHEREOF, the parties hereby execute this Amendment upon the terms and conditions stated above as of the date(s) set forth below.

McKinleyville Community Services District

Consultant: \_\_\_\_\_

By: \_\_\_\_\_

Print Name: Patrick Kaspari

Title: General Manager

Date: \_\_\_\_\_

By: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

# **Attachment C: Support Documents**



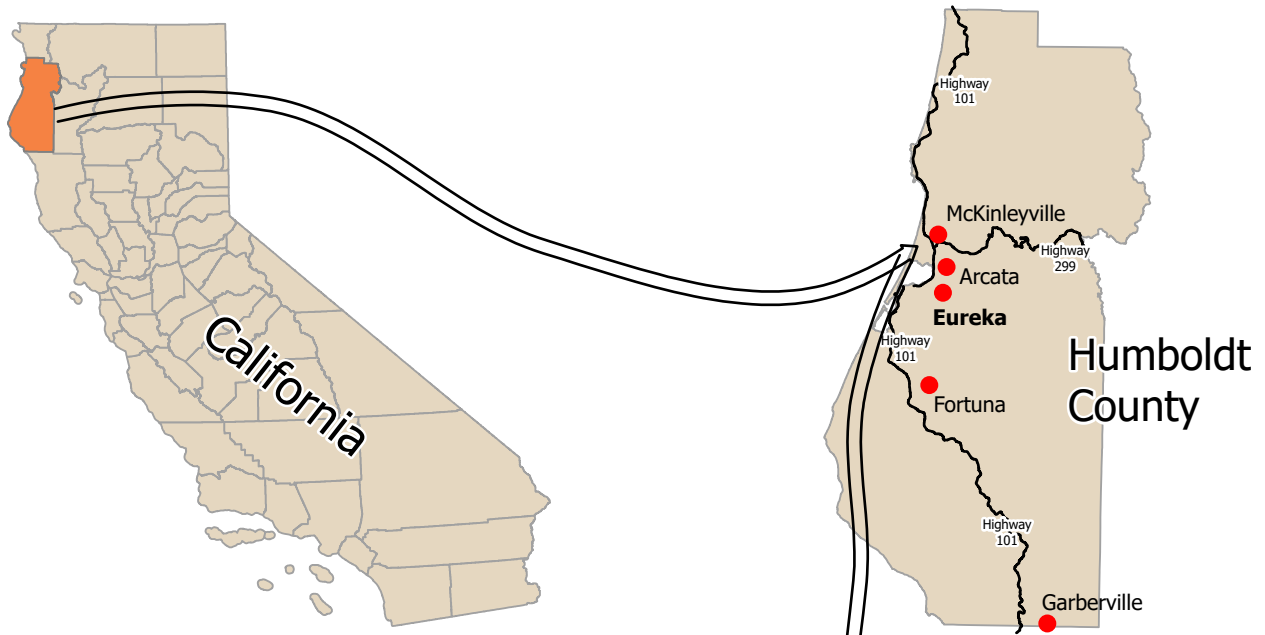


Figure - 1  
Vicinity Map

# McKinleyville Community Services District Fischer Rd Sewer Lift Station

Seismic Retrofit  
Fischer Sewer  
Lift Station

January 2022







Figure - 2  
Site Map

**McKinleyville Community  
Services District  
Fischer Road Sewer Lift Station**

Seismic Retrofit  
Fischer Sewer  
Lift Station

January 2022







Photo 1: West Side of Fischer Station Building.



Photo 2: Interior West Side – Motor Control Center (MCC) & motors mounted on ground floor base which connects to pumps below in dry well.

## Site Photographs



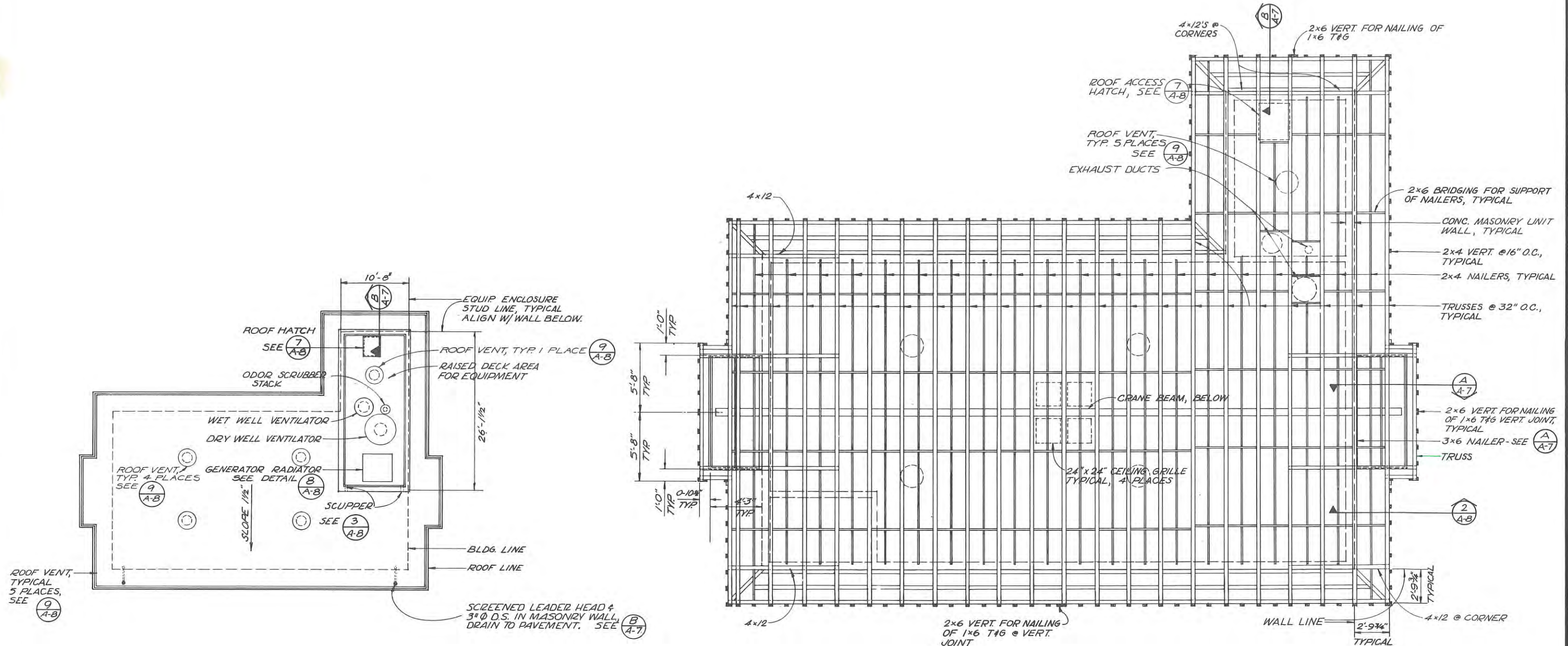
Photo 3: Pumps down in dry well, below ground floor.



Photo 4: Suction piping, pumps, and isolation valves.

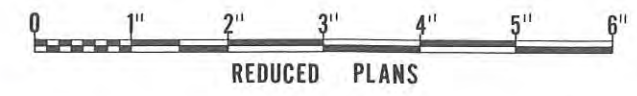
## Site Photographs





ROOF PLAN  
1/8" = 1'-0"

ROOF FRAMING PLAN  
1/4" = 1'-0"



NO.	DATE	REVISIONS	BY	APPR.



DSGN	NP & RP	CHKD	NP & RP
DRWn	RP & BBA	SCALE	AS SHOWN
Designed by	<i>Ph. B. Kelly</i>	DATE	11/1/76
Checked by	<i>R. F. Kelly</i>	DATE	11/5/76

**WINZLER & KELLY**  
CONSULTING ENGINEERS  
633 3RD ST. EUREKA, CALIFORNIA (707) 443-8328

---

KELLY & PENFOLD  
PROFESSIONAL SURVEYORS & ENGINEERS  
3240 MOORE AVE. EUREKA, CALIF.



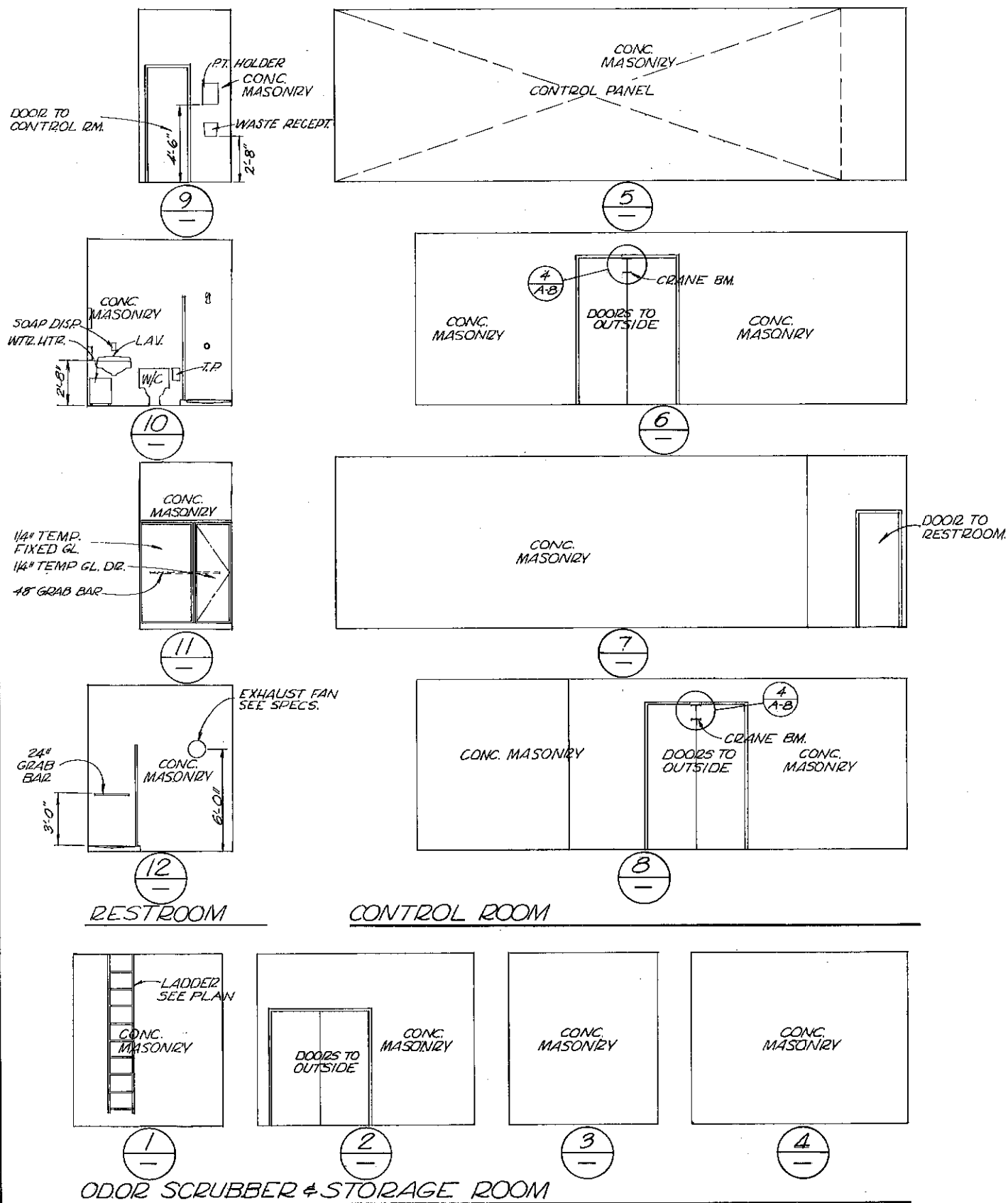
HUMBOLDT BAY WASTEWATER AUTHORITY  
Wastewater Project

WASHINGTON ST. SEWAGE PUMP STATION

**ROOF AND ROOF FRAMING PLAN**

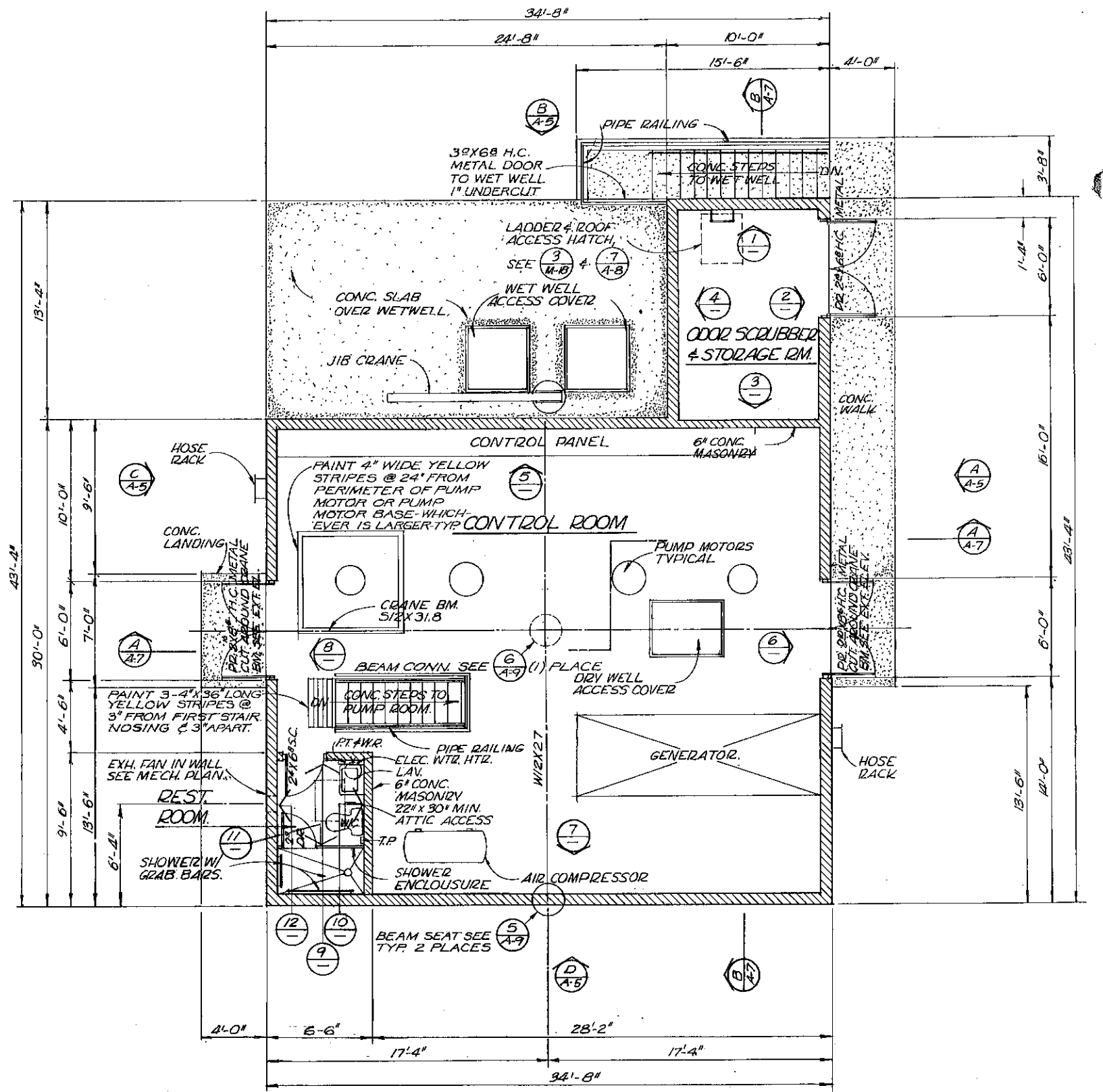
ARCHITECTURAL

JOB NO. 76-046  
SHEET A-3



INTERIOR ELEVATIONS

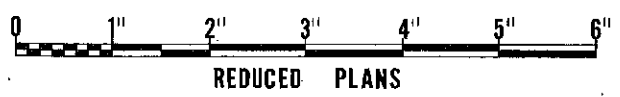
1/4" = 1'-0"



FLOOR PLAN

1/4" = 1'-0"

NOTES:  
 ALL FINISHED FLOORS ARE CONCRETE  
 ABBREVIATIONS: SEE SHEET A-1  
 SEE SITE PLANS FOR FLOOR ELEVATIONS



REDUCED PLANS

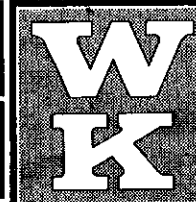
NO.	DATE	REVISIONS	BY	APPR.



DSGN	NP & RP	CHKD	NP & RP
DRWN	RP & BA	SCALE	1/4" = 1'-0"
APPROVED	<i>Mark B. Penfold</i>	DATE	1/27/76
APPROVED	<i>R. Kelly</i>	DATE	1/27/76

**WINZLER & KELLY**  
 CONSULTING ENGINEERS  
 623 3RD ST. EUREKA, CALIFORNIA (707) 443-8226

**KELLY & PENFOLD**  
 PROFESSIONAL SURVEYORS & ENGINEERS  
 3240 MOORE AVE. EUREKA, CALIF.



HUMBOLDT BAY WASTEWATER AUTHORITY  
 Wastewater Project

MCKINLEYVILLE, ARCATA, HILL ST.,  
 MCCULLEN ST., SEWAGE PUMP STATIONS

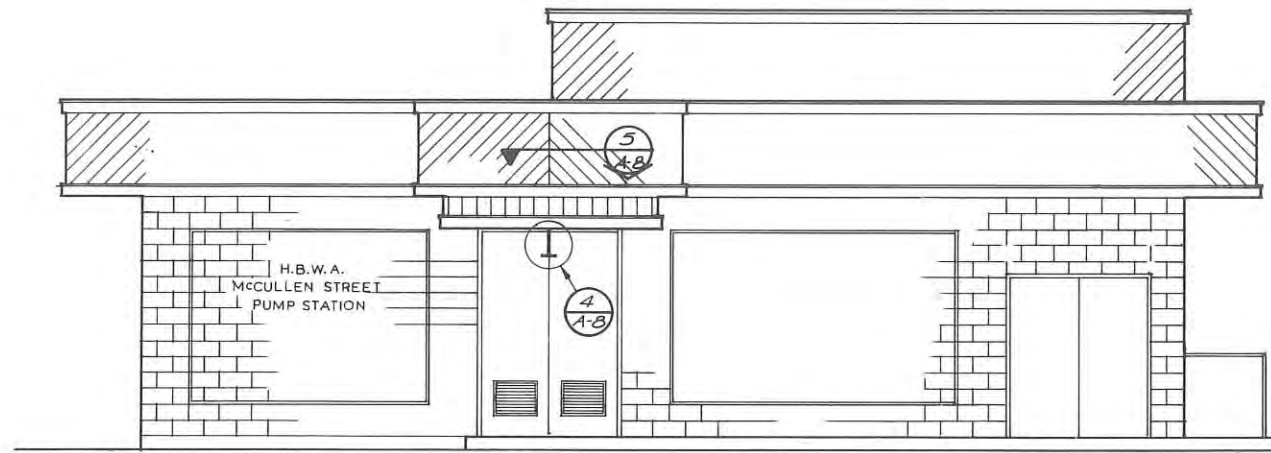
**FLOOR PLAN AND INTR. ELS.**

ARCHITECTURAL

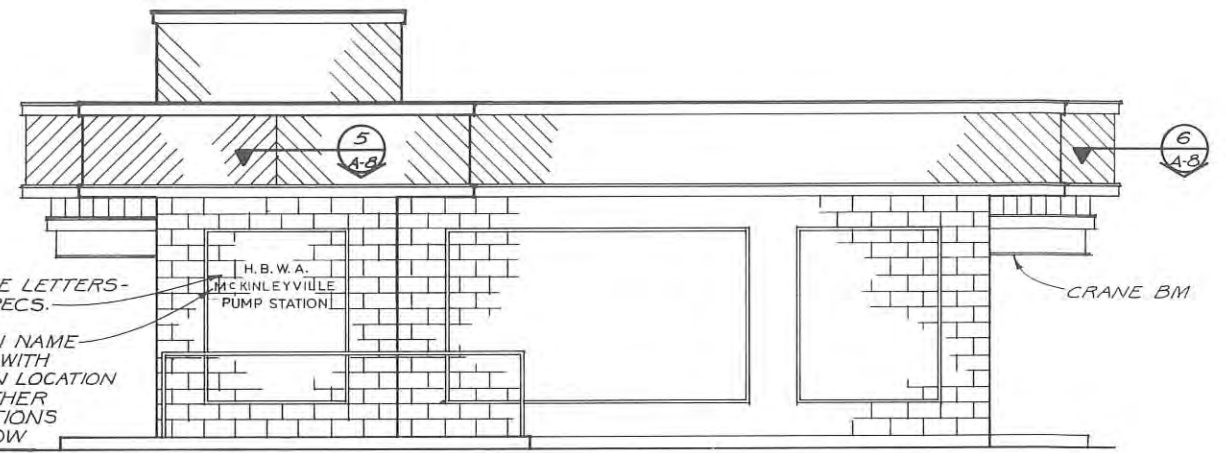
JOB NO.  
76-046

SHEET  
**A-4**





A  
—  
1/4" = 1'-0"

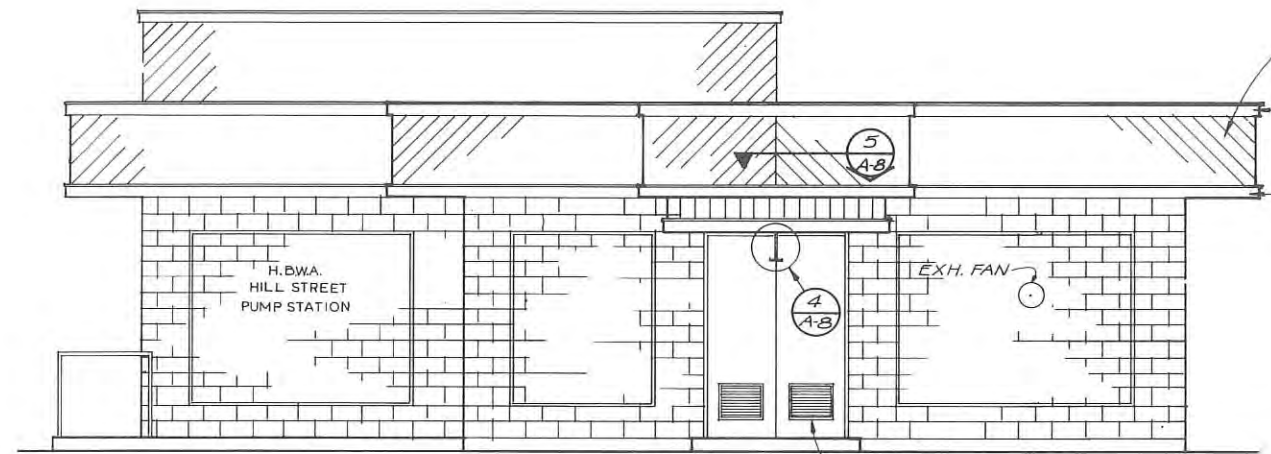


BRONZE LETTERS-  
SEE SPECS.

