

REQUEST FOR QUALIFICATIONS, PROPOSALS, OR  
CONSTRUCTION (INCLUDES 2 STEP BID)

22-RG0128/AP

CAPACITY EXPANSION RIDGE MANOR WASTEWATER  
RECLAMATION FACILITY

County of Hernando  
15470 Flight Path Drive  
Brooksville, FL 34604



RELEASE DATE: May 31, 2023

DEADLINE FOR QUESTIONS: June 12, 2023

RESPONSE DEADLINE: July 3, 2023, 10:00 am

RESPONSES MUST BE SUBMITTED ELECTRONICALLY TO:

<https://secure.procurenow.com/portal/hernandocounty>

County of Hernando  
REQUEST FOR QUALIFICATIONS, PROPOSALS, OR CONSTRUCTION  
(INCLUDES 2 STEP BID)  
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Capacity Expansion Ridge Manor Wastewater Reclamation Facility

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A - Exhibit A Prof Services Agreement

B - Exhibit B Scope of Services upd 5 24 23

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## 1. INTRODUCTION

### 1.1. Summary

Hernando County is requesting sealed Proposals from qualified individuals or firms to provide Engineering Services for the Capacity Expansion of the Ridge Manor Wastewater Reclamation Facility including Design and Addition of an Emergency Operations Structure.

### 1.2. Contact Information

**Alisa Pike**

Procurement Coordinator

15470 Flight Path Drive

Brooksville, FL 34604

Email: [alisap@co.hernando.fl.us](mailto:alisap@co.hernando.fl.us)

Phone: [\(352\) 754-4020](tel:(352)754-4020)

**Department:**

Procurement Department

**Department Head:**

Toni Brady

Chief Procurement Officer

### 1.3. Timeline

<b>Advertisement</b>	May 31, 2023
<b>Pre-submittal Conference (Mandatory)</b>	June 8, 2023, 10:00am Hernando County Utilities Department 15365 Cortez Blvd Brooksville, FL 34613
<b>Site Visit (Mandatory) following directly after Pre-Submittal Conference</b>	Ridge Manor Wastewater Treatment Plant 5095 Kettering Road Brooksville, FL 34602
<b>Date Questions Due</b>	June 12, 2023, 5:00pm
<b>Date Answers Due to all Firms</b>	June 14, 2023, 5:00pm

<p style="text-align: center;"><b>RFQ Submittal Due</b></p>	<p>July 3, 2023, 10:00am                  Join Zoom Meeting  <a href="https://hernandoclerk.zoom.us/j/92161001651?pwd=a2hqSHA1eG1SZHNhYWN0SUVndWQ0UT09">https://hernandoclerk.zoom.us/j/92161001651?pwd=a2hqSHA1eG1SZHNhYWN0SUVndWQ0UT09</a></p> <p>Meeting ID: 921 6100 1651                  Passcode: 234224</p> <p>One tap mobile                  +13052241968,,92161001651#,,,,*234224#                  US                  +16469313860,,92161001651#,,,,*234224#                  US</p> <p>Dial by your location                  +1 305 224 1968 US                  +1 646 931 3860 US                  +1 301 715 8592 US (Washington DC)                  +1 309 205 3325 US                  +1 312 626 6799 US (Chicago)                  +1 646 558 8656 US (New York)                  +1 669 444 9171 US                  +1 669 900 6833 US (San Jose)                  +1 689 278 1000 US                  +1 719 359 4580 US                  +1 253 205 0468 US                  +1 253 215 8782 US (Tacoma)                  +1 346 248 7799 US (Houston)                  +1 360 209 5623 US                  +1 386 347 5053 US                  +1 507 473 4847 US                  +1 564 217 2000 US</p> <p>Meeting ID: 921 6100 1651                  Passcode: 234224                  Find your local number:  <a href="https://hernandoclerk.zoom.us/j/92161001651?pwd=a2hqSHA1eG1SZHNhYWN0SUVndWQ0UT09">https://hernandoclerk.zoom.us/j/92161001651?pwd=a2hqSHA1eG1SZHNhYWN0SUVndWQ0UT09</a></p>
<p style="text-align: center;"><b>List of Proposers Published</b></p>	<p>July 5, 2023</p>

<b>A/E Short List Released (projected)</b>	July 19, 2023
<b>Oral Interviews - if required (projected)</b>	August 16, 2023
<b>Contract Approval (projected)</b>	September 12, 2023

## 2. PROJECT DETAILS

### 2.1. SPECIFICATIONS

Professional consultant services are required for design and permitting. The firm is required to design the biological processes, chemical processes, structural, electrical, mechanical, hydrogeological as well as all necessary appurtenant assets, site work, landscaping, construction engineering inspection, and generate record drawings with phasing plan for reclamation facility expansion from 0.75 million gallons per day (mgd) to a minimum of 1.5 million gallons per day (mgd).

Work is to be completed within eighteen (18) months from Notice to Proceed (NTP).

### 2.2. SCOPE OF SERVICES

Services may include, but are not limited to the following:

- A. Expansion design and permitting of sewage treatment plant and related structures.
- B. Design and permitting of a hurricane hardened and critical emergency operations office structure complying with essential building requirements and a Category Five (5) wind rating.
- C. Design and permitting of modifications to sewage treatment plant and related structures.
- D. Design, engineering, and permitting of foundations and supports for equipment to include:
  1. stair screens,
  2. miscellaneous screens,
  3. washer/compactor units,
  4. aerators,
  5. mixers,
  6. aeration systems,
  7. pumps,
  8. pump stations,
  9. generators,
  10. piping,
  11. pipe supports,
  12. electrical supports,
  13. electrical control systems.
- E. Wastewater treatment process design.

- F. Design, engineering, and permitting of structures to include:
  - 1. aerobic treatment tanks,
  - 2. anoxic treatment tanks,
  - 3. reaeration tanks,
  - 4. aerated sludge holding tanks,
  - 5. centrifuge building
  - 6. jet vac dump building
  - 7. septage receiving station,
- G. Design, engineering, and permitting of rapid infiltration basins.
- H. Zoning changes.
- I. Construction inspection services.
- J. Design and permitting of sewage pumping stations and force mains.
- K. Design and permitting required site work.
- L. Environmental or groundwater monitoring plans.
- M. Scientific investigations, analyses, and technical studies.
- N. Develop or upgrade hydraulic models for manifolded force main systems.
- O. Develop documents necessary to publish bids for construction of wastewater and reclaimed water projects.
- P. Develop engineering plans.
- Q. Create record drawings with phasing plan.
- R. Develop as-built drawings.
- S. All other related services.

Please note that the following items are part of the scope of services with the possibility that it would not be built with the 1st phase:

- A. Design and permitting of reclaimed water land application system.
- B. Design and permitting of reclaimed water storage and pumping stations.



### 3. SELECTION PROCESS

#### 3.1. Acquisition of Professional Services F.S. 287.055

The selection of an architect/engineer/consultant will be conducted in accordance with Florida Statute **287.055 (current edition) Acquisition of professional architectural, engineering, landscape architectural, or surveying and mapping services; definitions; procedures; contingent fees prohibited; penalties.**

The process will involve two stages:

- A. Submittals will be screened and scored.
- B. A limited number of firms will be short listed and may be invited to participate in oral interviews.

The Hernando County Board of County Commissioners will attempt to negotiate a contract with the highest ranked firm following the interview segment. Following is additional information relative to the selection process:

#### 3.2. Mandatory Pre-submittal Conference:

To ensure sufficient information is available to firms preparing submittals, a mandatory pre-submittal conference has been scheduled. The intent of this conference is to tour the site and to have Hernando County Board of County Commissioners staff available to discuss the project. Firms preparing submittals must attend and sign-in in order to have their submittals accepted.

The pre-submittal conference will be held at:

Location: Hernando County Utilities Department 15365 Cortez Blvd Brooksville, FL 34613

Date: Thursday, June 8, 2023

Time:10:00 am

#### 3.3. Architect/Engineer/Consultant's Submittals:

Specific requirements for submittals and scoring criteria are detailed in [Submittal Requirements](#) .

**Submittals must be received at:** <https://secure.procurenow.com/portal/hernandocounty>

Deadline for receipt is: Monday, July 3, 2023 at 10:00 am.

The Hernando County Board of County Commissioners assume no responsibility for costs related to the preparation of submittals.

#### 3.4. Deadline

Responses may be received up to but not later than Monday, July 3, 2023 at 10:00 am via the Hernando County Board of County Commissioners e-Procurement Portal located at <https://secure.procurenow.com/portal/hernandocounty>. The Hernando County Board of County Commissioners e-Procurement Portal Clock is the official clock for the determination of all deadline

dates and times. Without exception, responses will not be accepted after the submission deadline regardless of any technical difficulties such as poor internet connections. The Hernando County Board of County Commissioners strongly recommends completing your response well ahead of the deadline.

### **3.5. Addenda Notification and Acknowledgement**

Addenda Notification: Respondents are required to register for an account via the Hernando County Board of County Commissioners e-Procurement Portal hosted by OpenGov. Once Respondent has completed registration, you will receive addenda notifications to your email by clicking “Follow” on this project. Ultimately, it is the sole responsibility of each Respondent to periodically check the site for any addenda at <https://secure.procurenow.com/portal/hernandocounty>

### **3.6. Submitting Questions and Receiving Responses**

Respondents shall submit all inquiries regarding this RFQ via the Hernando County Board of County Commissioners e-Procurement Portal, located at <https://secure.procurenow.com/portal/hernandocounty>. Please note the deadline for submitting inquiries. All answers to inquiries will be posted on the Hernando County Board of County Commissioners e-Procurement Portal. Respondents may also click “Follow” on this RFQ to receive an email notification when answers are posted. It is the responsibility of the Respondents to check the website for answers to inquiries.

## 4. SUBMITTAL REQUIREMENTS

Firms will be judged not only on their past experience for the type of work involved, but also on their ability to address issues critical to the success of the project requirements outlined in this RFQ document. (Note that the primary focus of the prequalification evaluation will be the firm(s) capability and the primary focus of the oral interview will be the proposed Project Management Team members capabilities.) Following are elements that will be used to evaluate each firm's qualifications:

### 4.1. SUBMITTAL FORMAT

Proposals and supporting documentation will be submitted via County's eProcurement Portal.

### 4.2. PROJECT TEAM

Identify the project principal, the project manager, key staff and subconsultants. Present a brief discussion regarding how the team's qualifications and experience relate to the specific project.

- Qualifications and relevant individual experience.
- Unique knowledge of key team members relating to the project.
- Experience on projects as a team.
- Key staff involvement in project management and on-site presence.
- Time commitment of key staff.
- Qualifications and relevant subconsultant experience.

### 4.3. FIRM/TEAM CAPABILITIES

- Are the lines of authority and coordination clearly identified?
- Are essential management functions identified?
- Are the functions effectively integrated? (e.g., subconsultants' role delineated)?
- Current and projected workload.

Note: Organization charts and graphs depicting your capacity should be included.

### 4.4. PRIOR EXPERIENCE

Use this portion of your submittal to describe relevant experiences with the project type described in this RFQ document and various services to be provided.

- Experience of the key staff and firm with projects of similar scope and complexity.
- Demonstrated success on past projects of similar scope and complexity.
- References.

Note: Include the name and current telephone number of the owner's project manager for every project listed.

#### 4.5. PROJECT APPROACH

For the project and services outlined in the RFQ document, describe how you plan to accomplish the following project control and management issues:

- Budget Methodology/Cost Control.
  - Establish and maintain estimates of probable cost within owner's established budget.
  - Control consultant contract costs
  - Coordinate value engineering activities
- Quality Control Methodology.
  - Ensure County procedures are followed.
  - Improve energy efficiency through the use of an integrated design process, life cycle costing, the use of an energy standard (current OSA energy code) and the specification of energy efficient materials, systems, and equipment.
  - Ensure the project is designed for durability and maintainability.
- Schedule.
  - Manage the required work to meet the established schedule.

#### 4.6. WORK COORDINATION

Describe how the prime and subconsultants will do the key work elements of this project.

- Methods of coordination and communication as it may affect coordination with the County's project manager and the potential project location.
- Firm's familiarity with the project area.
- Knowledge of the local labor and material markets.

## 5. EVALUATION PHASES

The Professional Services Review Committee (PSRC) will review all Proposals received and establish a short list in order of preference of no fewer than three (3) Proposers deemed to be the most qualified to provide the service requested based on the criteria set forth below.

### 5.1. Project Specific Qualifications

No.	Evaluation Criteria	Scoring Method	Weight (Points)
1.	<p><b>PROJECT TEAM</b></p> <ul style="list-style-type: none"> <li>• Qualifications and relevant individual experience.</li> <li>• Unique knowledge of key team members relating to the project.</li> <li>• Experience on projects as a team.</li> <li>• Key staff involvement in project management and on-site presence.</li> <li>• Time commitment of key staff.</li> <li>• Qualifications and relevant subconsultant experience.</li> </ul>	Points Based	<p>40 <i>(40% of Total)</i></p>

<p>2.</p>	<p><b>FIRM CAPABILITIES</b></p> <ul style="list-style-type: none"> <li>• Are the lines of authority and coordination clearly identified</li> <li>• Are essential management functions identified?</li> <li>• Are the functions effectively integrated (e.g., subconsultants' roles delineated?)</li> <li>• Current and projected work load.</li> </ul>	<p>Points Based</p>	<p>20 <i>(20% of Total)</i></p>
<p>3.</p>	<p><b>PRIOR EXPERIENCE</b></p> <ul style="list-style-type: none"> <li>• Experience of the key staff and firm with projects of similar scope and complexity.</li> <li>• Demonstrated success on past projects of similar scope and complexity.</li> <li>• References.</li> </ul>	<p>Points Based</p>	<p>10 <i>(10% of Total)</i></p>
<p>4.</p>	<p><b>PROJECT APPROACH</b></p> <ul style="list-style-type: none"> <li>• Budget methodology/cost control.</li> <li>• Quality control methodology.</li> <li>• Schedule maintenance methodology.</li> </ul>	<p>Points Based</p>	<p>20 <i>(20% of Total)</i></p>

5.	<p><b>WORK COORDINATION</b></p> <ul style="list-style-type: none"> <li>• Methods of Coordination and Communication as it may affect coordination with the County's project manager and the potential project location.</li> <li>• Firm's familiarity with the project area.</li> <li>• Knowledge of the local labor and material markets.</li> </ul>	Points Based	<p>10 <i>(10% of Total)</i></p>
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5.2. [Oral Interviews - as needed](#)

No.	Evaluation Criteria	Scoring Method	Weight (Points)
1.	<b>Project Team</b>	Points Based	<p>40 <i>(40% of Total)</i></p>
2.	<b>Firm Capabilities</b> 20	Points Based	<p>20 <i>(20% of Total)</i></p>
3.	<b>Prior Experience</b>	Points Based	<p>10 <i>(10% of Total)</i></p>
4.	<b>Project Approach</b>	Points Based	<p>20 <i>(20% of Total)</i></p>
5.	<b>Work Coordination</b>	Points Based	<p>10 <i>(10% of Total)</i></p>

## 6. DEFINITIONS

**"Addenda"** means written or graphic instrument(s) issued by the County prior to the execution of the Agreement which modify or interpret the Request for Qualifications by additions, deletions, clarifications, corrections or other type of modifications. Addenda will become part of the Contract Documents when the Agreement is executed.

**"Agency"** means Hernando County Board of County Commissioners, its officers, employees, agents and volunteers.

**"Agreement"** means a legal document, executed by the County and the Successful Proposer, which supersedes all prior negotiations, representations, or agreements, either written or oral. The Agreement, as amended from time to time, forms the Contract between County and the Successful Proposer setting forth the roles, responsibilities and obligations of the parties including, but not limited to, the performance of the Services and the basis of payment.

**"Contract Documents"** means the Request for Qualifications, including Addenda to such, the Agreement, including Addenda to such, Proposer's Proposal, Scope of Services, Certificate(s) of Insurance, Notice of Intent to Award, Notice of Award, Proposer's Representation and Certification Form, Proposer's Hold Harmless Agreement, and any other documents mailed, e-mailed or otherwise transmitted to the Proposer prior to or after the submittal of their Proposal, and prior to or after Award, all of which are all to be treated as one in the form of the Contract Documents.

**"Contractor"** means the Successful Proposer, in the context of the Request for Qualifications. In the context of the Contract Documents, Contractor means any company, firm, partnership, corporation, association, joint venture, or other legal entity permitted by law to perform the Services in the State of Florida. Such legal entity shall be the entity that enters into a written Agreement with the County to perform the Services for the Project described in the Contract Documents. The Contractor will have sole responsibility for the performance of the Services covered under an Agreement that is awarded in conjunction with this Request for Qualifications.

**"County"** means Hernando County Board of County Commissioners, its officers, employees, agents and volunteers.

**"EMP"** means Environmental Management Plan.

**"Evaluation Team"** means County employees selected to evaluate and score the Proposals and Oral Presentation (if applicable) and recommend to the Board the Successful Proposer for an award.

**"Minor Irregularity"** means a variation from the Request for Qualifications terms and conditions which does not affect the price or give the Proposer an advantage or benefit not enjoyed by the other Proposers or does not adversely impact the interests of the County.

**"Notice of Award"** means a written notice submitted by the County notifying the Successful Proposer that they have been awarded the project.

**"Notice of Intent to Award"** means a written notice submitted by the County notifying the Successful Proposer that the County intends to award the project to them contingent upon the Successful Proposer executing the Agreement and submitting any outstanding documents.



**"Notice to Proceed"** means a written notice issued by the County to the Successful Proposer fixing the date on which the Successful Proposer shall start the performance of the Services and the length of time for the completion of the Services, in accordance with the Contract Documents.

**"Pre-Proposal Meeting"** means a meeting at which all Proposers gather to obtain additional information as to the scope of Services required under the Request for Qualifications.

**"Public Opening"** means the opening of the Proposals and the announcing of the Proposers who submitted a Proposal in response to the Request for Qualifications in the presence of the public.

**"Proposer"** means the entity that submits a Proposal to the County in response to the Request for Qualifications. "Proposal" means the response to the Request for Qualifications submitted by the Proposer.

**"Recommendation of Award"** means a written notification sent by way of facsimile or electronic e-mail to those who submitted a Proposal in response to this Request for Qualifications advising them of the County's decision for its selection of the Successful Proposer and its intent to award to that Proposer.

**"Request for Qualifications"** means the contents of this solicitation and all supporting documents including Addenda to such, or other related information transmitted to Proposers.

**"Responsive"** means a Proposal that conforms in all material respects to the Request for Qualifications requirements.

**"Responsible Proposer"** means a Proposer who shows that they have the capability in all respects to perform fully the Services outlined in the Request for Qualifications, and the integrity and reliability that will assure good faith performance.

**"Services"** means all supervision, labor, materials, equipment, supplies, Sub-Contractors, and incidental expenses required by the Proposer to execute and complete the requirements of the Services outlined in the Contract Documents, including those prescribed or implied.

**"Sub-Contractor"** means an entity having a direct Contract with the Successful Proposer or with any other Sub-Contractor of the Successful Proposer who will provide product(s) or Services(s) for the performance of a part of the Services required under the Contract Documents under the sole control and direction of the Contractor.

**"Successful Proposer"** means the Proposer who the County awards an agreement to based on County's evaluation of the Proposers' qualifications and pricing as hereinafter provided.

**"Timeline"** means the list of critical dates and actions involved in the Request for Qualifications.

**"WUP"** means Water Use Permit.

## 7. INSTRUCTIONS FOR PREPARING PROPOSALS

1. The Proposal must name all persons or entities interested in the Proposal as principals. The Proposal must declare that it is made without collusion with any other person or entity submitting a Proposal pursuant to this RFQ.

2. Sub-Contractors/Sub-Consultants: The Hernando County BOCC reserves the right to approve all Sub-Contractors and/or Sub-Consultants for this Contract. If Sub-Contractors are to be utilized, their names and references must be included within this initial Proposal. Responsibility for the performance of the Contract remains with the awarded Contractor exclusively. Sub-Contractors may be added to this Contract during the Contract period only with PRIOR WRITTEN PERMISSION from the Hernando County BOCC.

3. Proposer shall identify any work for this project that will be performed outside the United States of America. The company to perform the work, the country in which the work will be done, and the entity responsible for Quality Assurance/Quality Control for that work shall be identified.

4. Miscellaneous Requirements:

4.1 The Proposer/Contractor shall possess all the appropriate licenses, permits and tariffs required by various governmental agencies having jurisdiction over such services. A copy of all the required licenses will be required prior to award of a Contract, including certification of a Florida certified professional engineer.

4.2 The Hernando County BOCC or its authorized representative reserves the right to obtain all documentation deemed appropriate to verify the Contractor is meeting all regulations and specification requirements.

4.3 Any damage to facilities, equipment or property, due to the incompetence or negligence of the Contractor's personnel including Sub-Contractors that occurs, shall be the responsibility of the Contractor. The Contractor shall reimburse the owner of the damaged facility, equipment or property for any cost to repair damage, beyond reasonable wear, caused by the Contractor.

4.4 The Provider's and their Sub-Contractor's personnel who perform the work in connection with this Contract shall meet the requirements of the Hernando County BOCC drug policy.

## 8. TERMS AND CONDITIONS

1. The County reserves the right to accept or reject any or all Proposals, with or without cause, to waive technicalities, or to accept the Proposal which, in its sole judgment, best serves the interest of the County, or to award a Contract to the next most qualified Proposer if a successful Proposer does not execute a Contract within thirty (30) days after approval of the selection by the Board of County Commissioners or other competent authority.
2. Hernando County reserves the right, and the Chief Procurement Officer has absolute and sole discretion, to cancel a solicitation at any time prior to approval of the award by the Board of County Commissioners when such approval is required. The decision to cancel a solicitation cannot be the basis for a protest pursuant to the Hernando County Purchasing Policy.
3. The County reserves the right to request clarification of information submitted and to request additional information of one or more applicants.
4. The Contract that the County intends to use for award is attached as Exhibit "A" for reference. Any exceptions to this standard Contract must be clearly indicated by return of the standard Contract with the Proposal, with exceptions clearly noted. The County has the right to require the selected Proposer to sign the attached Contract or to negotiate revisions to the Contract language prior to execution of the Contract, at its sole discretion.
5. Information regarding Committee scheduling and Board approvals are available by calling the Procurement Department at (352) 754-4020.
6. A person or affiliate who has been placed on the convicted Consultant/Firm list following a conviction for a public entity crime may not submit a Proposal on a Contract to provide any goods or services to a public entity, may not submit a Proposal on a Contract with a public entity for the construction or repair of a public building or public work, may not submit Proposals on leases of real property to a public entity, may not be awarded or perform work as a Consultant/Firm, supplier, Sub-Contractor or Consultant/Firm under a Contract with any public entity and may not transact business with any public entity in excess of the threshold amount provided in Florida Statute Section 287.017 (Current Edition), for CATEGORY TWO (2) for a period of thirty-six (36) months from the date of being placed on the convicted Consultant/Firm list.
7. The County's performance and obligation to pay under this Contract is contingent upon an annual appropriation for its purpose by the Board of County Commissioners.
8. Proposers shall list all proposed Sub-Contractors to be used, regardless of racial or gender grouping. Include names, addresses, phone numbers, type of work Sub-Contracted (discipline, trade or commodity) and proposed percentage of work.

## 9. INDEMNITY, SAFETY AND INSURANCE PROVISIONS

1. INDEMNITY: To the fullest extent permitted by Florida law, the Consultant/Firm covenants, and agrees that it will indemnify and hold harmless the County and all of the County's officers, agents, and employees from any claim, loss, damage, cost, charge, attorney's fees and costs, or any other expense arising out of any act, action, neglect, or omission by Consultant/Firm during the performance of the Contract, whether direct or indirect, and whether to any person or property to which the County or said parties may be subject, except that neither the Consultant/Firm nor any of its Sub-Contractors, or assignees, will be liable under this section for damages arising out of injury or damage to persons or property directly caused or resulting from the sole negligence of the County or any of its officers, agents, or employees.

### 2. PROTECTION OF PERSONS AND PROPERTY:

2.1 The Consultant/Firm will take all reasonable precautions for, and will be responsible for initiating, maintaining and supervising all programs relating to the safety of all persons and property affected by, or involved in, the performance of its operations under this Contract.

The Consultant/Firm will take all reasonable precautions to prevent damage, injury or loss to: (a) all persons who may be affected by the performance of its operations, including employees; (b) all materials and equipment; and (c) all property at or surrounding the work site. In an emergency affecting the safety of persons or property, the Consultant/Firm will act, with reasonable care and discretion, to prevent any threatened damage, injury or loss.

3. MINIMUM INSURANCE REQUIREMENTS: Consultant/Firm shall procure, pay for and maintain at least the following insurance coverage and limits. Said insurance shall be evidenced by delivery to the County of a certificate(s) of insurance executed by the insurers listing coverage and limits, expiration dates and terms of policies and all endorsements whether or not required by the County, and listing all carriers issuing said policies. The insurance requirements shall remain in effect throughout the term of this Contract.

### 3.1 WORKERS' COMPENSATION: As required by law:

STATE.....Statutory

APPLICABLE FEDERAL.....Statutory

EMPLOYER'S LIABILITY.....Minimum:\$100,000 each accident

\$100,000 by employee

\$500,000 policy limit

Exemption per Florida Statutes, Chapter 440: If a Consultant/Firm has less than three (3) employees and states that they are exempt per Florida Statutes, Chapter 440 (Current Edition), they must provide an exemption certificate from the State of Florida. Otherwise, they will be required to purchase Workers' Compensation Insurance and provide a copy of Workers Compensation Insurance.

<https://www.myfloridacfo.com/Division/WC/Employer/Exemptions/>.

3.2 GENERAL LIABILITY: Comprehensive General Liability including, but not limited to, Independent Contractor, Contractual Premises/Operations, and Personal Injury covering the liability assumed under indemnification provisions of this Contract, with limits of liability for personal injury and/or bodily injury, including death.

COVERAGE AS FOLLOWS:

EACH OCCURRENCE.....\$1,000,000  
GENERAL AGGREGATE.....\$2,000,000  
PERSONAL/ADVERTISING INJURY.....\$1,000,000  
PRODUCTS-COMPLETED OPERATIONS AGGREGATE....\$2,000,000

Per Project Aggregate (if applicable)

ALSO, include in General Liability coverage for the following areas based on limits of policy, with minimum of:

FIRE DAMAGE (Any one (1) fire)..... \$50,000  
MEDICAL EXPENSE (Any one (1) person).....\$5,000

3.3 ADDITIONAL INSURED: Consultant/Firm agrees to endorse Hernando County as an additional insured on the Comprehensive General Liability. The Additional Insured shall read "Hernando County Board of County Commissioners." Proof of Endorsement is required.

3.4 WAIVER OF SUBROGATION: Consultant/Firm agrees by entering into this Contract to a Waiver of Subrogation for each required policy herein. When required by the insurer, or should a policy condition not permit Consultant/Firm to enter into a pre-loss agreement to waive subrogation without an endorsement, then Consultant/Firm agrees to notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy that includes a condition specifically prohibiting such an endorsement, or voids coverage should Consultant/Firm enter into such an agreement on a pre-loss basis.

3.5 AUTOMOBILE LIABILITY: Comprehensive automobile and truck liability covering any auto, all owned autos, scheduled autos, hired autos, and non-owned autos. Coverage shall be on an "occurrence" basis. Such insurance to include coverage for loading and unloading hazards.

COVERAGE AS FOLLOWS:

COMBINED SINGLE LIMIT (CSL).....\$1,000,000  
BODILY INJURY (Per Person).....\$1,000,000  
BODILY INJURY (Per Accident).....\$1,000,000  
PROPERTY DAMAGE.....\$1,000,000

3.6 [ ] Not-Required \_\_\_\_\_(initials)

PLEASE NOTE: If box is not checked and initialed by Chief Procurement Officer, the specified insurance below is required.

PROFESSIONAL LIABILITY: including Errors and Omissions with minimum limits of \$3,000,000.00 per occurrence, if occurrence form is available; or claims made form with "tail coverage" extending three (3) years beyond completion and acceptance of the project with proof of "tail coverage" to be submitted with the invoice for final payment. In lieu of "tail coverage", Consultant/Firm may submit annually to the County a current Certificate of Insurance proving claims made insurance remains in force throughout the same three (3) year period.

Notwithstanding the requirements for Professional Liability Insurance listed above, Engineer and/or Architect must provide evidence of coverage, a minimum of \$1,000,000.00.

3.9  Not-Required \_\_\_\_\_ (initials)

PLEASE NOTE: If box is not checked and initialed by Chief Procurement Officer, the specified insurance below is required.

EXCESS/UMBRELLA LIABILITY: Consultant/Firm shall provide proof of Excess/Umbrella Liability coverage with minimum limits of \$1,000,000. Limits can be increased, based on Contract.

3.10 SUB-CONTRACTORS (if applicable): All Sub-Contractors hired by said Contractor are required to provide Hernando County Board of County Commissioners a Certificate of Insurance with the same limits required by the County as required by the Contract. All Sub-Contractors are required to name Hernando County Board of County Commissioners as additional insured and provide a Waiver of Subrogation in regard to General Liability.

3.11 RIGHT TO REVISE OR REJECT: County reserves the right, but not the obligation, to revise any insurance requirement, not limited to limits, coverages and endorsements, or to reject any insurance policies which fail to meet the criteria stated herein. Additionally, County reserves the right, but not the obligation, to review and reject any insurer providing coverage due to its poor financial condition or failure to operating legally.

3.12 Each insurance policy shall include the following conditions by endorsement to the policy:

3.12.1 Consultant/Firm agrees to provide County with a Certificate of Insurance evidencing that all coverages, limits and endorsements required herein are maintained and in full force and effect, and the Certificate of Insurance shall provide a minimum thirty (30) day endeavor to notify, when available by Consultant/Firm's insurer. If the Consultant/Firm receives a non-renewal or cancellation notice from an insurance carrier affording coverage required herein, or receives notice that coverage no longer complies with the insurance requirements herein, Consultant/Firm agrees to notify the County by fax within five (5) business days with a copy of the non-renewal or cancellation notice, or written specifics as to which coverage is no longer in compliance. The Certificate Holder shall read:

Hernando County Board of County Commissioners

ATTN: Human Resources/Risk Department

15470 Flight Path Drive

Brooksville, FL 34604

3.12.2 Companies issuing the insurance policy, or policies, shall have no recourse against the County for payment of premiums or assessments for any deductibles which all are the sole responsibility and risk of Consultant/Firm.

3.12.3 The term "County" or "Hernando County" shall include all Authorities, Boards, Bureaus, Commissions, Divisions, Departments, and offices of the County and individual members, employees and agents thereof in their official capacities, and/or while acting on behalf of Hernando County.

3.12.4 The policy clause "Other Insurance" shall not apply to any insurance coverage currently held by County, to any such future coverage, or to County's Self-Insured Retentions of whatever nature.

3.13 The Consultant/Firm shall be required to provide a current Certificate of Insurance to the County prior to commencement of services.

3.14 Proposers may, at the County's request, be required to provide proof that their firm meets the preceding insurance requirements, by submission of a certificate of insurance coverage(s), prior to award of the Contract.

3.15 Failure of the Owner to demand such certificates or other evidence of full compliance with these insurance requirements or failure of the Owner to identify a deficiency from evidence provided shall not be construed as a waiver of the Consultant/Firm's obligation to maintain such insurance.

## 10. MAINTENANCE OF RECORDS

The Proposer/Contractor will keep adequate records and supporting documents applicable to this Contract. Said records and documentation will be retained by the Proposer/Contractor for a minimum of five (5) years from the date of final payment on this Contract. The County and its authorized agents shall have the right to audit, inspect and copy records and documentation as often as the County deems necessary during the period of this Contract and a period of five (5) years after completion of Contract performance; provided however, such activity shall be conducted only during normal business hours. The County during the period of time defined by the preceding sentence, shall also have the right to obtain a copy of and otherwise inspect any audit made at the direction of the Proposer/Contractor as concerns the aforesaid records and documentation. Pursuant to Section 119.0701, Florida Statutes (Current Edition), Consultant/Firm shall comply with the Florida Public Records' laws and shall:

1. Keep and maintain records required by the public agency to perform the service.
2. Upon request from the public agency's custodian of public records, provide the public agency with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.
3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Contract term and following completion of the Contract if the Contractor does not transfer the records to the public agency.
4. Upon completion of the Contract, transfer, at no cost, to the public agency all public records in possession of the Contractor or keep and maintain public records required by the public agency to perform the service. If the Contractor transfers all public records to the public agency upon completion of the Contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the Contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the public agency upon request from the public agency's custodian of public records, in a format that is compatible with the information technology systems of the public agency.
5. Failure to comply with this section shall be deemed a breach of the Contract and enforceable as set forth in Section 119.0701, Florida Statutes (Current Edition).

**IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES (CURRENT EDITION), TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT 352-754-4020, PURCHASING@HERNANDOCOUNTY.US, WITH AN OFFICE LOCATED AT 15470 FLIGHT PATH DRIVE, BROOKSVILLE, FL 34604.**



## **11. SHORTLISTS, PROTESTS AND LOBBYING**

The recommended short list of firms will be posted for review by interested parties at the Procurement Department following Board approval and will remain for a period of five (5) full business days. Failure to file a protest to the Chief Procurement Officer by 5:00 PM on the fifth full business day after posting date shall constitute a waiver of protest proceedings. Failure to file a protest within the time prescribed in Section 120.57(3), Florida Statutes (Current Edition), or failure to post the bond or other security required by law within the time allowed for filing a bond shall constitute a waiver of proceedings under Chapter 120, Florida Statutes (Current Edition). Additional information relative to lobbying and protests can be found at the following site: [www.Hernandocounty.us/procurement](http://www.Hernandocounty.us/procurement).

## 12. CONE OF SILENCE

This solicitation falls under the Hernando County Procurement Ordinance 93-16 (Current Edition). After a Bid is opened or a Short List is established for a Request for Proposals or Request for Qualifications, a Vendor/Consultant or representative as defined in the Ordinance, may not seek information or clarification or in any way contact any Official or employee of the County concerning this solicitation with the exception of the Chief Procurement Officer, County Attorney or an individual specifically designated in this document for dissemination of information. A copy of any written communication concerning this solicitation shall be filed with the Procurement Department and shall be made available to the public upon request. A violation of the “Cone of Silence” renders any award voidable at the sole discretion of the Chief Procurement Officer with approval from the Board of County Commissioners and may subject the potential Vendor/Consultant or representative to debarment. Nothing in the Ordinance prevents a Vendor/Consultant or representative from taking part in a public meeting concerning the solicitation.