STATION NAME  
VARIES WITH  
STATION LOCATION  
SEE OTHER  
ELEVATIONS  
& BELOW

OTHER STATION NAMES  
TO APPEAR ON THIS WALL:  
ARCATA

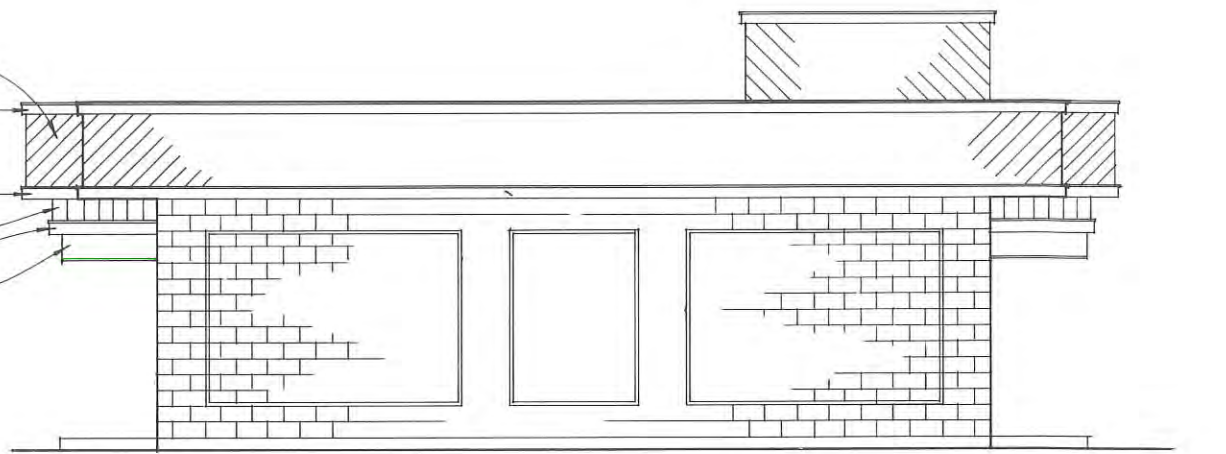
B  
—  
1/4" = 1'-0"



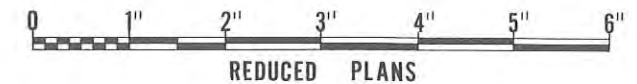
C  
—  
1/4" = 1'-0"

- 1x6 DIAGONAL SIDING
- 2x6 UPPER FACIA TRIM
- 3x6 LOWER FACIA TRIM
- 1x8 VERT. SIDING
- 3x6 TRIM
- CRANE BEAM

24"X18" MET. INTAKE  
LOUVERED VENT.



D  
—  
1/4" = 1'-0"

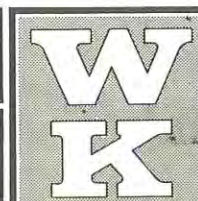


NO.	DATE	REVISIONS	BY	APPR.

DSGN	NP & RP	CHKD	NP & RP
DRWN	RP & BBA	SCALE	1/4" = 1'-0"
APPROVED	<i>[Signature]</i>	DATE	11/17/76
APPROVED	<i>[Signature]</i>	DATE	11/17/76

**WINZLER & KELLY**  
CONSULTING ENGINEERS  
633 3RD ST. EUREKA, CALIFORNIA (707) 443-8326

KELLY & PENFOLD  
PROFESSIONAL SURVEYORS & ENGINEERS  
3240 MOORE AVE. EUREKA, CALIF.



HUMBOLDT BAY WASTEWATER AUTHORITY  
Wastewater Project

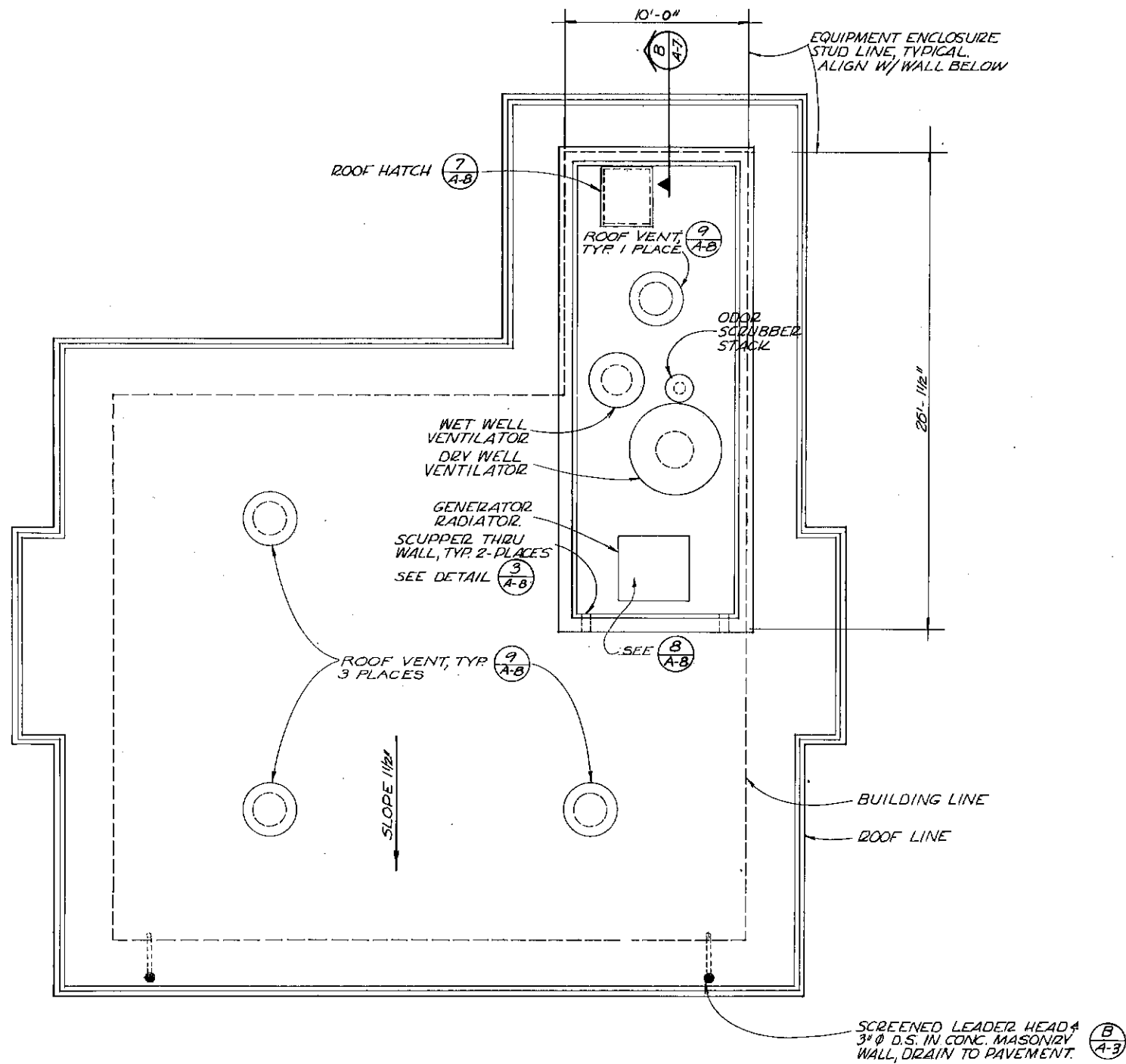
MCKINLEYVILLE, ARCATA, HILL ST.,  
McCULLEN ST., SEWAGE PUMP STATIONS

**EXTERIOR ELEVATIONS**

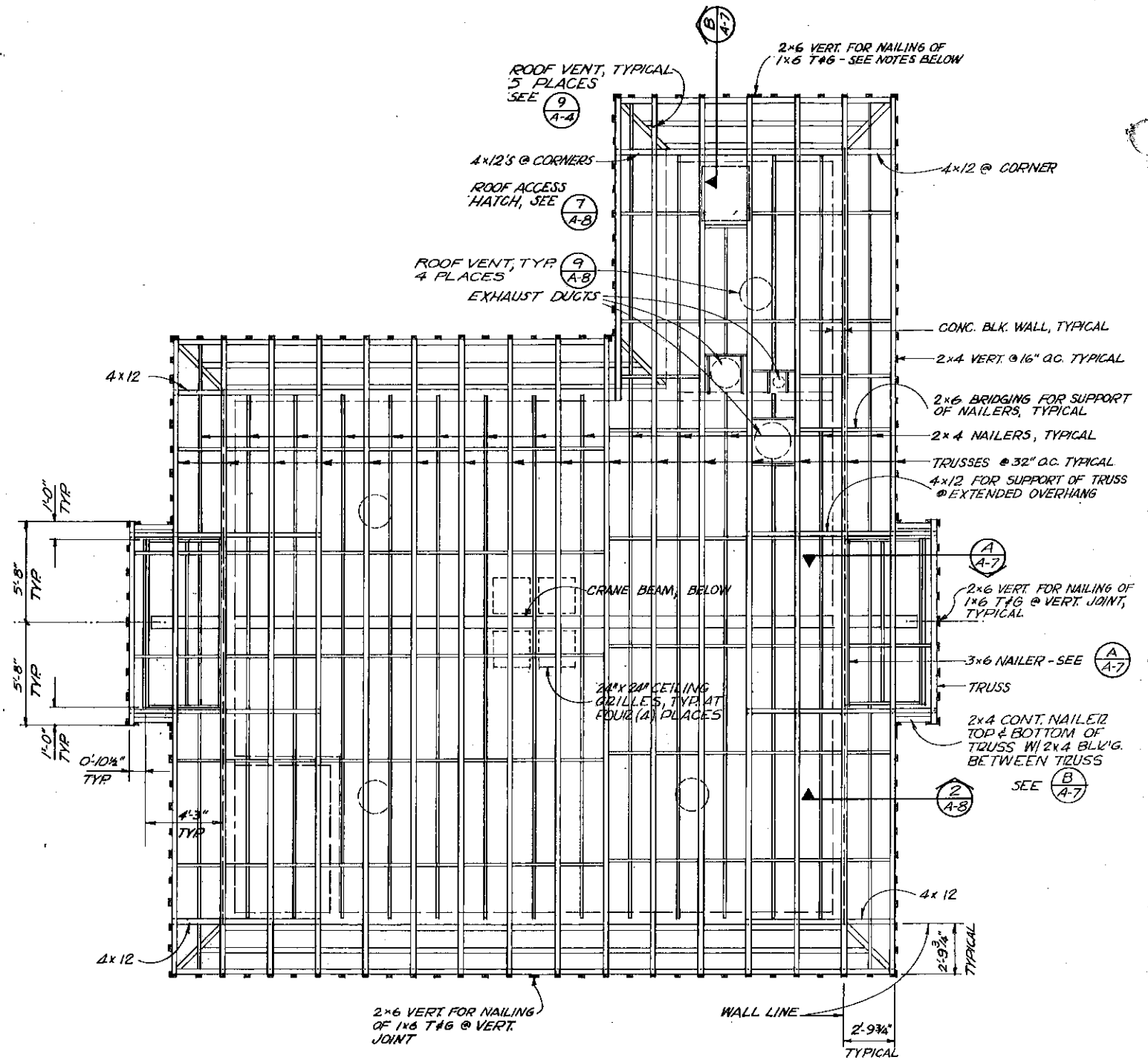
ARCHITECTURAL

JOB NO.  
76-046

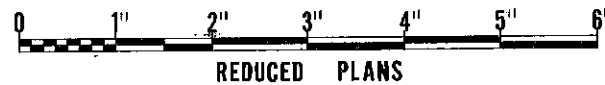
SHEET  
**A-5**



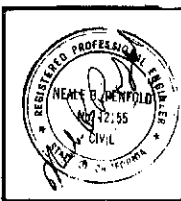
ROOF PLAN  
1/4" = 1'-0"



ROOF FRAMING PLAN  
1/4" = 1'-0"



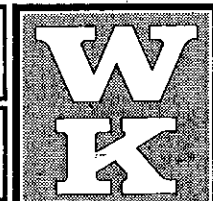
NO.	DATE	REVISIONS	BY	APPR.



DRGN	NP & RP	CHKD	NP & RP
DRWN	RP & BBA	SCALE	1/4" = 1'-0"
APPROVED	<i>Steve B. ...</i>	DATE	1/1/20
APPROVED	<i>G. F. Kelly</i>	DATE	1/1/20

**WINZLER & KELLY**  
CONSULTING ENGINEERS  
633 2ND ST. EUREKA, CALIFORNIA (707) 443-6325

**KELLY & PENFOLD**  
PROFESSIONAL SURVEYORS & ENGINEERS  
3240 MOORE AVE. EUREKA, CALIF.



HUMBOLDT BAY WASTEWATER AUTHORITY  
Wastewater Project

MCKINLEYVILLE, ARCATA, HILL ST.  
MCCULLEN ST., SEWAGE PUMP STATIONS

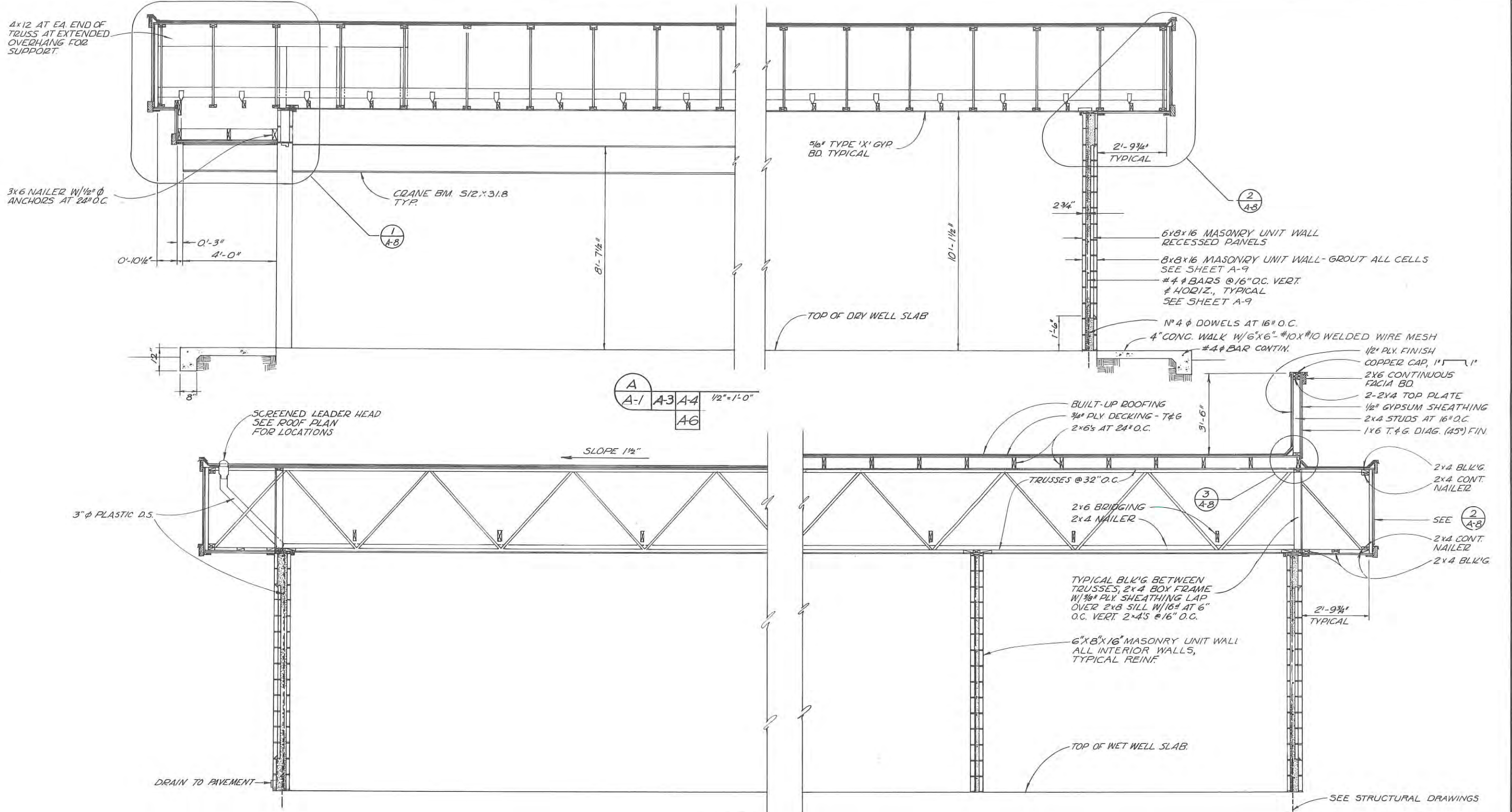
**ROOF AND ROOF FRAMING PLANS**

ARCHITECTURAL

JOB NO.  
76-046

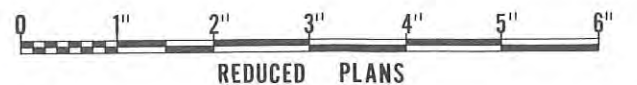
SHEET  
**A-6**





A  
A-1 A-3 A-4  
A6  
1/2" = 1'-0"

B  
A-1 A-3 A-4  
A6  
1/2" = 1'-0"



NO.	DATE	REVISIONS	BY	APPR.



DSGN	NP & RP	CHKD	NP & RP
DRWN	RP & AH	SCALE	1/2" = 1'-0"
approved	<i>W. B. Penfold</i>	date	11/1/76
approved	<i>P. J. Kelly</i>	date	11/5/76

**WINZLER & KELLY**  
CONSULTING ENGINEERS  
833 3RD ST. EUREKA, CALIFORNIA (707) 443-8328

KELLY & PENFOLD  
PROFESSIONAL SURVEYORS & ENGINEERS  
3240 MOORE AVE. EUREKA, CALIF.



HUMBOLDT BAY WASTEWATER AUTHORITY  
Wastewater Project

**BUILDING SECTIONS**

ARCHITECTURAL

JOB NO. 76-046  
SHEET A-7



4x12 BM. AT EACH END OF TRUSS  
AT EXTENDED OVERHANG FOR  
SUPPORT OF TRUSS.

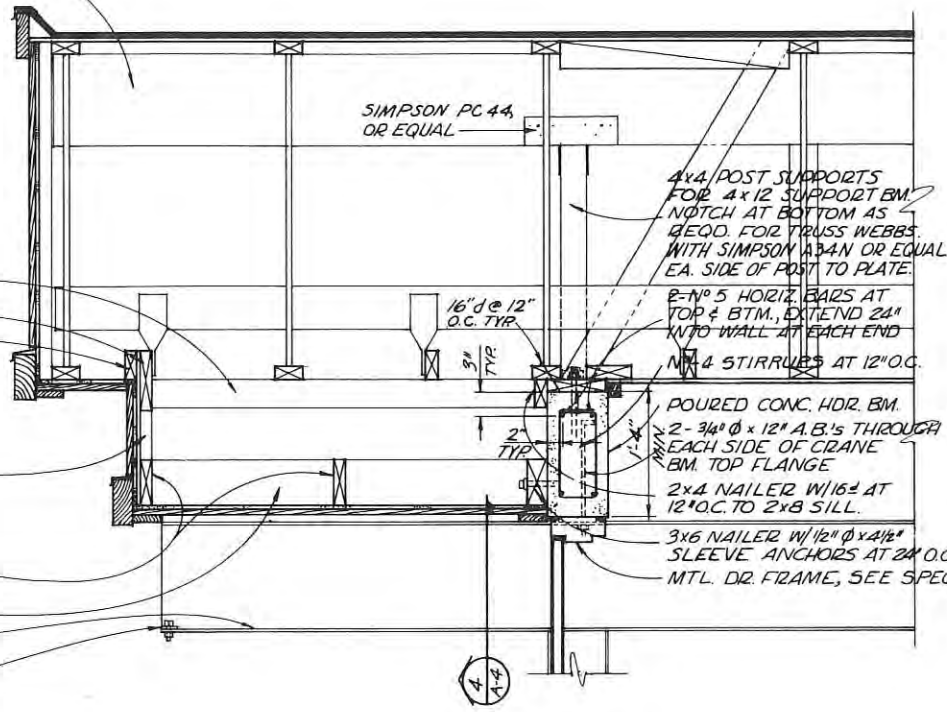
SEE 2

2x4 LATERAL BRACE AT  
EACH END OF 2x8  
2x8 CONTINUOUS  
2x4 CONTINUOUS

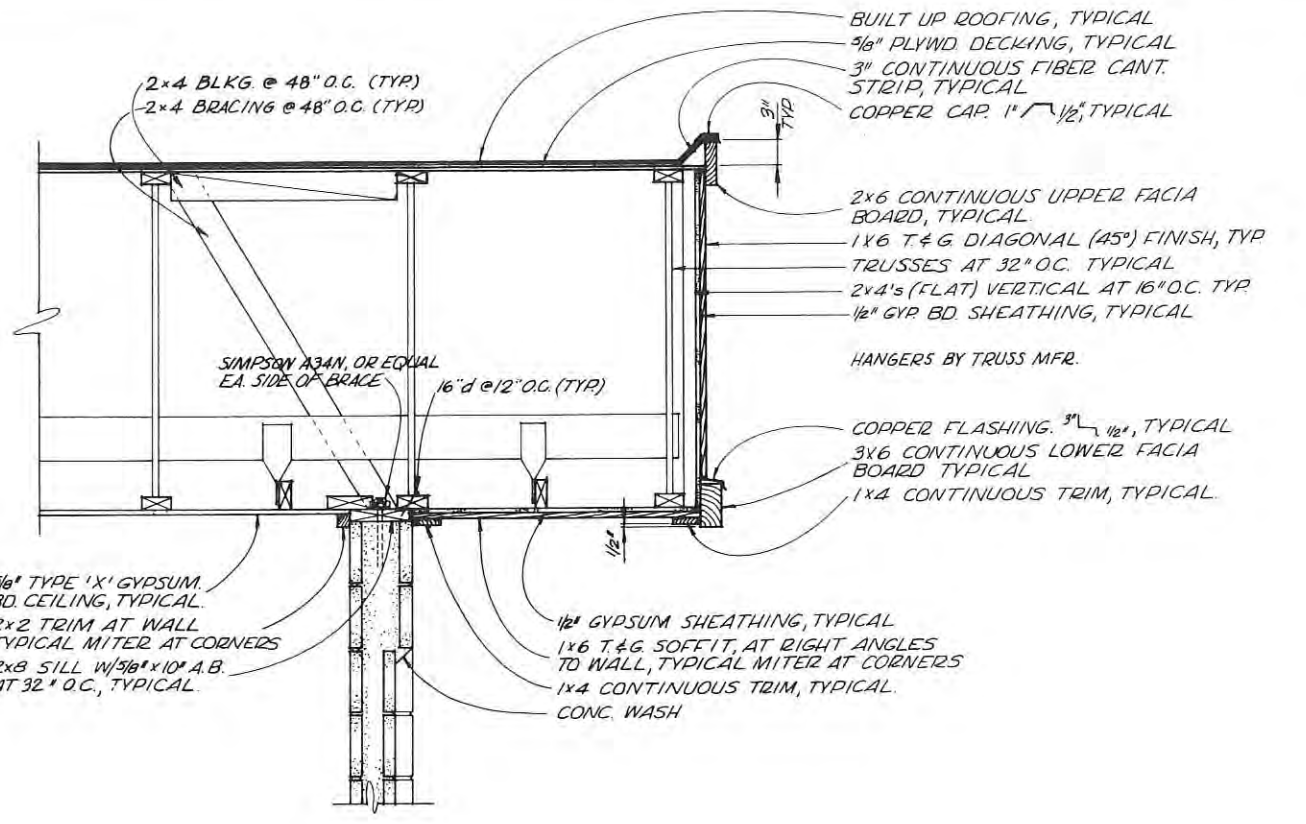
2x4 VERT. AT 24" O.C.  
SEE 2

2x6 CONTINUOUS  
2x6 LATERAL BRACE AT  
EACH END OF 2x6  
5/2x3/8 CRANE BM. TYPICAL

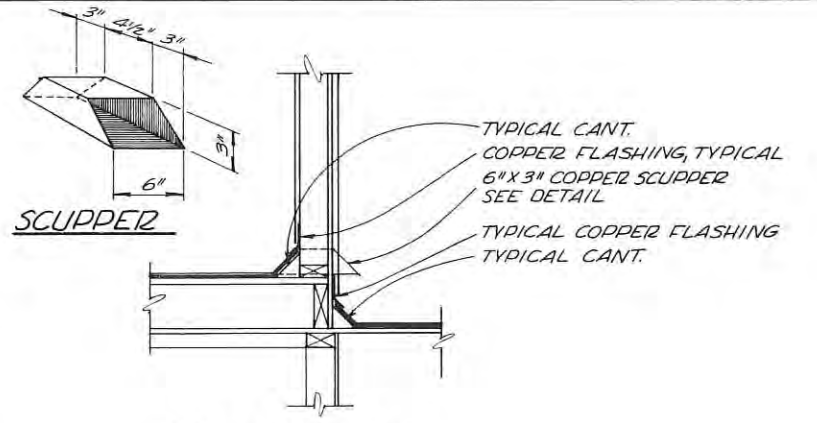
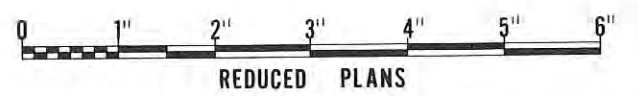
1/2"x1"x0'2" STL. PL. FOR  
CRANE STOPS. BOLT TO  
TOP OF FLANGE, BOTH  
SIDES, BOTH ENDS OF BM,  
W/ 3/8" φ M.B.



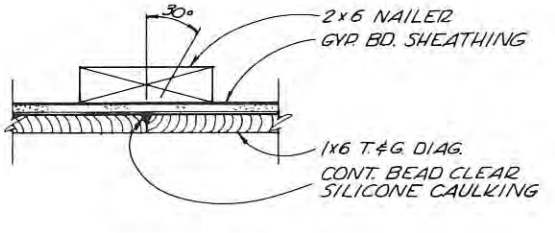
1 OVERHANG  
AT CRANE BM.  
1"=1'-0"



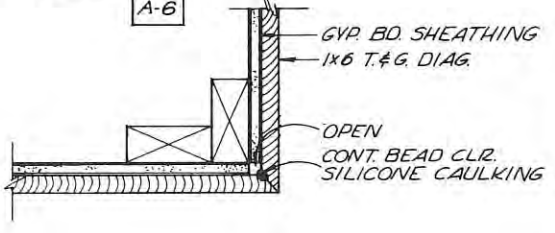
2 OVERHANG  
1"=1'-0"



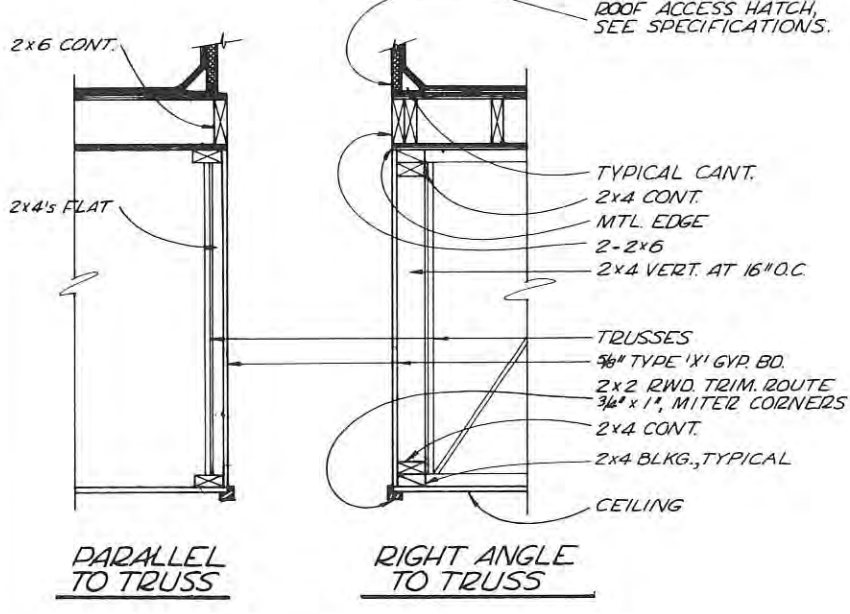
3 SCUPPER  
A-3 A-6 A-7 1"=1'-0"



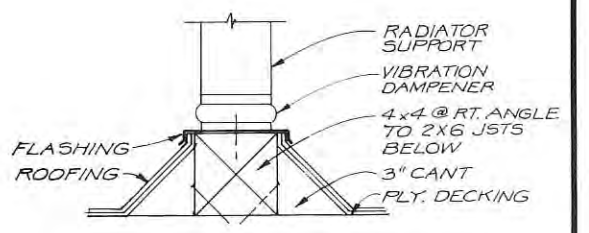
5 VERT. BUTT  
JT. AT 1x6 DIAG.  
A-2 A-3 A-5 3"=1'-0"



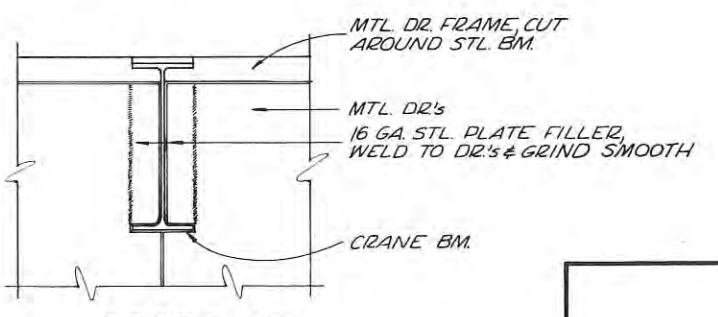
6 VERT. CORNER  
AT 1x6 DIAG.  
A-2 A-5 3"=1'-0"



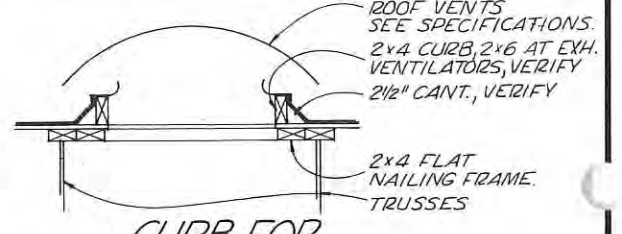
7 HATCHWAY  
A-1 A-3 A-4 1"=1'-0"



8 RADIATOR MOUNTING  
A-3 A-6 3'-0"=1'-0"



4 DOORS AT  
CRANE BM.  
A-1 A-2 A-7 1/2"=1'-0"



9 CURB FOR  
ROOF VENT  
A-3 A-6 1"=1'-0"

NO.	DATE	REVISIONS	BY	APPR.

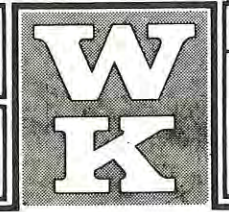
DESIGN NP & RP CHKD NP & RP  
DRAW RP & BTN SCALE AS SHOWN

APPROVED *Neale B. Penfold* 4/13/16  
DATE 4/13/16

APPROVED *Kelly & Penfold* 4/13/16  
DATE 4/13/16

**WINZLER & KELLY**  
CONSULTING ENGINEERS  
632 3RD ST. EUREKA, CALIFORNIA (707) 443-8328

**KELLY & PENFOLD**  
PROFESSIONAL SURVEYORS & ENGINEERS  
3240 MOORE AVE EUREKA, CALIF.

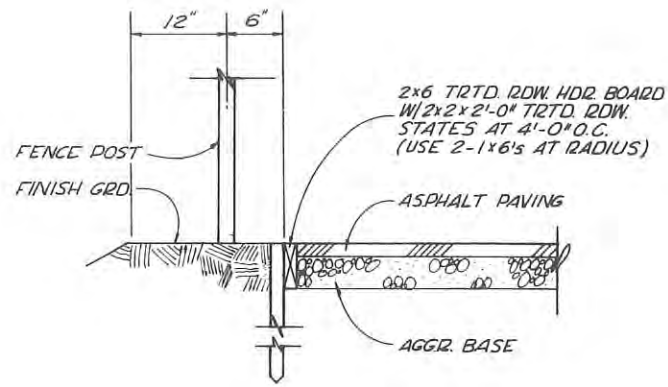


HUMBOLDT BAY WASTEWATER AUTHORITY  
Wastewater Project

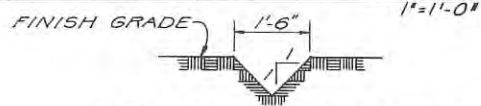
**MISC. DETAILS**  
ARCHITECTURAL

JOB NO. 76-046  
SHEET **A-8**





**TYPICAL HEADER BOARDS AT PERIMETER OF PAVING**



**DRAINAGE SWALE**

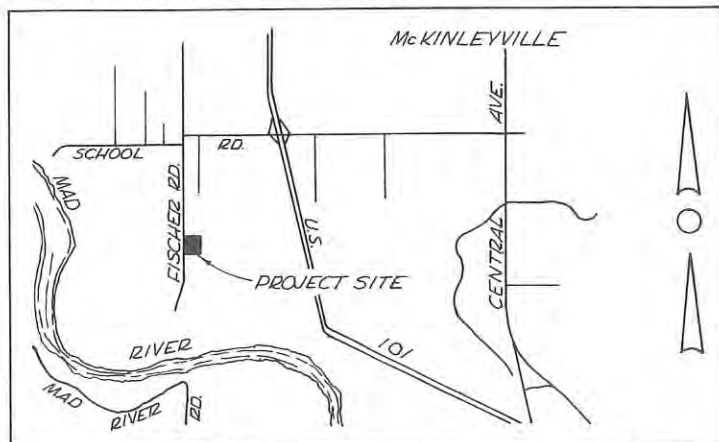
**PLANTING SCHEDULE**

SYMBOL	SIZE	QUAN.	SPACING	DESCRIPTION
A	5-GAL.	3		CUPRESSOCYPARIS LEYLANDII
B	5-GAL.	9	5'-0\"/>	

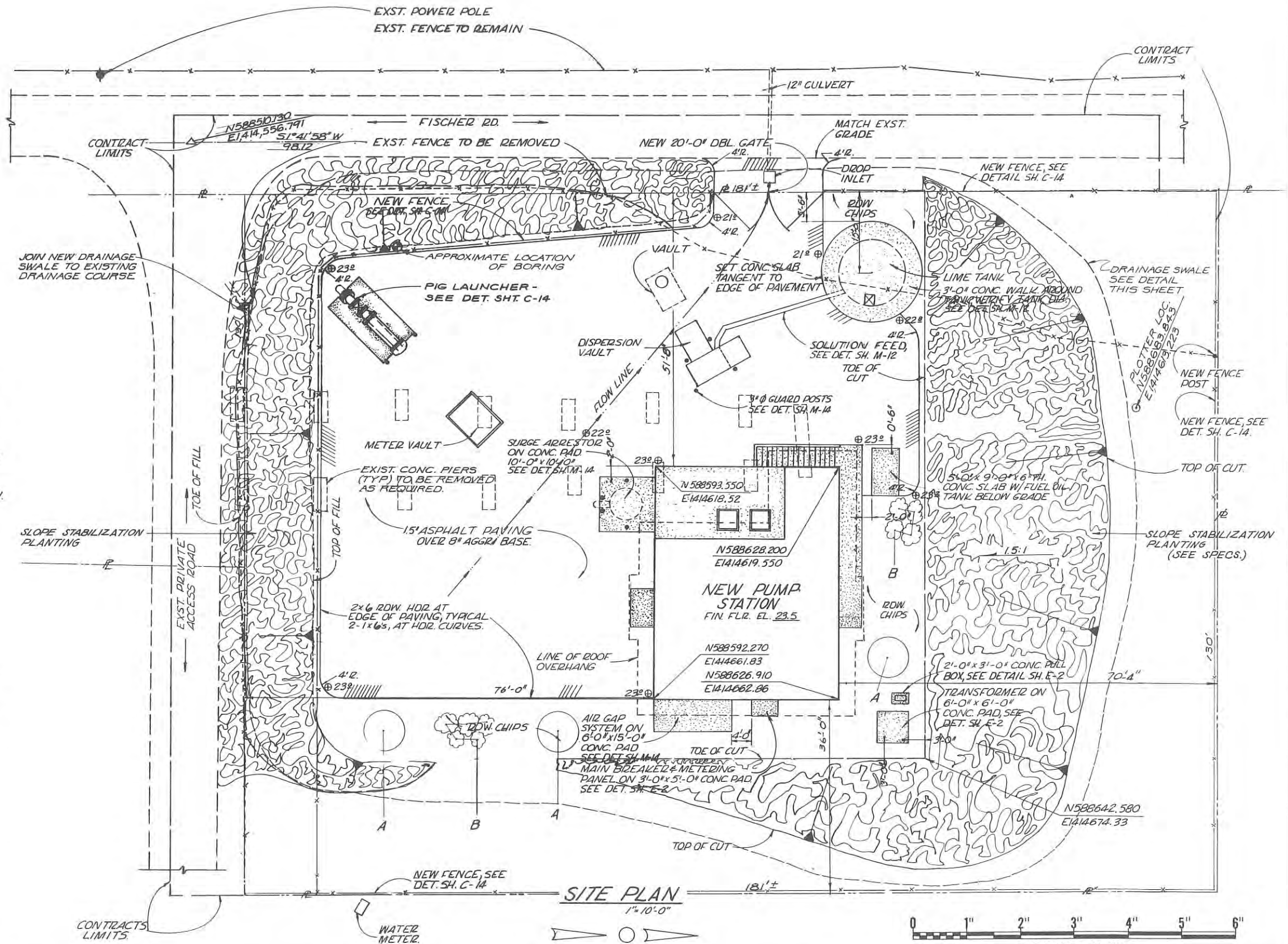
(SLOPE STABILIZATION PLANTING ENCOMPASSES APPROX. 0.2 ACRES, SEE SPEC.)

**NOTES:**

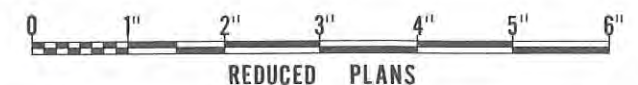
- BASIS OF BEARINGS: CALIFORNIA COORDINATE SYSTEM, ZONE 1. BASIS OF DIST.: TRUE GROUND DIST. SEE SH. C-2 FOR ENBANKMENT LOCATION.
- AREAS NOT COVERED WITH PAVING OR SLOPE PLANTING, SHALL BE COVERED WITH 4\"/>



**LOCATION MAP**  
N.T.S.



**SITE PLAN**  
1\"/>



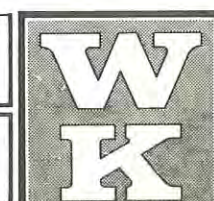
NO.	DATE	REVISIONS	BY	APPR.