1. All Vendors/Consultants or representatives are hereby placed on formal notice. A lobbying “Cone of Silence” period shall commence upon issuance of the solicitation until the Board selects the successful Proposer. For procurements that do not require Board approval, the “Cone of Silence” period commences upon solicitation issuance and concludes upon Contract award.

2. Neither the members of the Board of County Commissioners nor candidates for County Commission, nor any employees from the Hernando County Government, Hernando County staff members, nor any members of the Professional Services Review Committee are to be lobbied, either individually or collectively, concerning this project. Vendors/Consultant or representative who intend to submit qualifications, or have submitted qualifications, for this project are hereby placed on formal notice that they are not to contact County personnel for such purposes as holding meetings of introduction, meals, or meetings relating to the selection process outside of those specifically scheduled by the County. Any such lobbying activities may cause immediate disqualification for this project.

### 13. E-VERIFY

1. Consultant/Firm is advised that the County has entered into an agreement with U.S. Immigration and Customs Enforcement (ICE) wherein the County will, in part, seek to promote the principles of ethical business conduct, prevent the knowing hiring of unauthorized workers through self-governance, and encourage voluntary reporting of the discovery of unauthorized workers to ICE (the IMAGE Agreement). Accordingly, by submitting your Bid/Proposal, Consultant/Firm represents and warrants (a) that the Consultant/Firm is in compliance with all applicable federal, state and local laws, including, but not limited to, the laws related to the requirement of an employer to verify an employee's eligibility to work in the United States, (b) that all of the Consultant/Firm employees are legally eligible to work in the United States, and (c) that the Consultant/Firm has actively and affirmatively verified such eligibility utilizing the Federal Government's Employment Verification Eligibility Form (I-9 Form).
2. A mere allegation of Consultant/Firm's intent to use and/or current use of unauthorized workers may not be a basis to delay the County's award of a Contract to the Consultant/Firm unless such an allegation has been determined to be factual by ICE pursuant to an investigation conducted by ICE prior to the date the Contract is scheduled to be awarded by the County.
3. Legitimate claims of the Consultant/Firm's use of unauthorized workers must be reported to both of the following agencies:
  - 3.1 The County's Procurement Department at (352) 754-4020: and
  - 3.2 ICE (Immigration and Customs Enforcement) at 1-866-DHS-2-ICE
4. In the event it is discovered that the Consultant/Firm's employees are not legally eligible to work in the United States, then the County may, in its sole discretion, demand that the Consultant/Firm cure this deficiency within a specified time frame, and/or immediately terminate the Contract without any cost or penalty to the County, and/or debar the Consultant/Firm from bidding on all County Contracts for a period up to twenty-four (24) months, and/or take any and all legal action deemed necessary and appropriate.
5. Consultant/Firm is required to incorporate the following IMAGE Best Practices into its business and, when practicable, incorporate verification requirements into its agreements with Sub-Contractors:
  - 5.1 Use the Department of Homeland Security employment eligibility verification program (E-Verify) to verify the employment eligibility of all new hires.
  - 5.2 Use the Social Security Number Verification Service and make good faith effort to correct and verify the names and Social Security numbers of the current workforce.
  - 5.3 Establish a written hiring and employment eligibility verification policy.
  - 5.4 Establish an internal compliance and training program related to the hiring and employment verification process, including, but not limited to, completion of Form I-9, how to detect fraudulent use of documents in the verification process, and how to use E-Verify and the Social Security Number Verification Service.

- 5.5 Require the Form I-9 and E-Verify process to be conducted only by individuals who received appropriate training and include secondary review of each employee's verification to minimize the potential for a single individual to subvert the process.
- 5.6 Arrange for annual Form I-9 audits by an external auditing firm or a trained employee not otherwise involved in the Form I-9 process.
- 5.7 Establish a procedure to report to ICE credible information of suspected criminal misconduct in the employment eligibility verification process.
- 5.8 Establish a program to assess Sub-Contractors' compliance with employment eligibility verification requirements. Encourage Consultant/Firms to incorporate the IMAGE Best Practices contained in this Article and, when practicable, incorporate the verification requirements in Sub-Contractor agreements.
- 5.9 Establish a protocol for responding to letters received from Federal and State government agencies indicating that there is a discrepancy between the agency's information and the information provided by the employer or employee; for example, "no match" letters received from the Social Security Administration.
- 5.10 Establish a tip line mechanism (inbox, e-mail, etc.) for employees to report activity relating to the employment of unauthorized workers, and a protocol for responding to employee tips.
- 5.11 Establish and maintain appropriate policies, practices, and safeguards against use of the verification process for unlawful discrimination, and to ensure that U.S. Citizens and authorized workers do not face discrimination with respect to hiring, firing, recruitment or referral for a fee because of citizenship status or national origin.
- 5.12 Maintain copies of any documents accepted as proof of identify and/or employment authorization for all new hires.

## **14. LOCAL PREFERENCE**

Not applicable. In accordance with County Ordinance No. 2013-23, §§ 2-6, 7-23-13, Section 2-111 (Current Edition), Contracts of professional services procurement of which is subject to the Consultants' Competitive Negotiation Act are exempt from the local preference policy.

## **15. CONTRACT AWARD**

It is the intent of the County to award one (1) contract. Award will be made at the earliest possible Hernando County BOCC Board meeting subsequent to the evaluation process. It is incumbent on Proposers to contact the Procurement Department to determine the successful Proposer(s). This Request for Qualifications is issued in accordance with and shall be governed by the provisions of the County's Purchasing Policy.

## **16. SIGNING OF THE AGREEMENT**

When the County gives a Notice of Intent to Award to the Successful Proposer, it will be accompanied by an unsigned Agreement. Within ten (10) calendar days thereafter the Successful Proposer shall execute and deliver to the County the Agreement, along with a certificate of insurance that shows policies, limits and other conditions in compliance with that outlined in the Request for Qualifications. Upon award and execution of the Agreement by the County, one (1) executed copy of the Agreement shall be delivered to the Successful Proposer.

## **17. RESPONSIVENESS OF THE PROPOSAL/DISQUALIFICATION**

1. A responsive Proposal is one that complies with and conforms to the requirements of this Request for Qualifications. A Proposal requiring changes to any portion of this Request for Qualifications may be considered non-responsive. A Proposal that fails to comply with the criteria outlined in this Request for Qualifications may be deemed non-responsive.
2. A Proposal may be rejected if found to be conditional, irregular, incomplete or not in conformance with the requirements and instructions contained herein, such as, but not limited to: (1) failure to strictly comply with and satisfactorily address the prerequisite criteria, (2) failure to provide the required forms or other documentation, (3) incomplete, indefinite or ambiguous language, (4) failure to submit the information needed to evaluate the Proposals based on the Evaluation Criteria, (5) incomplete, indefinite or ambiguous language, and (6) improper and/or undated signatures.
3. Other conditions, which shall cause rejection of the Proposal, include, but are not limited to: (1) an individual firm, partnership, corporation or combination thereof, under the same or different names submitting (as the Proposer) more than one Proposal, (2) evidence of collusion among Proposers, (3) obvious lack of experience or expertise to perform the Services, (4) failure to perform or meet financial obligations for previous Contracts, (5) falsification of any form required by the County, (6) evidence that a Proposer has a financial interest in another firm who is submitting a Proposal, (7) not having valid and appropriate local, state or federal certifications and/or licenses necessary to perform the Services, or (8) an investigation by the Chief Procurement Officer finds the Proposer delinquent on a previously awarded Contract or in litigation with a Hernando County previously awarded Contract.
4. County may conduct such investigations as County deems necessary to assist in the evaluation of any Proposal and to establish the responsibility, qualifications and financial ability of the Proposer and their proposed Sub-Contractors. County reserves the right to seek clarifications or request any information deemed necessary for proper evaluation of Proposals from all Proposers. Failure to provide requested information may result in rejection of the Proposal.



## **18. LIST OF PROPOSERS**

A list of Proposers will be posted on the County's eProcurement Portal within two (2) business days after the Public Opening date. The list of Proposers can also be obtained by contacting the Contact Person.

**The County will not provide a list of Proposers by telephone.**

## **19. EXAMINATION OF PROPOSAL DOCUMENTS**

1. It is the responsibility of each Proposer before submitting a Proposal, to (1) examine the Solicitation Documents thoroughly, (2) consider Federal, State and Local Laws and Regulations that may affect cost, progress, performance or furnishing of the Work, (3) study and carefully correlate Proposer's observations with the Solicitation Documents, and (4) notify the Contact Person of all conflicts, errors or discrepancies in the Solicitation Documents prior to submitting a formal Proposal.
2. Before submitting a Proposal, it shall be the Proposer's responsibility to submit to the County a request for any additional information and data which pertains to the Project covered under this Request for Qualifications which the Proposer deems necessary to develop their Proposal for performing the Services in accordance with the terms and conditions noted herein.
3. The submission of a Proposal in response to this Request for Qualifications shall be considered as a representation that the Proposer; (1) has carefully investigated all conditions that affect, or may at some future date, affect the performance of the Services covered by this Request for Qualifications, (2) is fully informed concerning conditions to be encountered, the character, quality and quantity of the Services to be performed and the work product to be furnished, and (3) is familiar with what is required to perform the Services covered by this Request for Qualifications. The contents of the Proposer's Proposal shall become a Contractual obligation if the Proposer is awarded the Contract. Failure to accept these obligations in a Contractual agreement shall result in cancellation of the Award.

## 20. ADDENDA

Any Addenda issued in relation to this Request for Qualifications will be transmitted by way of posting such on the County's eProcurement Portal. **It is the Proposer's responsibility to be aware of any Addenda that might have bearing on their Proposal before their Proposal is due.** The Proposer will acknowledge receipt of any and all such Addenda. In the event a Proposer fails to acknowledge receipt of such Addenda, their Proposal will be construed as though they have received such Addenda, and the submission of a Proposal will constitute acknowledgement of the receipt of same. All Addenda will become a part of the Proposal Documents and Proposer will be bound by such, whether or not received by Proposer.

## **21. MODIFICATION/ WITHDRAWAL OF PROPOSAL**

1. Proposers have the right to modify or withdraw their Proposal without cause or without liability whatsoever at any time prior to the stipulated submittal date and time. Such requests must be made to County in writing.
2. Modified or withdrawn Proposals may be resubmitted, in accordance with the instructions in this Request for Qualifications prior to the stipulated submittal date and time. If applicable, any changes in pricing shall be so worded as not to reveal the pricing that was noted in the original Proposal.
3. No Proposal shall be modified or withdrawn by the Proposer after the Proposal Due Date.

## **22. LESS THAN TWO (2) PROPOSALS RECEIVED**

If less than two (2) Proposals are received, the County may negotiate the best terms and conditions with that Proposer, or reject the Proposal and re-solicit the Services.

## **23. REVIEW OF PROPOSER'S FACILITIES AND QUALIFICATIONS**

After the Request for Qualifications due date and prior to award of an Agreement, the County reserves the right to perform or have performed an on-site review of Successful Proposer's facilities and qualifications, as well as documentation provided in their Proposal. This review will serve to verify data and representations submitted by the Proposer and may be used to determine whether the Proposer is qualified and experienced and has the resources to perform the Services outlined in the Request for Qualifications. The review may also serve to verify whether the Proposer has adequate financial capability to meet the County's requirements. Should the County determine that the Proposals, or subsequent documentation submitted by the Proposer, has material misrepresentations or that the size or nature or any Successful Proposer's resources are not adequate to ensure satisfactory performance, or ascertains other bases for concern as to the Successful Proposer's ability to perform the Services, the County has the right to reject their Proposal and not make an award.

## **24. FINANCIAL STRENGTH**

Prior to award of a Contract, the County reserves the right to request financial information from the Successful Proposer to assist the County in further review of that Proposer's capabilities. Financial information provided shall be for the current and previous two (2) years, to include, but not be limited to a financial statement prepared by a Certified Public Accountant (i.e., balance sheet and income and cash flow statements) or a Supplier Qualifier Report prepared by Dun & Bradstreet.

## **25. CLARIFICATIONS**

Before Contract award, the County reserves the right to seek clarification from the Proposer with whom County is contemplating award to properly evaluate their Proposal. Failure to provide requested information may result in not making such award to the Proposer.



## 26. PUBLIC RECORDS ACT

1. Proposers should make themselves familiar with Chapter 119.071 (Current Edition) of the Florida Statutes concerning availability of public records. Thirty (30) days after the Proposal Opening date OR Notice of an intended decision, whichever is earlier, Proposals shall be made available for public viewing. Proposals and associated Proposal Documents may be viewed during normal business hours (which is Monday through Friday; 8:00 AM to 5:00 PM) at 15470 Flight Path Drive, Brooksville, Florida. Copies of the Proposals and associated Documents are available for a charge of fifteen cents (\$.15) per page, plus cost of copying.

2. Florida law generously defines what constitutes a public record and, under Chapter 119 of the Florida Statutes (Current Edition), all Proposals are to be made available by County for viewing by the general public. If a Proposer believes that their Proposal contains information that should not be a public record, the Proposer shall clearly segregate and mark that information as "Confidential" and describe in writing the grounds for claiming exemption from the public records law, including the specific statutory citation for such exemption.

3. Any documents given to the Successful Proposer by the County as part of performing the Services covered under this Request for Qualifications shall not be sold or distributed to third parties without the written consent of County. The Successful Proposer will be required to retain a copy of these documents for a minimum of five (5) years from completion of the Agreement. All documents, papers, letters, e-mails or other material made or received by the Successful Proposer in conjunction with the Services, unless exempt from Section 24(a) (Current Edition) of Article I of the Florida Constitution and Section 119.07(1) (Current Edition) of the Florida Statutes, shall be made available for public access. Should the Successful Proposer refuse to allow such access, County has the unilateral right to cancel the Award.

4. Proposers should consult an attorney as to their duties under the records and information laws (Section 257.36 of the Florida Statutes) (Current Edition) and public records laws (Chapter 119 of the Florida Statutes) (Current Edition) of the State of Florida. Significant judicial sanctions can be imposed for violation of these Statutes.

**IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES (CURRENT EDITION), TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT 352-754-4020, PURCHASING@HERNANDOCOUNTY.US, WITH AN OFFICE LOCATED AT 15470 FLIGHT PATH DRIVE, BROOKSVILLE, FL 34604.**

## 27. JOINT VENTURES

1. Two (2) or more firms may submit a Proposal under a joint venture arrangement. Joint ventures shall be considered as a single entity in the evaluation of a Proposal. That is, the traits of individual firms shall be blended in arriving at an overall Proposal evaluation score and oral interview score for the joint venture.

2. A firm who submits a Proposal under a joint venture arrangement may satisfy the technical certification requirements outlined in this Request for Qualifications as the prime Proposer through one or more of the firms comprising the Joint Venture. The Joint Venture shall at a minimum comply with the following additional requirements:

2.1 The Joint Venture shall, in its own name, be registered with the State of Florida Division of Corporations prior to submittal of a Proposal.

2.2 Each individual Firm comprising of the Joint Venture shall, in its own name, be qualified in their respective areas of expertise prior to submittal of a Proposal.

2.3 Full compliance with the requirements set forth above is required, as well as properly documented compliance with any other certification and additional requirements set forth in the Request for Qualifications.

## **28. PAYMENT**

Payment to Proposer/Contractor by Electronic Payment Solution: ACH (Direct Deposit): If the Proposer/Contractor is enrolled in the County's ACH electronic payment solution, all payments will be made using the direct deposit which may or may not include a pre-note transaction. The Proposer/Contractor's bank account information will remain confidential to the extent provided by law and necessary to make direct deposit payments. Once the County has approved payment, an electronic remittance advice will be sent to the Proposer/Contractor via e-mail.

## **29. SCRUTINIZED COMPANIES**

Pursuant to Florida Statutes 287.135 and 215.473 (Current Edition), Proposer/Contractor must certify that the company is not participating in a boycott of Israel. Proposer/Contractor must also certify that Proposer/Contractor is not on the Scrutinized Companies that Boycott Israel list, not on the Scrutinized Companies with Activities in Sudan list, and not on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector list, or has been engaged in business operations in Cuba or Syria. Subject to limited exceptions provided in state law, the County will not contract for the provision of goods or services with any scrutinized company referred to above. Proposer/Contractor must submit the certification form included as an Attachment to this solicitation. Submitting a false certification shall be deemed a material breach of Contract. The County shall provide notice, in writing, to the Proposer/Contractor of the County's determination concerning the false certification. The Proposer/Contractor shall have five (5) days from receipt of notice to refute the false certification allegation. If such false certification is discovered during the active contract term, the Proposer/Contractor shall have ninety (90) days following receipt of the notice to respond in writing and demonstrate that the determination of false certification was made in error. If the Proposer/Contractor does not demonstrate that the County's determination of false certification was made in error, then the County shall have the right to terminate the contract and seek civil remedies pursuant to Section 287.135, Florida Statutes (Current Edition), as amended from time to time.

## 30. SUPPLEMENTARY CONDITIONS FOR STATE REQUIREMENTS

Florida State grant requirements for this project.

### 30.1. AMERICANS WITH DISABILITIES ACT OF 1990 (ADA)

Execution of this Agreement constitutes a certification that the Agency will comply with all the requirements imposed by the ADA (42 U.S.C. 12102, et seq.), the regulations of the federal government issued thereunder, and the assurance by the Contractor pursuant thereto.

### 30.2. CERTIFICATION OF OFFERER/BIDDER REGARDING DEBARMENT

By submitting a Bid/Proposal under this solicitation, the Bidder or offeror certifies that neither it nor its principals are presently debarred or suspended by any State department or agency from participation in this transaction.

### 30.3. CONFLICT OF INTEREST

- A. Conflict of Interest of Officers or Employees of the Contracting Entity/Local Jurisdiction, Members of the Local Governing Body, or Other Elected Officials. No member or employee of the contracting entity/local jurisdiction or its designees or agents; no member of the governing body; and no other public official of Hernando County who exercises any function or responsibility with respect to this Contract, during his/her tenure or for two years thereafter, shall have any interest, direct or indirect, in any Contract or Sub-Contract, or the proceeds thereof, for work to be performed. Further, the Vendor/Contractor shall cause to be incorporated in all Sub-Contracts, the language set forth in this paragraph prohibiting conflict of interest.
- B. Employee Conflict of Interest. It shall be unethical for any Hernando County employee to participate directly or indirectly in a procurement Contract when Hernando County employee knows that:
  1. Hernando County employee or any member of Hernando County employee's immediate family has a financial interest in the procurement Contract; or
  2. Any other person, business, or organization with whom Hernando County employee or any member of a Hernando County employee's immediate family is negotiating or has an arrangement concerning prospective employment is involved in the procurement Contract; or
  3. A Hernando County employee or any member of a Hernando County employee's immediate family who holds a financial interest in a disclosed blind trust shall not be deemed to have a conflict of interest with regard to matters pertaining to that financial interest.
- C. Former Employee Conflict of Interest. It shall be a violation for any person, business or organization contracting with County to employ in any capacity, any former County employee or member of County employee's immediate family within two (2) years of that employee's

separation from employment with the County, unless the employer or the former County employee files with the County Clerk, the County's Employment Disclosure Statement. The penalty for this violation may include disqualification of the Bid submission.

#### **30.4. CONVICTED VENDORS: Section 287.133, F.S.**

- A. The Contractor certifies that they are not on the Convicted Vendors List as maintained by the Department of Management Services, pursuant to Section 287.133(3)(d), F.S.
- B. Pursuant to Subsection 287.133(2)(a), F.S., a person or affiliate who has been placed on the Convicted Vendor List following a conviction for a public entity crime may not be awarded or perform work as a Grantee, Supplier, Sub-Contractor or Consultant under a Contract with any public entity and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, F.S., for Category Two for a period of thirty-six (36) months from the date of being placed on the Convicted Vendor List.

#### **30.5. DISADVANTAGED BUSINESS ENTERPRISE (DBE) POLICY AND OBLIGATION**

- A. It is the policy of the Department that DBE's, as defined in 49 C.F.R. Part 26, as amended, shall have the opportunity to participate in the performance of Contracts financed in whole or in part with Department funds under this Agreement. The DBE requirements of applicable federal and state laws and regulations apply to this Agreement.
- B. The Agency and its Contractors agree to ensure that DBE's have the opportunity to participate in the performance of this Agreement. In this regard, all recipients and Contractors shall take all necessary and reasonable steps in accordance with applicable federal and state laws and regulations to ensure that the DBE's have the opportunity to compete for and perform Contracts. The Agency and its Contractors and Sub-Contractors shall not discriminate based on race, color, national origin or sex in the award and performance of Contracts, entered pursuant to this Agreement.
- C. The Vendor/Contractor is required to submit documentation upon request to the County to reflect the affirmative action steps taken to utilize minority owned and women owned and small business enterprises in the work and the intended use of these companies in the work.
- D. The Vendor/Contractor is required to include in their Bid documentation that the Bidder has carried out these affirmative steps for Minority and Women's Business Enterprise participation as follows:
  - 1. Included qualified minority and women's businesses on solicitation lists.
  - 2. Solicited minority and women's businesses whenever they are potential sources.
  - 3. Divided total requirements, when economically feasible, into small tasks or quantities to permit maximum participation by minority and women's businesses.

4. Where feasible, established delivery schedules which will encourage participation by minority and women's businesses.
- E. The following websites are provided to assist Vendor/Contractor with Affirmative steps.
1. U.S. Small Business Administration <http://dsbs.sba.gov/dsbs/>
  2. Florida Department of Transportation, Equal Opportunity Office  
<https://www.fdot.gov/equalopportunity/default.shtml>  
<https://fdotxwp02.dot.state.fl.us/EqualOpportunityOfficeBusinessDirectory>
- F. Vendor/Contractor will be responsible for participating in these affirmative steps and providing documentation to that effect. County will be responsible to verify/certify it has obtained and reviewed documentation from the apparent lowest, responsive, responsible Bidder demonstrating a good faith effort to facilitate Minority and Women's Business Enterprise participation in this Contract.

### **30.6. GOOD FAITH EFFORTS**

The County is committed to supplier diversity in the performance of all Contracts associated with Federal and State funding projects. The County requires the Vendor/Contractor to make good faith efforts to encourage the participation of minority owned and woman owned and small business enterprises in accordance with applicable laws.

### **30.7. DISCRIMINATORY VENDORS: Section 287.134, F.S.**

- A. The Contractor certifies that they are not on the Discriminatory Vendors List maintained by the Florida Department of Management Services pursuant to Section 287.134(3)(d), F.S.
1. In accordance with Section 287.134, F.S., an entity or affiliate who has been placed on the Discriminatory Vendor List may not submit a Bid, Proposal, or reply on a Contract to provide any goods or services to a public entity; may not submit a Bid, Proposal or reply on a Contract with a public entity for the construction or repair of a public building or public work; may not submit Bids, Proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a Contractor, Supplier, Sub-Contractor, or Consultant under a Contract with any public entity; and may not transact business with any public entity. The Grantee has a continuing duty to disclose to the Commission whether they appear on the discriminatory vendor list

### **30.8. EQUAL EMPLOYMENT OPPORTUNITY**

*In connection with the carrying out of any project, the Contractor shall not discriminate against any employee or applicant for employment because of race, age, creed, color, sex or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex (including pregnancy, gender identity, and sexual orientation), national origin, age (40 or older), disability or genetic information. Such action shall include, but not be limited to, the following: Employment upgrading,*

*demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.*

The Contractor shall insert the foregoing provision modified only to show the particular contractual relationship in all its Contracts in connection with the development or operation of the Project, except Contracts for standard commercial supplies or raw materials, and shall require all such Contractors to insert a similar provision in all Sub-Contracts, except Sub-Contracts for standard commercial supplies or raw materials. When the Project involves installation, construction, demolition, removal, site improvement, or similar work, the Contractor shall post, in conspicuous places available to employees and applicants for employment for Project work, notices to be provided by the Department setting forth the provisions of the nondiscrimination clause.

### **30.9. INDEMNIFICATION**

- A. To the extent provided by Section 768.28, Florida Statutes, it is specifically agreed between the parties executing this Agreement that it is not intended by any of the provisions of any part of this Agreement to create in the public or any member thereof, a third party beneficiary under this Agreement, or to authorize anyone not a party to this Agreement to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of this Agreement. The Agency guarantees the payment of all just claims for materials, supplies, tools, or labor and other just claims against the Agency or any Sub-Contractor, in connection with this Agreement. Additionally, the Agency agrees to include the following indemnification in all Contracts with Contractors/Sub-Contractors, or Consultants/Sub-Consultants who perform work in connection with this Agreement:
1. To the fullest extent permitted by law, the Agency's Contractor shall indemnify and hold harmless the Agency, the State of Florida, Department of Economic Opportunity, and its officers and employees, from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness or intentional wrongful misconduct of the Contractor and persons employed or utilized by the Contractor in the performance of this Contract.
  2. This indemnification shall survive the termination of this Contract. Nothing contained in this paragraph is intended to nor shall it constitute a waiver of the State of Florida and the Agency's sovereign immunity.

### **30.10. INTEREST OF MEMBERS OF, OR DELEGATES TO, CONGRESS OR LEGISLATURE**

No member or delegate to the Congress of the United States, or the State of Florida legislature, shall be admitted to any share or part of the Agreement or any benefit arising therefrom.



### 30.11. LITIGATION, INVESTIGATIONS, ARBITRATION, OR ADMINISTRATIVE PROCEEDINGS

The Contractor certifies that it, its principals and agents, are not engaged in any civil or criminal litigation investigations, arbitration, or administrative proceedings relating to or affecting their ability to perform under this Agreement.

### 30.12. NON-DISCRIMINATION IN PERFORMANCE

No person, on the grounds of race, color, religion, sex (including pregnancy, gender identity, and sexual orientation), national origin, age (40 or older), disability or genetic information, shall be excluded from participation in, be denied the proceeds or benefits of, or be otherwise subjected to discrimination in performance of this Agreement.

### 30.13. NOTICE OF CONVICTION OF PUBLIC ENTITY CRIME

Any person must notify the Department of Management Services and the Commission, in writing, within thirty (30) days after conviction of a public entity crime applicable to that person or an affiliate of that person as defined in Section 287.133, F.S.

### 30.14. PROMPT PAYMENT

Monthly actual payment reporting requirements for prime Contractors and Consultants are based on prompt payment rules and laws. The same holds true for return of retainage after the Sub-Contractor has completed its work, not when the overall project is finished. Florida Law requires timely payment for both construction and non-construction services. Generally, invoices for construction Contracts must be paid within twenty-five (25) days of receipt. Invoices for Consultant Contracts are payable per the Contract terms but shall not exceed federal regulations in 49 CFR 26.29 that requires payment of all Sub-Contractors for satisfactory performance within thirty (30) days of payment to the Prime.

### 30.15. PUBLIC RECORDS REQUIREMENTS APPLICABLE TO ALL CONTRACTORS

- A. For purposes of the Contract, the Contractor is responsible for becoming familiar with Florida's Public Records law, consisting of chapter 119, F.S., section 24(a) of Article I of the Florida Constitution, or other applicable state or federal law (Public Records Law).
- B. All requests to inspect or copy Public Records relating to the Contract must be made directly to the Department. Notwithstanding any provisions to the contrary, disclosure of any records made or received by the State in conjunction with the Contract is governed by Public Records Law.
- C. If the Contractor has a reasonable, legal basis to assert that any portion of any records submitted to the Department are confidential, proprietary, trade secret, or otherwise not subject to disclosure ("Confidential" or "Trade Secret") under Public Records Law or other authority, the Contractor must simultaneously provide the Department with a separate redacted copy of the records the Contractor claims as Confidential or Trade Secret and briefly describe in writing the grounds for claiming exemption from the Public Records Law, including

the specific statutory citation for such exemption. The un-redacted copy of the records must contain the Contract name and number and must be clearly labeled "Confidential" or "Trade Secret." The redacted copy of the records should only redact those portions of the records that the Contractor claims are Confidential or Trade Secret. If the Contractor fails to submit a redacted copy of records it claims are Confidential or Trade Secret, such action may constitute a waiver of any claim of confidentiality.

- D. If the Department receives a Public Records request, and if records that have been marked as "Confidential" or "Trade Secret" are responsive to such request, the Department will provide the Contractor-redacted copies to the requester. If a requester asserts a right to the portions of records claimed as Confidential or Trade Secret, the Department will notify the Contractor that such an assertion has been made. It is the Contractor's responsibility to assert that the portions of records in question are exempt from disclosure under Public Records Law or other authority. If the Department becomes subject to a demand for discovery or disclosure of the portions of records the Contractor claims as Confidential or Trade Secret in a legal proceeding, the Department will give the Contractor prompt notice of the demand, when possible, prior to releasing the portions of records the Contractor claims as Confidential or Trade Secret (unless disclosure is otherwise prohibited by applicable law). The Contractor shall be responsible for defending its determination that the redacted portions of its records are Confidential or Trade Secret. No right or remedy for damages against the Department arises from any disclosure made by the Department based on the Contractor's failure to promptly legally protect its claim of exemption and commence such protective actions within ten days of receipt of such notice from the Department.
- E. If the Contractor claims that the records are "Trade Secret" pursuant to section 624.4213, F.S., and all the requirements of section 624.4213(1), F.S., are met, the Department will respond to the Public Records Request in accordance with the provisions specified in that statute.
- F. The Contractor shall ensure that exempt or confidential and exempt Public Records are not disclosed except as permitted by the Contract or by Public Records Law.

### 30.16. ADDITIONAL PUBLIC RECORDS DUTIES of Section 119.0701, F.S.

- A. If Applicable. If the Contractor is a "Contractor" as defined in section 119.0701(1)(a), F.S., the Contractor shall:
  - 1. Keep and maintain Public Records required by the Department to perform the service.
  - 2. Upon request, provide the Department with a copy of requested Public Records or allow the Public Records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in chapter 119, F.S., or as otherwise provided by law.
  - 3. Ensure that Public Records that are exempt or confidential and exempt from Public Records disclosure requirements are not disclosed except as authorized by law for the duration of

- the Contract term and following completion of the Contract if the Contractor does not transfer the Public Records to the Department.
4. Upon completion of the Contract, transfer, at no cost, to the Department all Public Records in possession of the Contractor or keep and maintain Public Records required by the Department to perform the service. If the Contractor transfers all Public Records to the Department upon completion of the Contract, the Contractor shall destroy any duplicate Public Records that are exempt or confidential and exempt from Public Records disclosure requirements. If the Contractor keeps and maintains Public Records upon completion of the Contract, the Contractor shall meet all applicable requirements for retaining Public Records. All Public Records stored electronically must be provided to the Department, upon request from the Department's custodian of Public Records, in a format specified by the Department as compatible with the information technology systems of the Department. These formatting requirements are satisfied by using the data formats as authorized in the Contract or Microsoft Word, Outlook, Adobe, or Excel, and any software formats the Contractor is authorized to access.
  5. If the Contractor has questions regarding the application of Chapter 119, F.S., to the Contractor's duty to provide public records relating to the Contract,
  6. CONTACT PUBLIC RECORDS AT: Telephone: (850) 413-3149; Email: PublicRecordsInquiry@myfloridacfo.com; Mailing Address: The Department of Financial Services, Office of the General Counsel, Public Records 200 E. Gaines Street, Larson Building Tallahassee, Florida 32399-0311A Contractor who fails to provide the Public Records to the Department within a reasonable time may be subject to penalties under section 119.10, F.S.

### 30.17. RESTRICTIONS ON LOBBYING-STATE

- A. Contractors shall ensure compliance with Section 11.062, FS and Section 216.347, FS. The Contractor shall not, in connection with this or any other agreement with the State, directly or indirectly
  1. offer, confer, or agree to confer any pecuniary benefit on anyone as consideration for any State officer or employee's decision, opinion recommendation, vote, other exercise of discretion, or violation of a known legal duty, or
  2. offer, give, or agree to give to anyone any gratuity for the benefit of, or at the direction or request of, any State officer or employee. For purposes of clause (13.2), "gratuity" means any payment of more than nominal monetary value in the form of cash, travel, entertainment, gifts, meals, lodging, loans, subscriptions, advances, deposits of money, services, employment, or Contracts of any kind. Upon request of Department's Inspector General, or other authorized State official, the Contractor shall provide any type of information the Inspector General deems relevant to the Contractor's integrity or responsibility. Such information may include, but shall not be limited to, the Contractor's

business or financial records, documents, or files of any type or form that refer to or relate to the Contract. The Contractor shall retain such records for the longer of

- a. three (3) years after the expiration of the Contract or
- b. the period required by the General Records Schedules maintained by the Florida Department of State. (available at: <http://dos.myflorida.com/library-archives/records-management/general-records-schedules/>). The Contractor agrees to reimburse the State for the reasonable costs of investigation incurred by the Inspector General or other authorized State official for investigations of the Contractor's compliance with the terms of this or any other Agreement between the Contractor and the State which results in the suspension or debarment of the Contractor. Such costs shall include, but shall not be limited to: salaries of investigators, including overtime; travel and lodging expenses; and expert witness and documentary fees. The Contractor shall not be responsible for any costs of investigations that do not result in the Contractor's suspension or debarment.

### 30.18. RESTRICTIONS, PROHIBITS, CONTROLS, AND LABOR PROVISIONS

During the performance of this Contract, Hernando County requires the following provisions to be included in each Contract and Sub-Contract entered into pursuant to this Contract.

- A. A person or affiliate who has been placed on the Convicted Vendor List following a conviction for a public entity crime may not submit a Bid on a Contract to provide any goods or services to a public entity, may not submit a Bid on a Contract with a public entity for the construction or repair of a public building or public work, may not submit Bids on leases or real property to a public entity, may not be awarded or perform work as a Contractor, Supplier, Sub-Contractor, or Consultant under a Contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statutes for CATEGORY TWO for a period of thirty-six (36) months from the date of being placed on the Convicted Vendor List.
- B. In accordance with Section 287.134, Florida Statutes, an entity or affiliate who has been placed on the Discriminatory Vendor List may not submit a Bid on a Contract to provide any goods or services to a public entity, may not submit a Bid on a Contract with a public entity for the construction or repair of a public building or public work, may not submit Bids on leases of real property to a public entity, may not be awarded or perform work as a Contractor, Supplier, Sub-Contractor, or Consultant under a Contract with any public entity, and may not transact business with any public entity.
- C. An entity or affiliate who has had its Certificate of Qualification suspended, revoked, denied or have further been determined by the Department to be a non-responsible Contractor may not submit a Bid or perform work for the construction or repair of a public building or public work on a Contract with Hernando County.

- D. Neither Hernando County nor any of its Contractors or their Sub-Contractors shall enter into any Contract, Sub-Contract or arrangement in connection with the Project or any property included or planned to be included in the Project in which any member, officer or employee of Hernando County or the locality during tenure or for two (2) years thereafter has any interest, direct or indirect. If any such present or former member, officer or employee involuntarily acquires or had acquired prior to the beginning of tenure any such interest, and if such interest is immediately disclosed to Hernando County, Hernando County, with prior approval of the Department, may waive the prohibition contained in this paragraph provided that any such present member, officer or employee shall not participate in any action by Hernando County or the locality relating to such Contract, Sub-Contract or arrangement. Hernando County shall insert in all Contracts entered into in connection with the Project or any property included of planned to be included in any Project, and shall require its Contractors to insert in each of their Sub-Contracts, the following provision:
1. *“No member, officer or employee of Hernando County or of the locality during his tenure or for two (2) years thereafter shall have any interest, direct or indirect, in this Contract or the proceeds thereof.”*
- E. The provisions of this paragraph shall not be applicable to any Agreement between Hernando County and its fiscal depositories or to any Agreement for utility services the rates for which are fixed or controlled by a governmental agency.

### 30.19. TERMINATION OR SUSPENSION OF PROJECT

- A. Termination for Convenience. Hernando County, by written notice to the Contractor, may terminate the Contract in whole or in part when Hernando County determines in its sole discretion that it is in the State’s interest to do so. The Contractor shall not furnish any product after it receives the notice of termination, except as necessary to complete the continued portion of the Contract, if any. The Contractor shall not be entitled to recover any cancellation charges or lost profits.
- B. Termination for Cause.
1. Hernando County may terminate the Contract if the Contractor fails to
    - a. deliver the product within the time specified in the Contract or any extension,
    - b. maintain adequate progress, thus endangering performance of the Contract,
    - c. honor any term of the Contract, or
    - d. abide by any statutory, regulatory, or licensing requirement.
  2. Rule 60A-1.006(3), F.A.C., governs the procedure and consequences of default. The Contractor shall continue work on any work not terminated. Except for defaults of Sub-Contractors at any tier, the Contractor shall not be liable for any excess costs if the failure to

perform the Contract arises from events completely beyond the control, and without the fault or negligence, of the Contractor. If the failure to perform is caused by the default of a Sub-Contractor at any tier, and if the cause of the default is completely beyond the control of both the Contractor and the Sub-Contractor, and without the fault or negligence of either, the Contractor shall not be liable for any excess costs for failure to perform, unless the Sub-Contracted products were obtainable from other sources in sufficient time for the Contractor to meet the required delivery schedule. If, after termination, it is determined that the Contractor was not in default, or that the default was excusable, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of Hernando County. The rights and remedies of Hernando County in this clause are in addition to any other rights and remedies provided by law or under the Contract.

- C. Suspension of Work. Hernando County may in its sole discretion suspend any or all activities under the Contract or purchase order, at any time, when in the best interests of the State to do so. Hernando County shall provide the Contractor written notice outlining the particulars of suspension. Examples of the reason for suspension include, but are not limited to, budgetary constraints, declaration of emergency, or other such circumstances. After receiving a suspension notice, the Contractor shall comply with the notice and shall not accept any purchase orders. Within ninety (90) days, or any longer period agreed to by the Contractor, Hernando County shall either
1. issue a notice authorizing resumption of work, at which time activity shall resume, or
  2. terminate the Contract or purchase order. Suspension of work shall not entitle the Contractor to any additional compensation.

### 30.20. TITLE VI-CIVIL RIGHTS ACT OF 1964

Execution of this Agreement constitutes a certification that the Contractor will comply with all the requirements imposed by Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d, et seq.), the Regulations of the Federal Department of Transportation issued thereunder, and the assurance by the Contractor pursuant thereto.

### 30.21. TITLE VIII-CIVIL RIGHTS ACT OF 1968

Execution of this Agreement constitutes a certification that the Contractor will comply with all the requirements imposed by Title VIII of the Civil Rights Act of 1968 (42 U.S.C. 3601, et seq.), which among other things, prohibits discrimination in employment on the basis of race, color, national origin, creed, sex, and age.

### 30.22. MISCELLANEOUS

- A. The Contractor agrees to comply with Section 20.055(5), Florida Statutes, and to incorporate in all Sub-Contracts the obligation to comply with Section 20.055(5), Florida Statutes.

- B. This Contract shall be governed by and construed in accordance with the laws of the State of Florida. In the event of a conflict between any portion of the Contract and Florida law, the laws of Florida shall prevail.

### 30.23. FORCE MAJEURE AND NOTICE OF DELAY FROM FORCE MAJEURE

If a force majeure occurs that causes delays or the reasonable likelihood of delay in the fulfillment of the requirements of this Agreement, the Vendor/Contractor shall promptly notify Hernando County orally. Within seven (7) calendar days, the Vendor/Contractor shall notify Hernando County in writing of the anticipated length and cause of the delay, the measures taken or to be taken to minimize the delay and the Vendor/Contractor's intended timetable for implementation of such measures. If the Parties agree that the delay or anticipated delay was caused, or will be caused by a force majeure, Hernando County may, at its discretion, extend the time for performance under this Agreement for a period of time equal to the delay resulting from the force majeure upon execution of an Amendment to this Agreement. Such agreement shall be confirmed by letter from Hernando County accepting, or if necessary, modifying the extension. A force majeure shall be an act of God, strike, lockout, or other industrial disturbance, act of the public enemy, war, blockade, public riot, lightning, fire, flood, explosion, failure to receive timely necessary third party approvals through no fault of the Vendor/Contractor, and any other cause, whether of the kind specifically enumerated herein or otherwise, that is not reasonably within the control of the Vendor/Contractor and/or Hernando County. The Vendor/Contractor is responsible for the performance of all services issued under this Agreement. Failure to perform by the Vendor/Contractor's consultant(s) or subcontractor(s) shall not constitute a force majeure event.

## 31. VENDOR SUBMISSIONS

### 31.1. Acknowledgement and Attestation\*

By responding to this RFQ, the respondent(s) certify that he/she has reviewed the sample contract, and its exhibits contained herein, and is familiar with their terms and conditions and finds them expressly workable without change or modification.

We certify and declare that the foregoing is true and correct.

**Please acknowledge below that you confirm the above statement:**

Please confirm

\*Response required

### 31.2. Download Drug Free Workplace Certificate \*

I have read and attest to, in accordance with Florida Statute 287.087 (current version), hereby certify that,

Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the workplace named above, and specifying actions that will be taken against violations of such prohibition.

Informs employees about the dangers of drug abuse in the workplace, the firm's policy of maintaining a drug free working environment, and available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug use violations.

Gives each employee engaged in providing commodities or contractual services that are under proposal a copy of the statement specified above.

Notifies the employees that as a condition of working on the commodities or contractual services that are under proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, pleas of guilty or nolo contendere to, any violation of Chapter 893, or of any controlled substance law of the State of Florida or the United States, for a violation occurring in the workplace, no later than five (5) days after such conviction, and requires employees to sign copies of such written statement to acknowledge their receipt.

Imposes a sanction on, or requires the satisfactory participation in, a drug abuse assistance or rehabilitation program, if such is available in the employee's community, by any employee who is so convicted.

Makes a good faith effort to continue to maintain a drug free workplace through the implementation of the Drug Free Workplace Program.

"As a person authorized to sign this statement, I certify that the above named business, firm or corporation complies fully with the requirements set forth herein".

Please Confirm that you have read and attest to Download Drug Free Workplace Certificate

Please confirm



\*Response required

### 31.3. Affidavit of Non Collusion and of Non-Interest of Hernando County Employees\*

Certification that Vendor/Contractor affirms that the bid/proposal presented to the Owner is made freely, and without any secret agreement to commit a fraudulent, deceitful, unlawful or wrongful act of collusion.

I have read and attest that I am the Vendor/Contractor in the above bid/proposal, that the only person or persons interested in said proposal are named therein; that no officer, employee or agent of the Hernando County Board of County Commissioners (BOCC) or of any other Vendor/Contractor is interested in said bid/proposal; and that affiant makes the above bid/proposal with no past or present collusion with any other person, firm or corporation.

Please confirm that you have read and attest to Affidavit of Non Collusion and of Non-Interest of Hernando County Employees

Please confirm

\*Response required

### 31.4. Sworn Statement

#### 31.4.1. Sworn Statement 287.133 (3) (a)\*

I have read and attest that I understand that a "public entity crime" as defined in Paragraph 287.133 (1)(g), Florida Statutes (current version), means a violation of any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any proposal or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

I have read and attest that I understand that "convicted" or "conviction" as defined in Paragraph 287.133 (1)(b), Florida Statutes (current version), means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any Federal or State trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.

I have read and attest that I understand that an "affiliate" as defined in Paragraph 287.133 (1)(a), Florida Statutes (current version), means:

- A. A predecessor or successor of a person convicted of a public entity crime; or
- B. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one (1) person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that

one (1) person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding thirty-six (36) months shall be considered an affiliate.

I have read and attest that I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes (current version), means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which proposals or applies to proposal on contracts for the provisions of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

I have read and attest that based on information and belief, the statement which I have confirmed below is true in relation to the entity submitting this sworn statement:

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH ONE (1) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31, OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT.

Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

The entity submitting this sworn statement, or one (1) or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

The entity submitting this sworn statement, or one (1) or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted Vendor/Contractor list

\*Response required

***31.4.2. If you choose option 3, please attach a copy of the final order***

The entity submitting this sworn statement, or one (1) or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted Vendor/Contractor list

**Please attach a copy of the final order**

### **31.5. Authorized Signatures/Negotiators**

#### ***31.5.1. Authorized Signatures/Negotiators \****

Please provide the information to support the statement below:

The Vendor/Contractor represents that the following persons are authorized to sign and/or negotiate contracts and related documents to which the Vendor/Contractor will be duly bound:

Name(s)

Title(s)

Phone no (s)

\*Response required

#### ***31.5.2. Type of Organization \****

Please select your organization type:

Sole Proprietorship

Partnership

Joint Venture

Corporation

\*Response required

#### ***31.5.3. Company ID\****

Please Provide Your:

State of Incorporation and

Federal I.D. NO.

\*Response required

#### ***31.5.4. W9 Form\****

Please upload your company's W9 information

\*Response required

#### ***31.5.5. ACH electronic payment\****

An ACH electronic payment method is offered as an alternative to a payment by physical check. Please select one of the options.

Yes, ACH electronic payment method is acceptable.

No, ACH electronic payment method is not acceptable.

\*Response required

### 31.6. E-Verify Certification

#### *31.6.1. E-Verify Certification \**

Vendor/Contractor acknowledges and agrees to the following:

Vendor/Contractor shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of:

All persons employed by the Vendor/Contractor during the term of the Contract to perform employment duties within Florida; and

All persons, including subcontractors, assigned by the Vendor/Contractor to perform work pursuant to the Contract with the department.

Please confirm

\*Response required

#### *31.6.2. References \**

Proposer must provide a minimum of **three (3)** references in format shown below. References must be individuals that can be readily contacted and have first-hand knowledge of the Proposer's performance on the specific project performed by the Proposer. Each reference project must meet the following criteria:

Project at Substantial Completion or completed within the last seven (7) years.

Similar in size, dollar value and scope as this project.

#### **Please provide information for 3 required References:**

Business/Owner Name

Reference Contact Person

Reference Address

Reference Phone No.

Reference Email Address

Project Name

Project Location

Contract Project Manager

Site Superintendent

Contract Amount

Date Project Commenced

Date of Substantial Completion

## Date of Final Completion

## Description of Work Performed

Note: Experience shall be related to successfully completed projects within the last seven (7) years (i.e., the project must have been Substantially Complete within seven (7) years of the due date of this RFQ. Only projects that are complete or substantially complete as of the bid due date will be considered).

By submitting this information, I certify that the qualifications questionnaire information is true and correct to the best of my knowledge.

\*Response required

### *31.6.3. Key Subcontractors\**

Each Proposer must submit with its response a list of subcontractors who will perform the work in each of the following categories (key subcontractors). List the name of the proposed subcontractor, or "Proposer" if the Proposer will perform the work, after each work category:

Example:

- (1) Earthwork construction
- (2) Earthen dike construction
- (3) Soil bentonite backfill cut-off wall installation
- (4) Wet excavation/dredging work
- (5) Concrete form work
- (6) Equipment installation
- (7) Electrical and instrumentation installation
- (8) Control system integration
- (9) Wetland planting and establishment

**If no subcontractors will be employed please state "NONE"**

\*Response required

### *31.6.4. Vendor/Contractor's License\**

The Proposer must be a registered to do business in the State of Florida. **All Proposers and/or subcontractors performing work requiring a specialty license must be licensed in the State of Florida.** This includes but is not limited to electrical and mechanical trades, as well as any other earthwork Contractor on the Proposer's team. Provide license information (as required in Paragraph 27) below for Proposer and all subcontractors identified herein.

## Classification

Issuing Government License

Issue Date:

License Number:

\*Response required

### **31.6.5. Organization Chart\***

Proposer must provide an organization chart showing Proposer's team identifying specific responsibilities of Proposer and subcontractors.

\*Response required

## **31.7. Vendor/Contractor's License**

### **31.7.1. Vendor/Contractor's License\***

Please upload all contractors and subcontractors license(s) required for this project.

\*Response required

## **31.8. Additional Required Forms**

### **31.8.1. Trench Safety Act Compliance \***

Please download the below documents, complete, and upload.

- [Trench Safety Act Complian...](#)

\*Response required

### **31.8.2. Corporate Affidavit \***

Please download the below documents, complete, and upload.

- [Corporate Affidavit.pdf](#)

\*Response required

### **31.8.3. Vendor Certification Regarding Scrutinized Companies\***

Section 287.135 (Current Edition), Florida Statutes, prohibits agencies from contracting with companies for goods or services of \$1,000,000.00 or more, that are on either the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector Lists which are created pursuant to s. 215.473 F.S. (Current Edition), or the Scrutinized Companies that Boycott Israel List, created pursuant to s. 215.4725 F.S. (Current Edition), or companies that are engaged in a boycott of Israel or companies engaged in business operations in Cuba or Syria.

As the person authorized to bind on behalf of respondent, I hereby certify that the company identified above in the section entitled "Respondent Vendor Name" is not listed on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List. I further certify that the company is not engaged in a boycott of Israel. I understand that pursuant to section 287.135

(Current Edition), Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs and does not have business operations in Cuba or Syria.

I have read and attest that I confirm the above is acknowledged.

Please confirm

\*Response required

### 31.9. Hernando County Employment Disclosure Certification Statement

*31.9.1. Is any officer, partner, director, proprietor, associate or member of the business entity a former employee of Hernando County within the last two (2) years? \**

Yes

No

\*Response required

*31.9.2. Is any officer, partner, director, proprietor, associate or member of the business entity a relative or member of the household of a current Hernando County employee that had or will have any involvement with this procurement or contract authorization?\**

Yes

No

\*Response required

### 31.9.3. Relatives and Former Hernando County Employees - Roles and Signatures

If you answered yes to the either of the two prior questions regarding relatives or Hernando employees, please download the below documents, complete, and upload.

- [Relatives and Former Hernan...](#)

### 31.10. Vendor Survey

#### 31.10.1. Vendor Survey \*

Please provide information on where you received the knowledge of the bid/request for Qualifications (mark all that apply):

*Select all that apply*

County's eProcurement Portal (Open Gov Procurement)

Newspaper

Purchasing and Contracts Advertisement Board

Other (Please list in the following question)

\*Response required

#### 31.10.2. Vendor Survey - Other

If you choose Other please list how you received the knowledge of the bid/request for Proposals.

### **31.10.3. *Anticipates Services outside the United States or Florida\****

Anticipates Services outside the United States or Florida

If the respondent anticipates services under the contract or any subcontracts will be performed outside the United States or Florida, the respondent shall provide in a written statement which must include, but need not be limited to the type of services that will be performed at a location outside the United States or Florida and the reason why it is necessary or advantageous to go outside the United States or Florida to perform such services. (Does not apply to any project that receives federal moneys)

Yes

No

\*Response required

### **31.11. Submittal Requirements**

Firms will be judged not only on their past experience for the type of work involved, but also on their ability to address issues critical to the success of the project requirements outlined in this RFQ document. (Note that the primary focus of the prequalification evaluation will be the firm(s) capability and the primary focus of the oral interview will be the proposed Project Management Team members capabilities.) Following are elements that will be used to evaluate each firm's qualifications:

#### **31.11.1. *PROJECT TEAM \****

Identify the project principal, the project manager, key staff and subconsultants. Present a brief discussion regarding how the team's qualifications and experience relate to the specific project.

- Qualifications and relevant individual experience.
- Unique knowledge of key team members relating to the project.
- Experience on projects as a team.
- Key staff involvement in project management and on-site presence.
- Time commitment of key staff.
- Qualifications and relevant subconsultant experience.

\*Response required

#### **31.11.2. *FIRM/TEAM CAPABILITIES\****

- Are the lines of authority and coordination clearly identified?
- Are essential management functions identified?
- Are the functions effectively integrated? (e.g., subconsultants' role delineated)?
- Current and projected work load.

Note: Organization charts and graphs depicting your capacity may be included.

\*Response required



### **31.11.3. PRIOR EXPERIENCE\***

Use this portion of your submittal to describe relevant experiences with the project type described in this RFQ document and various services to be provided.

- Experience of the key staff and firm with projects of similar scope and complexity.
- Demonstrated success on past projects of similar scope and complexity.
- References.

Note: Include the name and current telephone number of the owner's project manager for every project listed.

\*Response required

### **31.11.4. PROJECT APPROACH - Budget Methodology/Cost Control\***

For the project and services outlined in the RFQ document, describe how you plan to accomplish the following project control and management issues:

- Budget Methodology/Cost Control.
  - Establish and maintain estimates of probable cost within owner's established budget.
  - Control consultant contract costs
  - Coordinate value engineering activities

\*Response required

### **31.11.5. PROJECT APPROACH - Quality Control Methodology\***

For the project and services outlined in the RFQ document, describe how you plan to accomplish the following project control and management issues:

- Quality Control Methodology.
  - Insure County procedures are followed
  - Improve energy efficiency through the use of an integrated design process, life cycle costing, the use of an energy standard (current OSA energy code) and the specification of energy efficient materials, systems, and equipment
  - Insure the project is designed for durability and maintainability

\*Response required

### **31.11.6. PROJECT APPROACH - Schedule\***

For the project and services outlined in the RFQ document, describe how you plan to accomplish the following project control and management issues:

- Schedule.

- Manage the required work to meet the established schedule

\*Response required

### **31.11.7. WORK COORDINATION\***

Describe how the prime and subconsultants will do the key work elements of this project.

- Methods of coordination and communication as it may affect coordination with the County's project manager and the potential project location.
- Firm's familiarity with the project area.
- Knowledge of the local labor and material markets.

\*Response required

## **31.12. Optional**

### **31.12.1. Optional Upload of additional Information**

Please upload any optional/additional information not requested elsewhere.

### **31.12.2. Grant Required Compliance Forms\***

Please download the below documents, complete and upload.

- [Florida Convicted or Discri...](#)
- [DBE-SUB Statement Form.pdf](#)
- [GOOD FAITH EFFORTS-with OSD...](#)
- [State Certification for Dis...](#)
- [Exp 2-18-2025 Standard Form...](#)

\*Response required

## **31.13. EXCEPTIONS**

### **31.13.1. PROPOSER'S CERTIFICATION\***

I have carefully examined the Request for Proposals (RFP), Instructions to Proposers, General and/or Special Conditions, Specifications, RFP Proposal and any other documents accompanying or made a part of this invitation.

I hereby propose to furnish the goods or services specified in the Request for Proposals at the prices or rates quoted in my Proposal. I agree that my RFP will remain firm for a period of up to one hundred and eighty (180) days in order to allow the County adequate time to evaluate the Proposals. Furthermore, I agree to abide by all conditions of the Proposal.

I certify that all information contained in this RFP is truthful to the best of my knowledge and belief. I further certify that I am a duly authorized to submit this RFP on behalf of the Consultant/Firm as its act and deed and that the Consultant/Firm is ready, willing and able to perform if awarded the Contract.

I further certify that this RFP is made without prior understanding, agreement, connection, discussion, or collusion with any person, firm or corporation submitting a RFP for the same product or service; no officer, employee or agent of the Hernando County BCC or of any other Proposer interested in said RFP; and that the undersigned executed this Proposer's Certification with full knowledge and understanding of the matters therein contained and was duly authorized to do so.

I further certify that having read and examined the specifications and documents for the designated services and understanding the general conditions for Contract under which services will be performed, does hereby propose to furnish all labor, equipment, and material to provide the services set forth in the RFP.

I hereby declare that the following listing states any clarifications, any and all variations from and exceptions to the requirements of the specifications and documents. The undersigned further declares that the "work" will be performed in strict accordance with such requirements and understands that any exceptions to the requirements of the specifications and documents may render the Proposer's Proposal non-responsive.

NO EXCEPTIONS ALLOWED AFTER THE RFP IS SUBMITTED:

Please check one:

- I take NO exceptions
- I take Exceptions, explained in the subsequent answer

\*Response required

### **31.13.2. Exceptions\***

If you selected "Exceptions" in the preceding question, please upload your exceptions to this RFP per instructions in item A and B below.

1. Proposers may take exception to certain requirements in this RFQ. All exceptions shall be clearly identified in this section, with a written explanation of the exception and an alternate proposal (if applicable). The County, at its sole discretion, may reject any exceptions or specifications within the proposal.
2. The Contract that the County intends to use for award is attached for reference. Any exceptions to this standard Contract must be clearly indicated by return of the standard Contract with the Proposal, with exceptions clearly noted. The County has the right to require the selected Proposer to sign the attached Contract or to negotiate revisions to the Contract language prior to execution of the Contract, at its sole discretion.

\*Response required



PROCUREMENT DEPARTMENT

15470 FLIGHT PATH DRIVE • BROOKSVILLE, FLORIDA 34604  
P 352.754.4020 • F 352.754.4199 • W www.HernandoCounty.us

**ADDENDUM NO. ONE (1)**

TO  
THE CONTRACT DOCUMENTS  
FOR THE

**Capacity Expansion Ridge Manor Wastewater Reclamation Facility**

IN  
HERNANDO COUNTY, FLORIDA  
**SOLICITATION NO. 22-RG0128/AP**

**BID DUE DATE: July 3, 2023 10:00 am**

**NOTICE**

BIDDERS ARE REQUIRED TO ACKNOWLEDGE RECEIPT OF  
THIS ADDENDUM BY SIGNATURE AT THE BOTTOM OF  
THIS ADDENDUM IN THE SPACES PROVIDED AND  
RETURNED AT THE TIME OF THE BID DATE.

TO ALL PLAN HOLDERS:

The following changes, additions and/or deletions are hereby made a part of the Contract Documents for the **Capacity Expansion Ridge Manor Wastewater Reclamation Facility**, located in Hernando County, as fully and completely as if the same were fully set forth therein:

**A. CLARIFICATIONS**

1. **Question:** *"Can the County please provide the record drawings for the 0.75 MGD sub-regional WRF?"*

**Answer:** The record drawings are hereby included and attached with this addendum.

# HERNANDO COUNTY WATER & SEWER DISTRICT RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT LIFT STATIONS & FORCE MAIN



LOCATION MAP  
N.T.S.

COASTAL ENGINEERING ASSOCIATES INC.  
"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are correct and complete as shown, drawings and other information furnished to the Engineer by the Contractor, and show the professional responsibility to the best of my knowledge and belief.  
FIELD ENGINEER: *[Signature]* Date: 5/2/92  
P. E. No. 36834

LIFT STATIONS & FORCE MAIN ONLY  
COASTAL ENGINEERING ASSOCIATES INC.  
"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are correct and complete as shown, drawings and other information furnished to the Engineer by the Contractor, and show the professional responsibility to the best of my knowledge and belief.  
FIELD ENGINEER: *[Signature]* Date: 5/1/92  
P. E. No. 36834

GOVERNING BOARD  
HAROLD D. VARVEL, CHAIRMAN  
JOHN RICHARDSON, FIRST VICE CHAIRMAN  
GINNY BROWN-WAITE, VICE CHAIRMAN  
JUNE ESTER  
ANTHONY D. MOSCA, JR.

C.E.A. PROJECT No. 8977

*Coastal Engineering Associates, Inc.*

966 CANDLELIGHT BLVD.  
BROOKSVILLE, FLA. 34601  
(904) 796-9423

AGENCY APPROVALS				
AGENCY	PERMIT TYPE	DATE SUBMITTED	DATE APPROVED	PERMIT NO.
D.E.R.	17-600		4/19/91	DC27-18862
	17-604		4/19/91	0807-189453
S.W.F.W.M.D.	400-4/400-40		5/29/91	400899500
F.D.O.T.	UTS 1TY			
HERNANDO CO.	D.R.C.	DEC. 10, 1990		

DESIGN ENGINEER-GREGG HARKNESS

PROFESSIONAL ENGINEER FLORIDA REGISTRATION No. 36946

**GENERAL NOTES:**

1. THE LOCATION OF UTILITIES AND STRUCTURES, BOTH SURFACE AND SUBSURFACE ARE SHOWN ON THESE PLANS FROM DATA AVAILABLE AT TIME OF SURVEY AND ARE NOT NECESSARILY COMPLETE OR CORRECT. THE EXACT LOCATION AND PROTECTION OF UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR. DURING CONSTRUCTION, THE CONTRACTOR SHALL USE DUE DILIGENCE IN PROTECTING FROM DAMAGE ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN ON THESE PLANS OR NOT. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF THE SAME IN ACCORDANCE WITH THE DIRECTIONS OF THE ENGINEER AND FOR ANY RESULTING CONTINGENT DAMAGE.
2. VERTICAL CLEARANCE OF AT LEAST 18 INCHES SHALL BE MAINTAINED BETWEEN CROSSINGS OF POTABLE WATER AND SEWER LINES OR OTHER NON-POTABLE WATERS.
3. ELEVATIONS REFER TO NATIONAL GEODETIC DATUM.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK WITH THE SCHEDULE OF THE SUB-CONTRACTORS.
5. THE EXISTING TREATMENT PLANT MUST REMAIN IN OPERATION AT ALL TIMES. THE EXISTING TREATMENT PLANT WILL BE TAKEN OFF LINE AFTER THE NEW PLANT IS CERTIFIED AND IN OPERATION.
6. UNLESS OTHERWISE STATED, ALL ANCHORS, BOLTS, NUTS, WASHERS, EXPANSION SLEEVES AND OTHER FASTENERS WITHIN THE AREA OF THE WASTEWATER TREATMENT PLANT SHALL BE SERIES 305 STAINLESS STEEL STANDARD.
7. ALL ANCHOR BOLTS SHALL BE EMBEDDED IN CONCRETE.
8. SHOP CONNECTIONS SHALL BE WELDED UNLESS OTHERWISE NOTED, AND SHALL BE IN ACCORDANCE WITH SPECIFICATIONS OF THE AMERICAN WELDING SOCIETY (A.W.S.E.) AND THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (A.I.S.I.C.) 1989S 6702X ELECTRODE.
9. SHOP FABRICATION SHALL BE GIVEN SPECIAL ATTENTION TO MINIMIZE FIELD WELDING AND GRATING.
10. COORDINATE WITH OTHER TRADES THE LOCATION OF SLEEVES AND WALL TIE THROUGH WALLS, BEAMS, AND CEILING. REFER TO MECHANICAL, ELECTRICAL, STRUCTURAL AND PROCESS DRAWINGS FOR SPECIFIC REQUIREMENTS.
11. UNLESS OTHERWISE NOTED, ALL GRATING SECTIONS TO BE REMOVABLE.
12. ALL UNDESIGNED PIPING SHALL HAVE PUSH-ON OR MECHANICAL JOINTS AND ALL ABOVE GROUND PIPING SHALL BE FLANGED JOINTS UNLESS OTHERWISE NOTED.
13. INSTALL CONCRETE OR NON-CORROSIVE PIPE SUPPORT FOR ABOVE-GRADE SUCTION AND DISCHARGE PIPING. PIPING SUPPORT SYSTEM LAYOUT SHALL BE REVIEWED AND ACCEPTED BY ENGINEER PRIOR TO INSTALLATION.
14. DIMENSIONS NOTED BY (1) TO BE VERIFIED BY CONTRACTOR PER MANUFACTURER'S SHOP DRAWINGS.
15. SIZE AND FINAL LOCATION OF ALL OPENINGS SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER/SUPPLIER.
16. ALL EQUIPMENT PAD DIMENSIONS INDICATED ON THIS DRAWING SHALL BE VERIFIED WITH MANUFACTURER VIA ACTUAL SIZE OF EQUIPMENT SELECTED.
17. EQUIPMENT PAD DIMENSIONS AND EQUIPMENT ANCHOR BOLT REQUIREMENTS ARE DEPENDENT UPON EQUIPMENT SELECTED.
18. ALL EXPOSED MISCELLANEOUS STEEL AND STRUCTURAL STEEL SHALL BE GALVANNEED, UNLESS OTHERWISE NOTED.
19. BANERAILS, GUARDRAILS, POSTS, BRACKETS, MOUNTINGS AND LADDERS SHALL COMPLY WITH THE SOUTHERN BUILDING CODE (S.B.C.) AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) LOADING REQUIREMENTS.
20. ALL AREAS CAPTURED BY CONTRACTOR'S OPERATION AND NOT SPECIFICALLY RECESSED WITH OTHER MATERIALS SHALL BE BRUSHED AND WASHED.
21. ALL CORNER EDGES SHALL BE CHAMFERED 1/4 INCH UNLESS OTHERWISE NOTED.
22. REFER TO MECHANICAL, ELECTRICAL, SHOP DRAWINGS AND STRUCTURAL DRAWINGS FOR ADDITIONAL ITEMS EMBEDDED IN CONCRETE.
23. ALL PIPING LOCATED BEHIND STRUCTURES SHALL BE CONCRETE RECESSED.
24. EXERCISE CARE WITH EXCAVATING AROUND EXISTING STRUCTURES SO AS NOT TO DISTURB EXISTING BEARING MATERIALS.
25. ALL REINFORCING SHALL BE CONFORM TO "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 318).
26. MINIMUM LAP SPACING = 36  $\phi$  DIAMETERS UNLESS NOTED OTHERWISE.
27. PROVIDE PROPERLY TIED CORNER APPROVED BRACKETS, CHAIRS, BOLTERS, ETC., AS REQUIRED TO SUPPORT ALL REINFORCING IN PLACE. USE PLASTIC TIE COGS ON ALL EXPOSED SURFACES.
28. PROVIDE 1/4" CHAMBERS ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS AND WALLS UNLESS INDICATED OTHERWISE ON CIVIL DRAWINGS.
29. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL BEARINGS, SLEEVES, ANCHORBOULTS, INSERTS, ETC. AS REQUIRED BY OTHER TRADES, BEFORE CONCRETE IS PLACED.
30. PROVIDE 1"  $\phi$  BOLLER OPENINGS AT THE SAME COURSE OF ALL REINFORCED WALLS TO VERIFY BOLLER PLACEMENT.
31. WIRE REINFORCEMENT SHALL BE LAPPED BY AT LEAST 6" AT ENDS AND SHALL CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT IN THE LAPPED DISTANCE.
32. PROVIDE GALVANNEED DOWEL ANCHORS AT 18" O.C. AT ALL INTERSECTIONS OF CONCRETE AND REBAR.
33. ALL WOOD MEMBERS SHALL BE #2 SOUTHERN PINE HAVING AN ALLOWABLE EXPOSURE FIBER STRESS IN BENDING OF 1200 PSI AND ELASTICITY OF 1,800,000 PSI. ALL WOOD TO BE PRESSURE TREATED.
34. ALL HAIRING AND BOLTING SHALL BE IN ACCORDANCE WITH AISC.
35. PROVIDE BRACING IN ALL SPANS MORE THAN 8'-6" O.C.
36. ALL CONNECTION HARDWARE SHALL BE GALVANNEED AND SUPPLIED BY CEMSON STRONG TIE COMPANY INC. OR APPROVED EQUAL.
37. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE SECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ACQUISITION OF WHATEVER TEMPORARY BRACING, GUYWIRES OR TIE-DOWNS THAT MAY BE NECESSARY. SUCH MATERIALS SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
38. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STANDARD BUILDING CODE, LATEST EDITION.