DSGN	NP & RP	CHKD	NP & RP

**WINZLER & KELLY**  
CONSULTING ENGINEERS  
633 3RD ST. EUREKA, CALIFORNIA (707) 443-8326

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HUMBOLDT BAY WASTEWATER AUTHORITY  
Wastewater Project

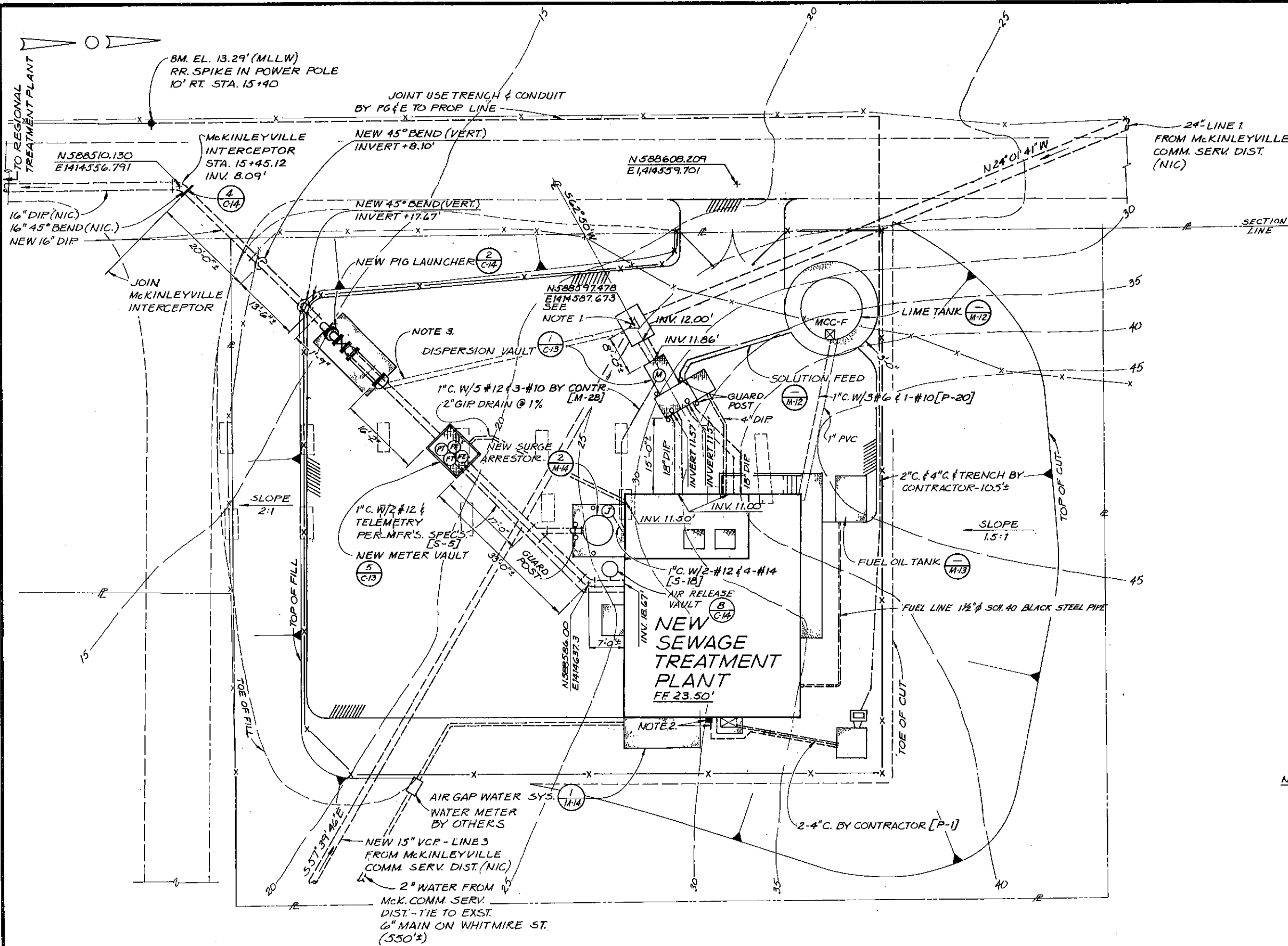
**MCKINLEYVILLE SEWAGE PUMP STATION**

**SITE AND LANDSCAPING PLAN**

CIVIL

JOB NO. 76-046  
SHEET C-1





- NOTES:**
1. MCKINLEYVILLE COMMUNITY SERVICES DISTRICT SEWER PROJECT TERMINATION
  2. 5" x 7" WR TELEPHONE JUNCTION BOX BY CONTRACTOR W/2" CONDUIT OUT TO JOINT USE TRENCH & ON TO PROPERTY LINE
  3. CONTRACTOR TO INSTALL TEMPORARY 8" PIPE FROM PIG LAUNCHER HATCH TO MANHOLE FOR TESTING OF PUMP STATION. TEMPORARY PIPE SHALL BE SUPPORTED AND BRACED FOR TESTING AND SHALL BE REMOVED AFTER PUMP STATION TESTING IS COMPLETED.



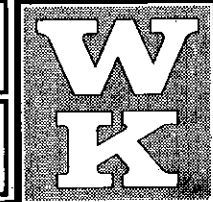
NO.	DATE	REVISIONS	BY	APPR.



DGN	RSF	CHKD	KGD
DRWN	RMS	SCALE	1" = 10'-0"
APPROVED	DATE	APPROVED	DATE
<i>G. Kelly</i>	4/19/26	<i>R. Kelly</i>	4/19/26

**WINZLER & KELLY**  
CONSULTING ENGINEERS  
633 3RD ST. EUREKA, CALIFORNIA 1971 643-8328

**OSCAR LARSON & ASSOC.**  
CONSULTING ENGINEERS & LAND SURVEYORS  
EUREKA, CALIF 95501



HUMBOLDT BAY WASTEWATER AUTHORITY  
Wastewater Project

**MCKINLEYVILLE**  
SEWAGE PUMP STATION  
PIPING AND VAULT PLAN

CIVIL

JOB NO. 76-046  
SHEET C-2

SYMBOL	DESCRIPTION
	CONNECTION POINT TO EQUIPMENT SPECIFIED. FURNISHED AND INSTALLED UNDER OTHER SPECIFICATION SECTIONS AND CONNECTED UNDER THIS SECTION.
	NAMEPLATE OR LEGEND PLATE-SEE SCHEDULE.
	CIRCUIT NUMBER-SEE SCHEDULE.
	BRANCH CIRCUIT PANEL.
	UNIT HEATER NO. 1-SEE SCHEDULE.
	TELEPHONE TERMINAL CABINET
	TERMINAL JUNCTION BOX
	WOUND-ROTOR MOTOR, HORSEPOWER INDICATED.
	MOTOR-HORSEPOWER INDICATED.
	LUMINAIRE-SEE SCHEDULE.
	LUMINAIRE-SEE SCHEDULE.
	LUMINAIRE AND POLE-SEE SCHEDULE.
	WALL MOUNTED LUMINAIRE-SEE SCHEDULE.
	FLOODLIGHTS-AIM IN DIRECTION SHOWN-SEE SCHEDULE.
	EXIT LIGHT-SEE SCHEDULE.
	SMALL LETTER SUBSCRIPT ON SWITCH AND LUMINAIRE INDICATES SWITCHING.
	HOME RUN-DESTINATION SHOWN.
	EXPOSED CONDUIT AND CONDUCTORS.
	CONCEALED CONDUIT AND CONDUCTORS.
NOTE: ALL UNMARKED CONDUIT RUNS CONSIST OF TWO NO. 12 TW CONDUCTORS IN CONDUIT. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF NO. 12 TW WIRE. CROSSHATCHES WITH BAR INDICATE NO. 10 TW WIRE. CROSSHATCH WITH SUBSCRIPT "G" INDICATES GREEN GROUND WIRE. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.	
	CONDUIT, DOWN
	CONDUIT, UP
	CONDUIT, STUBBED AND CAPPED AS SHOWN.
	CABLE TRAY-SEE SPECIFICATIONS.
	BUS DUCT-SEE SPECIFICATIONS.
	TRENCHING FOR UTILITY COMPANY PRIMARY POWER CIRCUITS.
	TRENCHING FOR TELEPHONE COMPANY CIRCUITS
WALL SWITCH SUBSCRIPTS:	
2	DOUBLE POLE
3	THREE WAY
4	FOUR WAY
WP	WEATHERPROOF
P	PILOT LIGHT
K	KEY OPERATED
D	DIMMER
CR	CORROSION RESISTANT
	MANUAL MOTOR STARTER SWITCH
	DUPLEX CONVENIENCE RECEPTACLE
	CONVENIENCE RECEPTACLE, PEDESTAL, DUPLEX SINGLE FACE UNLESS INDICATED OTHERWISE.
	RECEPTACLE-240V, 15, AMPERAGE AS INDICATED.
	DUPLEX CONVENIENCE RECEPTACLE-FLUSH IN FLOOR.
	MULTI-OUTLET ASSEMBLY.
	RECEPTACLE, SPECIAL PURPOSE-AMPERAGE AS INDICATED.
RECEPTACLE SUBSCRIPTS:	
WP	WEATHERPROOF
TL	TWIST LOCK
C	CLOCK HANGER
CR	CORROSION RESISTANT
GFI	GROUND FAULT INTERRUPTER
	GENERAL ELECTRICAL CONTROL OR WIRING DEVICE. NEMA 1 ENCLOSURE UNLESS INDICATED OTHERWISE. LETTER SYMBOLS OR ABBREVIATIONS INDICATE TYPE OF DEVICE.
	PUSHBUTTON STATION, NEMA 1 ENCLOSURE UNLESS INDICATED OTHERWISE. SEE CONTROL DIAGRAMS FOR TYPE PUSHBUTTON REQUIRED.
	NONFUSED DISCONNECT SWITCH, SIZE INDICATED, 3-POLE, NEMA 1 ENCLOSURE, UNLESS INDICATED OTHERWISE.
	ELECTRIC OPERATED SOLENOID VALVE
	DOOR LOCK.

SYMBOL	DESCRIPTION															
	FUSED DISCONNECT SWITCH, SIZE INDICATED (60/40, 60 = SWITCH RATING; 40 = FUSE RATING) 3-POLE, NEMA 1 ENCLOSURE, UNLESS INDICATED OTHERWISE.															
	CONTACTOR, MAGNETIC, NEMA SIZE INDICATED, 3-POLE, NEMA 1 ENCLOSURE, UNLESS INDICATED OTHERWISE.															
	LIGHTING CONTACTOR, CURRENT RATING INDICATED, NEMA 1 ENCLOSURE UNLESS INDICATED OTHERWISE. SEE CONTROL DIAGRAM FOR NUMBER OF POLES.															
	STARTER, MAGNETIC, NEMA SIZE INDICATED, NEMA 1 ENCLOSURE UNLESS INDICATED OTHERWISE. SEE CONTROL DIAGRAM.															
	COMBINATION (FUSE OR CIRCUIT BREAKER AS INDICATED) MAGNETIC STARTER, NEMA SIZE INDICATED, NEMA 1 ENCLOSURE UNLESS INDICATED OTHERWISE. SEE CONTROL DIAGRAM.															
METERING FACILITIES																
	CONTACT-NORMALLY OPEN WITH NEMA SIZE INDICATED AS APPLICABLE.															
	CONTACT-NORMALLY CLOSED WITH NEMA SIZE INDICATED AS APPLICABLE.															
	OVERLOAD RELAY HEATER															
	MAGNETIC STARTER WITH NEMA SIZE INDICATED. FULL VOLTAGE, 3-POLE, NONREVERSING UNLESS NOTED OTHERWISE.															
	CIRCUIT BREAKER, MAGNETIC TRIP ONLY, CONTINUOUS CURRENT RATING SHOWN, 3-POLE UNLESS INDICATED OTHERWISE. NUMBER IN PARENTHESIS, IF SHOWN, INDICATES MAXIMUM TRIP SETTING.															
	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP RATING SHOWN, 3-POLE UNLESS INDICATED OTHERWISE.															
	CIRCUIT BREAKER WITH CURRENT LIMITING FUSES, TRIP AND FUSE RATING INDICATED, 3-POLE UNLESS INDICATED OTHERWISE.															
	FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3-POLE UNLESS INDICATED OTHERWISE.															
	SWITCH-CURRENT RATING INDICATED, 3-POLE UNLESS INDICATED OTHERWISE.															
	DRAWOUT AIR CIRCUIT BREAKER, LOW VOLTAGE.															
	LIGHTNING ARRESTER															
	FUSE															
	CAPACITOR-KVAR INDICATED.															
	METER WITH SWITCH-SCALE RANGE SHOWN.															
	GROUND															
	TRANSFORMER, SECONDARY VOLTAGES, PHASE AND RATING INDICATED AS APPLICABLE.															
	PICK-UP SETTING TIME CURRENT CHARACTERISTIC } GROUND FAULT RELAY WITH CURRENT TRANSFORMER.															
	PUSHBUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN.															
	PUSHBUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED.															
	PUSHBUTTON SWITCH, MAINTAINED CONTACTS WITH MECHANICAL INTERLOCK.															
	SELECTOR SWITCH WITH MAINTAINED CONTACTS															
	TIME DELAY RELAY CONTACT, NORMALLY OPEN															
	TIME DELAY RELAY CONTACT, NORMALLY CLOSED															
TIME ACTION INDICATED																
TC	TIME CLOSE INST.															
TO	TIME OPEN INST.															
TO	TIME OPEN INST. SIMULTANEOUS															
	SELECTOR SWITCH-MAINTAINED CONTACT-CHART DEFINES OPERATION:															
<table border="1"> <thead> <tr> <th rowspan="2">CKT.</th> <th colspan="3">POSITION</th> </tr> <tr> <th>HAND</th> <th>OFF</th> <th>AUTO</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>X</td> <td>O</td> <td>O</td> </tr> <tr> <td>2</td> <td>O</td> <td>O</td> <td>X</td> </tr> </tbody> </table>		CKT.	POSITION			HAND	OFF	AUTO	1	X	O	O	2	O	O	X
CKT.	POSITION															
	HAND	OFF	AUTO													
1	X	O	O													
2	O	O	X													
X	CLOSED CONTACT															
O	OPEN CONTACT															
	CURRENT TRANSFORMER, NUMBER AND RATIO INDICATED.															
	INDICATING LIGHT, PUSH-TO-TEST, LETTER INDICATES COLOR.															
	INDICATING LIGHT-LETTER INDICATES COLOR.															
A	AMBER															
B	BLUE															
C	CLEAR															
G	GREEN															
R	RED															
W	WHITE															

SYMBOL	DESCRIPTION
	SPACE HEATER AT MOTOR OR EQUIPMENT. SEE SPECIFICATIONS.
	RESISTOR
LOGIC & INSTRUMENTATION DIAGRAMS	
A/S	AIR SUPPLY
FC	FLOW CONTROLLER
FCV	FLOW CONTROL VALVE
FE	FLOW ELEMENT
FQ	FLOW TOTALIZER
FR	FLOW RECORDER
FT	FLOW TRANSMITTER
FX	FLOW TELEMETRY TRANSMITTER
I/P	CURRENT TO PRESSURE TRANSDUCER
LAH	LEVEL ALARM HIGH
LAL	LEVEL ALARM LOW
LCV	LEVEL CONTROL VALVE
L/S	LEVEL SIGNAL SELECTOR
LIC	LEVEL INDICATING CONTROLLER
L/L	HIGH SIGNAL SELECTOR
LSH	LEVEL SWITCH HIGH
LSL	LEVEL SWITCH LOW
LT	LEVEL TRANSMITTER
PR	PRESSURE RECORDER
PT	PRESSURE TRANSMITTER
TD	TIME DELAY
V/S	VARIABLE SPEED PUMP MOTOR CONTROLLER
L/E	LEVEL ELEMENT
FUNCTIONAL IDENTIFICATION	
SOLID LINE	PANEL MOUNTED
DASHED LINE	MOUNTED BEHIND PANEL
NO LINE	REMODEL MOUNTED
LOOP NUMBER	
	"AND" SYMBOL
	"OR" SYMB.
	"NOT" SYMBOL
	ELECTRICAL SIGNAL OR CONTROL LINE
	HYDRAULIC OR PNEUMATIC LINE
	AIR SUPPLY LINE
	GAUGE
	VALVE
	POSITIONER
	FLW SWITCH HIGH
	PRESSURE ELEMENT

ABBREVIATIONS AND LETTER SYMBOLS	
A	AMMETER, AMP
AB	ANGLE BOLT
AFF	ABOVE FINISHED FLOOR
ANN	ANNUNCIATOR
ASU	AIR SUPPLY UNIT
ATS	AUTOMATIC TRANSFER SWITCH
B	BELL
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CC	CONTROL CABLE
CCC	COIL CLEARING CONTACT
CKT	CIRCUIT
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CS	CONTROL STATION
CR	CONTROL RELAY
CT	CURRENT TRANSFORMER
CUH	CABINET UNIT HEATER
CVLS	CHECK VALVE LIMIT SWITCH
CONC.	CONCRETE
DC	DIRECT CURRENT
DO	DISSOLVED OXYGEN
DOP	DISSOLVED OXYGEN PROBE
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
EP	EXPLOSION PROOF
ETM	ELAPSED TIME METER
EPP	EMERGENCY POWER PANEL
F, FU	FUSE
FI	FLOW INDICATOR
FLUOR	FLUORESCENT
FM	FLOWMETER
FS	FLOAT SWITCH
FT	FLOW TRANSMITTER
FVNR	FULL VOLTAGE NONREVERSING
FVR	FULL VOLTAGE REVERSING
FUT	FUTURE
G, GND	GROUND
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GALV	GALVANIZED
HBWA	HUMBOLDT BAY WASTEWATER AUTHORITY
H	HORN
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HV	HIGH VOLTAGE
H2S	HYDROGEN SULPHIDE GAS
HRS	HOURS
HTR	HEATER
IC	INTERRUPTING CAPACITY
INCAND	INCANDESCENT
J	JUNCTION BOX OR PULL BOX
JB	JUNCTION BOX
K	KEY INTERLOCK
KW	KILOWATT
L	LIGHTING CONTACTOR
LA	LIGHTNING ARRESTER
LC	LATCHING COIL
LDR	LOAD RELAY
LOS	LOCKOUT STOP PUSHBUTTON
LR	LATCHING RELAY
LS	LIMIT SWITCH
LP	LIGHTING PANEL
M	MAGNETIC CONTACTOR
MCC	MOTOR CONTROL CENTER
MERC	MERCURY VAPOR
MH	MANHOLE
MMP	MECHANICAL MOUNTING PANEL
MS	MOTOR STARTER
MSP	MOTOR STARTER PANEL
MCP	MOTOR CIRCUIT PROTECTOR
MIN	MINIMUM
MCM	1000 CIRCULAR MILS.
N, NEUT	NEUTRAL
NA	NONAUTOMATIC
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
OL	OVERLOAD RELAY
PWR	POWER
PB	PUSHBUTTON SWITCH
PC	PHOTOCELL
PCP	PLANT CONTROL PANEL
PIP	PLANT INDICATING PANEL
POP	PLANT OPERATIONS PANEL
PS	PRESSURE SWITCH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PNL	PANEL
PG&E	PACIFIC GAS & ELECTRIC COMPANY
RECEPT	RECEPTACLE
RS	RIGID STEEL
RVNR	REDUCED VOLTAGE NONREVERSING
RVR	REDUCED VOLTAGE REVERSING
RDW	REDWOOD
REQ'D	REQUIRED
SCU	SPEED CONTROL UNIT
SP	SPARE(S)
SPEC'S	SPECIFICATIONS.
SW	SWITCH
ST	STREET
STL	STEEL
T	THERMOSTAT
TB	TERMINAL BOARD
TC	TIME CLOCK
TD	THERMAL DETECTOR RELAY
TDR	TIME DELAY RELAY
TJB	TERMINAL JUNCTION BOX
TM	TIMING RELAY
TR	TIMER-REPEAT CYCLE
TS	TEMPERATURE SWITCH
TSP	TWISTED SHIELDED PAIR
TST	TWISTED SHIELDED TRIAD
TT	MOTOR WINDING THERMAL PROTECTOR
TYP.	TYPICAL
TOAE	TIME OPEN AFTER ENERGIZATION.
UC	UNLATCHING COIL
UH	UNIT HEATER
UVR	UNDER VOLTAGE RELAY
UG	UNDERGROUND
VA	VOLT AMPERES
V	VOLT, VOLTMETER
VH	VAR HOUR METER
VHD	VAR HOUR METER WITH DEMAND REGISTER
VP	VAPORPROOF
V/S	VARIABLE SPEED
WASH	WASHER
WH	WATTHOUR METER
WHD	WATTHOUR METER WITH DEMAND REGISTER
WP	WEATHERPROOF
W/I	WITH
XFMR	TRANSFORMER