**DRAWING INDEX**

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2	DRAWING INDEX & GENERAL NOTES	52	(NOT USED)
3	LEGENDS	53	(NOT USED)
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		105	VACUUM ASSISTED DEWATERING BED SCHEMATICS
		106	VACUUM ASSISTED DEWATERING BEDS GENERAL DETAILS
		107	VACUUM ASSISTED DEWATERING BEDS CONTROL BUILDING ARCHITECTURAL
		108	VACUUM ASSISTED DEWATERING BED ELECTRICAL

"RECORD DRAWINGS"  
 I have verified the above "Record Drawings" reflect all significant changes and all applicable licensed professional seal and registration numbers. They are issued upon receipt of all plans, drawings and other documents furnished to the engineer by the contractor, and shall not be used for construction without the seal of the engineer and his name.  
 FLOYD ENGLISH  
 (E) 10-10-89

*NOT TRANSFERRED AT THIS TIME*

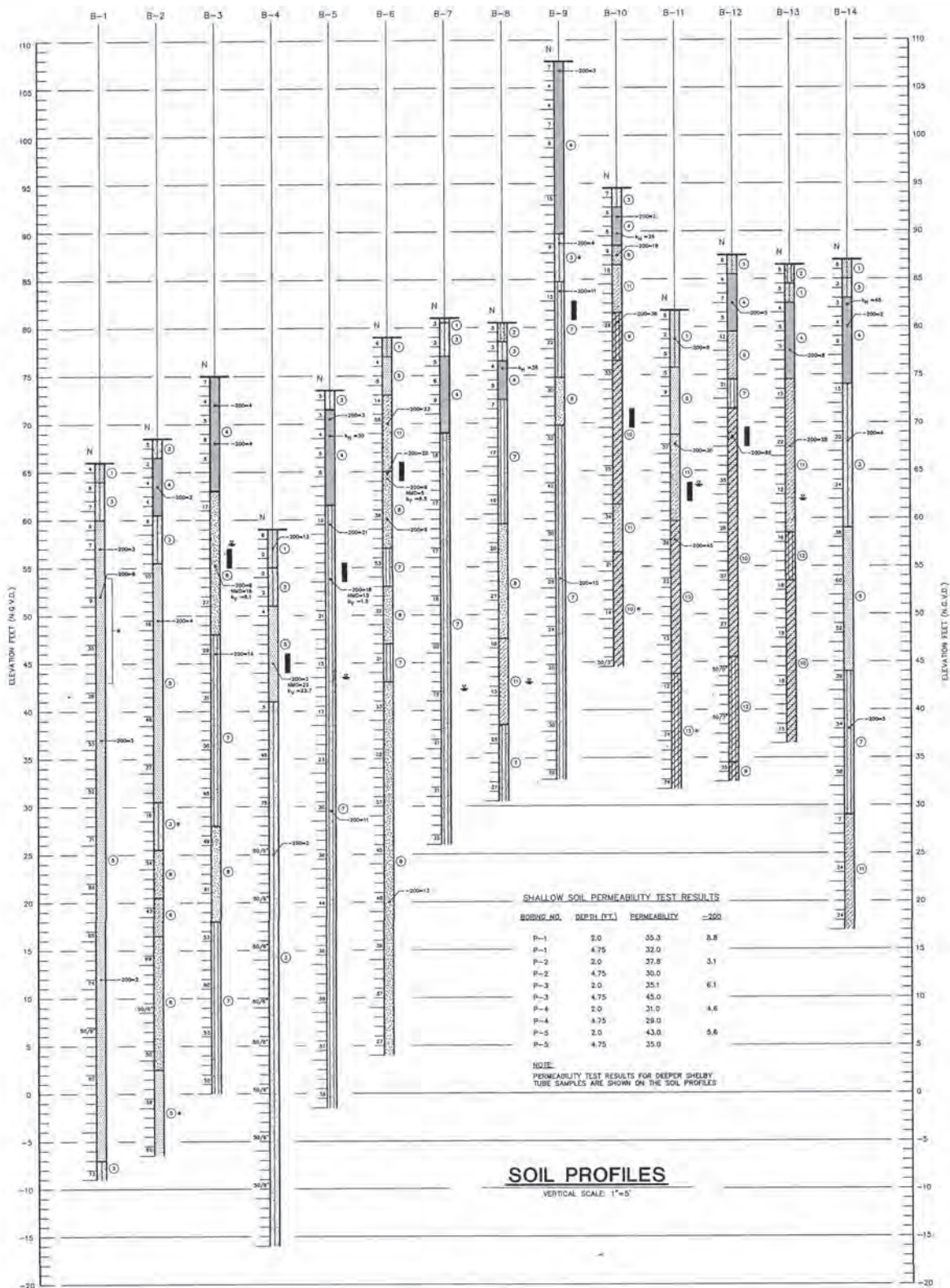
DATE	REV BY	APP BY	RE NO.	REV NO.	REVISION

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<b>INDEX &amp; GENERAL NOTES</b>		SHEET <b>2</b>
<b>RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT</b>		OF 108 SHEETS 8977



**LEGEND**

- ① Dark brown to black slightly silty fine SAND to silty fine SAND (SP-SM/SK)
- ② Dark brown to black organic silty fine SAND (muck)
- ③ Brown fine SAND to slightly silty fine SAND (SP/SP-SM)
- ④ Orange tan to tan fine SAND (SP)
- ⑤ Light brown fine SAND (SP)
- ⑥ Orange brown fine SAND to slightly clayey fine SAND (SP/SP-SC)
- ⑦ White and light gray slightly silty to silty fine SAND (SP-SM/SK)

- ⑧ White and light gray fine SAND (SP)
- ⑨ Light gray and orange mottled silty sandy CLAY (CL-CH)
- ⑩ Light gray and orange mottled clayey fine SAND to sandy CLAY (SC-CH)
- ⑪ Light gray and white slightly clayey fine SAND to clayey fine SAND (SP-SC/SC)
- ⑫ Orange/light gray/white silty CLAY, sometimes calcareous and clayey
- ⑬ weathered limestone (CL)

SP Unified Soil Classification group symbol as determined by visual review  
 ⚡ Groundwater level, June 1990

- N SPT "N" value in blows/foot
- sqft Fifty blows for six inches
- 200 Fines passing No. 200 sieve (%)
- wc Natural Moisture Content (%)
- $k_v$  Coefficient of Vertical Permeability (ft./day)
- $k_h$  Coefficient of Horizontal Permeability (ft./day)
- ▬ Shelby tube sample location
- + Slightly clayey

NOTE:  
BORING ELEVATIONS ESTIMATED FROM PROJECT TOPOGRAPHY

FIELD	DATE	BY	REVISION
DRAWN: SDJF			
CHECK: SDJF			
APPVD: JPM			
SCALE: NOTED			

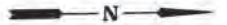
EFFLUENT DISPOSAL STUDY  
**RIDGE MANOR**  
 HERNANDO COUNTY, FLORIDA

**JAMMAL & ASSOCIATES, INC.** Consulting Engineers

DATE: JUNE 30 1990 PROJ. NO: 775-05121 SHEET 2 OF 3

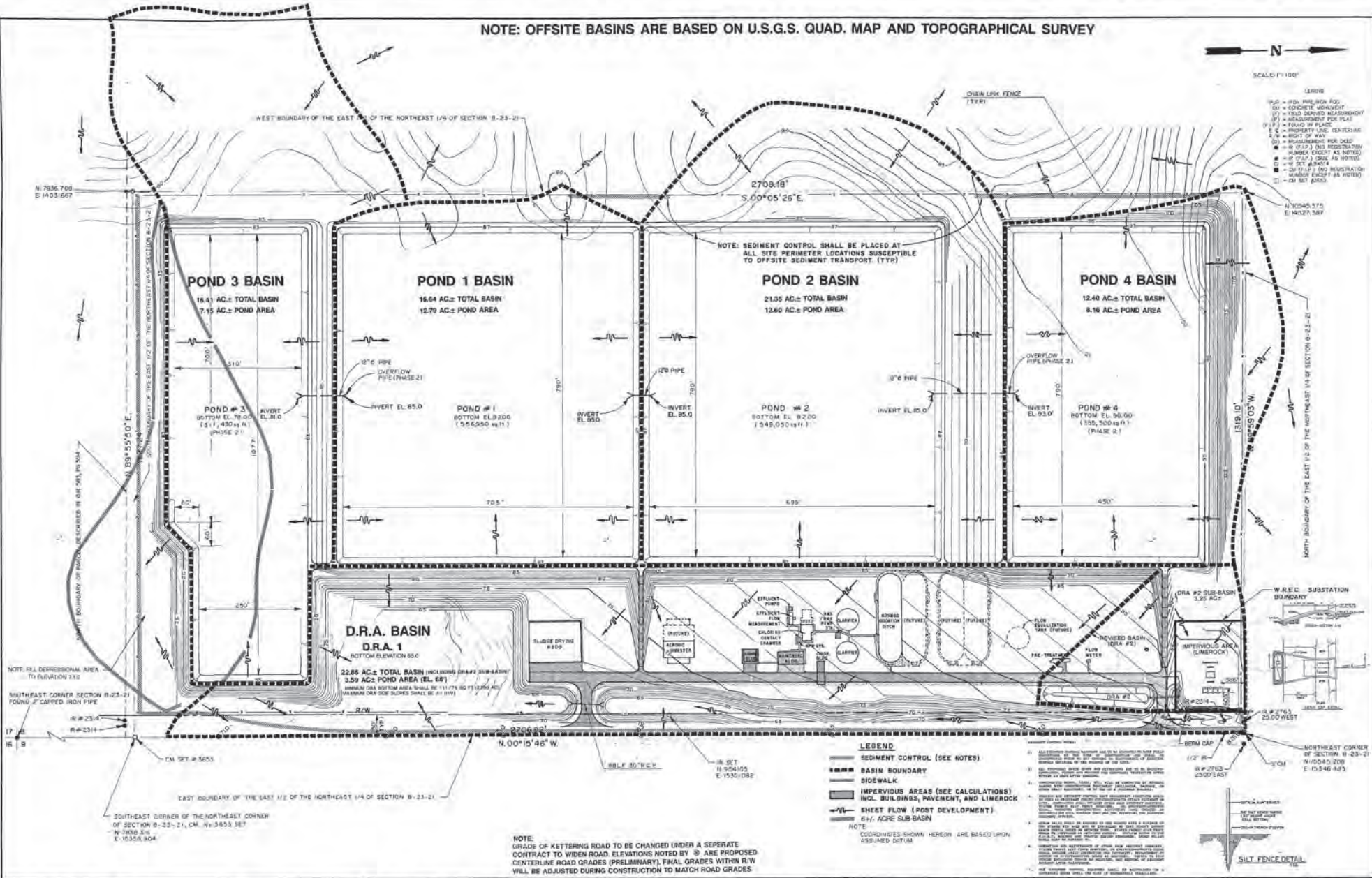


NOTE: OFFSITE BASINS ARE BASED ON U.S.G.S. QUAD. MAP AND TOPOGRAPHICAL SURVEY



SCALE 1"=100'

- LEGEND
- +—+— IRON PIPE (18" DIA)
  - CONCRETE UNDERLAY
  - FIELD CENTER MEASUREMENT
  - MEASUREMENT FOR PLAT
  - POINT OF PLATE
  - RIGHT OF WAY
  - PROPERTY LINE CENTERLINE
  - MEASUREMENT FOR DEEP
  - (1/2") DIA REGISTRATION NUMBER EXCEPT AS NOTED
  - (1/2") DIA AS NOTED
  - (1/2") DIA REGISTRATION NUMBER EXCEPT AS NOTED
  - (1/2") DIA



NOTE: FULL DEPRESSIONAL AREA TO ELEVATION 112

SOUTHEAST CORNER SECTION 8-23-21 FOUND 2" CARRIED IRON PIPE

R#2314

R#2314

CM SET #5653

EAST BOUNDARY OF THE EAST 1/2 OF THE NORTHEAST 1/4 OF SECTION 8-23-21

SOUTHEAST CORNER OF THE NORTHEAST CORNER OF SECTION 8-23-21, C.M. N. 3653 SET

N 7836.301  
E 15358.804

NOTE: GRADE OF KETTERING ROAD TO BE CHANGED UNDER A SEPARATE CONTRACT TO WIDEN ROAD. ELEVATIONS NOTED BY Ⓞ ARE PROPOSED CENTERLINE ROAD GRADES (PRELIMINARY). FINAL GRADES WITHIN R/W WILL BE ADJUSTED DURING CONSTRUCTION TO MATCH ROAD GRADES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. ALL EXISTING GRADE SHALL BE AS SHOWN ON THE PRELIMINARY SURVEY MAPS UNLESS OTHERWISE NOTED.
3. ALL PROPOSED GRADE SHALL BE AS SHOWN ON THE PRELIMINARY SURVEY MAPS UNLESS OTHERWISE NOTED.
4. ALL PROPOSED GRADE SHALL BE AS SHOWN ON THE PRELIMINARY SURVEY MAPS UNLESS OTHERWISE NOTED.
5. ALL PROPOSED GRADE SHALL BE AS SHOWN ON THE PRELIMINARY SURVEY MAPS UNLESS OTHERWISE NOTED.
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9. ALL PROPOSED GRADE SHALL BE AS SHOWN ON THE PRELIMINARY SURVEY MAPS UNLESS OTHERWISE NOTED.
10. ALL PROPOSED GRADE SHALL BE AS SHOWN ON THE PRELIMINARY SURVEY MAPS UNLESS OTHERWISE NOTED.

DATE	REV.	BY	APP.	REVISION
8-15-91	B.A.W.	D.E.C.		1 ADD DRA#2, DRA#2 SUB-BASIN, WREC SITE w/CULVERT

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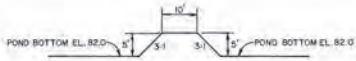
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966 CANDELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL. (904) 798-9223 FAX (904) 798-8338  
OWNER: M.F.A. DRAWN BY: B.A.W. CHECKED BY: S.E.H. DATE: 8/15/90

DATE PLOTTED: 08/22/90  
SCALE: AS SHOWN

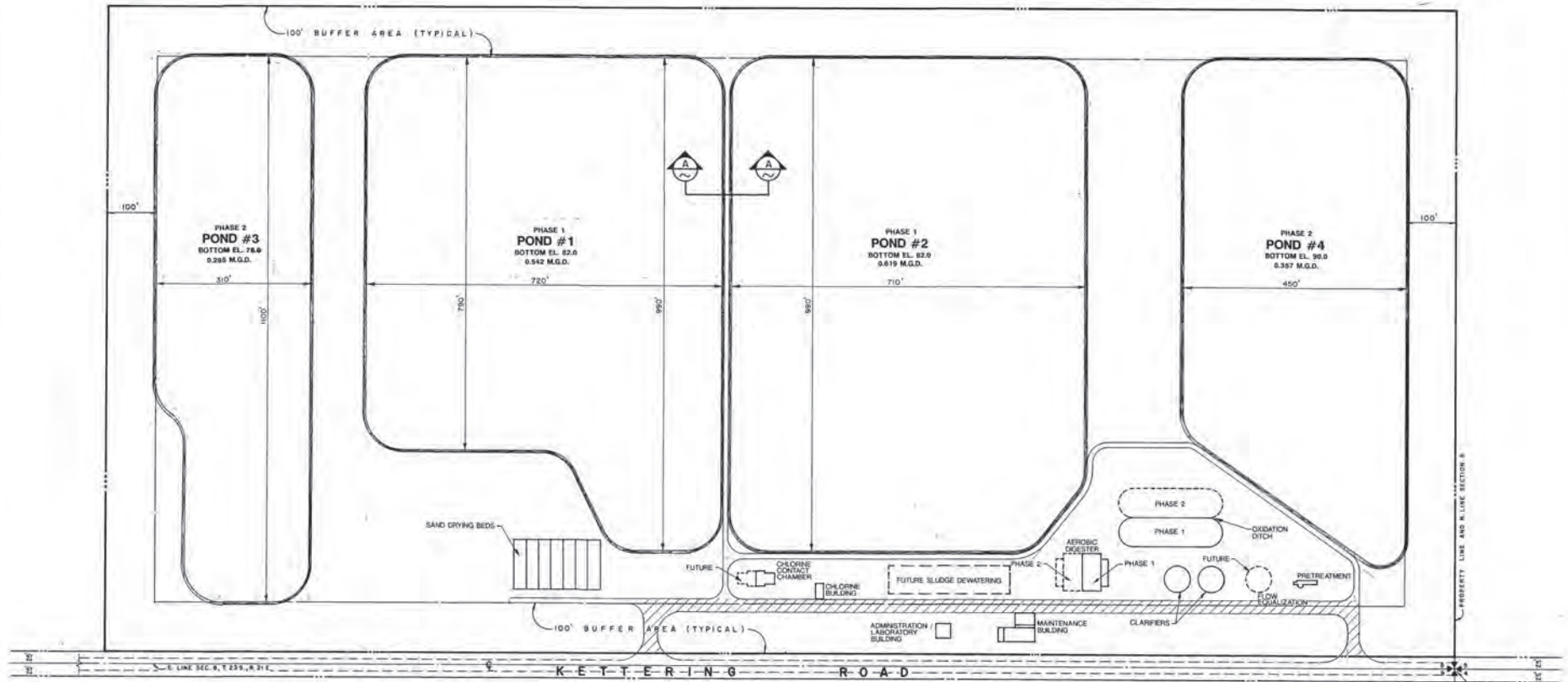
**OVERALL GRADING  
DRAINAGE PLAN**

**RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT**

SHEET  
**1**  
OF 1 SHEETS  
8977 C



SECTION A-A



NOTE: PROPERTY LINES ASSUMED BASED ON PROPERTY CONSISTING OF EBRT 1/2 OF THE NORTH EBRT 1/4 OF SECTION 8 AND THAT SECTION RUNS DOWN MIDDLE OF KEYTERING ROAD.

FIGURE 13

DATE	REV. BY	APPROVED BY	DESCRIPTION

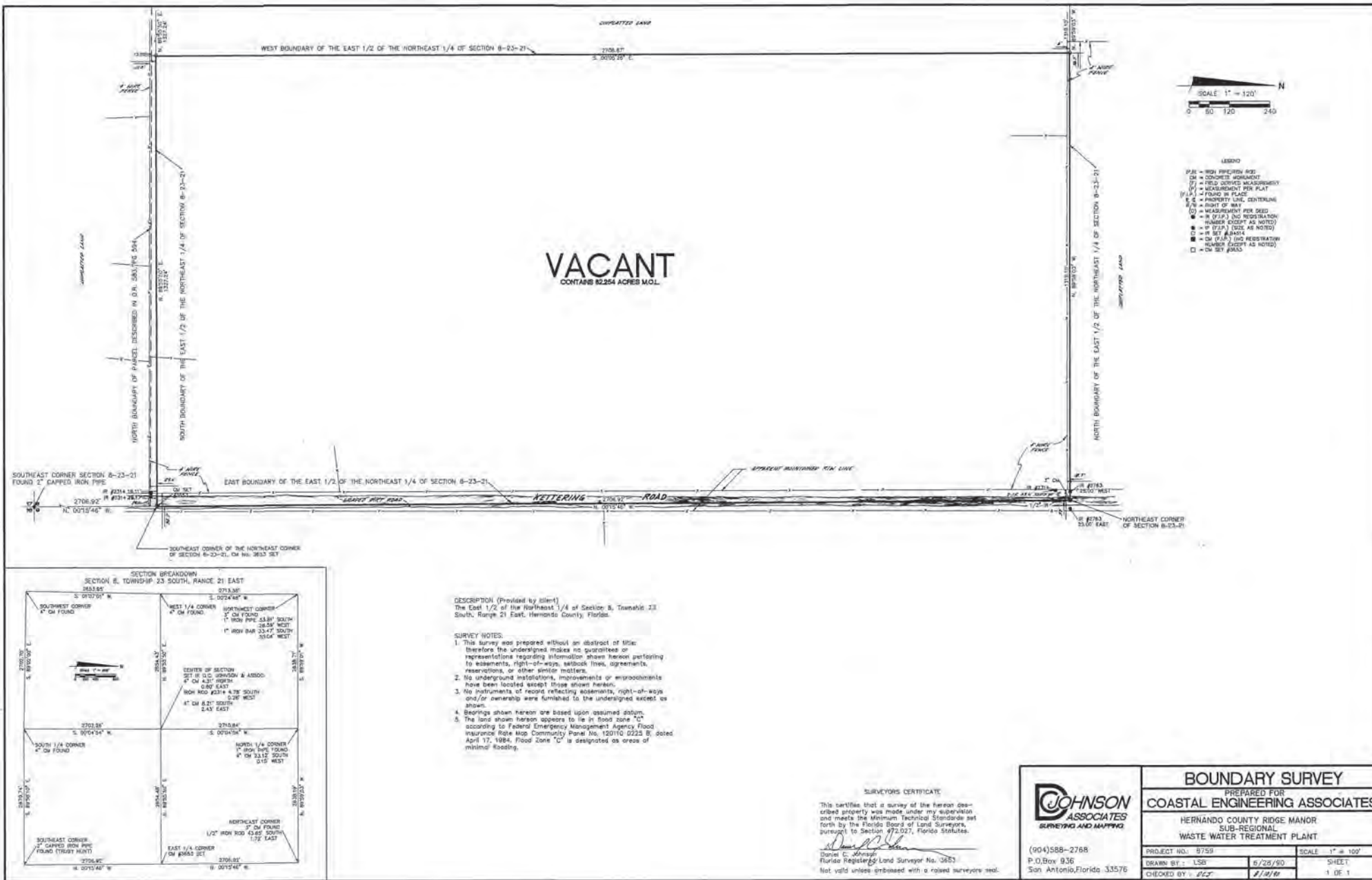
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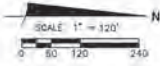
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 BROOKSVILLE, FLORIDA 34601  
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**PRELIMINARY SITE LAYOUT**  
 RIDGE MANOR WEST  
 WASTEWATER TREATMENT PLANT

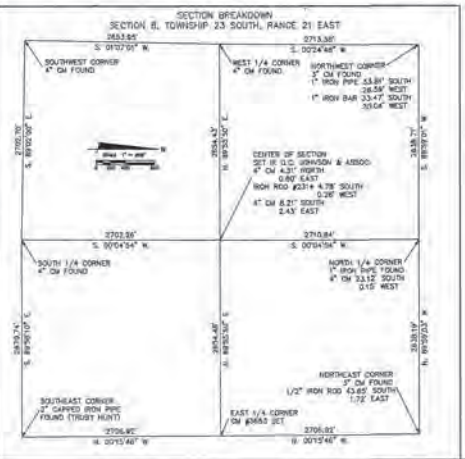
SHEET  
 1  
 OF 1 SHEETS  
 8977



**VACANT**  
CONTAINS 82254 ACRES M.O.L.



- LEGEND**
- = HIGH SPEEDWAY ROADS
  - = CONCRETE HIGHWAY
  - (7) = FIELD SURVEY MEASUREMENT
  - (7) = MEASUREMENT PER PLAT
  - (7) = FOUND IN PLACE
  - (7) = PROPERTY LINE, CENTERLINE
  - = RIGHT OF WAY
  - (7) = MEASUREMENT PER DEED
  - = R.O.W. (R.O.W. REGISTRATION NUMBER EXCEPT AS NOTED)
  - = R.O.W. (R.O.W. REGISTRATION NUMBER EXCEPT AS NOTED)
  - = R.O.W. (R.O.W. REGISTRATION NUMBER EXCEPT AS NOTED)
  - = R.O.W. (R.O.W. REGISTRATION NUMBER EXCEPT AS NOTED)
  - = R.O.W. (R.O.W. REGISTRATION NUMBER EXCEPT AS NOTED)



**DESCRIPTION (Provided by client)**  
The East 1/2 of the Northeast 1/4 of Section 8, Township 23 South, Range 21 East, Hernando County, Florida.

**SURVEY NOTES:**

- This survey was prepared without an abstract of title; therefore the undersigned makes no guarantee or representation regarding information shown hereon pertaining to easements, right-of-ways, setback lines, agreements, reservations, or other similar matters.
- No underground installations, improvements or encroachments have been located except those shown hereon.
- No instruments of record reflecting easements, right-of-ways and/or ownership were furnished to the undersigned except as shown.
- Bearings shown hereon are based upon assumed datum.
- The land shown hereon appears to lie in flood zone "C" according to Federal Emergency Management Agency Flood Insurance Rate Map Community Panel No. 120110 0225 B, dated April 17, 1984. Flood Zone "C" is designated as areas of minimal flooding.

**SURVEYORS CERTIFICATE**

This certifies that a survey of the herein described property was made under my supervision and meets the Minimum Technical Standards set forth by the Florida Board of Land Surveyors, pursuant to Section 472.027, Florida Statutes.

*Daniel C. Johnson*  
Daniel C. Johnson  
Florida Registered Land Surveyor No. 3283  
Not valid unless embossed with a raised surveyor's seal.

	<b>BOUNDARY SURVEY</b>	
	PREPARED FOR <b>COASTAL ENGINEERING ASSOCIATES</b>	
HERNANDO COUNTY RIDGE MANOR SUB-REGIONAL WASTE WATER TREATMENT PLANT		
PROJECT NO.: 8759	SCALE: 1" = 100'	
DRAWN BY: LSB	6/26/90	SHEET
CHECKED BY: JCT	7/1/90	1 OF 1

**LEGEND**

DESCRIPTION	SYMBOL	
	PROPOSED	EXISTING
BASE LINE	N/A	— —
CENTERLINE	N/A	— —
BOUNDARY	N/A	— —
RIGHT-OF-WAY	N/A	— —
PROPERTY LINE	N/A	— —
LOT LINE	N/A	— —
EASEMENT	N/A	— —
STORM SEWER	— —	— —
STORM SEWER MANHOLE	— —	— —
STORM SEWER INLET	— —	— —
MITERED END SECTION	— —	— —
BURIED TELEPHONE	— —	— —
OVERHEAD TELEPHONE	— —	— —
UNDERGROUND ELECTRIC	— —	— —
OVERHEAD ELECTRIC	— —	— —
FIRE HYDRANT ASSEMBLY		
CLEANOUT		
LINK TYPE WALL PENETRATION SEAL		
LIGHT POLE	■	□
UTILITY POLE	×	+
POLE B BUY ANCHOR	— —	— —
OVERHEAD TELEPHONE CABLE	— —	— —
UNDERGROUND TELEPHONE CABLE	— —	— —
CONC. MONUMENT	•	◻
IRON ROD	•	•
BENCH MARK	N/A	◻ B.M.
TEMPORARY BENCH MARK	N/A	◻ T.B.M.
SOIL BORING	N/A	⊕
FENCE	— —	— —

DESCRIPTION	SYMBOL	
	PROPOSED	EXISTING
SWALE	— —	— —
FLOW ARROW	— —	— —
CONTOUR LINE	— —	— —

**PIPE AND FITTING SYMBOLS**

DOUBLE LINE	SINGLE LINE	DESCRIPTION
	— —	NEW PIPE
	— —	EXISTING PIPE
	— —	EXISTING PIPE TO BE ABANDONED
	— —	EXISTING PIPE TO BE REMOVED
	— —	WELDED JOINT
	— —	FLANGED JOINT
	— —	MECHANICAL JOINT
	— —	FLANGE COUPLING ADAPTER
	— —	FLEXIBLE COUPLING
	— —	FLEXIBLE COUPLING WITH THRUST TIES
	— —	ELASTOMER BELLOWS XP JOINT
	— —	ELBOW UP
	— —	ELBOW DOWN
	— —	TEE UP

DOUBLE LINE	SINGLE LINE	DESCRIPTION
	— —	TEE DOWN
	— —	LATERAL DOWN
	— —	LATERAL TEE DOWN
	— —	CONCENTRIC REDUCER
	— —	ECCENTRIC REDUCER
	— —	UNION
	— —	CAP
	— —	ELBOW, 90 DEGREE
	— —	CROSS
	— —	TEE
	— —	ELBOW, 45 DEGREE
	— —	LATERAL

**ACTUATOR SYMBOLS**

	PNEUMATIC W/POSITIONER		HYDRAULIC
	PNEUMATIC W/SOLENOID		MANUAL
	ELECTRIC		SOLENOID
	ELECTRIC W/POSITIONER		

"RECORD DRAWINGS"  
 I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are based upon marked-up plans, drawings and pipe alignment furnished to the Engineer by the Contractor, and show the construction as completed to the best of my knowledge and belief.  
 FIELD ENGINEER: *[Signature]* Date: 06/26/20  
 P. E. No. 364524

DATE	REV.	BY	CHK.	REV.	REVISION

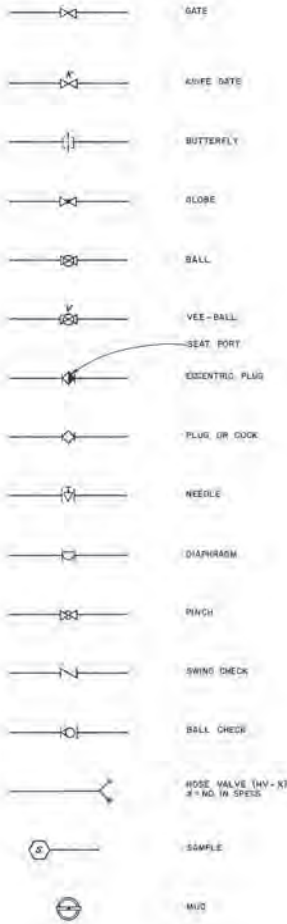
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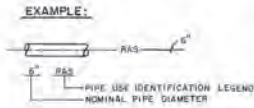
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 DATE: 06/26/20

**LEGENDS**  
 RIDGE MANOR WEST SUBREGIONAL  
 WASTEWATER TREATMENT PLANT

### VALVE SYMBOLS

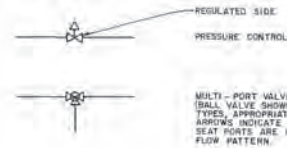
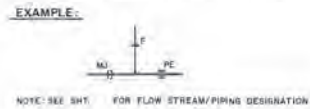


### PIPING DESIGNATION

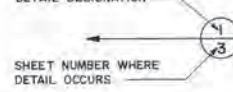
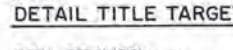
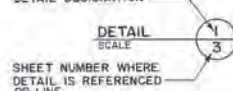
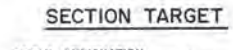
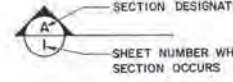
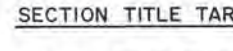
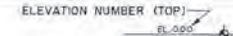
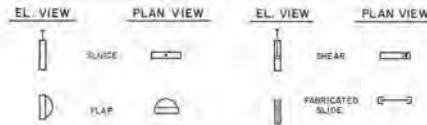


### PIPE AND FITTING END PATTERNS

B	BELL	PE	PLAIN END
S	SPIGOT	GE	GROOVED END
F	FLANGE	MJ	MECHANICAL JOINT

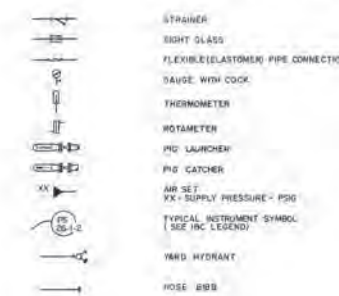


### GATE SYMBOLS



### DETAIL TARGET

### MISCELLANEOUS PIPING SYMBOLS



### MECHANICAL LEGEND AND NOTES

1. SIZE OF FITTINGS SHOWN ON PLANS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE.
2. LAY PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION POINTS.
3. ALL JOINTS SHALL BE WATERTIGHT. STANDARD WALL PIPE DETAIL SHALL BE USED WHEREVER PIPING PASSES FROM A STRUCTURE TO A BACKFILL.
4. ALL BURIED PIPING TO BE PRESSURE TESTED.
5. LOCATION AND NUMBER OF PIPE HANGERS AND PIPE SUPPORTS SHOWN IS ONLY APPROXIMATE. FINAL SUPPORT REQUIREMENTS SHALL BE DETERMINED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
6. NUMBER AND LOCATION OF UNIONS SHOWN ON PLANS IS ONLY APPROXIMATE. PROVIDE UNIONS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND MECHANICAL EQUIPMENT.
7. ALL FLEXIBLE CONNECTIONS OR FLANGED COUPLING ADAPTERS SHALL BE PROVIDED WITH THRUST TIES, BLOCKS, OR ANCHORS, UNLESS OTHERWISE NOTED. THRUST PROTECTION SHALL BE ADEQUATE FOR TEST PRESSURES SPECIFIED.
8. WHERE A GROOVED END COUPLING IS USED, IT SHALL BE THE RIGID JOINT TYPE, UNLESS OTHERWISE SPECIFIED. WHERE A FLANGED COUPLING ADAPTER IS SHOWN A STANDARD FLANGE SHALL BE USED TO JOIN THE COUPLING ADAPTER.

### NOTES:

1. ONLY FLANGED END CONNECTIONS ARE SHOWN HERE FOR DOUBLE LINE FITTINGS. FITTINGS WITH OTHER END PATTERNS ARE SHOWN SIMILARY ON THE CONSTRUCTION DRAWING. ALSO SEE PIPING SPECIFICATIONS.
2. SYMBOLS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS FOR SPECIFIC END CONNECTIONS FOR SINGLE LINE PIPE AND FITTINGS.
3. EXISTING EQUIPMENT IS SHOWN BROKEN DASHED AND IS ALWAYS NOTED EXISTING. NEW PIPING AND EQUIPMENT IS SHOWN HEAVY LINED.

### "RECORD DRAWINGS"

"I hereby certify that these 'Record Drawings' reflect all significant changes and materials approved during the construction process. They are based upon measured top control, drawings and other information furnished to the Engineer by the Contractor, and they are not intended to be construed to the field of any other person or party."  
 FIELD ENGINEER: *[Signature]*  
 P. E. No. 36834

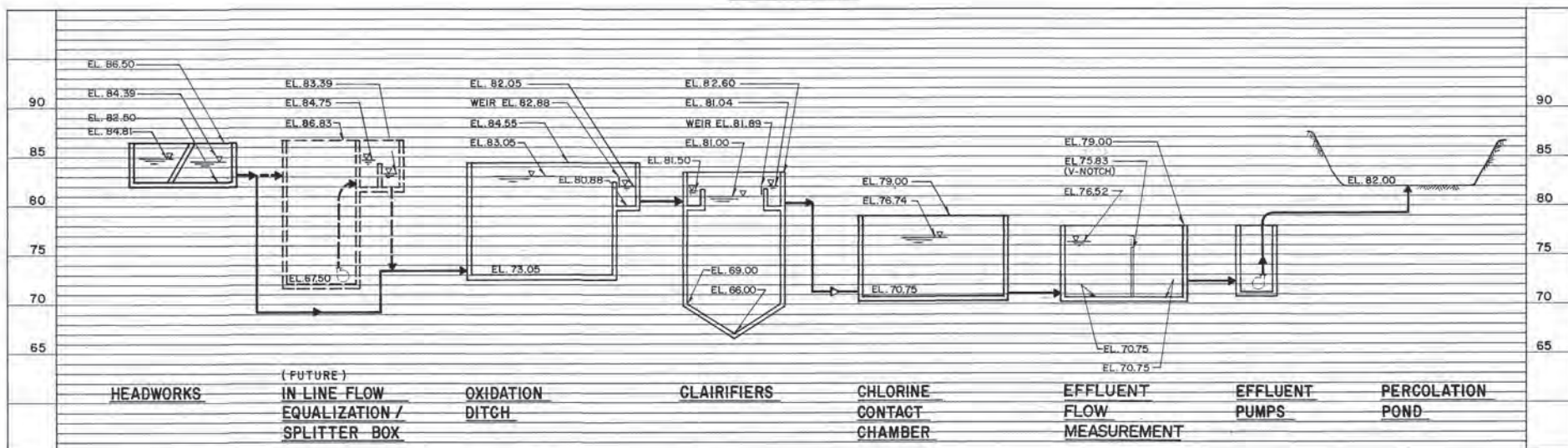
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LEGENDS / NOTES

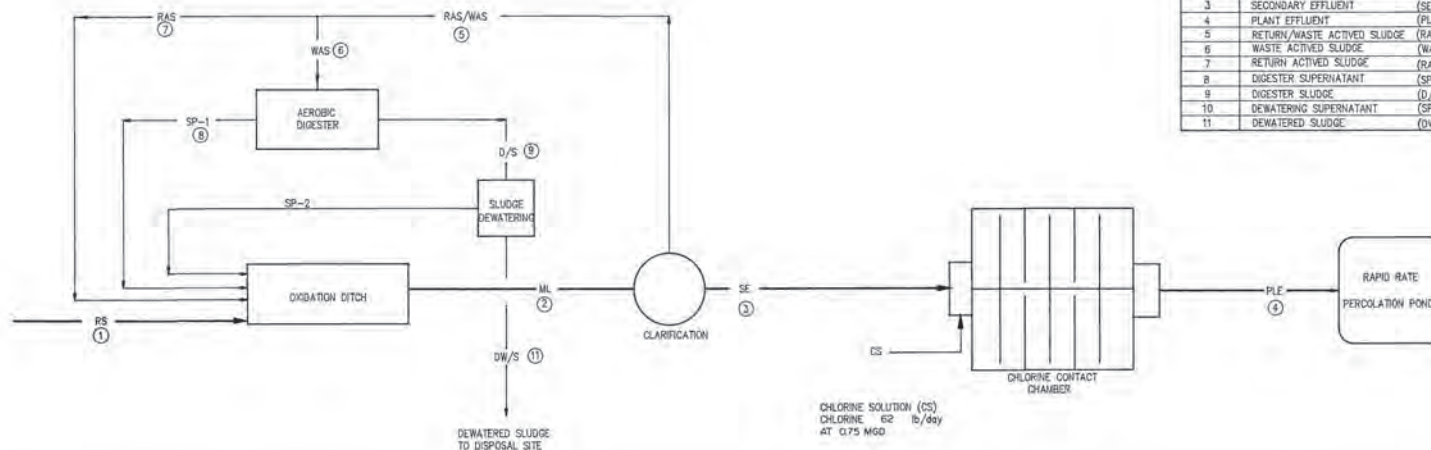
HYDRAULIC PROFILE



HYDRAULIC PROFILE FOR 1.5 M.G.D. PLANT AT PEAK FLOW OF 3.75 M.G.D.

STREAM NO.	IDENTIFICATION	FLOW (GPD)	SOLIDS (LBS/DAY)	MG/L
1	RAW SEWAGE (RS)	150,000	1,564	250
2	MIXED LIQUOR (ML)	1,195,200 G/L	39,000 LBS	3,480
3	SECONDARY EFFLUENT (SE)	760,000	125	20
4	PLANT EFFLUENT (PLE)	760,000	125	20
5	RETURN/WASTE ACTIVATED SLUDGE (RAS/WAS)	388,700	32,420	10,000
6	WASTE ACTIVATED SLUDGE (WAS)	13,700	1,140	10,000
7	RETURN ACTIVATED SLUDGE (RAS)	375,000	31,280	10,000
8	DIGESTER SUPERNATANT (SP-1)	8,400	14	200
9	DIGESTER SLUDGE (DS)	9,300	1,126	25,414
10	DEWATERING SUPERNATANT (DW/S)	4,800	8	200
11	DEWATERED SLUDGE (DW/S)	500	1,115	268,000 or 26.5%

DATA SHOWN FOR 150,000 GPD



CHLORINE SOLUTION (CS)  
CHLORINE 62 lb/day  
AT 0.75 MGD

"RECORD DRAWINGS"

I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are based upon marked-up plans, drawings and other information furnished to the Engineer by the Contractor, and show the proposed construction to the best of my knowledge and belief.

FIELD ENGINEER: [Signature]  
E. E. No. 205834

DATE	REV.	BY	CHK.	REV. NO.	REVISION

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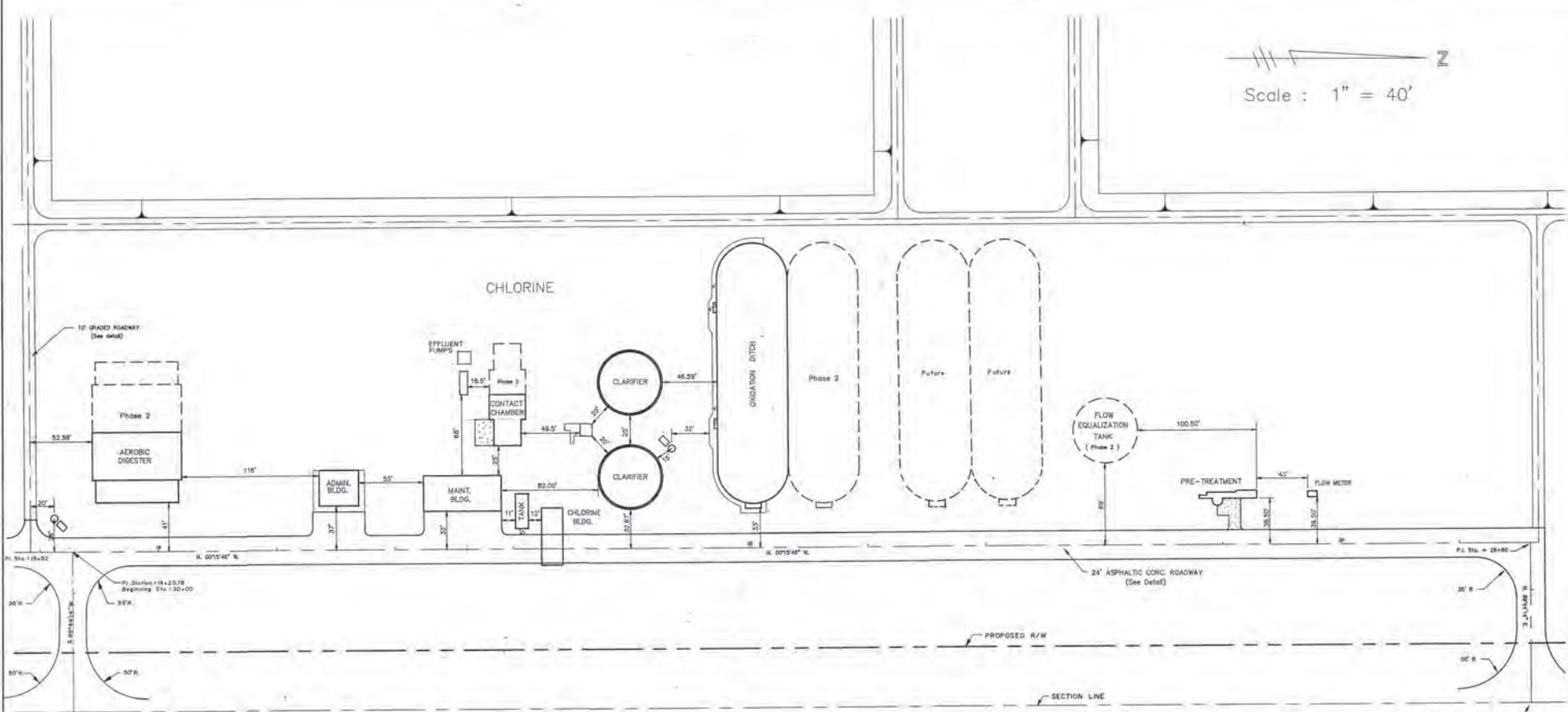


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FLORENCE, SC 29502

**MASS BALANCE / HYDRAULIC PROFILE**  
**RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT**

**SHEET**  
**5**  
OF 108 SHEETS  
8977

Scale : 1" = 40'



K E T T E R I N G R O A D

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 FIELD ENGINEER: \_\_\_\_\_ Date: \_\_\_\_\_  
 P. E. No. 25-624

DATE	REV.	BY	CHK.	P.L.	REV.	REVISION

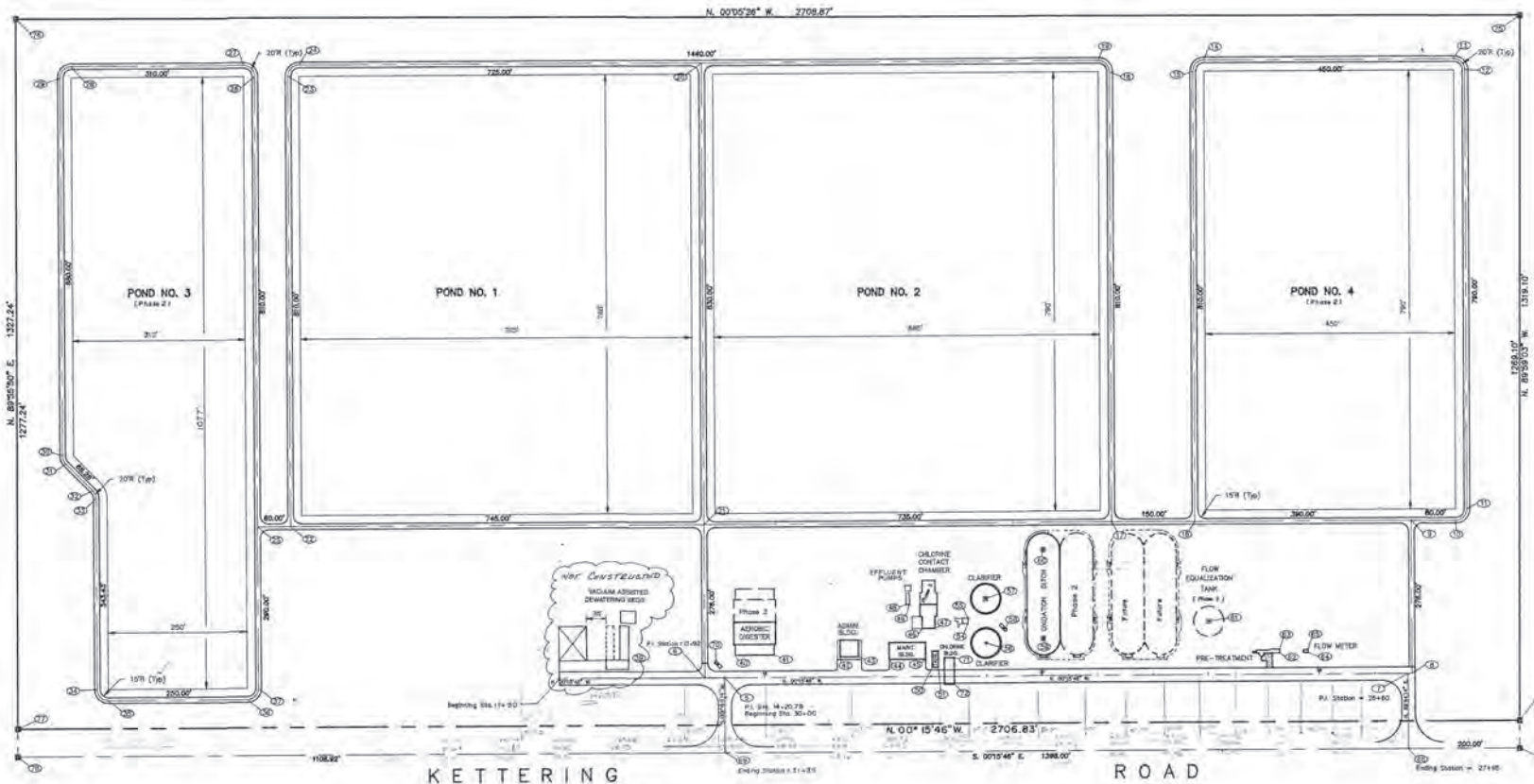
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 BROOKSVILLE, FLORIDA 34601  
 TEL (904) 798-8423 FAX (904) 798-8359

**HORIZONTAL CONTROL**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

SHEET  
**7**  
 OF 108 SHEETS  
 No. 8977



POINT NUMBER	NORTH COORDINATE	EAST COORDINATE
2	8684.4338	15182.0186
3	8684.6281	15220.0192
4	9105.3857	15218.0484
5	9076.6040	15218.2205
7	10344.5906	15212.4021
8	10251.5906	15232.3700
9	10350.3241	14936.3729
10	10430.3233	14936.0058
11	10450.2313	14815.8143
12	10446.8083	14125.9228
13	10426.5147	14108.0146
14	9976.5185	14108.0795
15	9956.6114	14128.1710
16	9960.3282	14936.1825
17	9810.3298	14938.8508
18	9806.6130	14125.8593
19	9786.5215	14108.9513
20	9071.5290	14112.2321
21	9078.5375	14942.2234
22	8320.3454	14940.6419
23	8326.6286	14135.8504
24	8346.5360	14115.5589
25	8270.3480	14945.9172
26	8286.6292	14135.8258
27	8246.5377	14116.0177
28	7936.5409	14117.4402

POINT NUMBER	NORTH COORDINATE	EAST COORDINATE
28	7916.6329	14137.5318
30	7919.7532	14817.5246
31	7925.6738	14831.8387
32	7974.1812	14870.7019
33	7980.1039	14893.8170
34	7981.8788	15337.2448
35	8001.7713	15257.1529
36	8251.7687	15255.0057
37	8271.8767	15255.9142
38	8538.4586	15186.8499
39	9131.7553	15176.9870
40	9201.7546	15176.6456
42	9320.5216	15180.1008
43	9353.8513	15179.9486
44	9408.8736	15184.8955
45	9474.3429	15184.3043
46	9468.5107	15129.4213
47	9491.8105	15126.2159
48	9439.3238	15086.2546
49	9445.8838	15086.5247
50	9486.5575	15189.3392
51	9497.5574	15189.2887
54	9651.3035	15121.3188
55	9651.2562	15119.8886
56	9583.7433	15155.8928

POINT NUMBER	NORTH COORDINATE	EAST COORDINATE
57	9583.3778	15076.2336
58	9618.5535	15131.8079
59	9687.4512	15148.5964
60	9686.7289	14966.5881
61	9685.0741	15117.7208
62	10113.1880	15174.9836
63	10113.1369	15167.9837
64	10184.1529	15173.7297
65	10164.1388	12166.7258
68	10345.2101	15347.4007
69	9106.0032	15353.0970
70	8056.4753	15190.1280
71	9526.4782	15181.9541
72	9526.6983	15229.9536
73	10545.2380	15246.4830
74	10545.2218	15286.4824
75	10545.5720	14027.3870
76	7836.7080	14031.6870
77	7836.4243	15308.9030
78	7836.3160	15308.9040

**"RECORD DRAWINGS"**

I hereby certify that these "Record Drawings" reflect all significant changes which have occurred during the construction process. They are based on the field notes and other data furnished to me by the contractor, and are the best of my knowledge and belief.

FIELD ENGINEER: \_\_\_\_\_  
P. E. No. 25,849

NOTE: ALL CENTERLINE OF ROADWAYS AND/OR BERMS ARE EITHER PARALLEL OR PERPENDICULAR TO THE CENTERLINE OF KETTERING ROAD.

DATE	REV. BY	REV. TO	REV. NO.	REVISION

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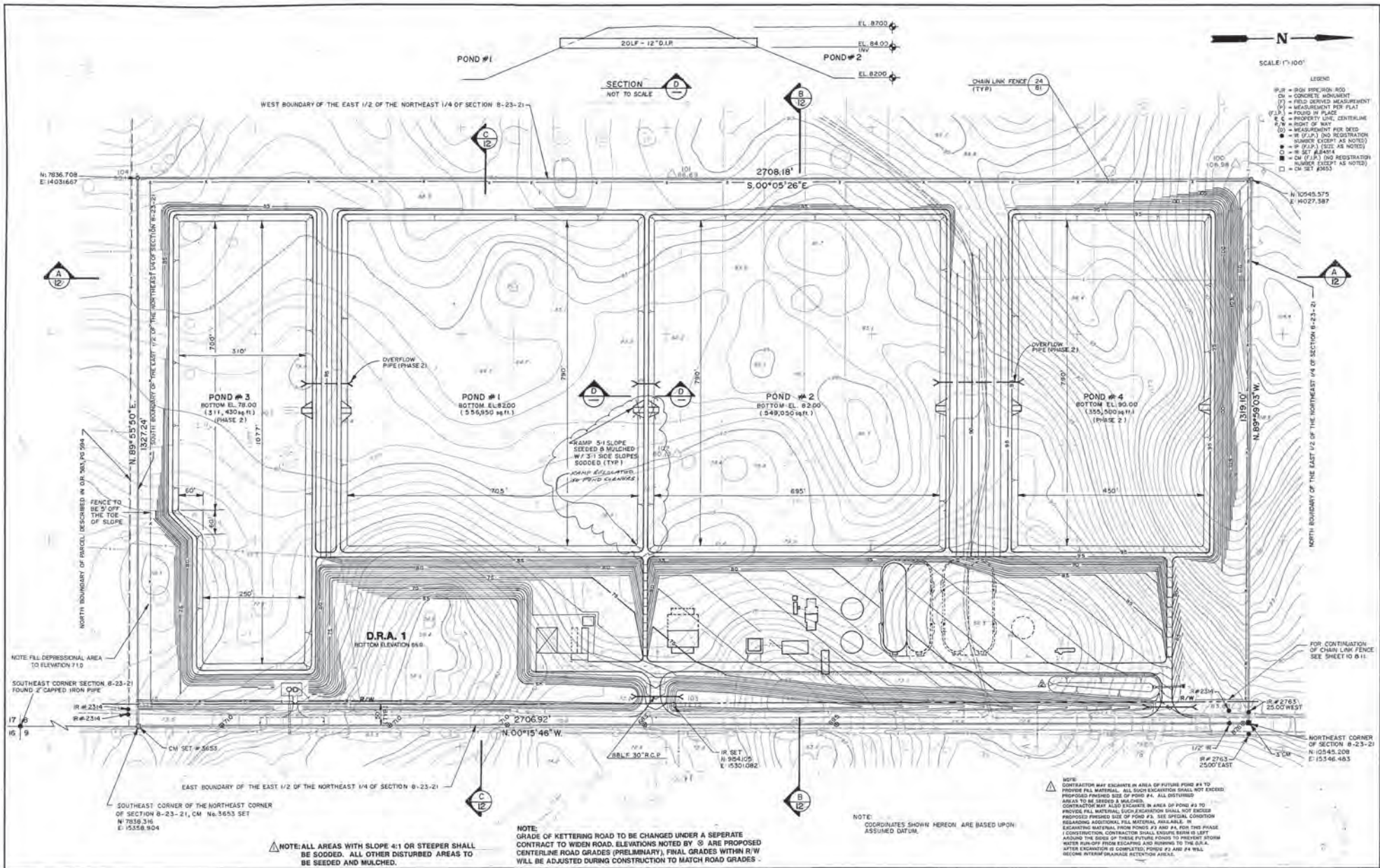
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BROOKSVILLE, FLORIDA 34601  
TEL. (813) 746-9428 FAX (813) 746-9428

OWNER: RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT  
DATE: 12/12/92

**HORIZONTAL CONTROL**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

SHEET  
**8**  
OF 108 SHEETS  
NO. 8977





N  
SCALE 1"=100'

- LEGEND
- IPR = IRON PIPE/IRON ROD
  - CON = CONCRETE MONUMENT
  - TM = FIELD MEASURED MEASUREMENT
  - PL = MEASUREMENT PER PLAN
  - FO = FOUND IN PLACE
  - PLM = POINT OF MEASUREMENT
  - PLC = PROPERTY LINE, CENTERLINE
  - PLW = POINT OF WAY
  - MO = MEASUREMENT FOR DEED
  - W = W (PLM) (SEE AS NOTED)
  - E = E (PLM) (SEE AS NOTED)
  - D = W SET ALONG A
  - W = W (PLM) (SEE AS NOTED)
  - CM = CM (PLM) (SEE AS NOTED)
  - CM SET #3653

NOTE: ALL AREAS WITH SLOPE 4:1 OR STEEPER SHALL BE SOODED. ALL OTHER DISTURBED AREAS TO BE SEEDD AND MULCHED.

NOTE: GRADE OF KETTERING ROAD TO BE CHANGED UNDER A SEPARATE CONTRACT TO WIDER ROAD. ELEVATIONS NOTED BY @ ARE PROPOSED CENTERLINE ROAD GRADES (PRELIMINARY). FINAL GRADES WITHIN R/W WILL BE ADJUSTED DURING CONSTRUCTION TO MATCH ROAD GRADES.

NOTE: COORDINATES SHOWN HEREON ARE BASED UPON ASSUMED DATUM.

NOTE: CONTRACTOR MAY EXCAVATE IN AREA OF FUTURE POND #1 TO PROVIDE FILL MATERIAL. ALL SUCH EXCAVATION SHALL NOT EXCEED PROPOSED FINISHED SIZE OF POND #1. ALL DISTURBED AREAS TO BE SEEDD & MULCHED. CONTRACTOR MAY ALSO EXCAVATE IN AREA OF POND #3 TO PROVIDE FILL MATERIAL. SUCH EXCAVATION SHALL NOT EXCEED PROPOSED FINISHED SIZE OF POND #3. SEE SPECIAL CONDITIONS REGARDING ADDITIONAL FILL MATERIAL AVAILABLE. EXCAVATING MATERIAL FROM PONDS #3 AND #4 FOR THIS PHASE I CONSTRUCTION. CONTRACTOR SHALL REMOVE SOIL 18\"/>

DATE	REV. BY	REV. NO.	REV. DATE	REVISION
7-9-91	B.A.W.	G.E.H.	16948	ADDENDUM NO. 1
5-16-91	B.A.W.	G.E.H.	16948	ADDED D.R.A. TO W.R.E.G. SUB-BASIN
7-20-92	L.M.F.			AS-BUILT DRAWING

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FIELD ENGINEER: [Signature]  
DATE: 3/6/92

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BROOKSVILLE, FLORIDA 34601  
TEL. (813) 748-8423, FAX (813) 798-8338  
OWNER: M.R.G. ENGINEER: M.R.G. DESIGNER: G.E.H. DATE: 8/15/92

**OVERALL GRADING & PLANTING PLAN**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

SHEET  
**9**  
OF 108 SHEETS  
9877

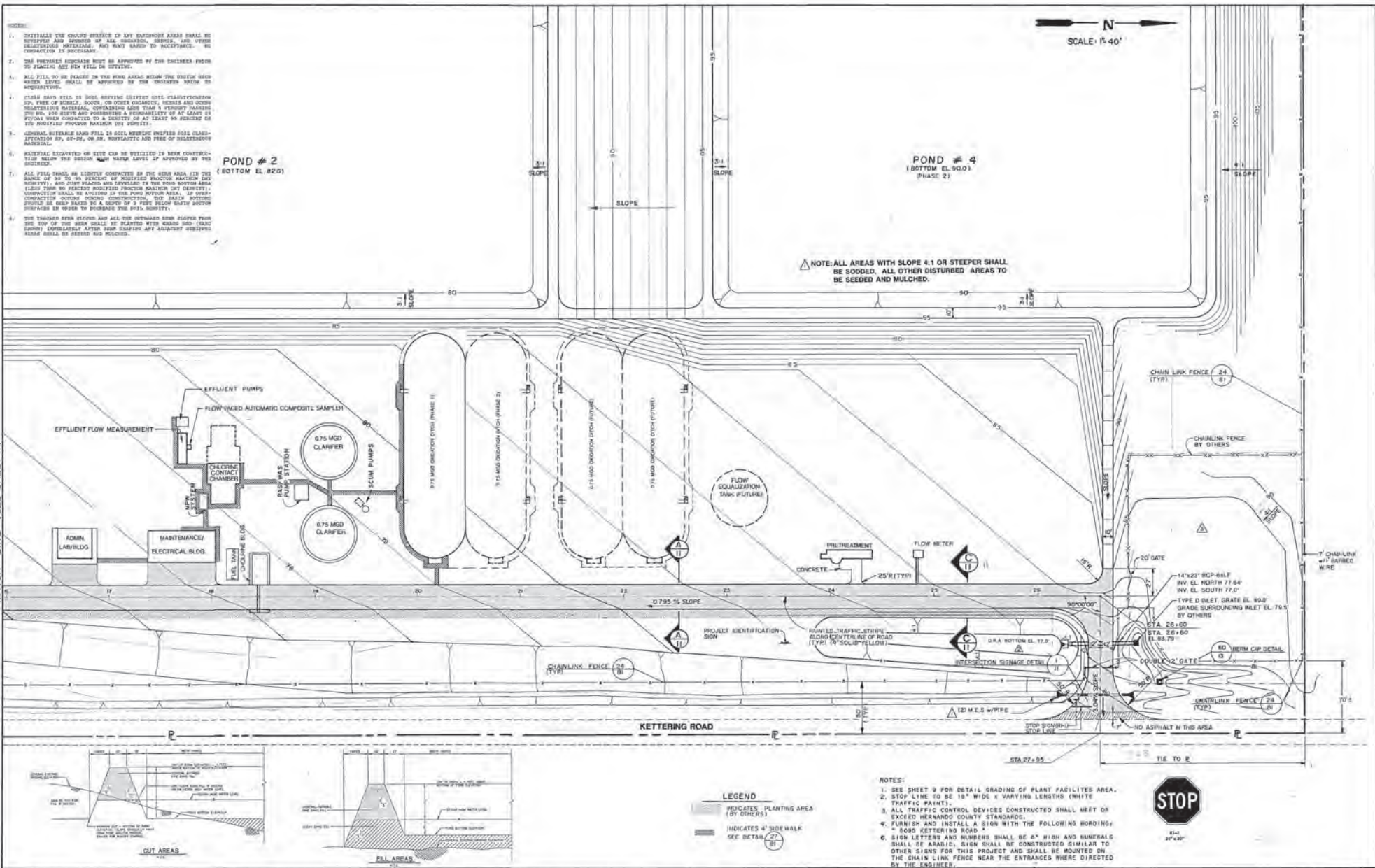
- NOTES:
- EXISTING THE GROUND SURFACE OF ANY EXISTING AREA SHALL BE REVEALED AND GRADED AT ALL LOCATIONS, BENCH, AND OTHER DISTURBED MATERIALS, AND MUST BEAD TO ACCEPTANCE. NO CONSTRUCTION IS PERMITTED.
  - THE PROPOSED SLOPES MUST BE APPROVED BY THE ENGINEER PRIOR TO PLACING AND FOR FILL OR CUTTING.
  - ALL FILL TO BE PLACED IN THE WORK AREAS BELOW THE DESIGN HIGH WATER LEVEL SHALL BE APPROVED BY THE ENGINEER PRIOR TO ACQUISITION.
  - CLAY SAND FILL IS SOIL BEING IDENTIFIED SOIL CLASSIFICATION OF FINE SAND, SAND OR OTHER COMBINATION, GRADES AND OTHER RELATIONSHIP MATERIAL, CONTAINING LESS THAN 5 PERCENT FINING, THE SOIL AND MUST BE SUBMITTED A FURNISHMENT OF AT LEAST 15 POUNDS PER CUBIC YARD TO A DENSITY OF AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.
  - GENERAL SUITABLE SAND FILL IS SOIL BEING IDENTIFIED SOIL CLASSIFICATION OF SP-10, OR SP, NONPLASTIC AND FREE OF HAZARDOUS MATERIAL.
  - MATERIAL EXCAVATED ON SITE CAN BE UTILIZED IN NEW CONSTRUCTION BELOW THE DESIGN HIGH WATER LEVEL IF APPROVED BY THE ENGINEER.
  - ALL FILL SHALL BE LIGHTLY COMPACTED IN THE WORK AREA (IN THE RANGE OF 30 TO 50 PERCENT OF MODIFIED PROCTOR MAXIMUM DRY DENSITY), AND JOHN PLACES AND COMPACTED IN THE WORK AREA (LESS THAN 50 PERCENT MODIFIED PROCTOR MAXIMUM DRY DENSITY), CONSTRUCTION SHALL BE STOPPED IN THE WORK AREA, IF PRE-CONSTRUCTION QUOTE DURING CONSTRUCTION, THE DAILY MOTORS SHOULD BE USED TO A DEPTH OF 3 FEET BELOW EACH BOTTOM SURFACE IN ORDER TO DENSIFY THE SOIL SURFACE.
  - THE TRENCHES MUST BEING AND ALL THE MATERIALS MUST BEING FROM THE TOP OF THE AREA SHALL BE PLANTED WITH GRASS SEED (HARD SEEDS) COVERED BY AFTER BEING PLANTED ANY ADDITIONAL SEEDING AREAS SHALL BE SEEDS AND MULCH.

POND # 2  
(BOTTOM EL. 82.0)

POND # 4  
(BOTTOM EL. 90.0)  
(PHASE 2)

NOTE: ALL AREAS WITH SLOPE 4:1 OR STEEPER SHALL BE SODED. ALL OTHER DISTURBED AREAS TO BE SEEDS AND MULCH.

MATCH LINE (SEE SHEET II)



- LEGEND**
- INDICATES PLANTING AREA (BY OTHERS)
  - INDICATES 4' SIDEWALK (SEE DETAIL 27)

- NOTES:**
- SEE SHEET 9 FOR DETAIL GRADING OF PLANT FACILITIES AREA.
  - STOP LINE TO BE 18" WIDE & VARYING LENGTHS (WHITE TRAFFIC PAINT).
  - ALL TRAFFIC CONTROL DEVICES CONSTRUCTED SHALL MEET OR EXCEED HERNANDO COUNTY STANDARDS.
  - FURNISH AND INSTALL A SIGN WITH THE FOLLOWING WORDING: "ROAD KETTERING ROAD"
  - SIGN LETTERS AND NUMBERS SHALL BE 8" HIGH AND NUMERALS SHALL BE ARABIC. SIGN SHALL BE CONSTRUCTED SIMILAR TO OTHER SIGNS FOR THIS PROJECT AND SHALL BE MOUNTED ON THE CHAIN LINK FENCE NEAR THE ENTRANCES WHERE DIRECTED BY THE ENGINEER.

DATE	REV.	APP.	BY	REV.	NO.	REVISION
7-9-91	BAW	GEH	16948	Δ	1	ADDENDUM NO. 1
2-16-92	BAW	GEH	16948	Δ	2	ADDED D.A. TO W.R.E.C. SUB-BASIN
11-18-91	BAW	GEH	16948	Δ	3	REVISED FENCE & ADDED W.R.C. GRADING

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FIELD ENGINEER: [Signature] S.E.P.  
R.E.C. 35534

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TEL. (813) 798-9423 FAX (813) 798-8359  
OWNER: GEH DRAWN BY: H.R.U. CHECKED BY: G.E.H. DATE: 8/16/92

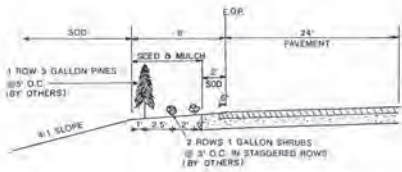
**GRADING & PLANTING PLAN**  
RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

SHEET  
**10**  
OF 108 SHEETS  
8977

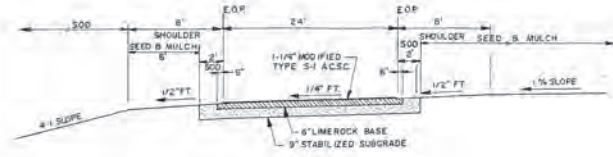
(BY OTHER)  
SUGGESTED PLANTING LIST

Commercially available native species which are appropriate for site soils include the following:

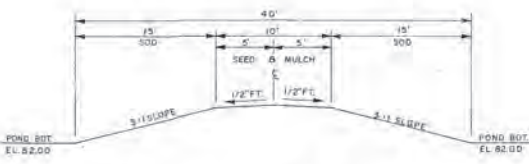
- Pine Trees**  
 Sand pine (*Pinus clausa*)  
 Slash pine (*Pinus elliotii*)  
 Longleaf pine (*Pinus palustris*)
- Shrubs**  
 Chickasaw Plum (*Prunus domestica*)  
 American Beautyberry (*Callicarpa americana*)  
 Winged Sumac (*Rhus copallina*)  
 Cherry Laurel (*Laurus caroliniana*)  
 Chapman Oak (*Quercus chapmani*)  
 Myrtle Oak (*Quercus myrtifolia*)  
 Sand Live Oak (*Quercus sandrae*)  
 Rusty Lyonia (*Lyonia ferruginea*)  
 Wax Myrtle (*Myrica caroliniana*)



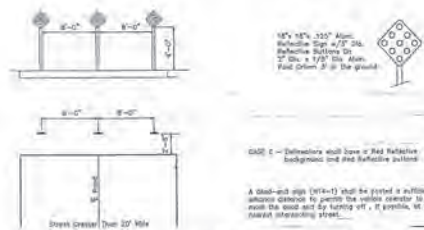
SECTION C  
N.T.S.



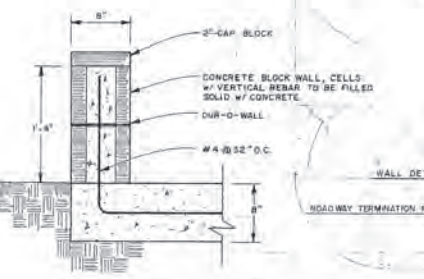
SECTION A  
N.T.S.



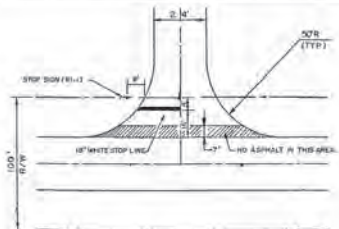
SECTION B  
N.T.S.



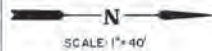
ROADWAY TERMINATION MARKERS  
NOT TO SCALE



WALL DETAIL  
NOT TO SCALE



INTERSECTION SIGNAGE DETAIL  
NOT TO SCALE



SCALE: 1"=40'

NOTE: ALL AREAS WITH SLOPE 4:1 OR STEEPER SHALL BE SODDED. ALL OTHER DISTURBED AREAS TO BE SEEDED AND MULCHED.