NOTE: THIS IS A STANDARD LEGEND SHEET. THEREFORE, SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

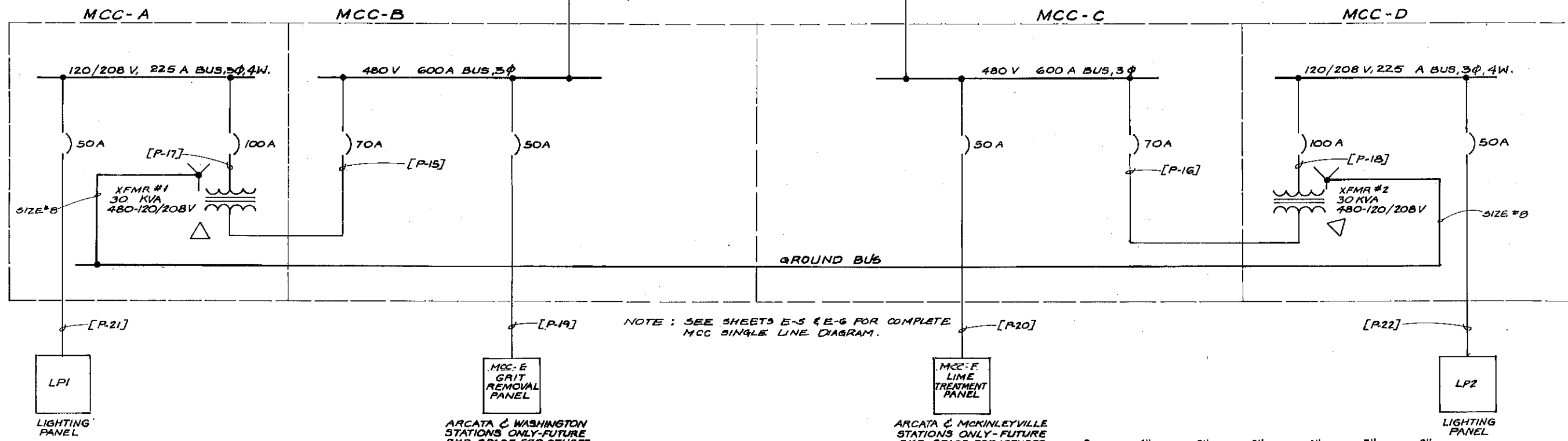
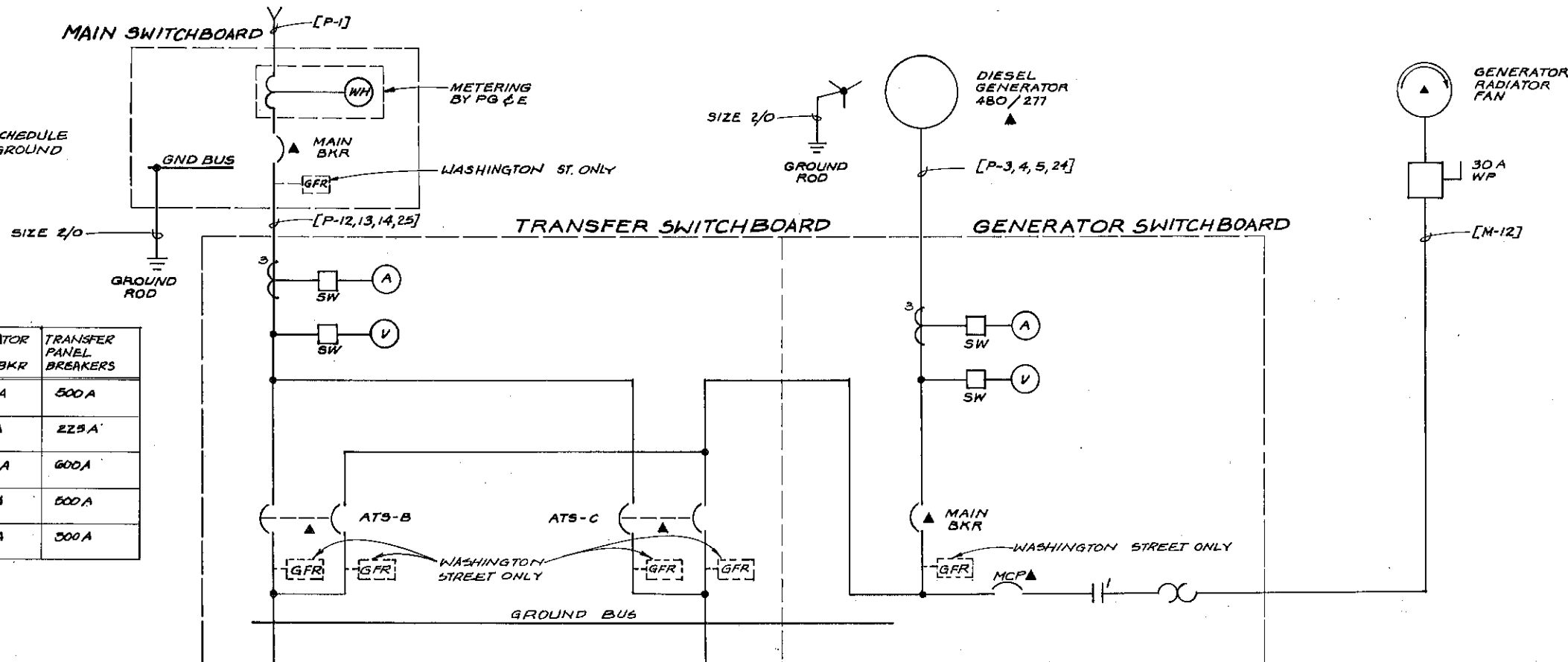
		DESG <b>RAK</b> CHKO <b>NJK</b> DRWN <b>HFM</b> SCALE <b>NONE</b>	<b>WINZLER &amp; KELLY</b> CONSULTING ENGINEERS 633 3RD ST. EUREKA, CALIFORNIA (707) 443-2336		HUMBOLDT BAY WASTEWATER AUTHORITY Wastewater Project <b>SEWAGE PUMP STATION</b> <b>SYMBOLS &amp; ABBREVIATIONS</b> ELECTRICAL	JOB NO. 76-046 SHEET <b>E-1</b>
NO.	DATE	REVISIONS	BY	APPR.		

**NOTES**

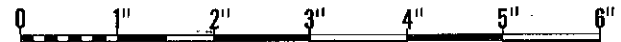
- ▲ FOR RATING SEE POWER BKR SCHEDULE
- 1 SIZE BUSSES IN GENERATOR & TRANSFER PANELS ACCORDING TO MAIN BKR FRAME SIZE.
- 2 GROUND WIRES ARE CALLED OUT IN CONDUIT SCHEDULE FOR FEEDERS AND ARE TO BE CONNECTED TO GROUND BUS ON EACH END.

**POWER BREAKER SCHEDULE**

STATION	GENERATOR RATING	RADIATOR MOTOR SIZE	RADIATOR FAN MOTOR MCP	MAIN SERVICE PANEL MAIN BKR	GENERATOR PANEL MAIN BKR	TRANSFER PANEL BREAKERS
ARCATA	350 KW	7 1/2 HP	30 A	800 A	600 A	500 A
McKINLEYVILLE	175 KW	3 HP	15 A	500 A	500 A	225 A
WASHINGTON	550 KW	10 HP	30 A	1000 A	1000 A	600 A
HILL	350 KW	7 1/2 HP	30 A	800 A	600 A	500 A
McCULLENS	250 KW	5 HP	15 A	600 A	400 A	500 A

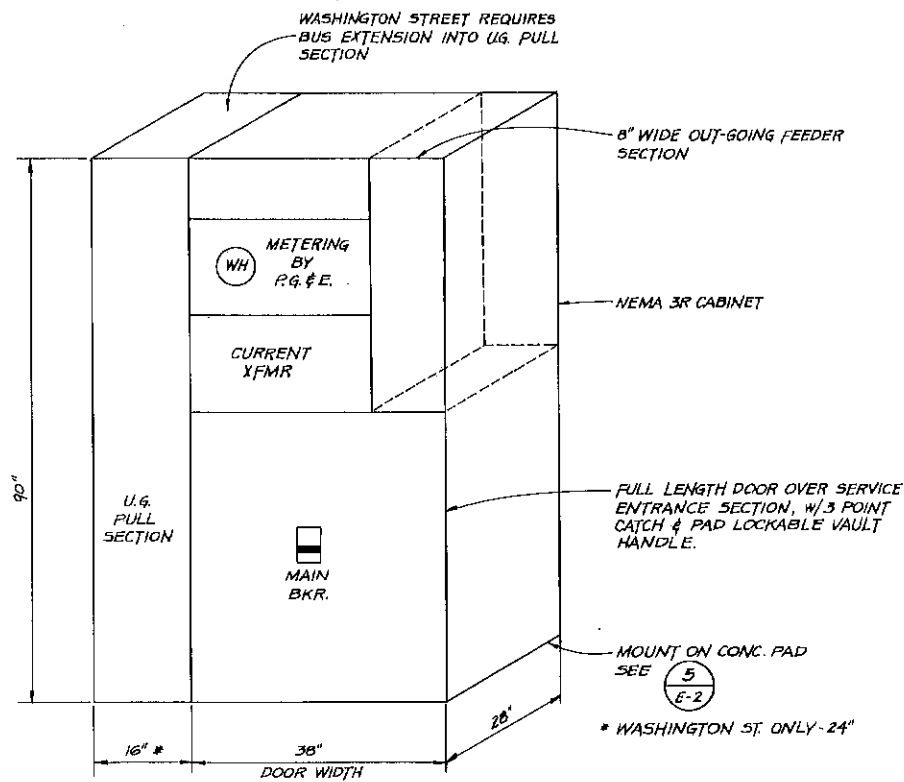


NOTE: SEE SHEETS E-5 & E-6 FOR COMPLETE MCC SINGLE LINE DIAGRAM.

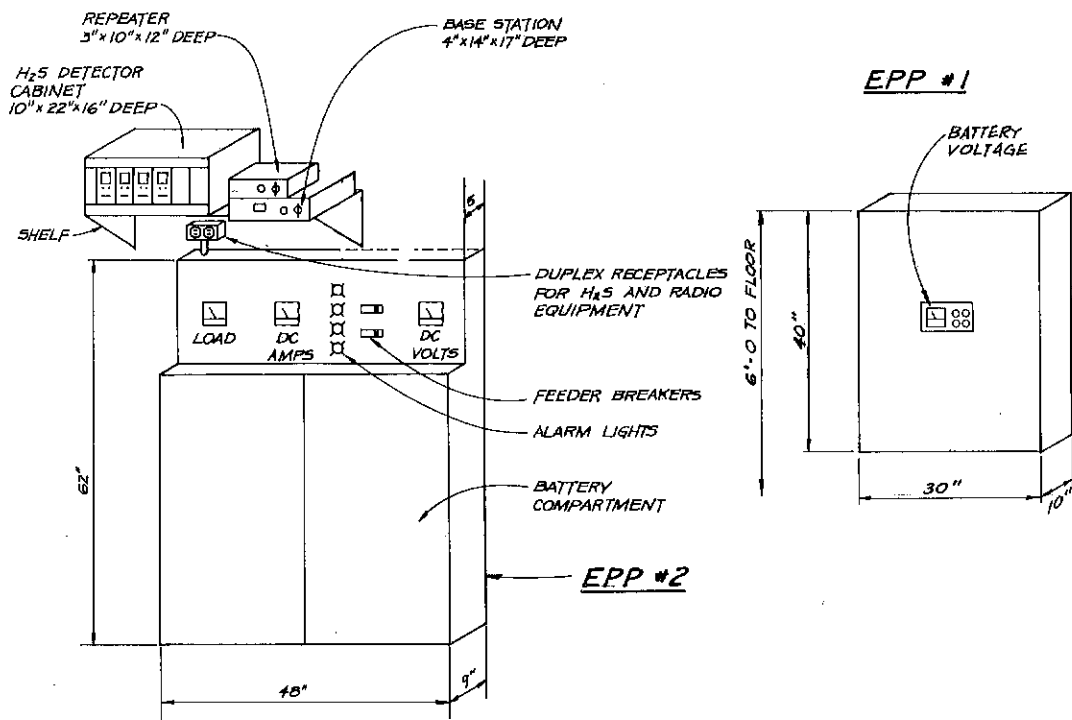


REDUCED PLANS

			DSGN RAK CHKD NUF DRWN HFM/JEM SCALE NTS	<b>WINZLER &amp; KELLY</b> CONSULTING ENGINEERS 633 3RD ST. EUREKA, CALIFORNIA (707) 443-8288		HUMBOLDT BAY WASTEWATER AUTHORITY Wastewater Project <b>SEWAGE PUMP STATION</b> <b>POWER-ONE LINE DIAGRAM</b> ELECTRICAL	JOB NO. 76-046 SHEET <b>E-3</b>
NO. DATE REVISIONS BY APPR.		Approved: <i>T.J. Westlund</i> Date: 4/8/76 <i>G.F. Kelly</i> Date: 4/8/76					



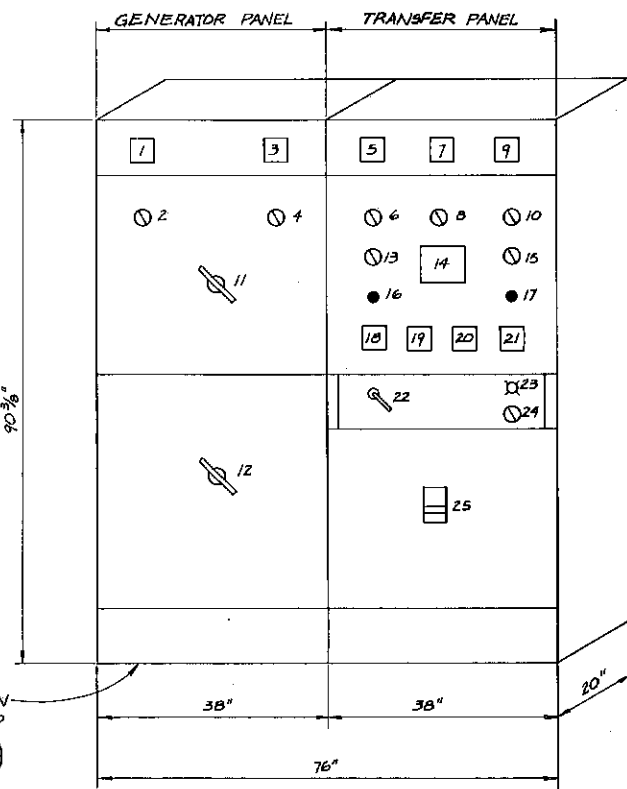
1 TYPICAL MAIN SERVICE PANEL - NEMA-3R  
3/4" = 1'-0"



2 EMERGENCY POWER PANELS  
N.T.S.

POWER FEEDER SCHEDULE

FEEDER NO	FROM	TO	SETS	CONDUIT	WIRE	REMARKS
P-1	PG&E XFMR	MAIN PANEL	3	4"	BY PG&E	2 SETS ONLY REQ'D AT McCULLENS & MCKINLEYVILLE
P-2	MCC-A	UNIT HEATER	1	3/4"	3 #10	ALL PUMP STATIONS
P-3	DIESEL GENERATOR	GENERATOR PANEL	3	3"	3 #500 MCM 1 #2/0 GND	WASHINGTON ST. PUMP STATION ONLY
P-4	DIESEL GENERATOR	GENERATOR PANEL	2	3"	3 #350 MCM 1 #1/0 GND	ARCATA & HILL PUMP STATIONS ONLY
P-5	DIESEL GENERATOR	GENERATOR PANEL	1	3"	3 #350 MCM 1 #2/0 GND	MCKINLEYVILLE PUMP STATION ONLY
P-6	TRANSFER PANEL	MCC-B	2	3"	3 #300 MCM 1 #1 GND	WASHINGTON ST. PUMP STATION ONLY
P-7	TRANSFER PANEL	MCC-B	1	3 1/2"	3 #500 MCM 1 #1 GND	ARCATA & HILL PUMP STATIONS ONLY
P-8	TRANSFER PANEL	MCC-B	1	2-1/2"	3 #4/0 1 #6 GND	MCKINLEYVILLE PUMP STATION
P-9	TRANSFER PANEL	MCC-C	2	3"	3 #300 MCM 1 #1 GND	WASHINGTON ST. PUMP STATION ONLY
P-10	TRANSFER PANEL	MCC-C	1	3 1/2"	3 #500 MCM 1 #1 GND	ARCATA - HILL PUMP STATIONS
P-11	TRANSFER PANEL	MCC-C	1	2-1/2"	3 #4/0 1 #6 GND	MCKINLEYVILLE PUMP STATION
P-12	MAIN SERVICE PANEL	TRANSFER PANEL	3	3-1/2"	3 #500 MCM 1 #2/0 GND	WASHINGTON ST. PUMP STATIONS ONLY
P-13	MAIN SERVICE PANEL	TRANSFER PANEL	2	3 1/2"	3 #500 MCM 1 #1/0 GND	ARCATA & HILL PUMP STATIONS ONLY
P-14	MAIN SERVICE PANEL	TRANSFER PANEL	2	2-1/2"	3 #4/0 MCM 1 #1/0 GND	MCKINLEYVILLE PUMP STATION
P-15	MCC-B CKT #1	MCC-A XFMR #1			MCC WIRING TROUGHS	3 #4
P-16	MCC-C CKT #1	MCC-D XFMR #2			MCC WIRING TROUGHS	3 #4
P-17	MCC-A XFMR #1	MCC-A CKT #1			MCC WIRING TROUGHS	4 #2
P-18	MCC-D XFMR #2	MCC-D CKT #1			MCC WIRING TROUGHS	4 #2
P-19	MCC-B CKT #2	MCC-E GRIT PANEL	1	1 1/2"	3 #6 1 #10 GND	ARCATA & WASHINGTON ST. PUMP STATIONS ONLY. ALSO 3-20 CKTS.
P-20	MCC-C CKT #2	MCC-F LIME TREATMENT	1	1"	2 #7/2 1 #10 GND	ARCATA & MCKINLEYVILLE PUMP STATIONS ONLY.
P-21	MCC-A CKT #2	PANEL LP1	1	1"	4 #6	ALL PUMP STATIONS
P-22	MCC-D CKT #2	PANEL LP2	1	1"	4 #6	ALL PUMP STATIONS
P-23	MCC-A	DRY WELL & CONTROL ROOM HOIST	1	3/4"	3 #10	ALL PUMP STATIONS.
P-24	DIESEL GENERATOR	GENERATOR PANEL	2	2-1/2"	3-250 MCM 1-#1/0 GND	MCCULLENS PUMP STATION
P-25	MAIN SERVICE PANEL	TRANSFER PANEL	2	3"	3-300 MCM 1 #1 GND	MCCULLENS PUMP STATION
P-26	TRANSFER PANEL	MCC-B	1	2 1/2"	3-300 MCM 1-#3 GND	MCCULLENS PUMP STATION
P-27	TRANSFER PANEL	MCC-C	1	2 1/2"	3-300 MCM 1-#3 GND	MCCULLENS PUMP STATION

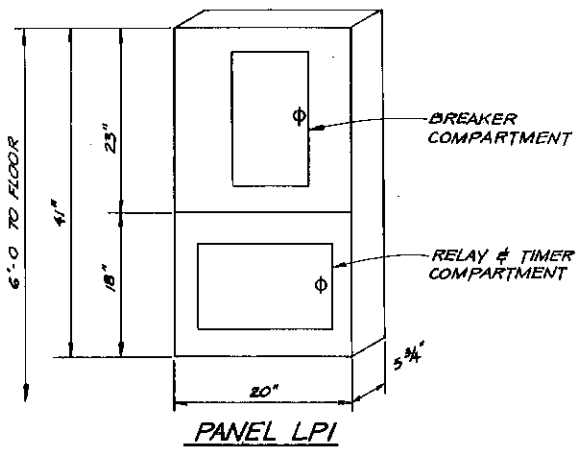


3 TYPICAL - TRANSFER & GENERATOR PANELS  
3/4" = 1'-0"

PANEL LEGEND

ITEM NO.	DESCRIPTION
1.	AMMETER - NORMAL PWR.
2.	METER TRANSFER SW - 3 POSITION
3.	VOLTMETER - NORMAL PWR.
4.	METER TRANSFER SW - 3 POSITION
5.	AMMETER - EMERGENCY PWR.
6.	METER TRANSFER SW - 3 POSITION
7.	FREQUENCY METER
8.	SPEED ADJUST.
9.	VOLTMETER - EMERGENCY POWER
10.	METER TRANSFER SW - 3 POSITION
11.	ATS - B AUTO TRANSFER SW.
12.	ATS - C AUTO TRANSFER SW.
13.	OPERATOR - HAND-OFF - AUTO.
14.	ALARM PANEL - SEE DETAIL.
15.	VOLTAGE ADJUST.
16.	MANUAL START - PB
17.	EMERGENCY STOP - PB
18.	OIL PRESSURE METER
19.	OIL TEMPERATURE METER
20.	WATER TEMPERATURE METER
21.	ELAPSED TIME METER
22.	RADIATOR FAN - SIZE 1 STARTER
23.	INDICATOR LIGHT - RED
24.	OPERATOR - HAND-OFF - AUTO.
25.	MAIN BKR. (EMERGENCY PWR.)

2 E-24



4 LIGHTING PANELS  
N.T.S.



NO.	DATE	REVISIONS	BY	APPR.



DRGN	RAK	CHKD	WJF
DRWN	HFM/RTB	SCALE	NOTED

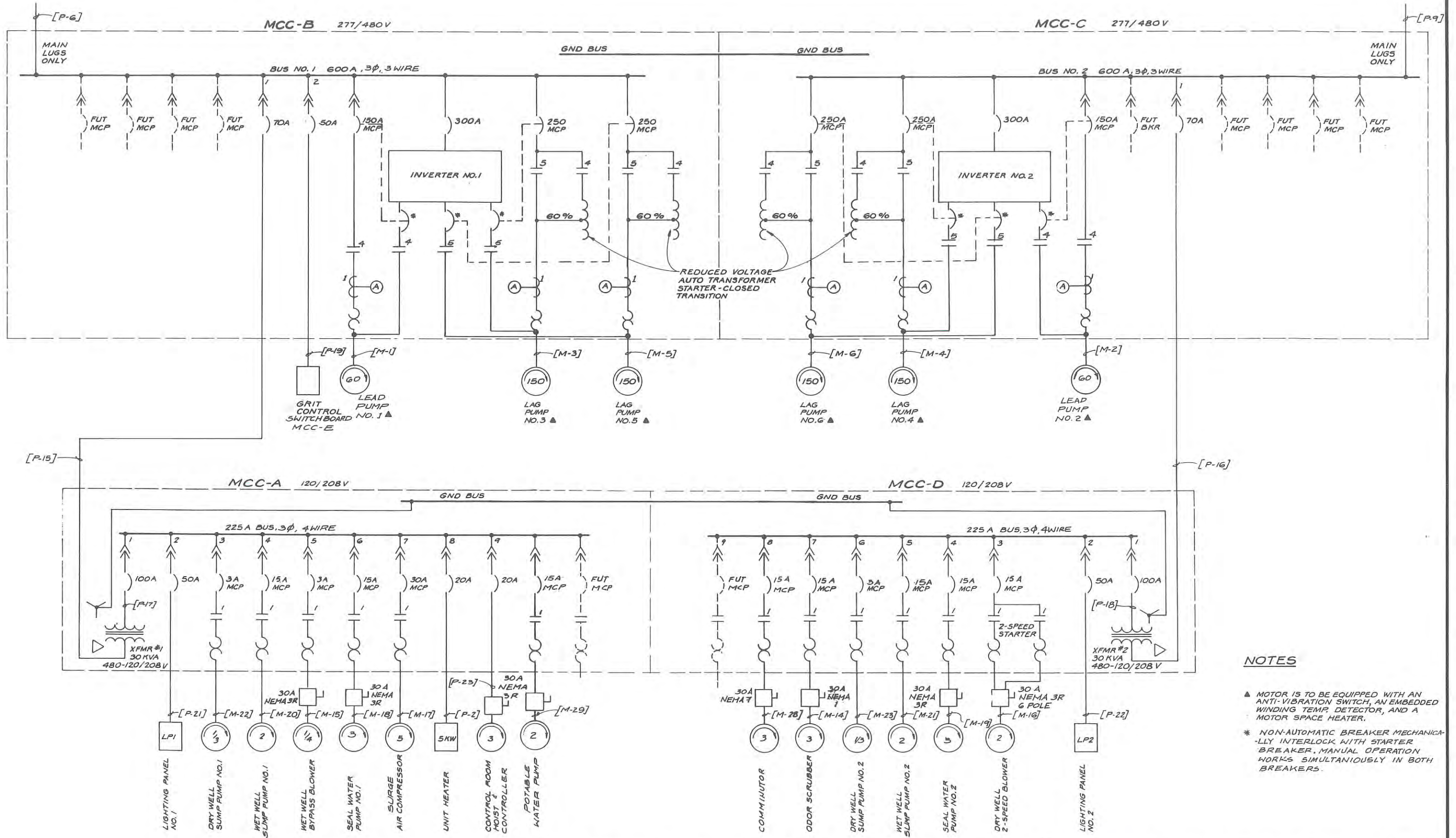
**WINZLER & KELLY**  
CONSULTING ENGINEERS  
603 3RD ST. EUREKA, CALIFORNIA (707) 443-8328



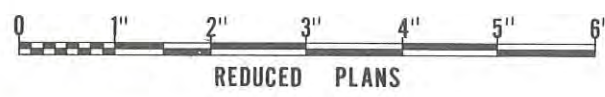
HUMBOLDT BAY WASTEWATER AUTHORITY  
Wastewater Project  
**SEWAGE PUMP STATION**  
**POWER PANEL ELEVATIONS**  
**& FEEDER SCHEDULE**  
ELECTRICAL

JOB NO.  
76-046  
SHEET  
E-4





- NOTES**
- ▲ MOTOR IS TO BE EQUIPPED WITH AN ANTI-VIBRATION SWITCH, AN EMBEDDED WINDING TEMP. DETECTOR, AND A MOTOR SPACE HEATER.
  - \* NON-AUTOMATIC BREAKER MECHANICALLY INTERLOCK WITH STARTER BREAKER. MANUAL OPERATION WORKS SIMULTANEOUSLY IN BOTH BREAKERS.