- LEGEND**
- INDICATES PLANTING AREA (BY OTHER)
  - INDICATES 4\"/>

- NOTES**
- SEE SHEET 9 FOR DETAIL GRADING OF PLANT FACILITIES AREA.
  - STOP LINE TO BE 10\"/>



DATE	REV.	BY	FOR	REVISION
7-9-01	BAW	GEH	16948	ADDENDUM NO. 1
8-29-01	BAW			REVISION

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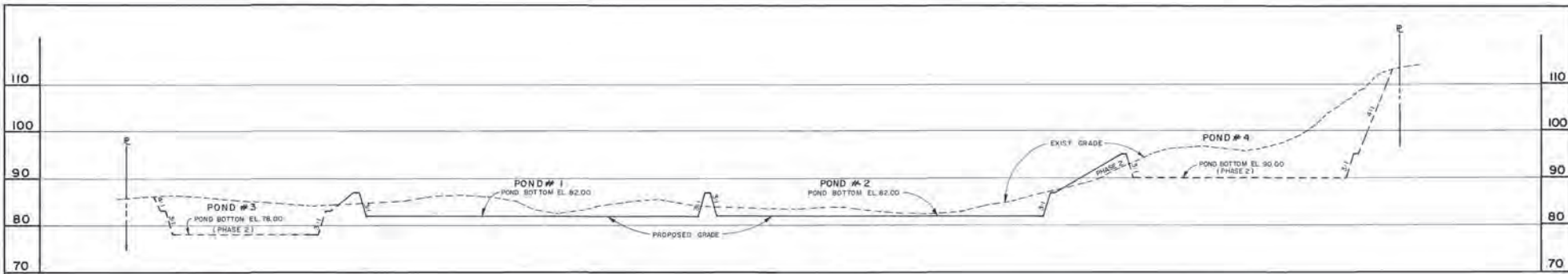
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 BROOKSVILLE, FLORIDA 34601  
 TEL (813) 799-9423 FAX (813) 799-8399  
 E-MAIL: C.E.A. @ TEL. NET

DATE: 7-9-01  
 DRAWN BY: BAW  
 CHECKED BY: GEH  
 IN CHARGE: GEH

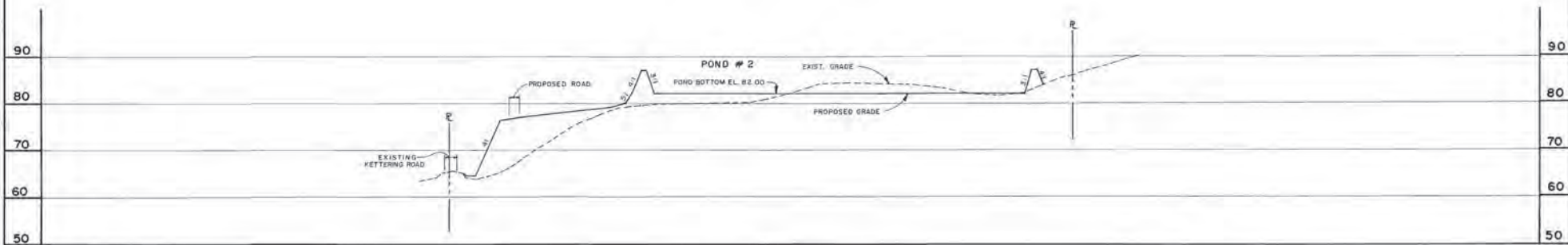
**GRADING & PLANTING PLAN**

RIDGE MANOR WEST SUBREGIONAL  
 WASTEWATER TREATMENT PLANT

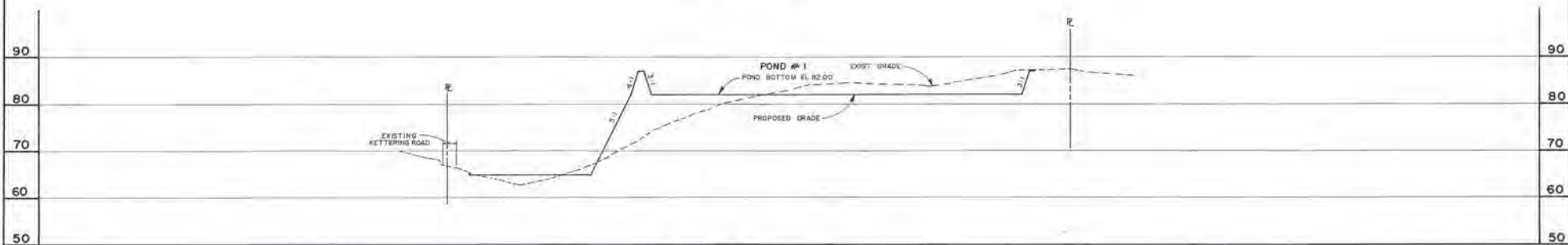
SHEET  
**11**  
 OF 108 SHEETS  
 8977



**SECTION A**  
SCALE: HORIZ. 1" = 100'  
VERT. 1" = 10'



**SECTION B**  
SCALE: HORIZ. 1" = 100'  
VERT. 1" = 10'



**SECTION C**  
SCALE: HORIZ. 1" = 100'  
VERT. 1" = 10'

DATE	REV. BY	APP. BY	REV. No.	REV. No.	REVISION

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FIELD ENGINEER: [Signature]  
DATE: 08/07/90



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TEL. (804) 798-9428 FAX (804) 798-8588  
FEDERAL REGISTERED PROFESSIONAL ENGINEERS

DATE PLOTTED: 08/07/90  
PLOTTER: HP 4000

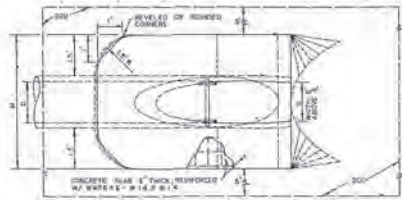
**GRADING PLAN  
CROSS SECTIONS**  
RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

SHEET  
**12**  
OF 108 SHEETS  
8977

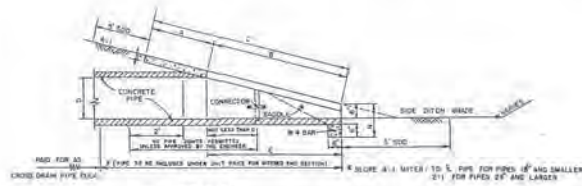
## CONCRETE PIPE

DIMENSIONS AND QUANTITIES											
D	X	A	B	C	E	F	G	M		N	
								SINGLE PIPE	DOUBLE PIPE		
15"	2'-7"	2.27'	4.09'	6.36'	4.03'	8"	1.22'	4.63'	7.21'	1.19'	
18"	2'-10"	2.36'	5.12'	7.49'	5.03'	9"	1.41'	4.92'	7.75'	1.21'	
24"	3'-5"	2.55'	7.10'	9.71'	7.03'	11"	1.73'	5.50'	8.92'	1.28'	
30"	4'-3"	2.70'	9.25'	11.95'	9.03'	13"	2.00'	6.08'	10.35'	1.38'	
36"	5'-1"	2.87'	11.31'	14.18'	11.03'	15"	2.24'	6.67'	11.75'	1.53'	
42"	6'-0"	3.05'	13.37'	16.42'	13.03'	17"	2.45'	7.25'	13.25'	1.68'	
48"	6'-9"	3.22'	15.43'	18.65'	15.03'	19"	2.63'	7.83'	14.86'	1.82'	
54"	7'-8"	3.39'	17.49'	20.89'	17.03'	21"	2.83'	8.42'	16.08'	1.94'	
60"	8'-8"	3.56'	19.55'	23.11'	19.03'	23"	3.00'	9.00'	17.50'	2.10'	
66"	9'-2"	3.73'	21.62'	24.35'	21.03'	25"	3.18'	9.58'	18.75'	2.14'	
72"	10'-0"	3.91'	22.68'	26.59'	23.03'	27"	3.30'	10.16'	20.16'	2.18'	
12"	2'-10"	2.36'	3.06'	5.42'	3.03'	5"	1.50'	4.92'	7.75'	1.21'	
14"	2'-4"	2.44'	3.75'	6.19'	3.70'	6"	1.90'	5.38'	8.71'	1.23'	
19"	3'-0"	2.62'	5.47'	8.05'	5.36'	8"	2.37'	6.04'	10.04'	1.27'	
24"	3'-8"	2.79'	7.18'	9.97'	7.03'	10"	2.85'	6.79'	11.79'	1.31'	
29"	4'-5"	3.05'	8.90'	11.95'	8.70'	12"	3.19'	7.50'	13.42'	1.38'	
34"	5'-3"	3.22'	10.62'	13.84'	10.36'	13"	3.37'	8.25'	15.23'	1.42'	
38"	6'-0"	3.39'	11.39'	15.38'	11.70'	15"	3.55'	8.92'	16.75'	1.48'	
43"	6'-8"	3.56'	13.71'	17.27'	13.26'	17"	4.28'	9.67'	18.58'	1.50'	
48"	7'-6"	3.73'	15.43'	19.16'	15.03'	19"	4.59'	10.42'	20.33'	1.54'	
53"	8'-4"	3.91'	17.15'	21.06'	16.70'	20"	4.77'	11.08'	21.75'	1.58'	
58"	9'-1"	4.08'	18.87'	22.95'	18.36'	22"	5.01'	11.83'	23.50'	1.63'	

4:1 SLOPE

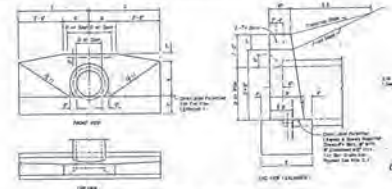


**TOP VIEW - SINGLE PIPE**

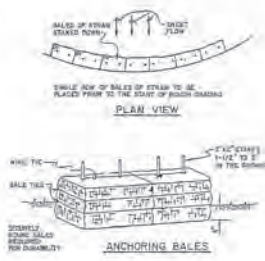


**SECTION**

CONCRETE EXTERNAL PIPE											
Pipe Size	Spacing 20' Pipe	Spacing 30' Pipe	Spacing 40' Pipe	Spacing 50' Pipe	Spacing 60' Pipe	Spacing 70' Pipe	Spacing 80' Pipe	Spacing 90' Pipe	Spacing 100' Pipe	Class I Concrete 10' T	
										Number of Pipe and Size	Area of Pipe
12"	12'	12'	12'	12'	12'	12'	12'	12'	12'	12'	12'
14"	14'	14'	14'	14'	14'	14'	14'	14'	14'	14'	14'
18"	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'	18'
24"	24'	24'	24'	24'	24'	24'	24'	24'	24'	24'	24'
30"	30'	30'	30'	30'	30'	30'	30'	30'	30'	30'	30'
36"	36'	36'	36'	36'	36'	36'	36'	36'	36'	36'	36'
42"	42'	42'	42'	42'	42'	42'	42'	42'	42'	42'	42'
48"	48'	48'	48'	48'	48'	48'	48'	48'	48'	48'	48'
54"	54'	54'	54'	54'	54'	54'	54'	54'	54'	54'	54'
60"	60'	60'	60'	60'	60'	60'	60'	60'	60'	60'	60'
66"	66'	66'	66'	66'	66'	66'	66'	66'	66'	66'	66'
72"	72'	72'	72'	72'	72'	72'	72'	72'	72'	72'	72'

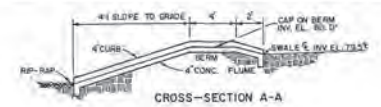


**ENDWALL DIMENSIONS (EXCLUSIVE OF MULTIPLE PIPE SPACING)**

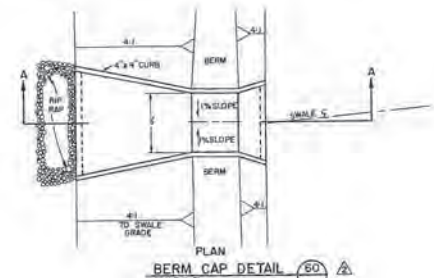


**TEMPORARY STRAW BALE SEDIMENT BARRIER**

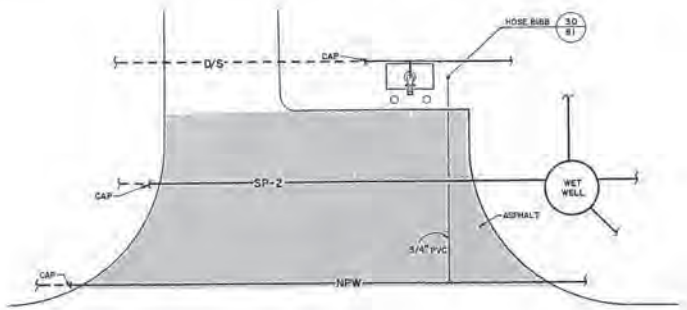
1. ALL SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED TO MEET FIELD CONDITIONS BY THE TIME OF FIELD PRODUCTION AND SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
2. ALL TEMPORARY BARRIERS AND DIVERSIONS ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE REMOVED IMMEDIATELY UPON COMPLETION OF THE WORK.
3. CONSTRUCTION BARRIERS, DIVERS, ETC. SHALL BE CONSTRUCTED BY SPECIAL ORDER WITH CONSTRUCTION EQUIPMENT (UNLESS OTHERWISE SPECIFIED) OR OTHER SPECIAL EQUIPMENT, AS BY USE OF A SEDIMENT BARRIER.
4. ALL SEDIMENT BARRIERS AND ALL DIVERSIONS, AS NOTED, SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
5. CONTRACTOR SHALL FURNISH WITH SECTION 104.1, SEDIMENTATION, CURVELOAD AND MAINTENANCE DURING CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENTATION CURVELOAD THROUGHOUT THE LIFE OF THE PROJECT.
6. SEDIMENTATION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
7. SEDIMENTATION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
8. OPERATION AND MAINTENANCE OF SEDIMENT BARRIERS SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
9. THE SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED ON A CONTINUING BASIS UNTIL THE SEDIMENTATION CURVELOAD AND OTHER SEDIMENTATION MEASURES ARE COMPLETED AND THE PIPE IS DEMONSTRATED STABLE.



**CROSS-SECTION A-A**



**BERM CAP DETAIL**



**SITE PLAN**

NOT TO SCALE

**SECTION A-A**

**WAS PUMP OUT CONNECTION**

NOT TO SCALE

DATE	REV.	BY	CHK.	REV.	DESCRIPTION
11/2/92	B.A.W.	G.E.H.	16948	Δ	ADDED WAS PUMP OUT CONNECTION DETAIL
11/2/92	B.A.W.	G.E.H.	16948	Δ	ADDED BERM CAP DETAIL

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COASTAL ENGINEERING ASSOCIATES, INC.  
"RECORD DRAWINGS"  
I hereby certify that the above "RECORD DRAWINGS" were prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer in the State of Florida. I am the author of the design and the drawings shown hereon and I am not aware of any other person who has prepared or caused to be prepared any part of the design or drawings shown hereon.

FIELD ENGINEER: *[Signature]*  
DATE: 11/2/92



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BROOKSVILLE, FLORIDA 34601  
TEL (904) 788-8423 FAX (904) 788-8339

**DRAINAGE DETAILS**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

SHEET  
**13**  
OF 108 SHEETS  
8977

N  
SCALE: 1" = 40'

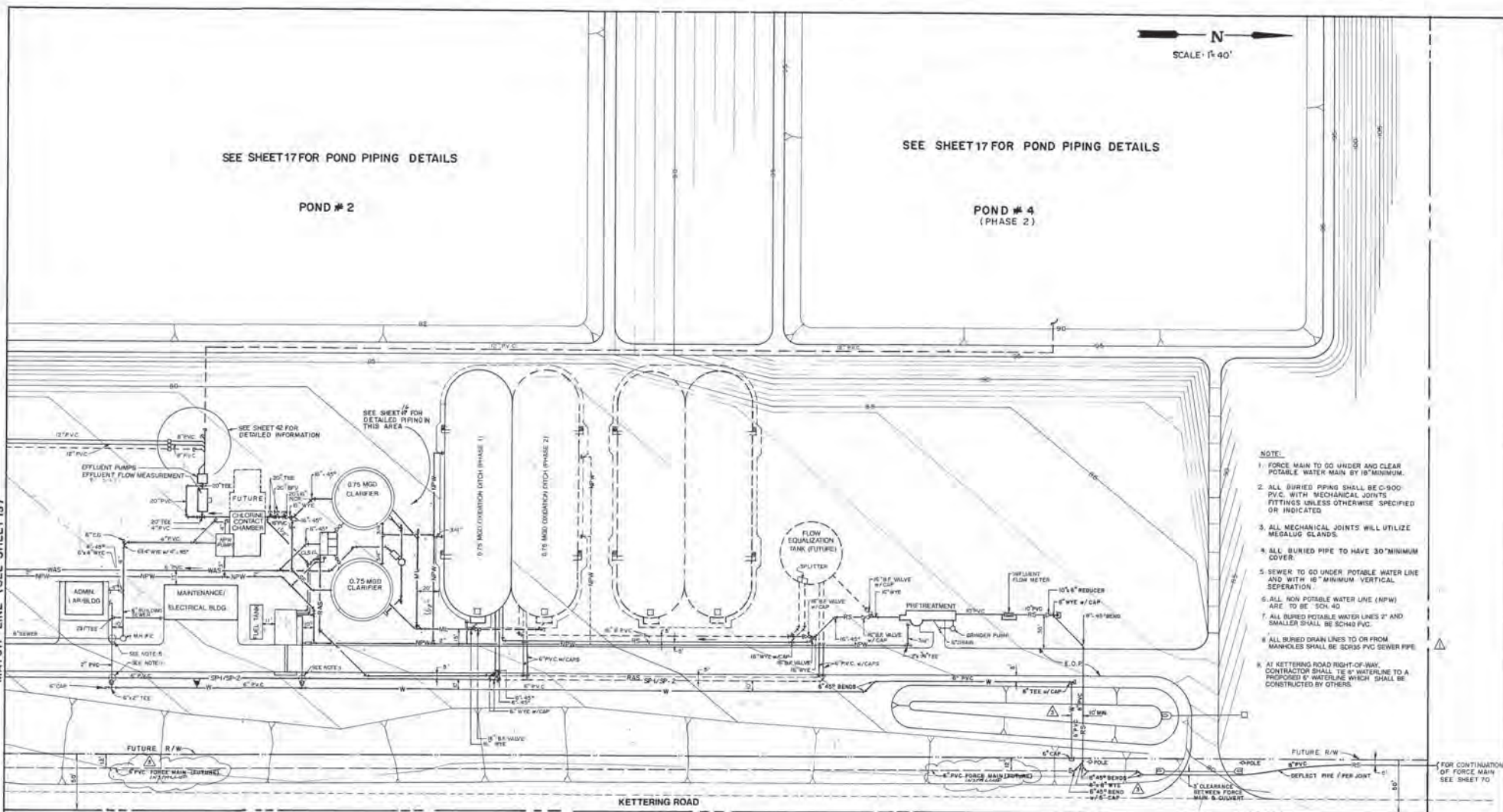
SEE SHEET 17 FOR POND PIPING DETAILS

SEE SHEET 17 FOR POND PIPING DETAILS

POND # 2

POND # 4  
(PHASE 2)

MATCH LINE (SEE SHEET 15)



- NOTE:
1. FORCE MAIN TO GO UNDER AND CLEAR POTABLE WATER MAIN BY 18" MINIMUM.
  2. ALL BURIED PIPING SHALL BE C-900 PVC WITH MECHANICAL JOINTS FITTINGS UNLESS OTHERWISE SPECIFIED OR INDICATED.
  3. ALL MECHANICAL JOINTS WILL UTILIZE MEGALUG CLAMPS.
  4. ALL BURIED PIPE TO HAVE 30" MINIMUM COVER.
  5. SEWER TO GO UNDER POTABLE WATER LINE AND WITH 18" MINIMUM VERTICAL SEPARATION.
  6. ALL NON POTABLE WATER LINE (NPW) ARE TO BE 150# 40.
  7. ALL BURIED POTABLE WATER LINES 2" AND SMALLER SHALL BE SCH 40.
  8. ALL BURIED DRAIN LINES TO OR FROM MANHOLES SHALL BE 3000 PSI PVC SEWER PIPE.
  9. AT KETTERING ROAD RIGHT-OF-WAY, CONTRACTOR SHALL TIE IN WATERLINE TO A PROPOSED 6" WATERLINE WHICH SHALL BE CONSTRUCTED BY OTHERS.

NOTE: SEE SHEET 16 FOR AS-BUILT PIPING

Classification: On the Notes, item 3, all mechanical joint fittings within the WWP site shall have the required restraining glands. No thrust blocks will be used within the WWP site. This note does not apply to the offsite force main.

LEGEND

— RS —	RAW SEWAGE	— SP-1 —	DIGESTION SUPERNATANT
— ML —	MIXED LIQUOR	— SP-2 —	DEWATERING SUPERNATANT
— SE —	SECONDARY EFFLUENT	— W —	POTABLE WATER
— PLE —	PLANT EFFLUENT	— NPW —	NON POTABLE WATER
— RAS —	RETURN ACTIVATED SLUDGE	— CLS —	CHLORINE SOLUTION
— WAS —	WASTE ACTIVATED SLUDGE		
— D/S —	DIGESTION SLUDGE		

LIFT STATIONS & FORCE MAIN ONLY  
COASTAL ENGINEERING ASSOCIATES' INC.  
"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all modifications and additions approved during the construction process. They are based upon marked-up prints, sketches and other information furnished to the Engineer by the Contractor, and show the correct construction to the best of my knowledge and belief.  
FIELD ENGINEER: [Signature]  
P.E. No. 36634

DATE	REV. BY	APP. BY	REV. NO.	REVISION
7-29-91	B.A.W.	G.E.H.	16948	ADDENDUM NO. 1
7-10-91	B.A.W.	G.E.H.	16948	ADDENDUM NO. 2
10-15-91	M.C.H.	G.E.H.	16948	MODIFIED INFLUENT PIPING
11-20-91	C.R.T.			AS-BUILT (REVISION)

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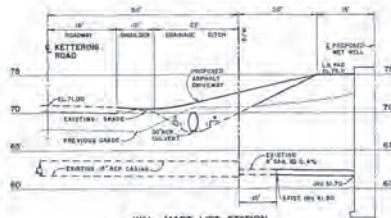


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BROOKSVILLE, FLORIDA 34601  
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FUND. BY G.E.H. DESIGNED BY G.E.H. DATE 8/16/90

PROJECT NO. 9101  
SHEET NO. 108 OF 108

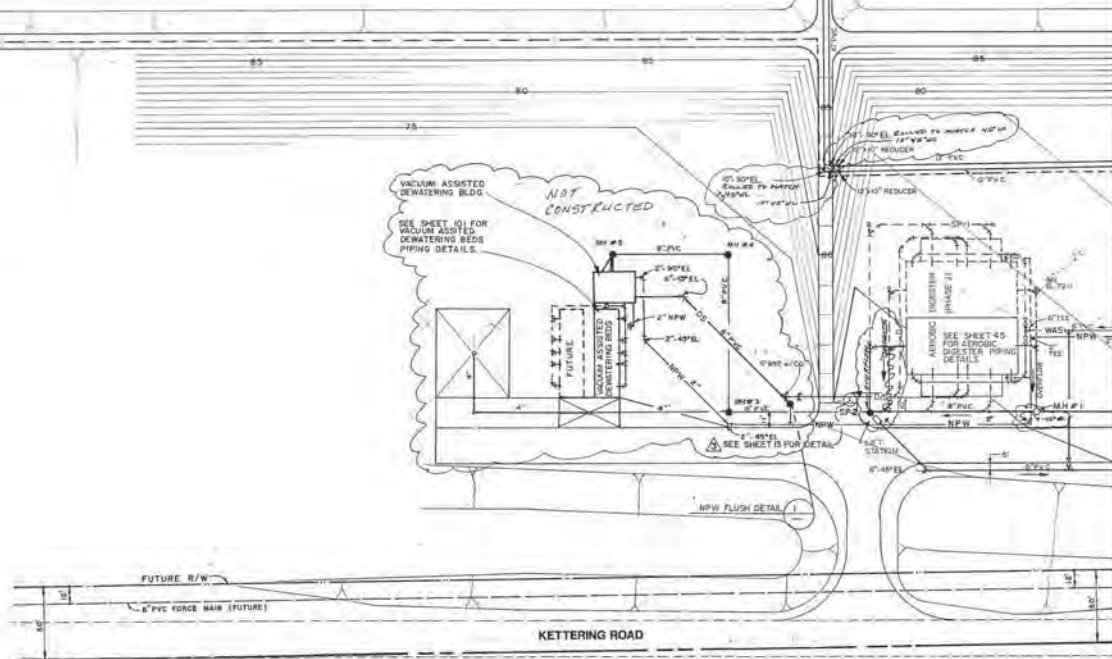
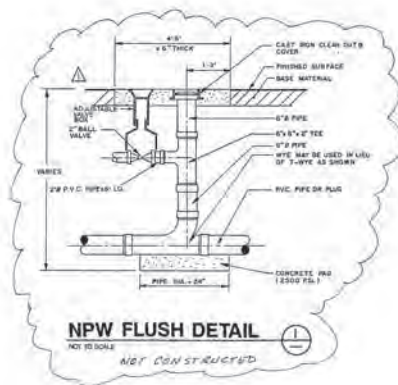
YARD PIPING PLAN  
RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT  
SHEET 14  
OF 108 SHEETS  
8977

N  
SCALE 1" = 40'



SEE SHEET 17 FOR POND PIPING DETAILS

POND #1



LIFT STATIONS & FORCE MAIN ONLY  
COASTAL ENGINEERING ASSOCIATES, INC.  
"RECORD DRAWINGS"

I hereby certify that these "Record Drawings" contain all identified changes and additions approved during the construction process. They are issued upon completion of construction and shall be maintained as part of the project files. I am a duly Licensed Professional Engineer in the State of Florida, License No. 36834.

FIELD ENGINEER: *[Signature]*  
P. E. No. 36834

NOT CONSTRUCTED

M.H.#	INV. ELEV.	TOP ELEV.
3	NORTH INV. ELEV. 61.4 SOUTH INV. ELEV. 60.0 WEST INV. ELEV. 61.5	74.0
4	SOUTH INV. ELEV. 62.9 EAST INV. ELEV. 62.8	75.0
5	NORTH INV. ELEV. 63.7 EAST INV. ELEV. 63.0 EAST INV. ELEV. 62.0 FLOW DECK	74.5

M.H.#	INV. ELEV.	TOP ELEV.
1	NORTH INV. ELEV. 65.1 SOUTH INV. ELEV. 64.0 WEST INV. ELEV. 70.3	75.5
2	SOUTH INV. ELEV. 65.9 WEST INV. ELEV. 64.0	76.5
L.S.	SOUTH INV. ELEV. 66.1 NORTH INV. ELEV. 64.5	75.0

DATE	REV.	BY	CHK.	REV.	REVISION
7-9-91	B.A.W.	G.E.H.	18948	1	ADDENDUM NO. 1
11-4-91	M.C.H.	G.E.H.	16948	2	ADDED LIFT STATION SITE PLAN
1-2-92	B.A.W.	G.E.H.	16948	3	ADDED WASP PUMP OUT CONNECTION
1-21-92	L.P.S.				AS-BUILT (CORRECTED)

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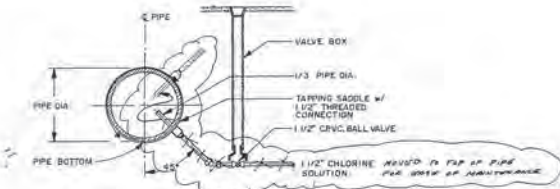
COASTAL ENGINEERING ASSOCIATES, INC.  
"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" contain all identified changes and additions approved during the construction process. They are issued upon completion of construction and shall be maintained as part of the project files. I am a duly Licensed Professional Engineer in the State of Florida, License No. 36834.

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FACSIMILE (904) 788-9423

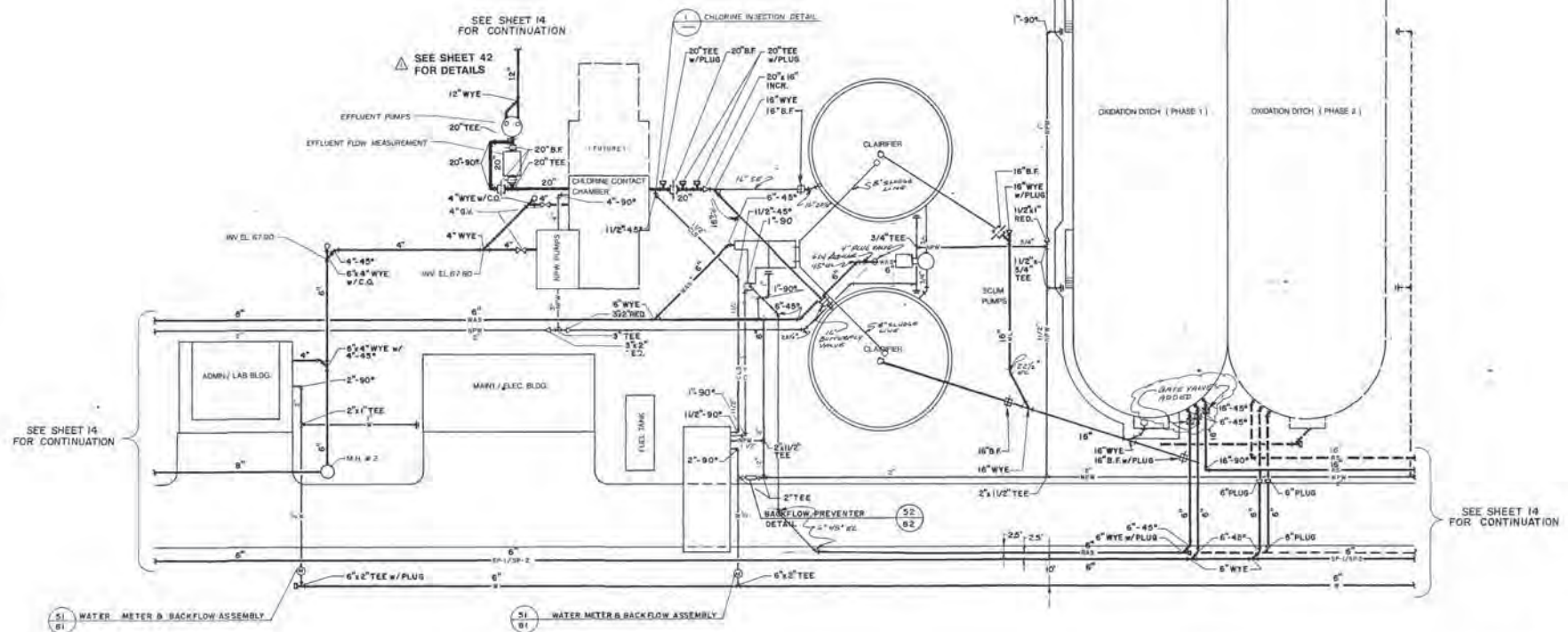
**YARD PIPING PLAN**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET 15**  
OF 108 SHEETS  
8977



**CHLORINE INJECTION DETAIL**  
NOT TO SCALE



**"RECORD DRAWINGS"**

I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are based upon fieldwork, drawings and other information furnished to the Engineer by the Contractor, and show the completed construction to the best of my knowledge and belief.

FIELD ENGINEER: *[Signature]* Date: 12/20/90  
P. L. No. 835524

DATE	REV. BY	REV. NO.	REVISION
7-9-91	BAW	01	ADDENDUM NO. 1
8-27-91	A.C.T.	02	AS-BUILT

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988 CANDLELIGHT BOULEVARD  
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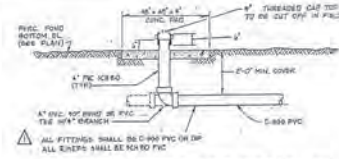
DESIGNED BY: P. McN. DRAWN BY: MCH CHECKED BY: GEN DATE: 12-12-90

**YARD PIPING PLAN**  
RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

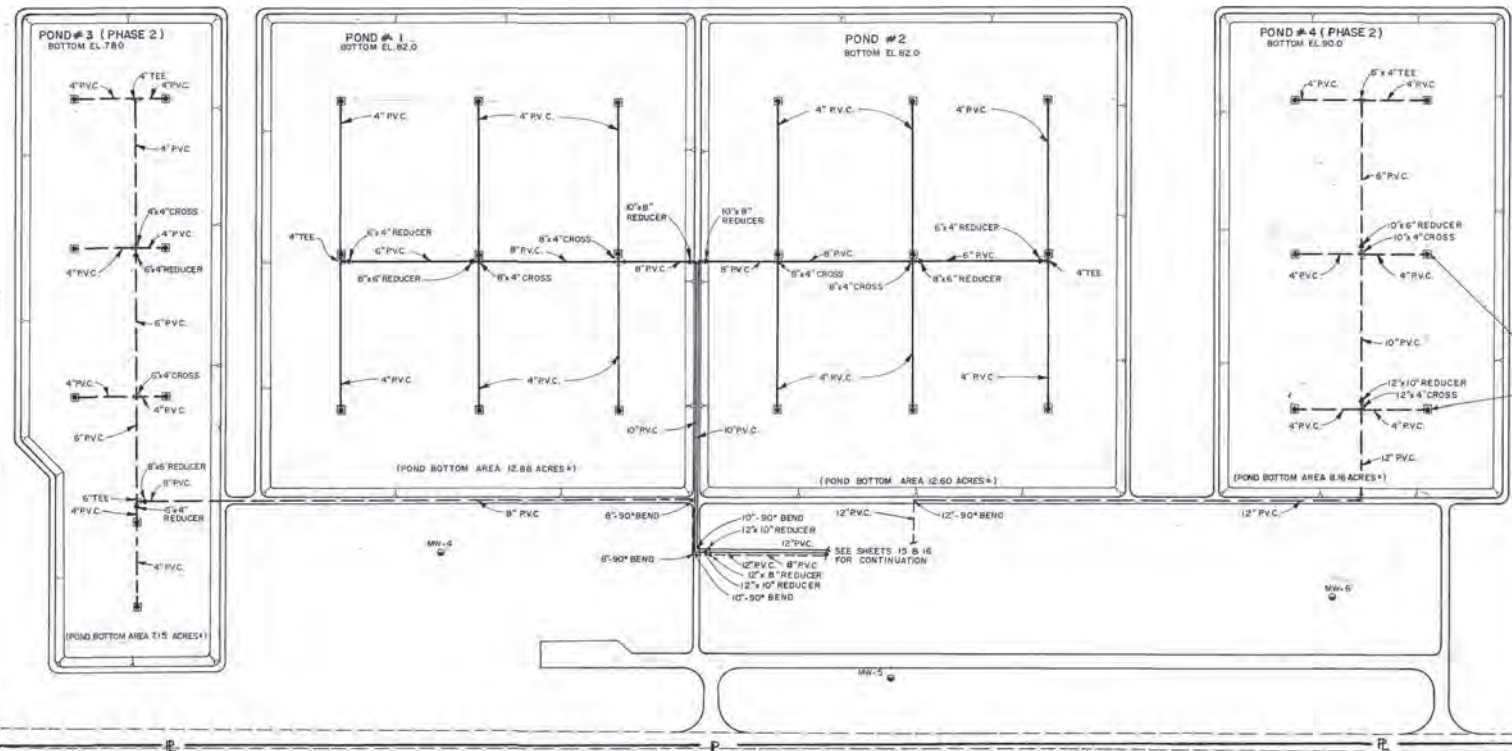
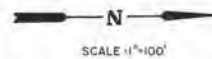
**SHEET**  
16  
OF 108 SHEETS  
8977



NOTE:  
EXACT LOCATION FOR BMV-1  
TO BE IDENTIFIED BY ENGINEER



**EFFLUENT RISER DETAIL** 1  
NOT TO SCALE



**LEGEND**

MW-2  
PROPOSED MONITOR WELL  
LOCATION (SEE DETAIL &  
SHEET 8)

**"RECORD DRAWINGS"**

I hereby certify that these "Record Drawings" when all significant changes and omissions approved during the construction process, have not been upon marked up prints, drawings and other information furnished to me by the Engineer in the construction and that the construction conforms to the drawings and specifications. I am not liable for any errors or omissions on the drawings or specifications. I am not liable for any errors or omissions on the drawings or specifications.

DATE	REV. BY	REV. NO.	REV. DESCRIPTION
7-9-91	B.A.W.	1	ADDENDUM NO. 1

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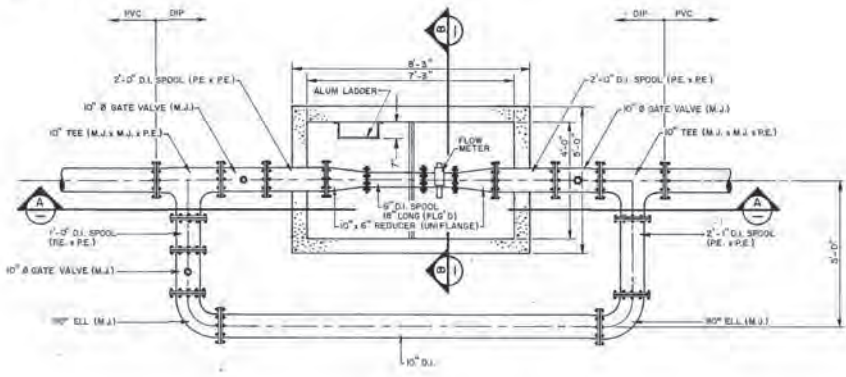
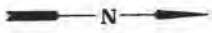


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BROOKSVILLE, FLORIDA 34601  
TEL (904) 798-9423 FAX (904) 798-8359  
OWNER: G.E.H. DRAWN BY: M.R.S. CHECKED BY: G.E.H. DATE: 5/26/90

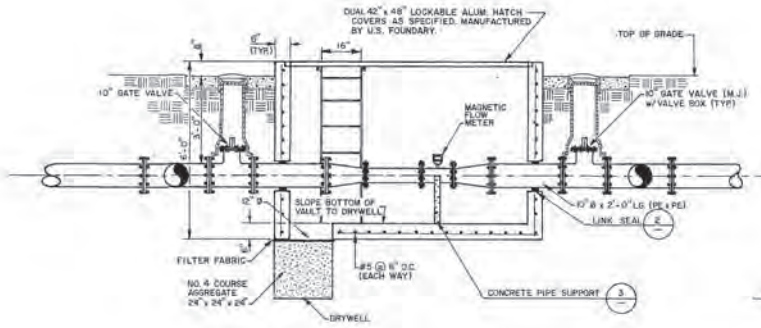
PROVIDE THESE SHEETS SEPARATELY TO EACH CONTRACTOR.

**POND PIPING & MONITOR WELLS**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

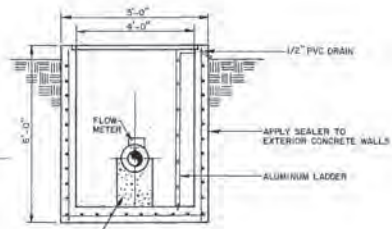
**SHEET**  
**17**  
OF 108 SHEETS  
**8977**



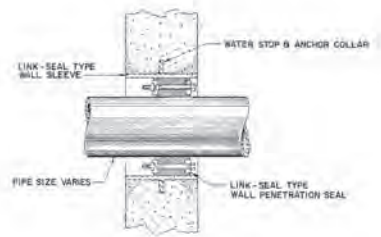
**PLAN**  
SCALE: 1/2" = 1'-0"



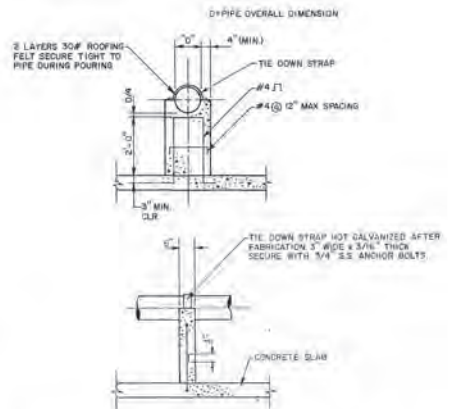
**SECTION A-A**  
SCALE: 1/2" = 1'-0"



**SECTION B-B**  
SCALE: 1/2" = 1'-0"



**LINK SEAL DETAIL**  
NOT TO SCALE



**CONCRETE PIPE SUPPORT DETAIL**  
NOT TO SCALE

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all significant changes and additions approved by me and the consultant for approval. They are issued upon completion of the work. No other drawings or amendments shall be used in the field without my written approval. The contractor shall follow the instructions in the contract documents and specifications.  
FIELD ENGINEER: [Signature]  
P.E. No. 36023

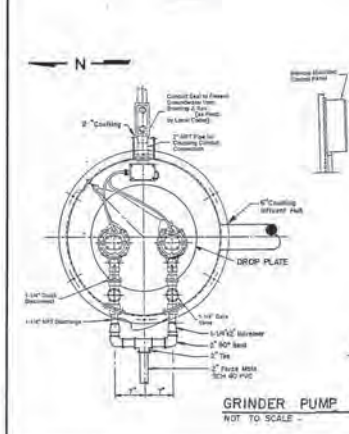
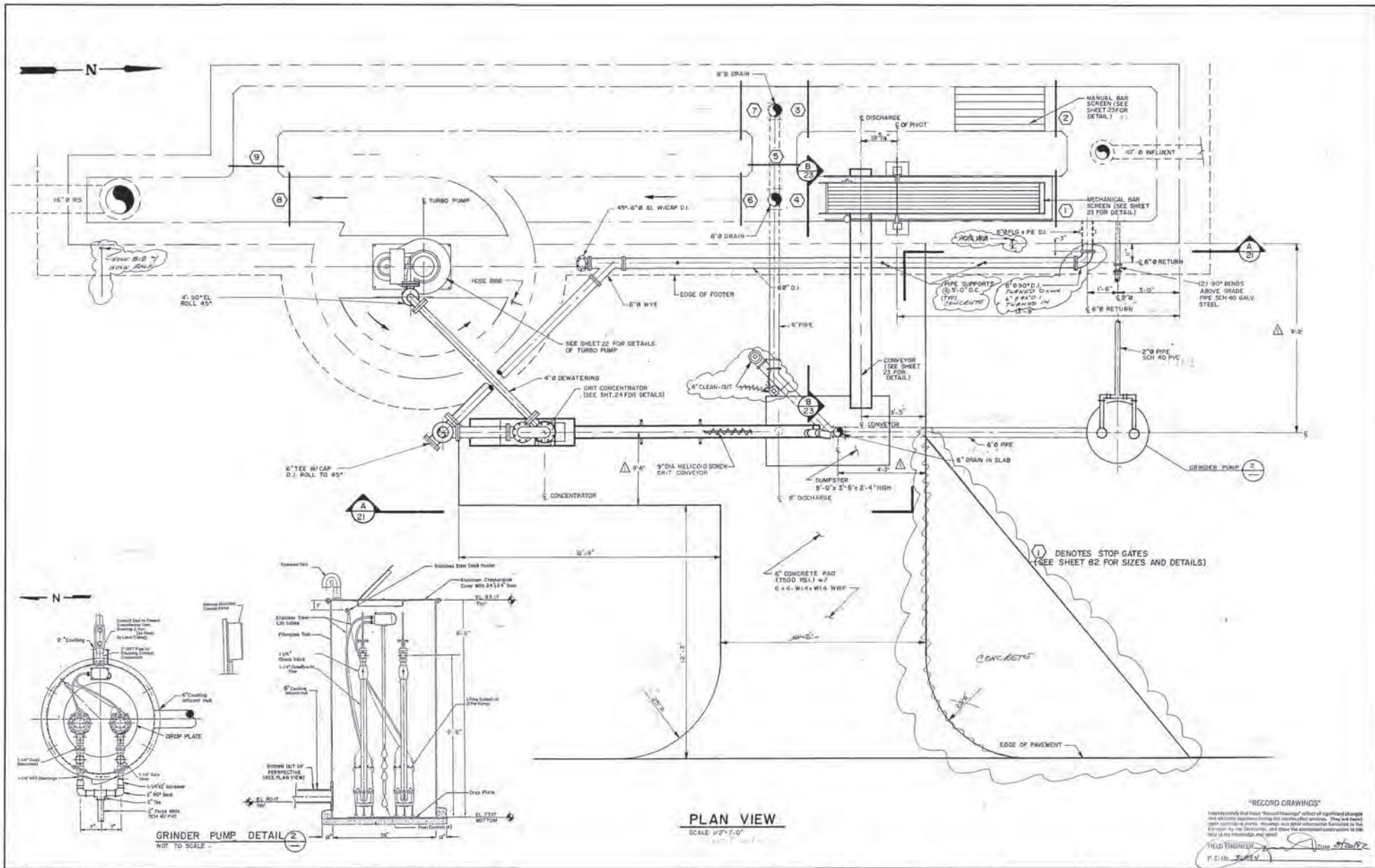
DATE	REV. BY	REV. BY	REV. BY	REV. BY	REVISION

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**INFLUENT FLOW METER**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET**  
**18**  
OF 108 SHEETS  
8977



DATE	REV.	BY	CHK.	REV.	REVISION
7-9-91	B.A.W.	G.E.H.	16948		ADDENDUM NO. 1

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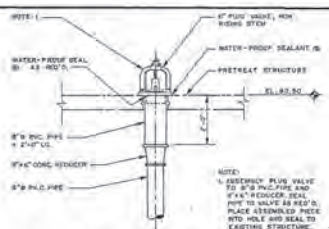
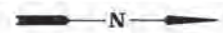


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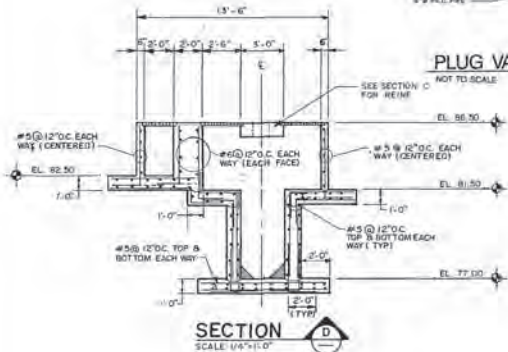
**PRETREATMENT STRUCTURE  
 GENERAL ARRANGEMENT**  
 RIDGE MANOR WEST SUBREGIONAL  
 WASTEWATER TREATMENT PLANT

SHEET  
**19**  
 OF 108 SHEETS  
 8977

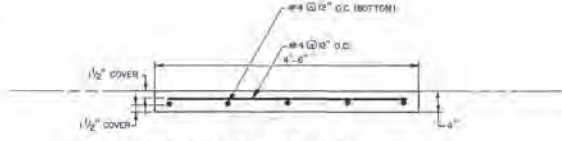
"RECORD DRAWINGS"  
 I hereby certify that these "Record Drawings" reflect all significant changes and additions approved through the construction process. They are deemed correct in every respect, including any other information furnished to the Engineer by the Contractor, and shall be considered complete to the best of my knowledge and belief.  
 FIELD ENGINEER  
 P. E. H. [Signature]  
 DATE 2/28/92



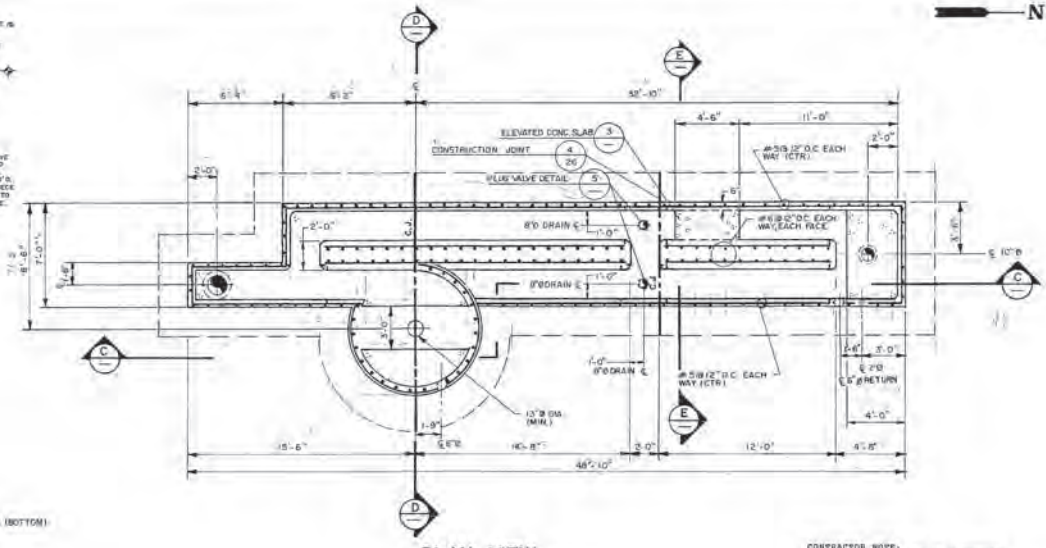
**PLUG VALVE DETAIL**  
NOT TO SCALE



**SECTION D**  
SCALE 1/4" = 1'-0"

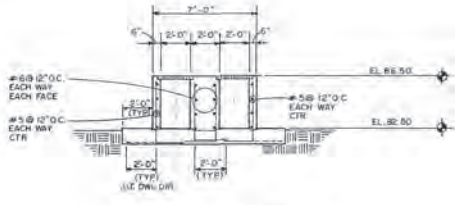


**ELEVATED CONCRETE SLAB**  
SCALE 1/4" = 1'-0"

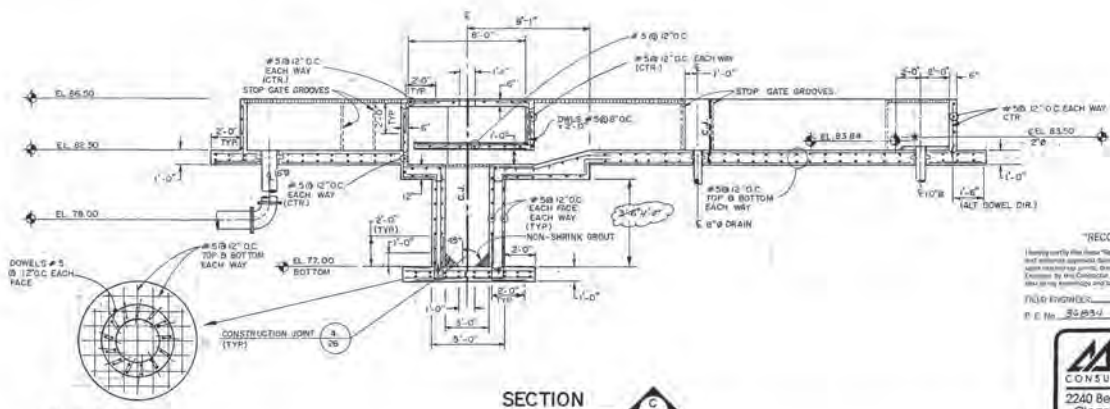


**PLAN VIEW**  
SCALE 1/4" = 1'-0"

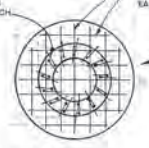
**CONTRACTOR NOTE:**  
EXTERIOR WALLS OF STRUCTURE SHALL BE ADEQUATELY BRACED DURING "WATER-TIGHT" TESTING. SHORING/BRACING SHALL BE DESIGNED BY A LICENSED FLORIDA ENGINEER.



**SECTION E**  
SCALE 1/4" = 1'-0"



**SECTION C**  
NOT TO SCALE



**FOOTING PLAN**  
NOT TO SCALE

**"RECORD DRAWINGS"**  
I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are based upon the original plans, drawings and other information furnished to me by the Contractor, and show the completed construction to the best of my knowledge and belief.  
DATE: 02/25/04  
P. E. No. 32854

**McCarthy and Associates, Inc.**  
CONSULTING ENGINEERS  
2240 Belleair Road, Suite 250  
Clearwater, FL 34624-2762

DATE	BY	APP. BY	TEL. NO.	REV. NO.	REVISION
2/25/04	L.F.F.			1	AS BUILT

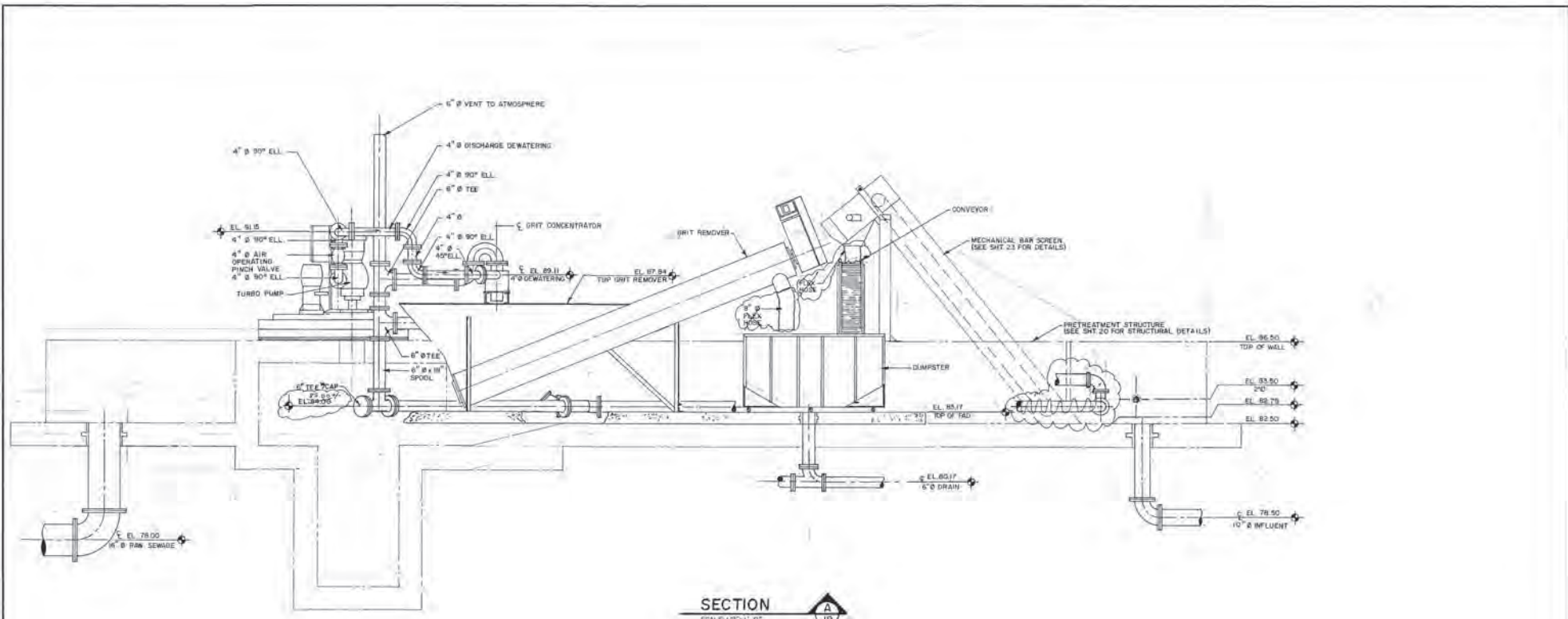
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BROOKSVILLE, FLORIDA 34601  
TEL. (904) 798-9223 FAX (904) 798-8558

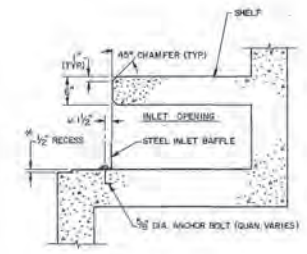
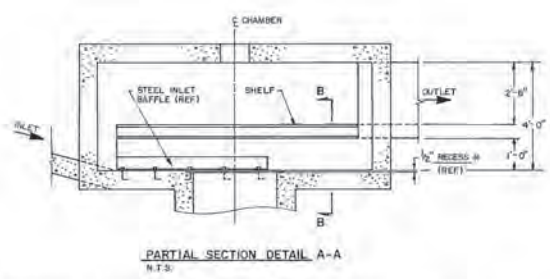
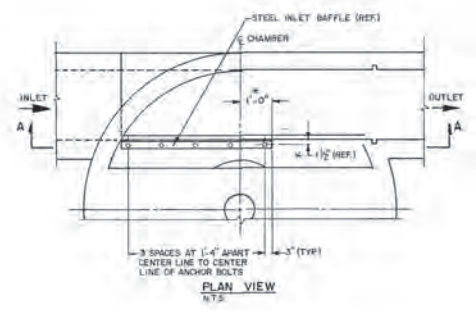
SMALL SCALE WORK SHALL BE SHOWN BY DIGITAL INTERPOLATION.

**PRETREATMENT STRUCTURE (STRUCTURAL)**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET**  
**20**  
OF 108 SHEETS  
2/25/04  
8977



**SECTION**  
 SCALE: 1/8" = 1'-0"  
 A  
 19



**CHAMBER AND STEEL BAFFLE DETAILS**  
 NOT TO SCALE  
 2  
 22

"RECORD DRAWINGS"  
 I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are based upon marked up prints, change orders and other information furnished to the Engineer as the Contractor, and shall be considered as the basis of record for the project.  
 FIELD ENGINEER: [Signature]  
 P. E. No. 12345

**GENERAL NOTES:**  
 1. DIMENSION NOTED BY \* ARE BASED ON THOSE SUPPLIED BY EQUIPMENT MANUFACTURER. ACTUAL DIMENSIONS TO BE PROVIDED BY CONTRACTOR BASED ON EQUIPMENT MANUFACTURER UTILIZED.

DATE	REV.	BY	CHK.	REV.	REVISION
05/20/12	1	R.P.			AS-BUILT (CLOSED)

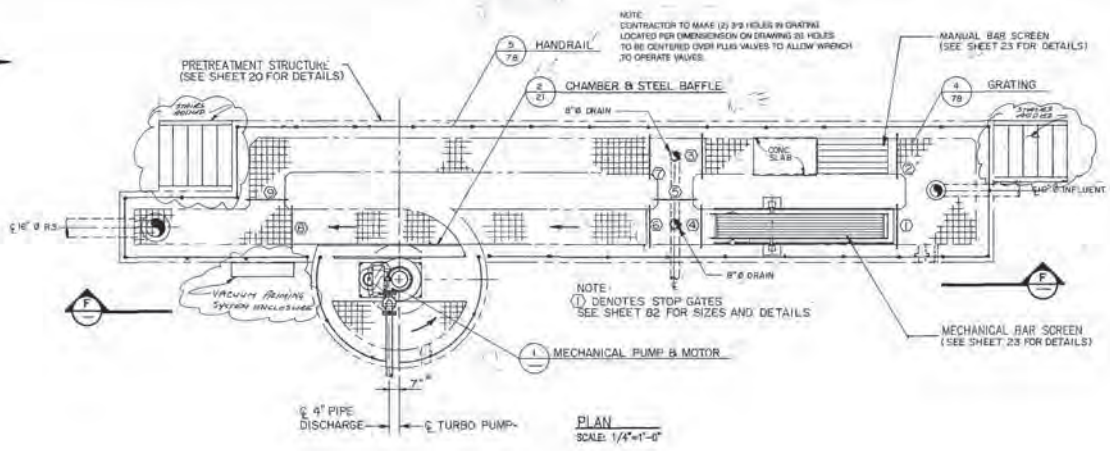
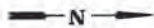
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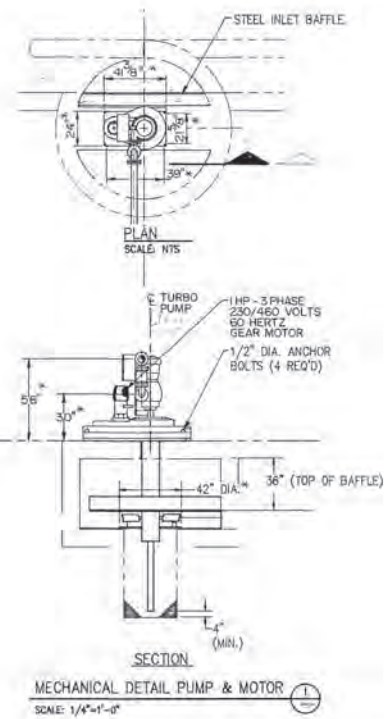
**Coastal Engineering Assoc., Inc.**  
 ENGINEERING • PLANNING  
 ENVIRONMENTAL • SURVEYING  
 966 CANDLELIGHT BOULEVARD  
 BROOKSVILLE, FLORIDA 34601  
 TEL (804) 798-9423 FAX (804) 798-8309  
 E-MAIL: info@coastaleng.com  
 WWW: www.coastaleng.com

SHOWN UNLESS NOTED OTHERWISE  
 2. 3/16" DIA. ANCHOR BOLTS

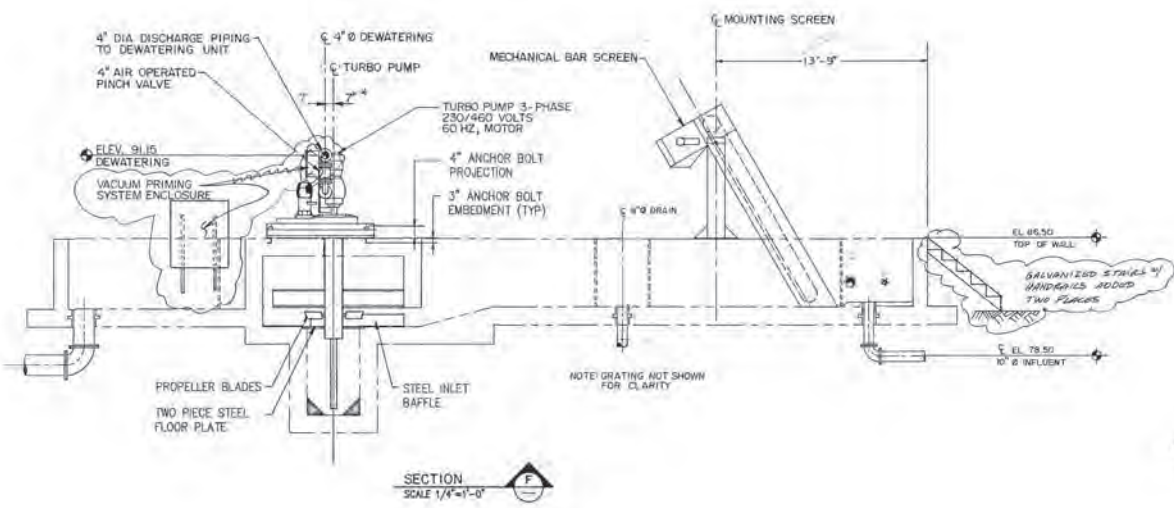
**PRETREATMENT STRUCTURE (MECHANICAL)**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**  
 SHEET  
**21**  
 OF 108 SHEETS  
 8977



PLAN  
SCALE: 1/4"=1'-0"



SECTION  
MECHANICAL DETAIL PUMP & MOTOR  
SCALE: 1/4"=1'-0"



SECTION  
SCALE: 1/4"=1'-0"

GENERAL NOTES:  
1. DIMENSION NOTED BY \* ARE BASED ON THOSE SUPPLIED BY EQUIPMENT MANUFACTURER. ACTUAL DIMENSIONS TO BE PROVIDED BY CONTRACTOR BASED ON EQUIPMENT MANUFACTURER UTILIZED.

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all significant changes and additions submitted during the construction period. They are based upon the contract documents, drawings and other information furnished to the Engineer by the Contractor, and were the responsibility of the Engineer.  
FIELD ENGINEER: \_\_\_\_\_ Date: \_\_\_\_\_  
P. E. No. 25683-V

DATE	REV BY	APP BY	REV No.	REVISION
7-30-99	L.P.J.			AS BUILT (CLOUDS)

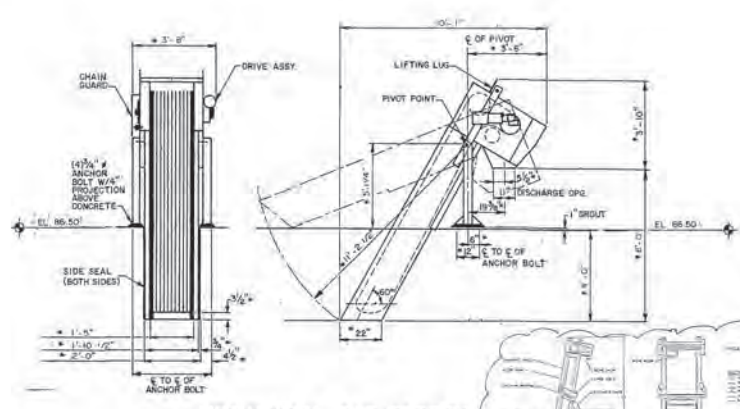
**REUSE OF DOCUMENT**  
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BROOKSVILLE, FLORIDA 34601  
TEL (804) 798-9425 FAX (804) 798-8358  
WWW.COASTAL-ENG.COM

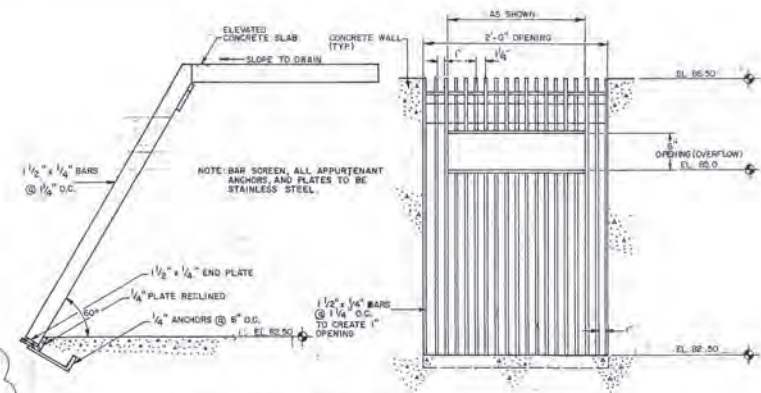
SCALE: 1/4"=1'-0"  
DATE: 7-30-99  
BY: L.P.J.

<b>PRETREATMENT STRUCTURE SECTION, DETAILS</b>  <b>RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT</b>	SHEET <b>22</b> OF 108 SHEETS 8977
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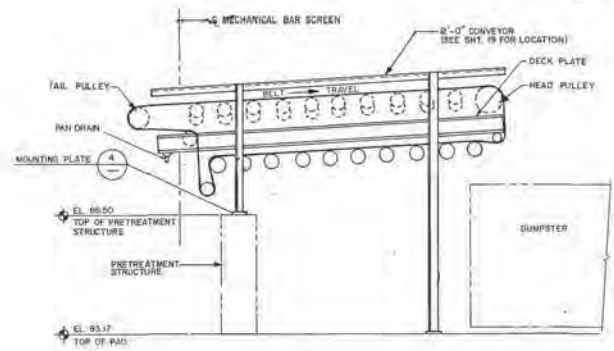
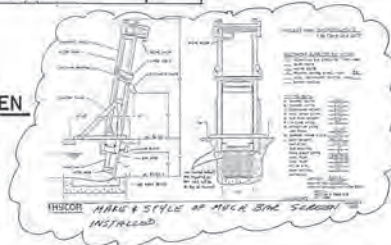
**MECHANICAL BAR SCREEN**

NOT TO SCALE



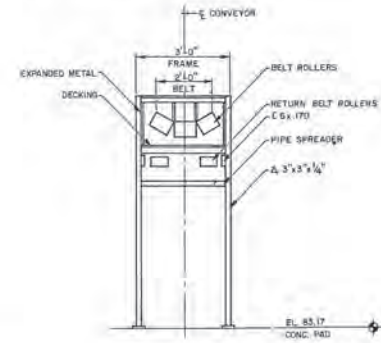
**MANUAL BAR SCREEN**

NOT TO SCALE



**CONVEYOR**

NOT TO SCALE



**MOUNTING PLATE**

NOT TO SCALE

**GENERAL NOTES:**

1. DIMENSIONS NOTED BY \* ARE BASED ON THOSE SUPPLIED BY EQUIPMENT MANUFACTURER. ACTUAL DIMENSIONS TO BE PROVIDED BY CONTRACTOR BASED ON EQUIPMENT MANUFACTURER UTILIZED.

**"RECORD DRAWINGS"**

Changes made to these "Record Drawings" must be significant changes and subject to approval during the construction process. They are issued after construction has started, and they are not to be used for construction until they are approved by the Engineer. The Contractor shall retain a copy of these drawings for the life of the project.

YIELD ENGINEER: *[Signature]*  
P. E. No. 80000

DATE	REV. BY	APP. BY	PL. NO.	REV. NO.	REVISION
7-20-90	W.P.F.				As Shown (Construction)

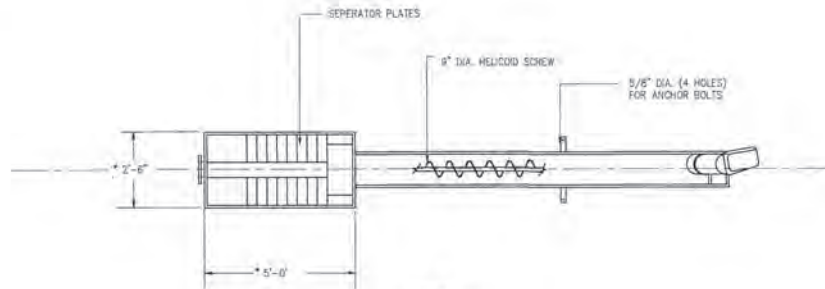
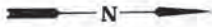
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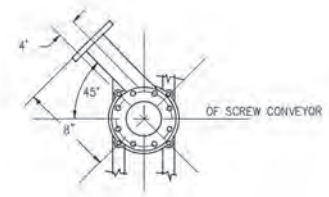
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ENVIRONMENTAL • SURVEYING  
966 CANDELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL. (904) 798-9423 FAX (904) 798-8358

**PRETREATMENT STRUCTURE  
BAR SCREENS**  
**RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT**

**SHEET**  
**23**  
OF 108 SHEETS  
8977

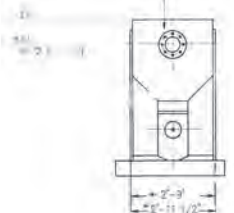


PLAN  
SCALE: 1/2"=1'-0"

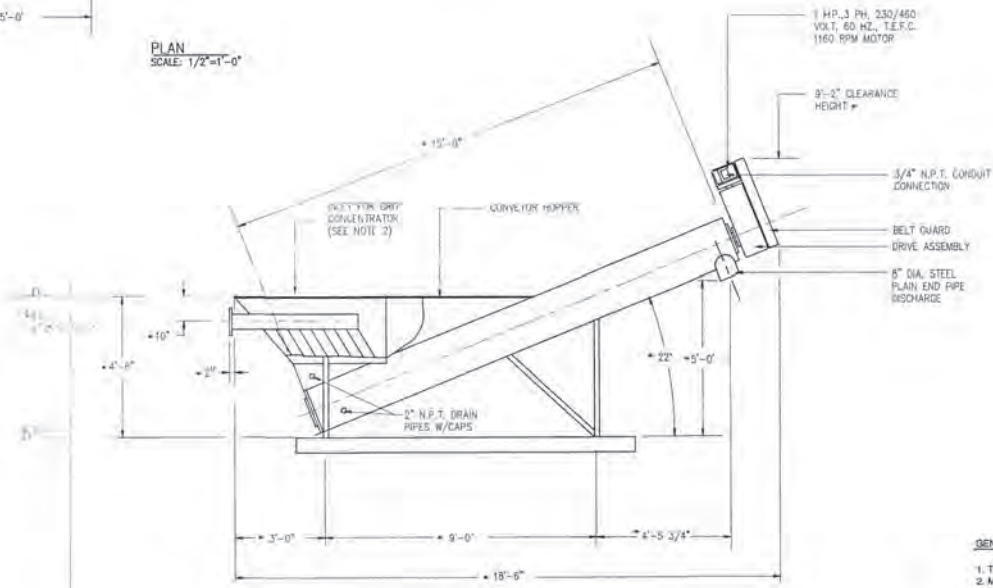


DETAIL A  
GRIT CONCENTRATOR MOUNTING DETAIL  
SCALE: NTS

4" DIA. A.S.A. 150 LB. FLANGE,  
OVERFLOW BACK TO  
INLET CHANNEL (SEE NOTE 3)



SIDE VIEW  
SCALE: 1/2"=1'-0"



ELEVATION  
SCALE: 1/2"=1'-0"

GENERAL NOTES

1. THE PROJECTED SEPARATOR PLATES SETTLING AREA IS 13.2 SQ. FT.
2. MAXIMUM OUTPUT IS 100 GPM.
3. THE 4" DIA. OVERFLOW MUST BE FREE DISCHARGE W/O WATER BACKUP.
4. DIMENSIONS NOTED BY \* ARE BASED ON THOSE SUPPLIED BY EQUIPMENT MANUFACTURER. ACTUAL DIMENSIONS TO BE PROVIDED BY CONTRACTOR BASED ON EQUIPMENT MANUFACTURER UTILIZED.