NO.	DATE	REVISIONS	BY	APPR.

DESIGN: RAK, CHKD: WJF  
 DRAWN: HFM/JEM, SCALE: NTS

Approved: *J. Westlund* 11/8/76  
 Approved: *R. Kelly* 4/5/76

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 633 3RD ST. EUREKA, CALIFORNIA (707) 443-8326

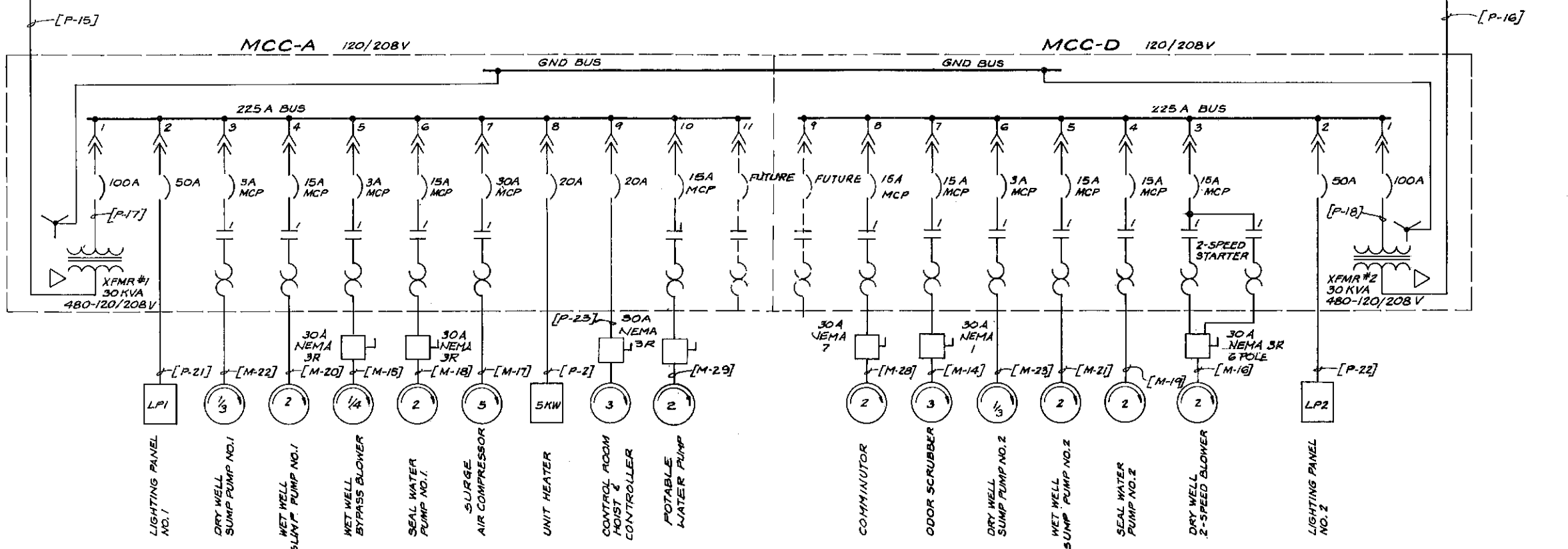
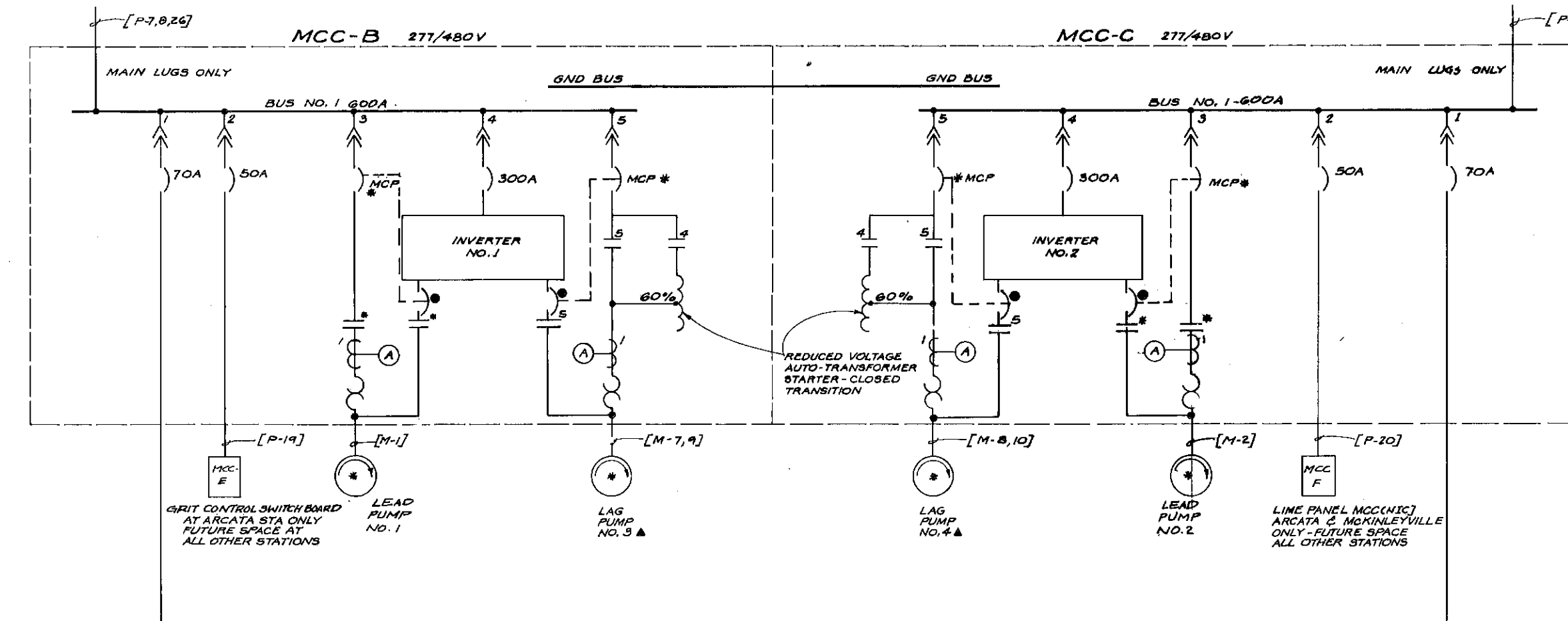


HUMBOLDT BAY WASTEWATER AUTHORITY  
 Wastewater Project

WASHINGTON ST. SEWAGE PUMP STATION  
**MOTOR CONTROL-ONE LINE  
 DIAGRAM**  
 ELECTRICAL

JOB NO. 76-046  
 SHEET E-5





**SCHEDULE**

STATION	CKT #5 MCP RATING	LAG PUMPS MOTOR RATING	LEAD PUMPS MOTOR RATING	LEAD PUMPS STARTER SIZE	CKT #5 MCP RATING
ARCATA & HILL	400A	200HP MAX	60 HP	4	150A
MCCULLENS & MCKINLEYVILLE	250A	125 HP MAX	30 HP MAX	3	100A

**NOTES**

- \* FOR RATING SEE SCHEDULE ABOVE
- ▲ MOTOR IS TO BE EQUIPPED WITH AN ANTI-VIBRATION SWITCH, AN EMBEDDED WINDING TEMP. DETECTOR, AND A MOTOR SPACE HEATER.
- NON-AUTOMATIC BREAKER MECHANICALLY INTERLOCK WITH STARTER BREAKER. MANUAL OPERATION WORKS SIMULTANEOUSLY IN BOTH BREAKERS.

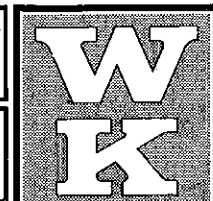


NO.	DATE	REVISIONS	BY	APPR.

DSGN	RAK	CHKD	WJF
DRWN	HFM/JEM	SCALE	NTS
Approved	Travis J. Westlund		date 11/27/16
Approved	G. F. Kelly		date 4/15/16

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633 2RD ST. EUREKA, CALIFORNIA (707) 443-3328



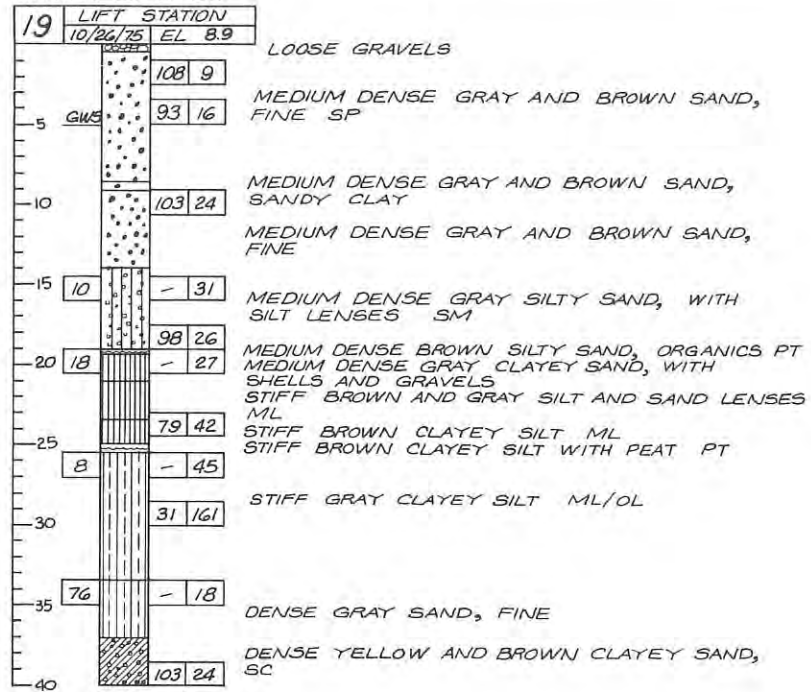
HUMBOLDT BAY WASTEWATER AUTHORITY  
Wastewater Project

MCKINLEYVILLE, ARCATA, HILL ST., MCCULLENS ST., SEWAGE PUMP STATION

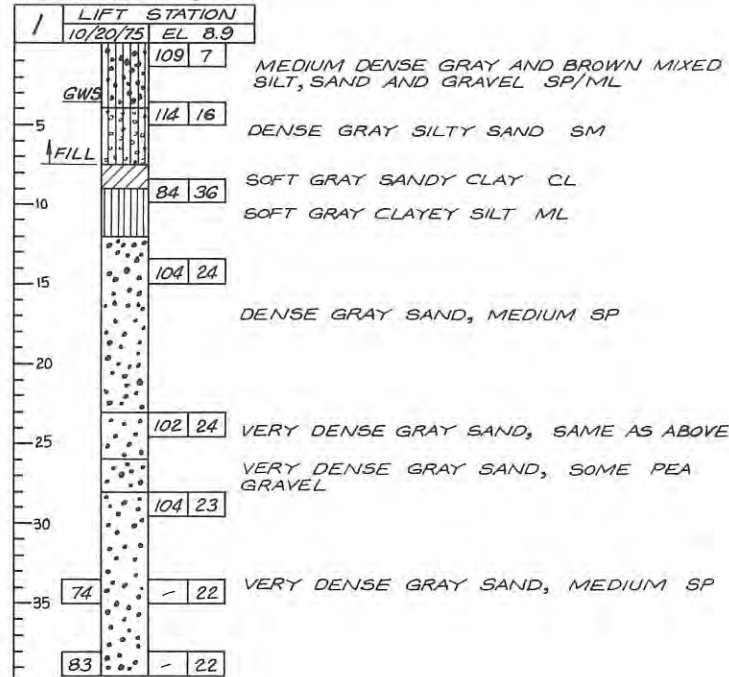
**MOTOR CONTROL-ONE LINE DIAGRAM**  
ELECTRICAL

JOB NO. 76-046  
SHEET E-6

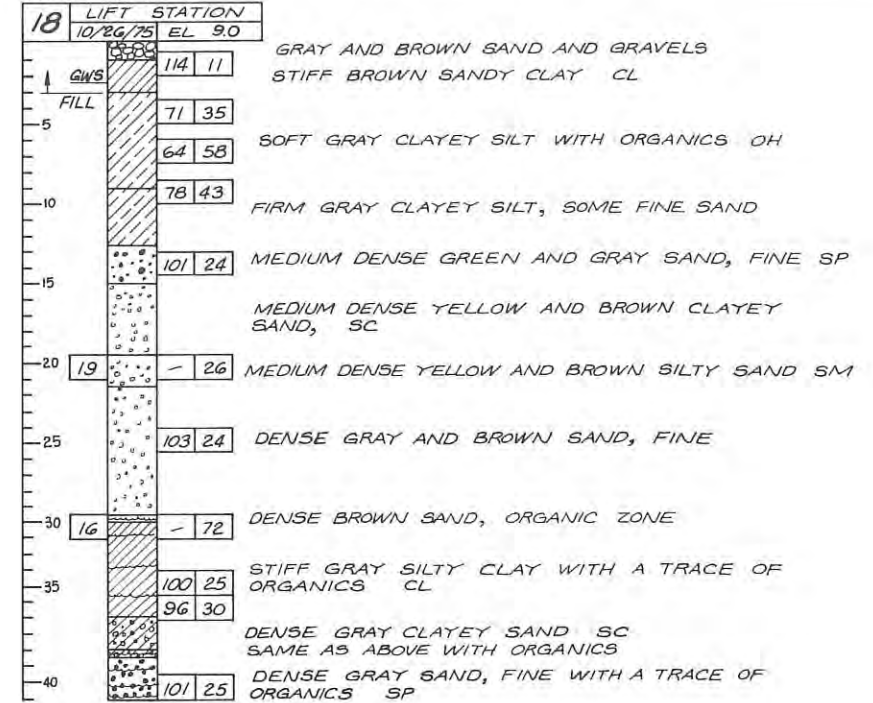
**McCULLENS ST.**



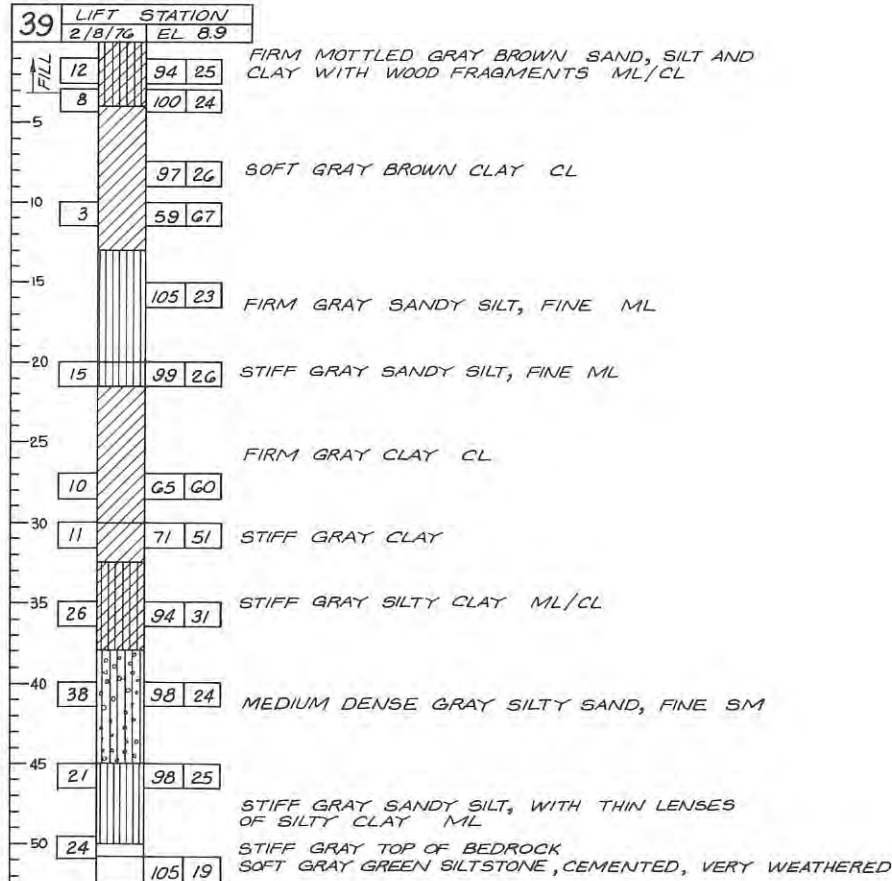
**WASHINGTON ST.**



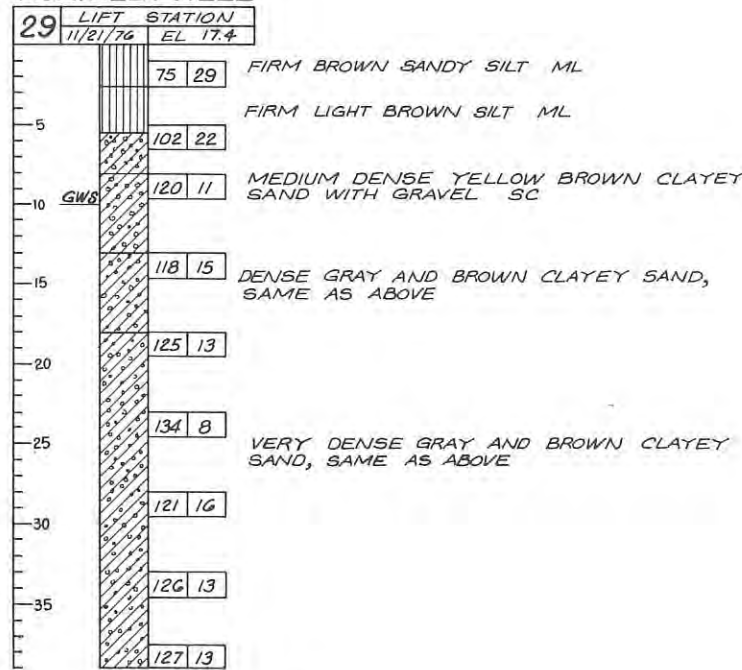
**HILL ST.**



**ARCATA**



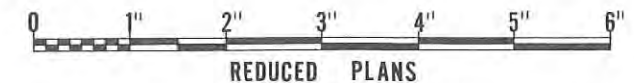
**McKINLEYVILLE**



**LEGEND**

- BLOWS PER FOOT (USING A 140 LB. HAMMER WITH A 30" DROP)
- GWS GROUND WATER SURFACE
- UNIT WEIGHT (#/CU.FT.)
- % MOISTURE
- SP POORLY GRADED SAND OR GRAVELLY SAND, LITTLE OR NO FINES.
  - SM SILTY SAND, SAND-SILT MIXTURES
  - SC CLAYEY SAND, SAND-SILT MIXTURES
  - ML INORGANIC SILT AND VERY FINE SAND, ROCK FLOUR, SILTY OR CLAYEY FINE SAND OR CLAYEY SILT WITH SLIGHT PLASTICITY.
  - CL INORGANIC CLAY OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAY, SANDY CLAY, SILTY CLAY, LEAN CLAY.
  - OL ORGANIC SILT AND ORGANIC SILT-CLAY OF LOW PLASTICITY.
  - OH ORGANIC CLAY OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILT.
  - PT PEAT AND OTHER HIGHLY ORGANIC SOILS.

**NOTE:**  
BORING LOGS AND RELATED INFORMATION DEPICT SUB-SURFACE SOIL AND GROUND WATER CONDITIONS AT THE SPECIFIC LOCATIONS AND AT THE PARTICULAR TIME DESIGNATED ON THE LOG, AND IT IS NOT WARRANTED THAT THE CONDITIONS SHOWN ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS OR AT OTHER TIMES. THE SOIL CLASSIFICATIONS ARE IN ACCORDANCE WITH THE UNIFIED SOILS CLASSIFICATION SYSTEM AND ARE BASED ON FIELD EXAMINATION, LABORATORY TESTING AND INTERPRETATIONS THEREOF.

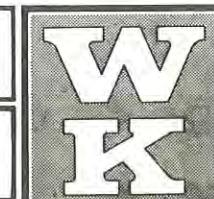


NO.	DATE	REVISIONS	BY	APPR.

DSGN	—	CHKD	JJ
DRWN	MG	SCALE	SHOWN
Approved	Henry O. Schwabert, 11/6/76		
Checked	G. F. Kelly, 11/6/76		

**WINZLER & KELLY**  
CONSULTING ENGINEERS  
633 3RD ST. EUREKA, CALIFORNIA (707) 443-8326

**OSCAR LAWSON & ASSOC.**  
CONSULTING ENGINEERS & LAND SURVEYORS  
EUREKA, CALIF. 95501



HUMBOLDT BAY WASTEWATER AUTHORITY  
Wastewater Project

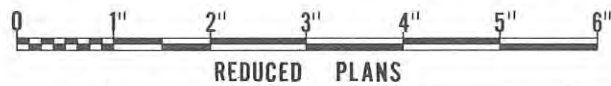
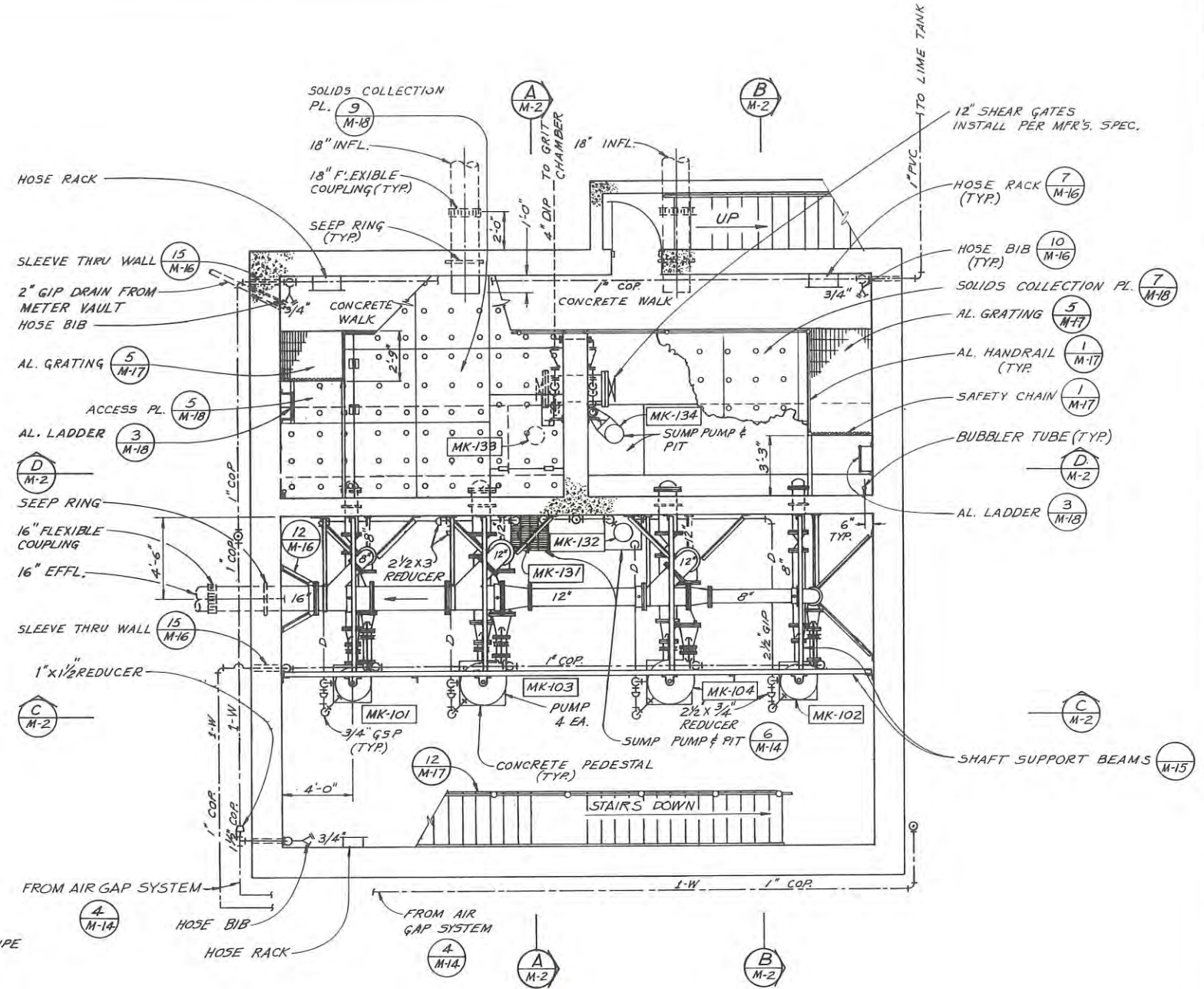
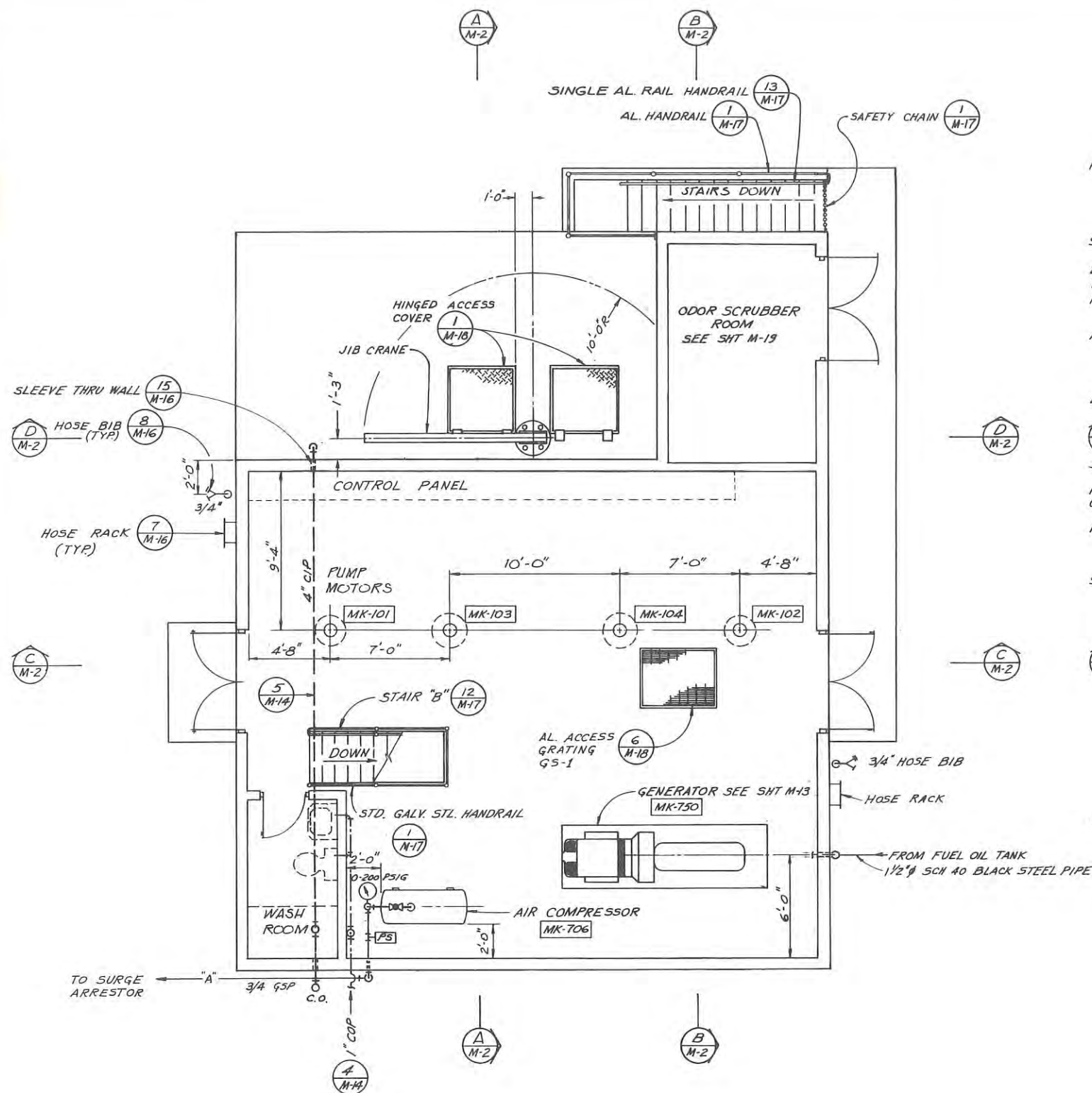
SEWAGE PUMP STATION

**BORING LOGS**

GENERAL

JOB NO.	76-046
SHEET	G-9





CONTROL ROOM FLOOR PLAN  
1/4" = 1'-0"

DRY WELL AND WET WELL FLOOR PLAN  
1/4" = 1'-0"

NO.	DATE	REVISIONS	BY	APPR.



DSGN	EH	CHKD	KGD
DRWN	RMS/JBH	SCALE	SHOWN
APPROVED	<i>Kenneth Harsh</i>	DATE	6/25/76
APPROVED	<i>Oscar Kelly</i>	DATE	4/6/76

**WINZLER & KELLY**  
CONSULTING ENGINEERS  
633 3RD ST. EUREKA, CALIFORNIA (707) 443-8326

**OSCAR LARSON & ASSOC.**  
CONSULTING ENGINEERS & LAND SURVEYORS  
EUREKA, CALIF. 95501



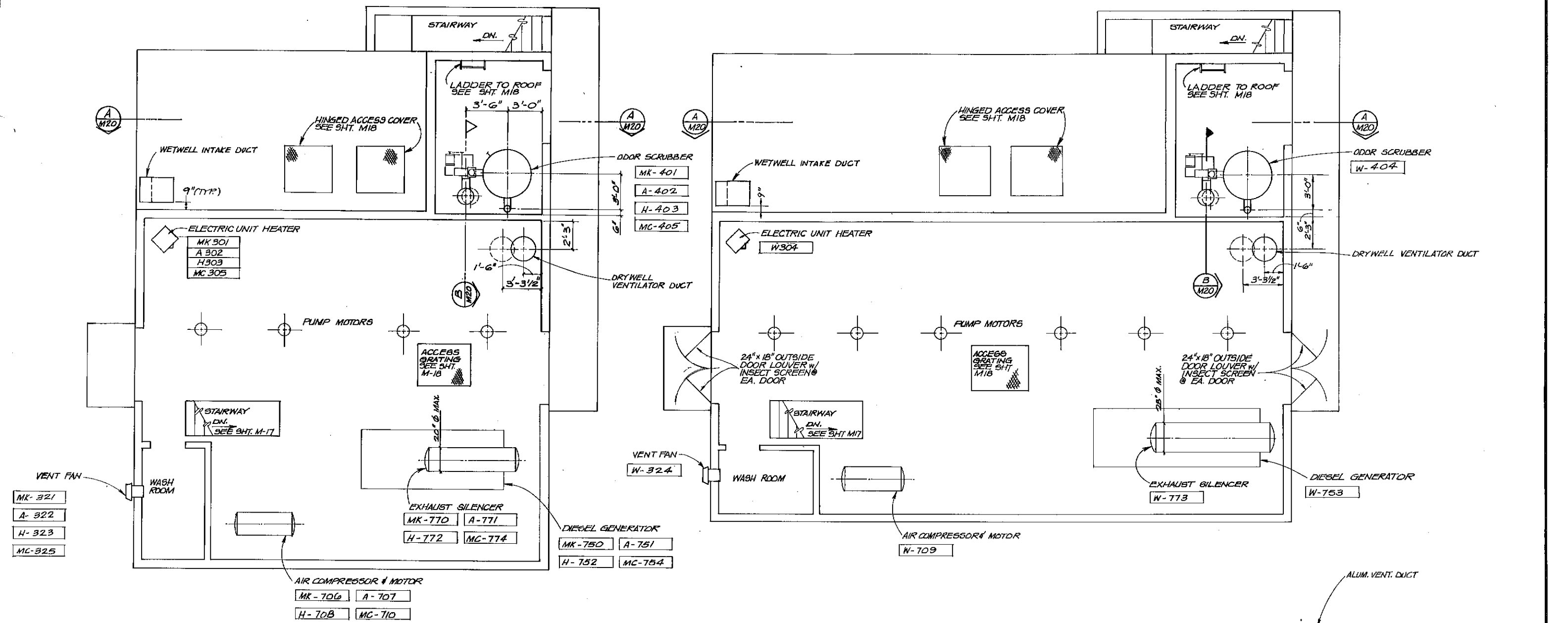
HUMBOLDT BAY WASTEWATER AUTHORITY  
Wastewater Project

**McKINLEYVILLE SEWAGE PUMP STATION**  
FLOOR PLANS  
MECHANICAL

JOB NO.	76-046
SHEET	M-1







McKINLEYVILLE - ARCATA - HILL - McCULLENS

WASHINGTON

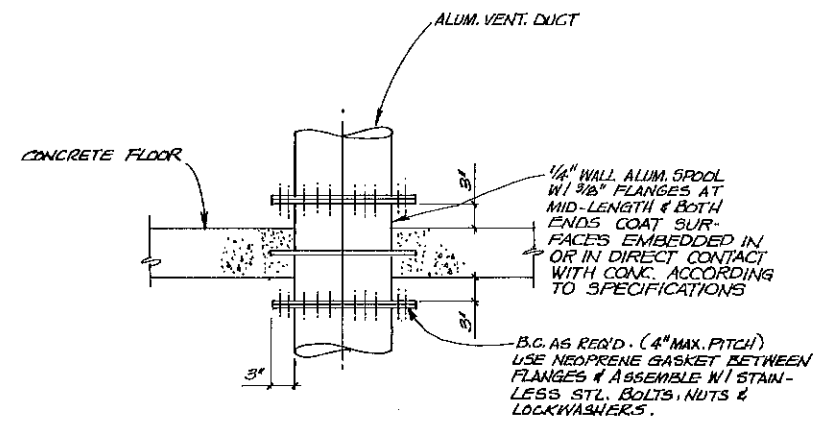
**TYPICAL PLANS**  
1/4" = 1'-0"

**EXHAUST FAN**

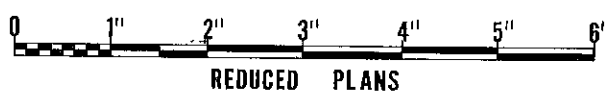
NAME	EQPT. DESIG.	VOL. C.F.M.	SP. IN H <sub>2</sub> O	MOTOR H.P. MIN.	SPEED	DRIVE	OPERATION	REMARKS
WASH ROOM	MK-321 A-322 H-323 W-324 MC-325	200	.125	1/2	1	DIRECT	LIGHT SWITCH	
DRY WELL	MK-316 A-317 H-318 W-319 MC-320	3300	.02	2	4	BELT		HIGH SPEED 9900 CFM @ 2" W.C. - TO BE ACTIVATED BY GENERATOR
WET WELL	MK-311 A-312 H-313 W-314 MC-315	1970	.25	1/4	1	BELT		

**UNIT HEATERS**

EQPT. DESIG.	VOL. C.F.M.	W/H.P.	KW	RPM	VOLTS	PHASE	REMARKS
MK-301 A-302 H-303 W-304 MC-305	360	14	5	1250	208	3	ELECTRIC UNIT



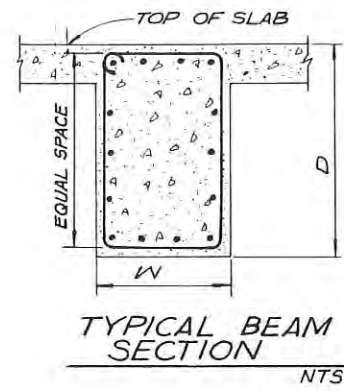
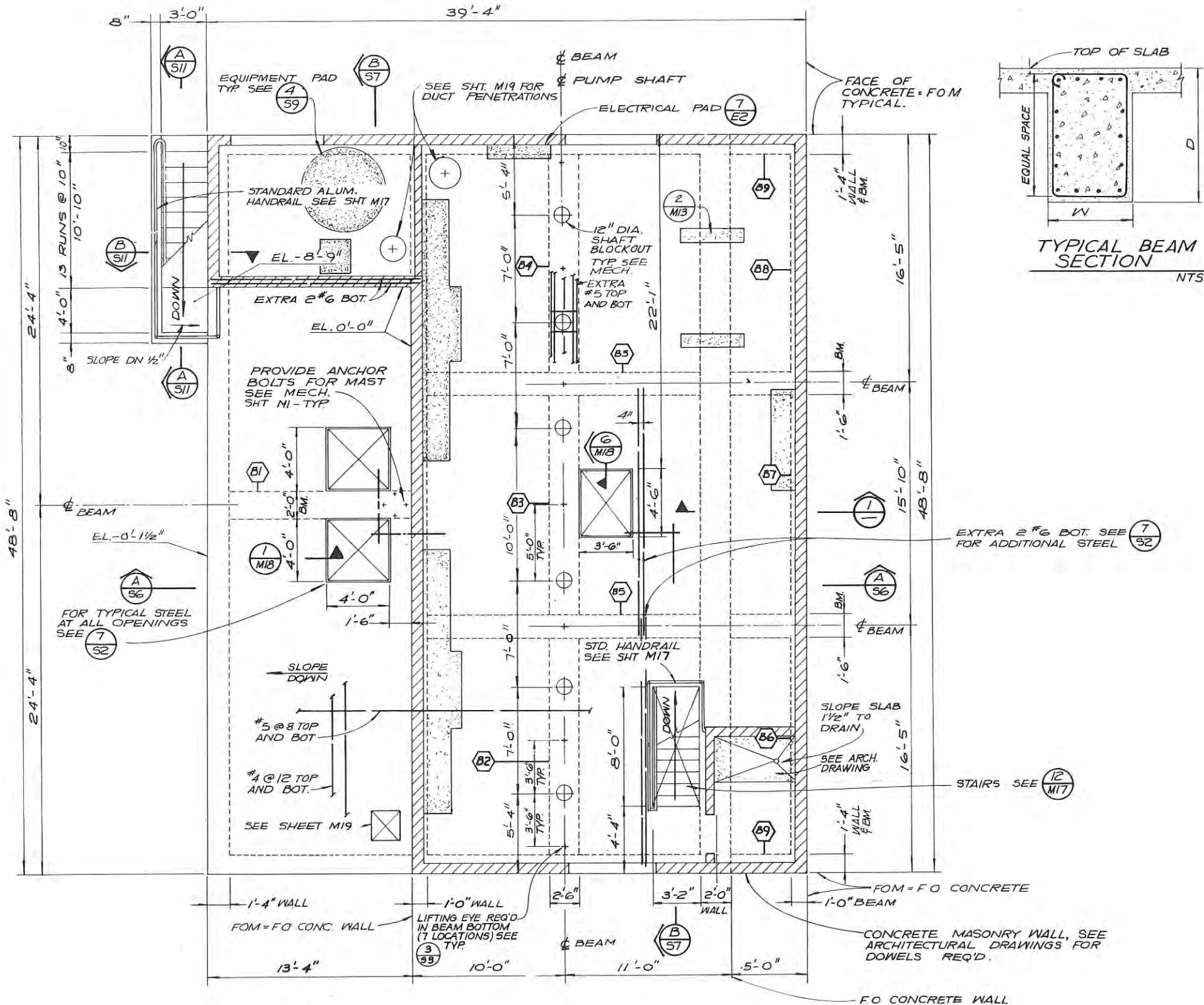
1 M20 TYPICAL DUCT PENETRATION NTS



REDUCED PLANS

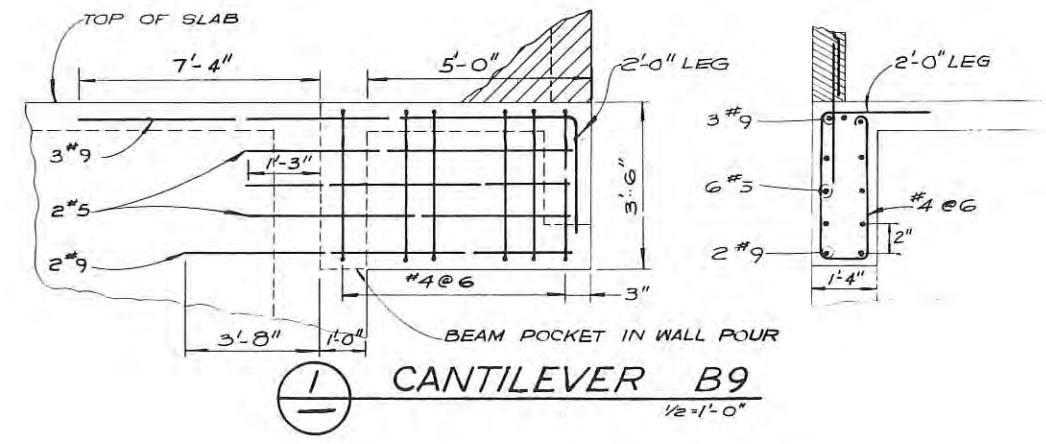
			DRWN JA CHKD AFS/gt SCALE SHOWN APPROVED <i>Donna H. Halon</i> 11/10/76 APPROVED <i>R. Kelly</i> 11/10/76	<b>WINZLER &amp; KELLY</b> CONSULTING ENGINEERS 833 3RD ST. EUREKA, CALIFORNIA (707) 443-8328		HUMBOLDT BAY WASTEWATER AUTHORITY Wastewater Project <b>SEWAGE PUMP STATION</b> <b>SCRUBBER &amp; VENTILATION SYSTEM</b> PLANS MECHANICAL	JOB NO. 76-046-102 SHEET M-19
NO.	DATE	REVISIONS	BY	APPR.			



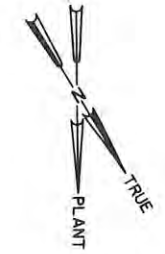


BEAM NO.	BEAM SIZE		REINFORCING		STIRRUPS
	W	D	REINFORCING	SUPPORT	
B1	24	18	2#6	4#6	#3 @ 12
B2	30	24	4#9	2#5	#4 @ 12
B3	30	24	4#9	2#5	#4 @ 12
B4	30	24	4#9	2#5	#4 @ 12
B5	18	42	3#9 2#5	5#9	#4 @ 12 EXCEPT CANTL. #4 @ 6
B6	12	30	2#8 2#5		#3 @ 12
B7	12	30	2#8 2#5		#3 @ 12
B8	12	30	2#8 2#5		#3 @ 12

- NOTES
- INDICATES STANDARD HOOK
  - RUN LONGITUDINAL STEEL TO WITHIN 4" OF FAR SIDE OF SUPPORTING BEAM OR WALL UNO
  - STEEL IS SHOWN LOOKING UP OR TO THE LEFT ON DRAWING.
  - SEE SHEET S1 FOR STANDARD CONCRETE DETAILS, WHICH APPLY HERE.



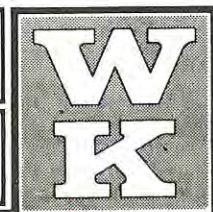
- NOTES:
- SEE SHEETS S1 THRU S3 FOR GENERAL NOTES AND STANDARD DETAILS.
  - SEE MECHANICAL AND ELECTRICAL SHEETS FOR EMBEDDED ITEMS, AND PAD LOCATIONS.
  - SEE SITE DRAWINGS FOR MISC. SLABS, PADS, ETC. ADJOINING THIS STRUCTURE.
  - SEE SHEET S5 FOR CONSTRUCTION NOTES.
  - ELEVATIONS ARE REFERENCED TO NOMINAL TOP OF GROUND FLOOR SLAB.
  - SEE SITE DRAWINGS FOR STRUCTURE ORIENTATION AND LOCATIONS.
  - PROVIDE 6" x 1/4" P.V.C. BULB WATER STOPS IN ALL EXTERIOR CONSTRUCTION JOINTS BELOW EL.-2'-0". TYPICAL DRY AND WET WELLS.



NO.	DATE	REVISIONS	BY	APPR.

DSGN	G.S.	CHKD	J.J.
DRWN	F.D.	SCALE	SHOWN
APPROVED	date 4/17/76		
APPROVED	date 4/2/76		

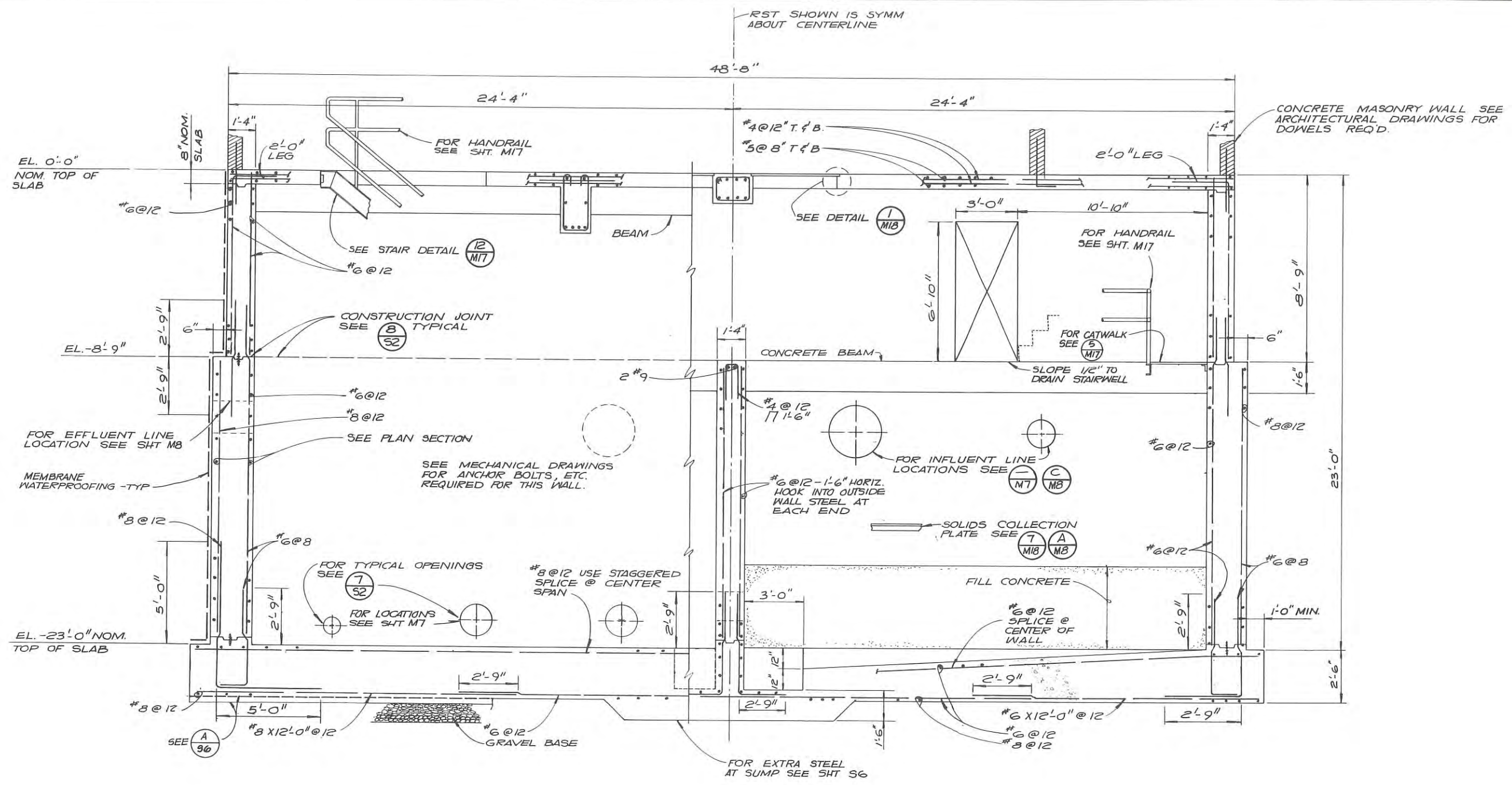
**WINZLER & KELLY**  
 CONSULTING ENGINEERS  
 633 3RD ST. EUREKA, CALIFORNIA (707) 443-8325



HUMBOLDT BAY WASTEWATER AUTHORITY  
 Wastewater Project  
 WASHINGTON ST. SEWAGE PUMP STATION  
**GROUND FLOOR PLAN & DETAILS**  
 STRUCTURAL

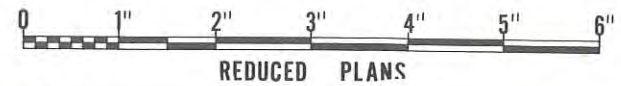
JOB NO. 76-046-102  
 SHEET S4





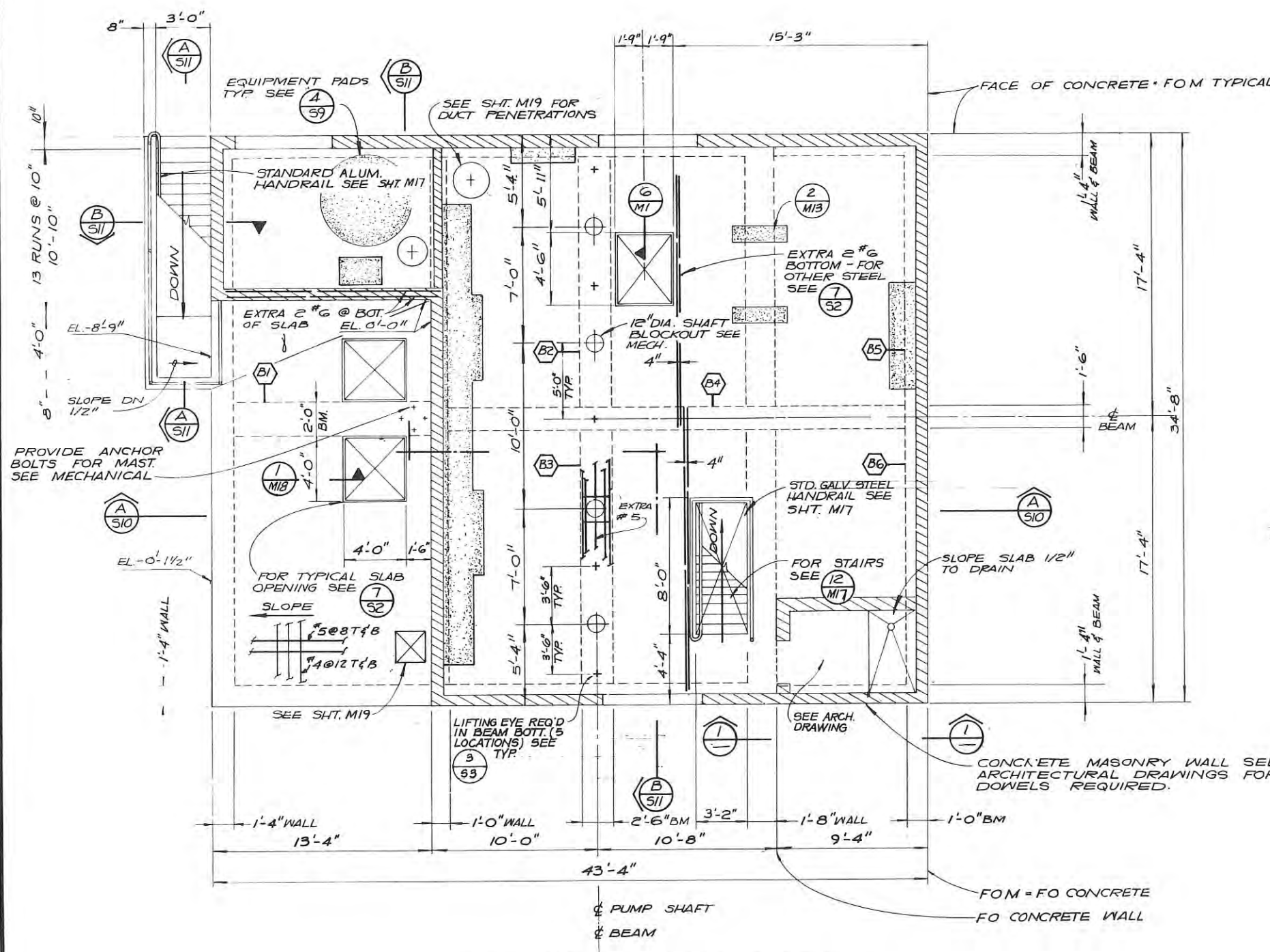
B  
S4 S5 3/8"=1'-0"

NOTES:  
1. SEE SHEET S4.



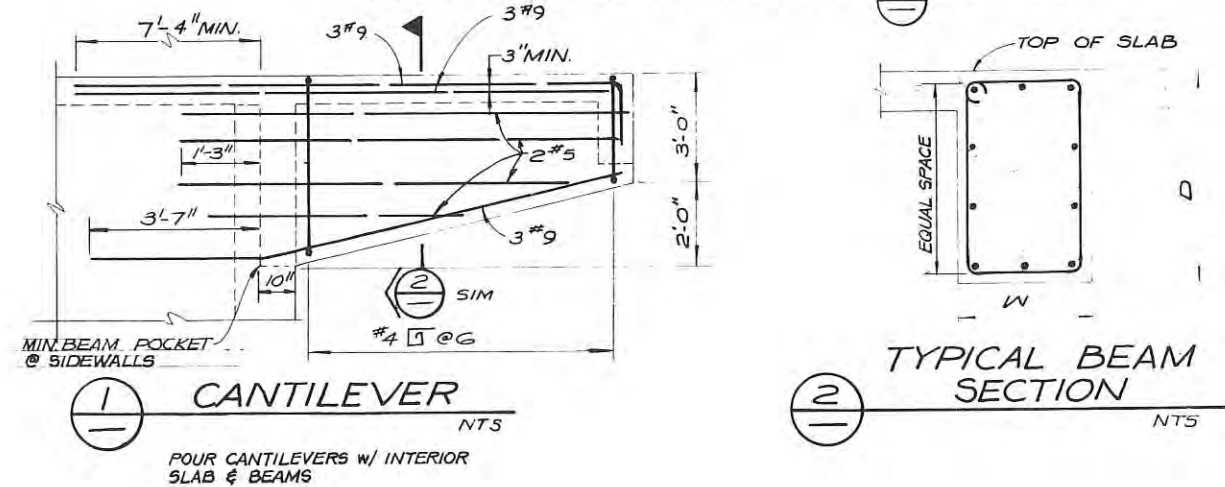
	DSGN G.S. CHKD J.J. DRWN F.D. SCALE SHOWN	<b>WINZLER &amp; KELLY</b> CONSULTING ENGINEERS 833 3RD ST. EUREKA, CALIFORNIA (707) 443-8328		HUMBOLDT BAY WASTEWATER AUTHORITY Wastewater Project	JOB NO. 76-046-102
	NO. DATE REVISIONS BY APPR.			Approved: <i>R. Kelly</i> 11/2/76 Approved: <i>G. Kelly</i> 11/2/76	WASHINGTON ST. SEWAGE PUMP STATION SUBSTRUCTURE SECTION & DETAILS STRUCTURAL



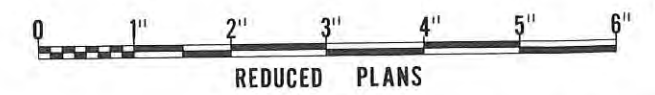


BEAM NO.	BEAM SIZE		REINFORCING		STIRRUPS
	W	D	CL. SUPPORT	CL. SUPPORT	
B1	24	18	2#6	4#6	#3@12
B2	30	24	4#8	2#5	#4@12
B3	30	24	4#8	2#5	#4@12
B4	18	42	3#9 2#5 5#9	3#9	#4@12
B5	12	30	2#8 2#5		#3@12
B6	12	30	2#8 2#5		#3@12

NOTE:  
 1. INDICATES STANDARD HOOK  
 2. RUN LONGITUDINAL STEEL TO WITHIN 4" OF FAR SIDE OF SUPPORTING BEAM OR WALL UNO  
 3. STEEL IS SHOWN LOOKING UP OR TO THE LEFT ON DRAWING.  
 4. SEE SHEET S2 FOR STANDARD CONCRETE DETAILS WHICH APPLY HERE.  
 5. DEPTH OF CANTILEVER TO BE SAME AS DET. 1 WIDTH TO BE AS SHOWN.



NOTES:  
 1. SEE SHEETS S1 THRU S3 FOR GENERAL NOTES AND STANDARD DETAILS.  
 2. SEE MECHANICAL AND ELECTRICAL SHEETS FOR EMBEDDED ITEMS AND PAD LOCATIONS  
 3. SEE SITE DRAWINGS FOR MISCELLANEOUS SLABS, PADS, ETC. ADJOINING THIS STRUCTURE  
 4. SEE SHEET S5 FOR CONSTRUCTION NOTES WHICH APPLY HERE.  
 5. ELEVATIONS ARE REFERENCED TO NOMINAL TOP OF GROUND FLOOR SLAB  
 6. SEE SITE DRAWINGS FOR STRUCTURE LOCATIONS AND ORIENTATION.

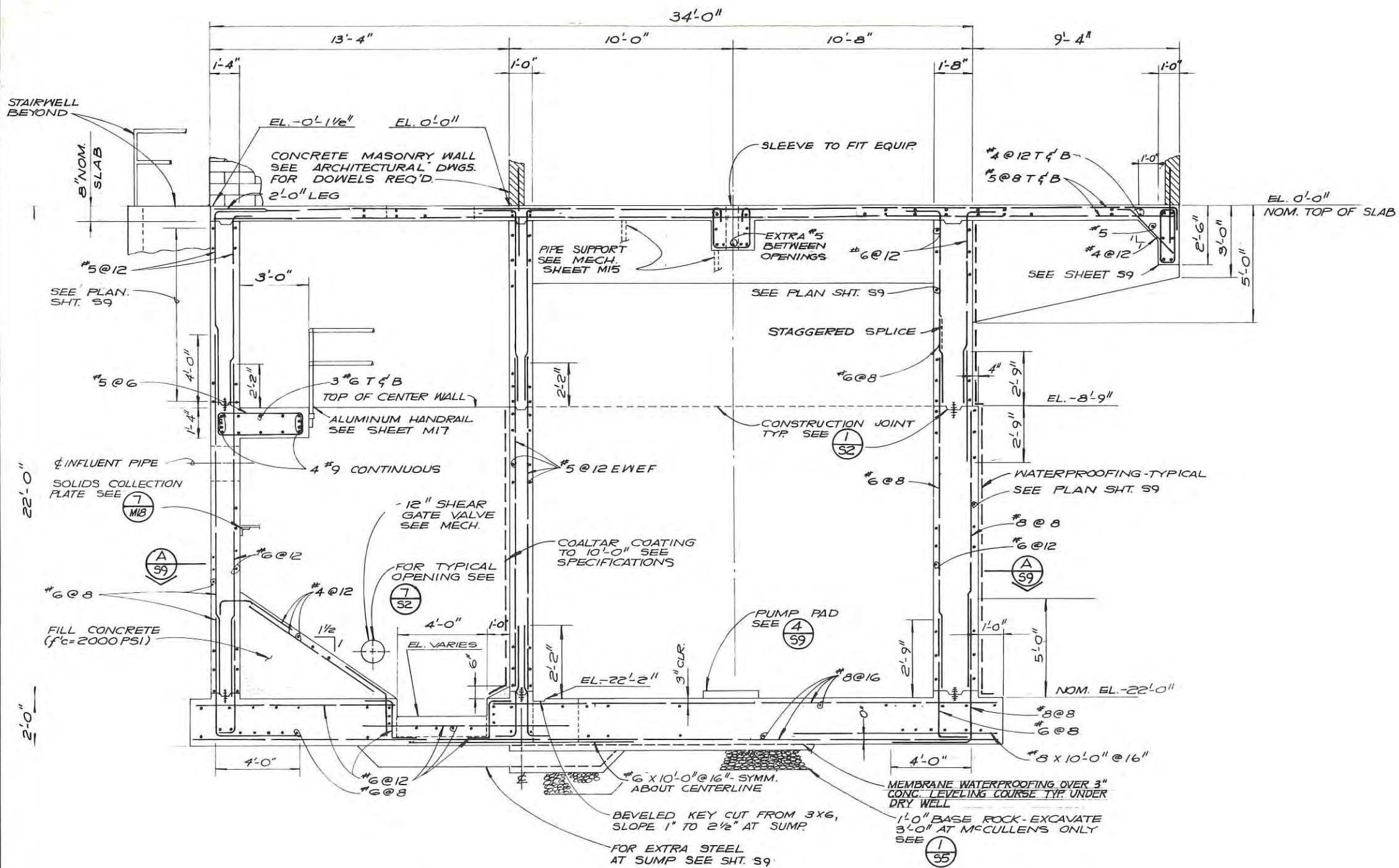


	DSGN	G.S.	CHKD	J.J.	<b>WINZLER &amp; KELLY</b> CONSULTING ENGINEERS 633 3RD ST. EUREKA, CALIFORNIA (707) 443-8326		HUMBOLDT BAY WASTEWATER AUTHORITY Wastewater Project ARCATA, MCKINLEYVILLE, HILL ST., McCULLEN ST., SEWAGE PUMP STATION <b>GROUND FLOOR PLAN &amp; DETAILS</b> STRUCTURAL	JOB NO. 76-046-102
	DRWN	F.D.	SCALE	SHOWN				SHEET S8
NO. DATE REVISIONS BY APPR.		APPROVED <i>R. F. Kelly</i> 4/24/76		DATE 11/7/76				

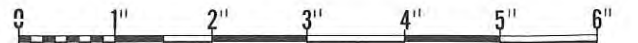








NOTES:  
1. SEE SHEET S4.



REDUCED PLANS

NO.	DATE	REVISIONS	BY	APPR.



DSGN	G.S.	CHKD	J. J.
DRWN	F.D.	SCALE	SHOWN
APPROVED			
APPROVED			

**WINZLER & KELLY**  
CONSULTING ENGINEERS  
633 3RD ST. EUREKA, CALIFORNIA (707) 443-8326



HUMBOLDT BAY WASTEWATER AUTHORITY  
Wastewater Project  
ARCATA, MCKINLEYVILLE, HILL ST., McCULLEN ST., SEWAGE PUMP STATION  
**SUBSTRUCTURE SECTION & DETAILS**  
STRUCTURAL

JOB NO.  
76-046-102  
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