"RECORD DRAWINGS"

I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are based upon market data, surveys and other information furnished to the engineer by the contractor and shall show the completed construction to the best of my knowledge and belief.

FIELD ENGINEER: [Signature] Date: 5/12/92  
P. E. No. 25825

DATE	REV.	BY	CHK.	REV.	REVISION

**REUSE OF DOCUMENT**  
THIS DOCUMENT, COMPRISED OF THE INCORPORATED SHEETS AND DIVISIONS, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF COASTAL ENGINEERING ASSOCIATES, INC. AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN AUTHORIZATION OF COASTAL ENGINEERING ASSOC., INC.

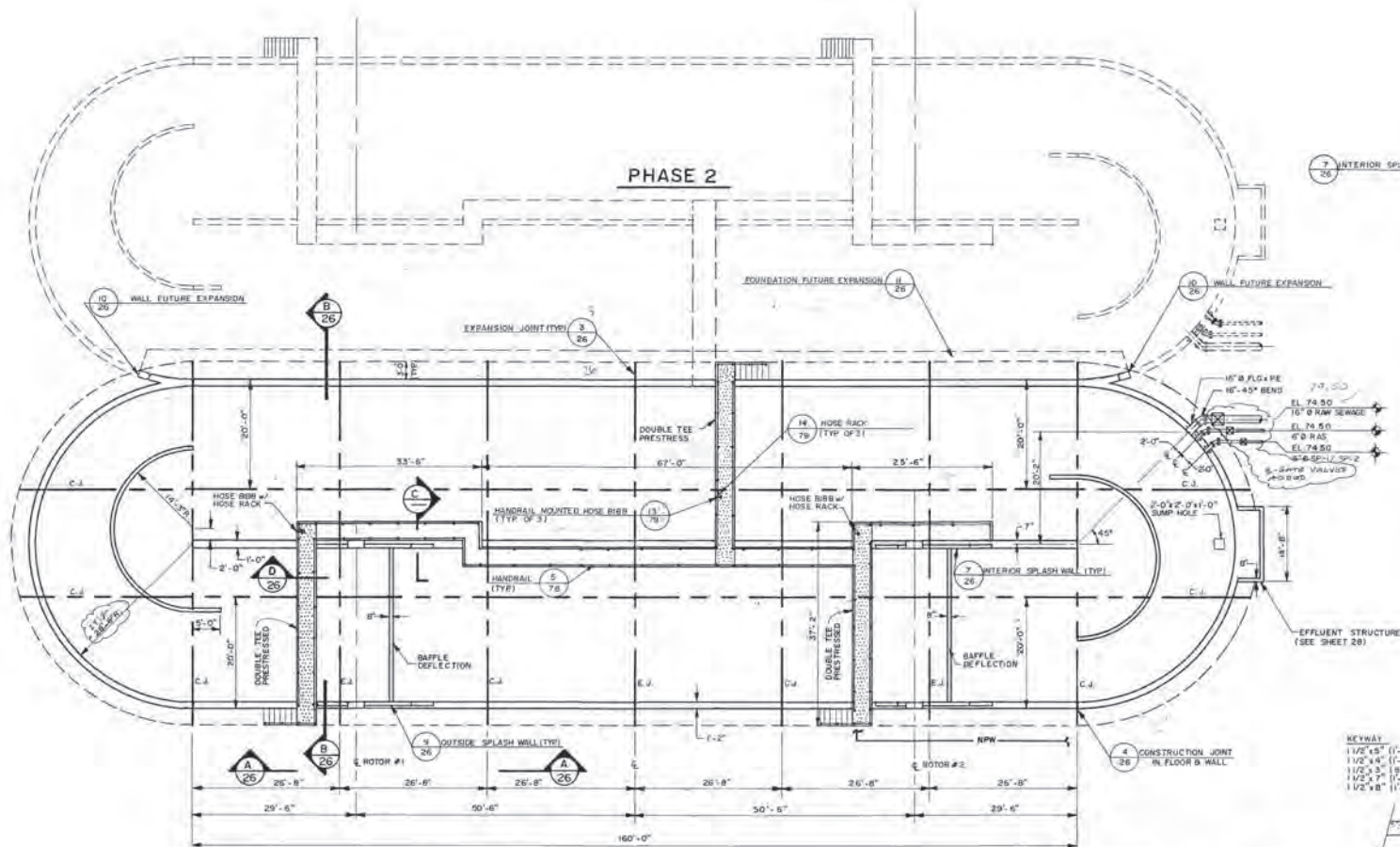
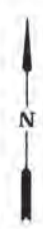


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ENVIRONMENTAL • SURVEYING  
966 CANDELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL (804) 798-8425 FAX (804) 798-8358

**GRIT DEWATERING SCREW  
W/ PLATE SEPARATOR**  
**RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT**

SHEET  
**24**  
OF 108 SHEETS  
8977





**PLAN**  
SCALE: 1"=10'

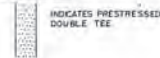
**"RECORD DRAWINGS"**

I hereby certify that these "Record Drawings" reflect all electrical changes and additions approved during the construction process. They are not to be used, in whole or in part, for any other purpose without the written authorization of Coastal Engineering Associates, Inc.

FIELD ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
P. E. No. 34733

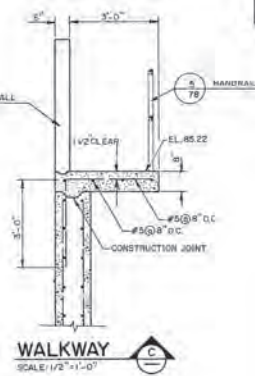
NOTE: NPW PIPE SHALL BE 3/4" SCH 40 PIC. NOT SHOWN ON STRUCTURAL FOR CLARITY.

**LEGEND**

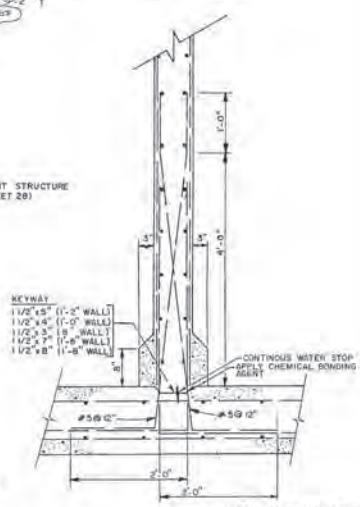


CONTRACTOR NOTE: EXTERIOR WALLS OF STRUCTURE SHALL BE ADEQUATELY BRACED DURING "WATER-TIGHT TESTING". SHORING/BRACING SHALL BE DESIGNED BY A LICENSED FLORIDA ENGINEER.

**McCarthy and Associates, Inc.**  
CONSULTING ENGINEERS  
2240 Bellair Road, Suite 250  
Clearwater, FL 34624-2762



**WALKWAY**  
SCALE: 1/2"=1'-0"



**SHEAR & CONSTRUCTION JOINT DETAIL**  
SCALE: 1"=7'-0"

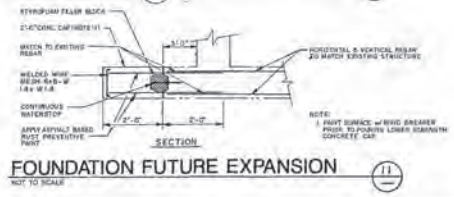
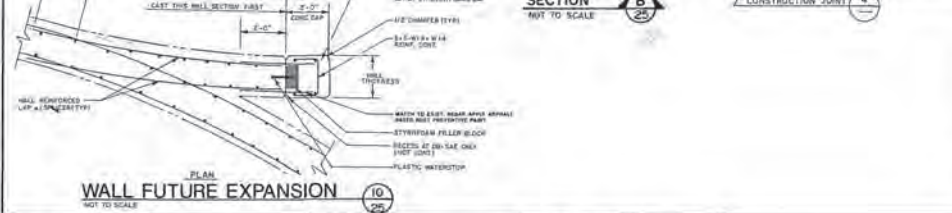
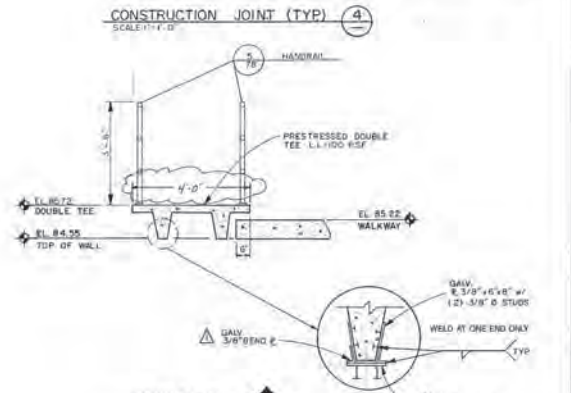
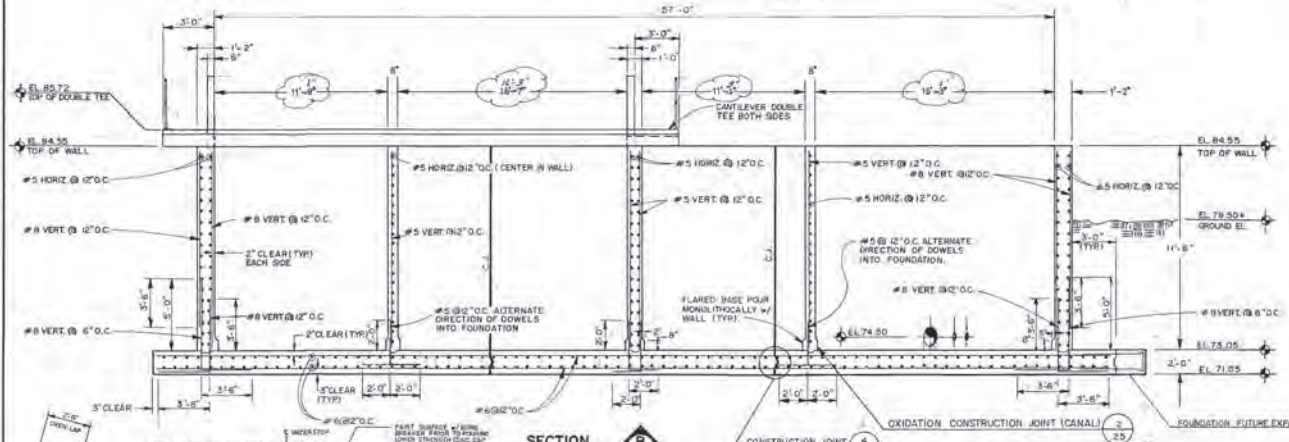
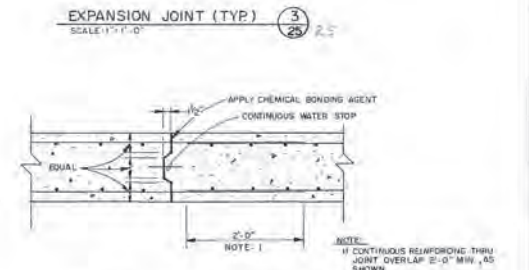
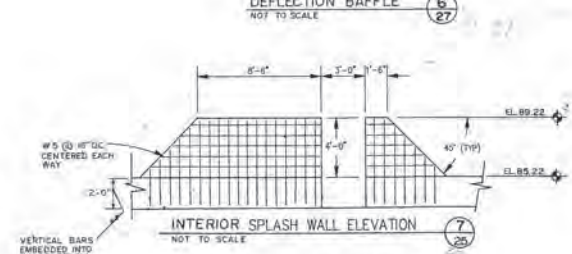
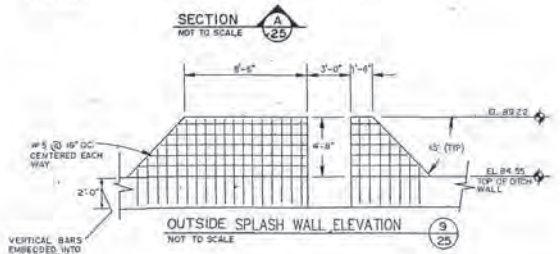
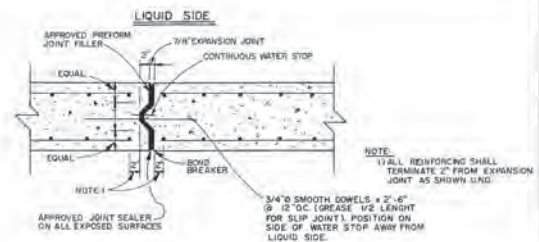
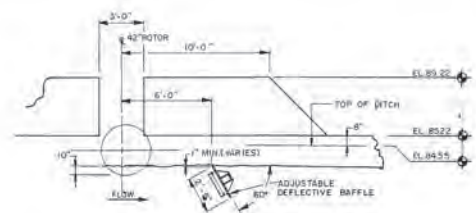
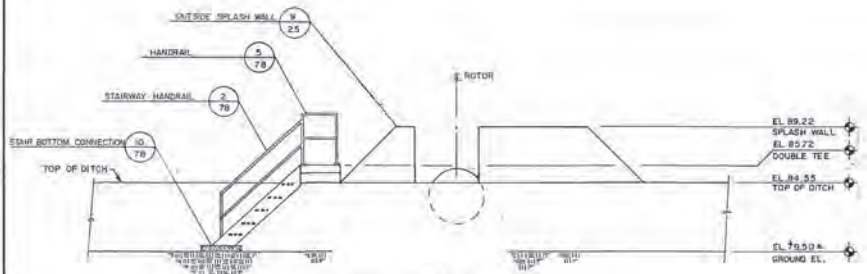
DATE	REV BY	REV BY	REV BY	REV BY	REVISION
3-24-92	L.P.J.				AS-BUILT REVISION

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TEL (813) 798-8423 FAX (813) 798-8388  
www.coastaleng.com

**OXIDATION DITCH PLAN & SECTIONS (STRUCTURAL)**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

SHEET  
**25**  
OF 108 SHEETS  
8977



DATE	REV. BY	REV. NO.	REV. DESCRIPTION
7-9-91	BAW	01	REVISED
7-31-91	A.P.S.	02	REVISED

ADDENDUM NO. 1  
As Over (Revised)

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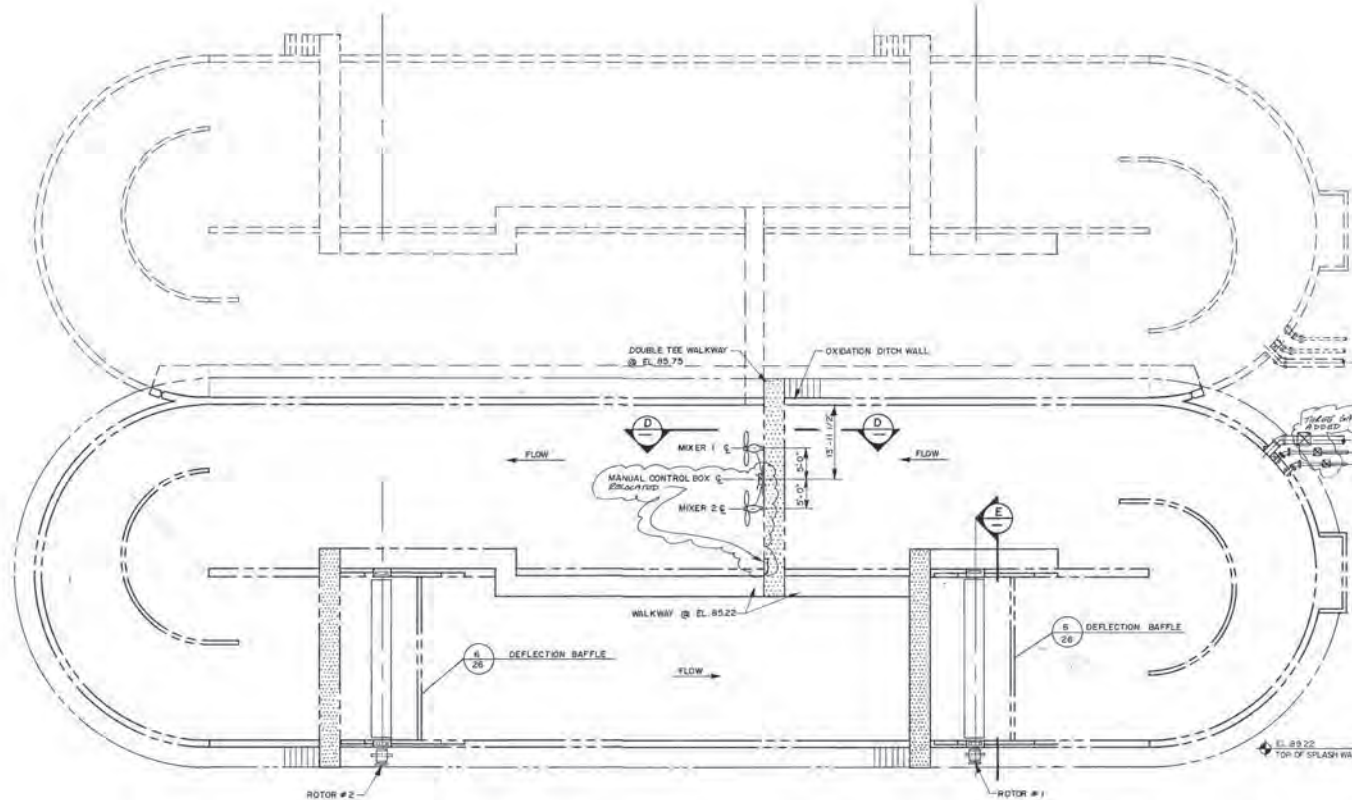
**Coastal Engineering Assoc., Inc.**  
ENGINEERING • PLANNING  
ENVIRONMENTAL • SURVEYING  
966 CANDELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL (904) 798-9423 FAX (904) 798-8359

**OXIDATION DITCH SECTIONS & DETAILS**

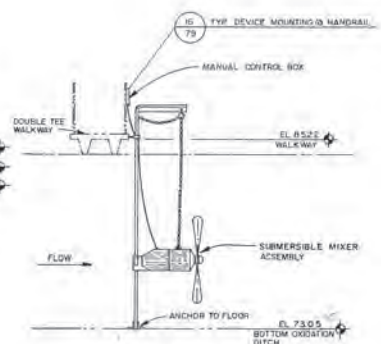
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**McCarthy and Associates, Inc.**  
CONSULTING ENGINEERS  
2240 Belleair Road, Suite 250  
Clearwater, FL 34624-2762

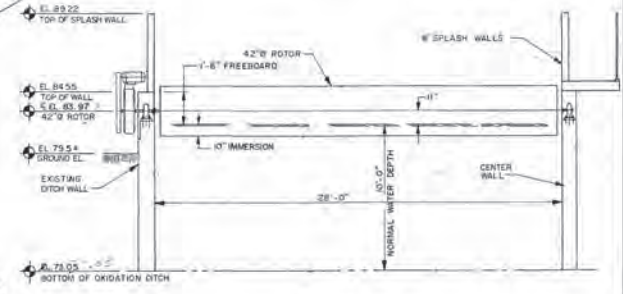
**SHEET 26**  
OF 108 SHEETS  
REV. 8977



PLAN  
SCALE: 1"=10'



SECTION D  
NOT TO SCALE



SECTION E  
NOT TO SCALE

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all supplements and amendments and indicate approval during the construction process. They are based upon field no. plans, drawings and other information furnished to the Engineer by the Contractor, and show the completed construction to the best of my knowledge and belief.  
FIELD ENGINEER: [Signature] Date: 1/20/11  
P. E. No. 26834

DATE	REV.	BY	CHK.	DESC.	REVISION

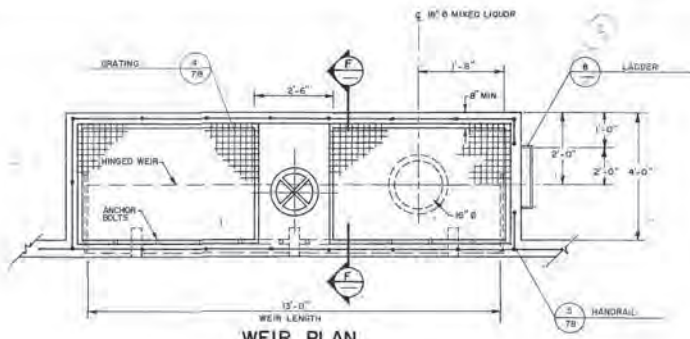
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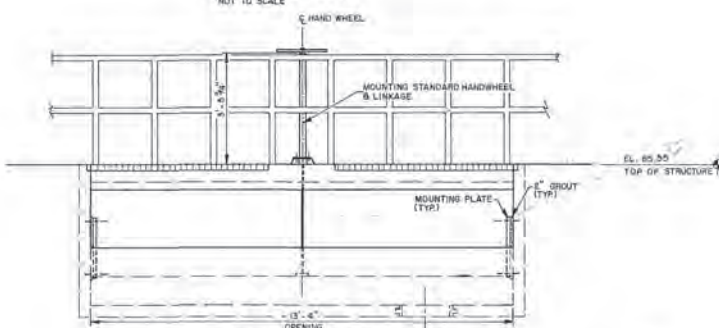
**Coastal Engineering Assoc., Inc.**  
ENGINEERING • PLANNING  
ENVIRONMENTAL • SURVEYING  
966 CANDELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL. (804) 798-8423 FAX (804) 798-8359  
E-MAIL: info@ceai.com

**OXIDATION DITCH PLAN SECTIONS, & DETAILS (ROTOR)**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

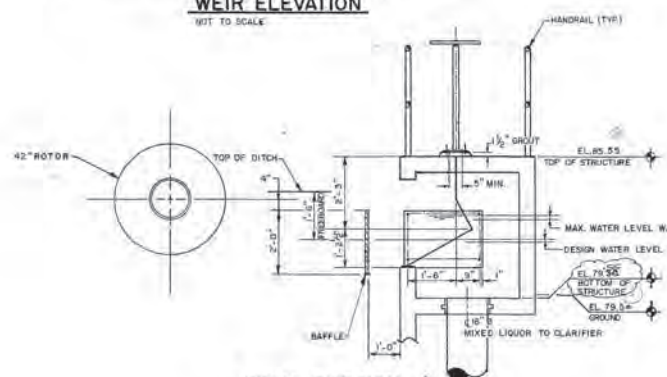
SHEET  
**27**  
OF 108 SHEETS  
8977



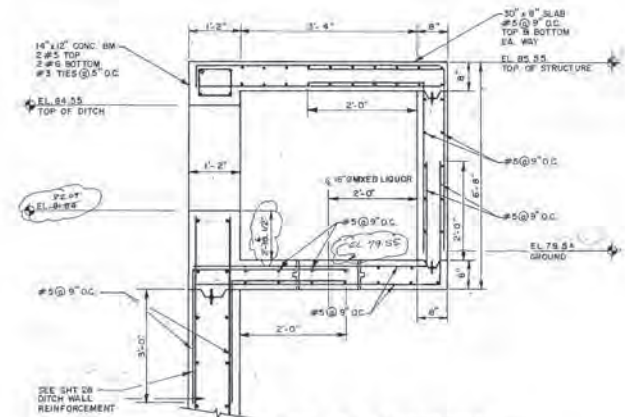
**WEIR PLAN**  
NOT TO SCALE



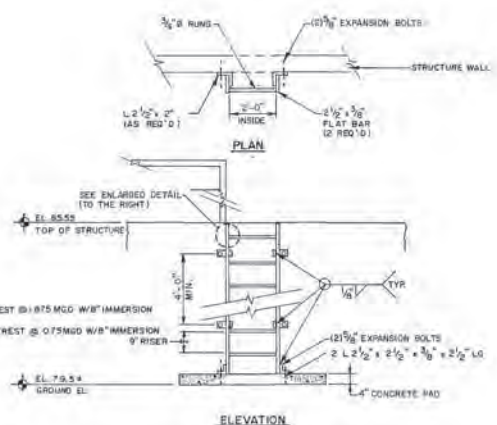
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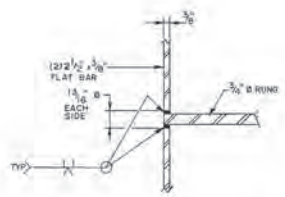
**WEIR SECTION**  
NOT TO SCALE



**WEIR STRUCTURE ELEVATION**  
NOT TO SCALE



**LADDER DETAIL**  
NOT TO SCALE



**ENLARGED RUNG WELDMENT**  
NOT TO SCALE

"RECORD DRAWINGS"  
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CONTRACTOR NOTE:  
EXTERIOR WALLS OF STRUCTURE SHALL BE ADEQUATELY BRACED DURING "WATER-TIGHT TESTING." SHORTING/BRACING SHALL BE DESIGNED BY A LICENSED FLORIDA ENGINEER.

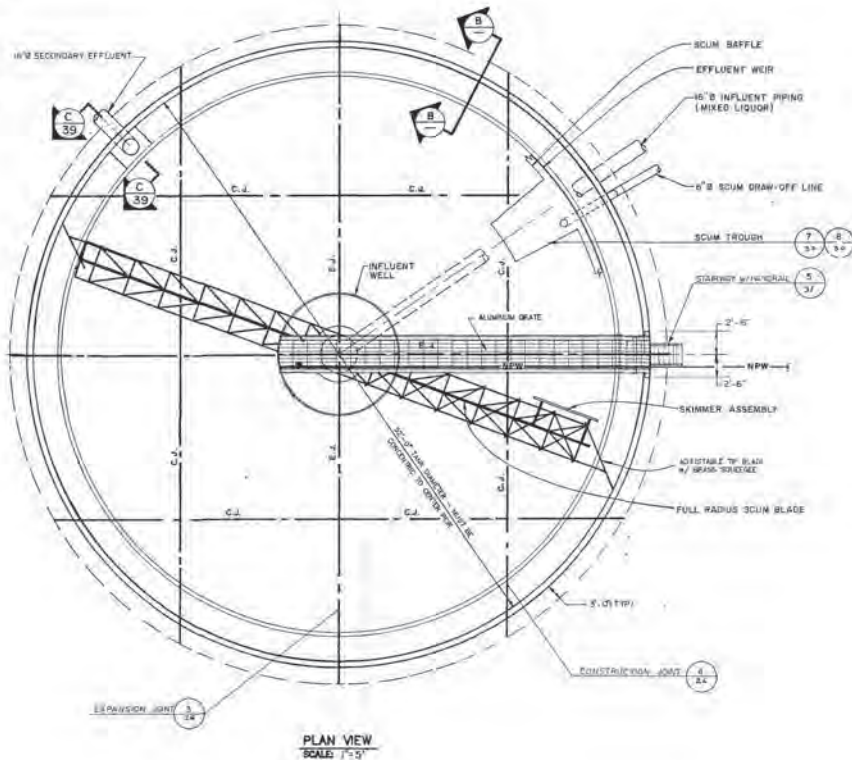
**McCarthy and Associates, Inc.**  
CONSULTING ENGINEERS  
2240 Belleair Road, Suite 250  
Clearwater, FL 34624-2762

DATE	REV.	BY	CHK.	REV.	REVISION
7/20/14	1	CP	ST		REVISED DRAWING

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BROOKSVILLE, FLORIDA 34601  
TEL (804) 798-8423 FAX (804) 798-8559

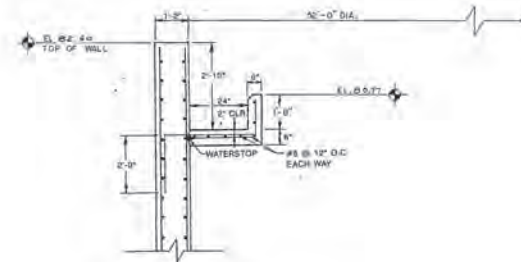
**OXIDATION DITCH WIER PLAN, SECTIONS, DETAILS**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**  
SHEET **28** OF 108 SHEETS  
NO. 8977



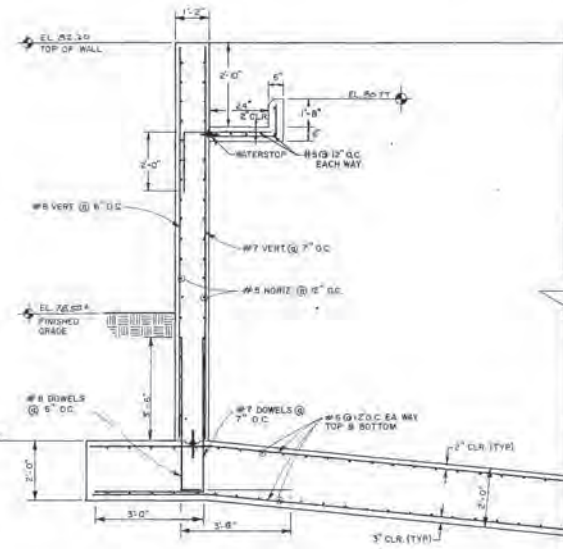
PLAN VIEW  
SCALE 1"=5'

GENERAL NOTES:

1. AFTER INSTALLATION OF CLARIFIER EQUIPMENT, CONTRACTOR SHALL PLACE A 2" NON-SHRINKING GROUT IN THE BOTTOM OF THE CLARIFIER AND SWEEP WITH THE CLARIFIER EQUIPMENT TO ACHIEVE A SMOOTH BOTTOM THAT WILL ALLOW CONTINUOUS SCRAPING OF THE FLOOR WITH NO HIGH OR LOW SPOTS. PROCEDURE FOR THE GROUTING AND SWEEPING SHALL BE PROVIDED BY THE CLARIFIER EQUIPMENT MANUFACTURER.
2. CLARIFICATION: REGARDING THE LOCATION OF THE EXPANSION/ CONSTRUCTION JOINTS IN THE FLOOR OF THE CLARIFIER, THE FLOOR JOINTS MAY BE INSTALLED RADIALLY RATHER THAN AS SHOWN AND THERE WILL BE NO EXPANSION JOINTS IN THE FLOOR. CONTRACTOR TO SUBMIT PROPOSED LOCATION OF JOINTS AND POURING SEQUENCE AS A SUBMITTAL.



SECTION B-B  
SCALE 1/8"=1'-0"



TYPICAL WALL SECTION  
SCALE 1/2"=1'-0"

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FIELD ENGINEER  
P. E. H. [Signature]  
10/24/92

CONTRACTOR NOTE:  
EXTENSION WALLS OF STRUCTURE SHALL BE ADEQUATELY BRACED DURING "WATERTIGHT TESTING." SHORING/BRACING SHALL BE DESIGNED BY A LICENSED FLORIDA ENGINEER.

**McCarthy and Associates, Inc.**  
CONSULTING ENGINEERS  
2240 Belleair Road, Suite 250  
Clearwater, FL 34624-2762

DATE	REV. BY	REV. BY	REV. NO.	REVISION

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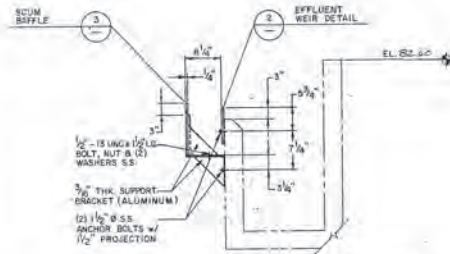


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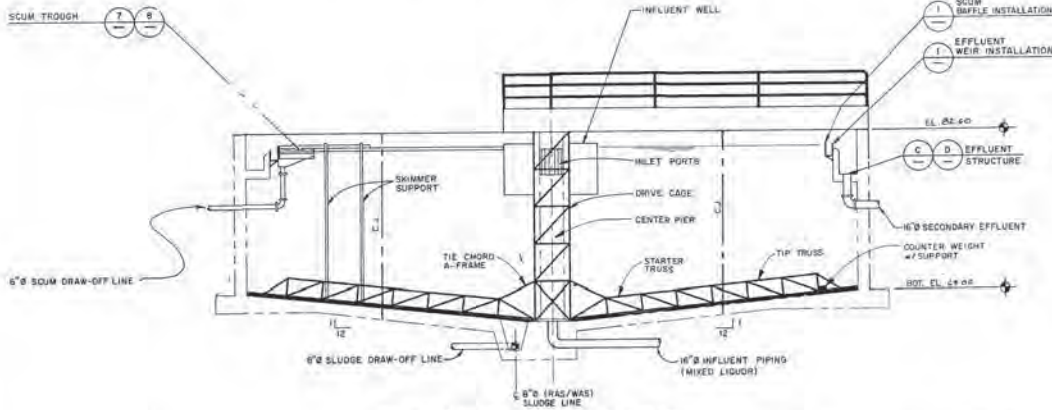
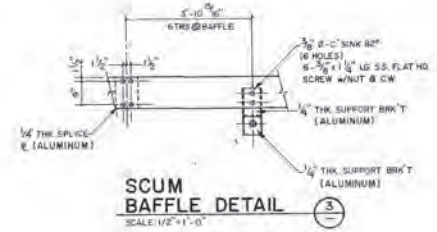
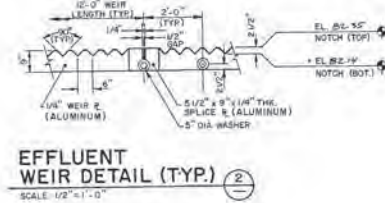
PROJECT NO. 92-01  
SHEET NO. 29  
DATE: 10/24/92

**CLARIFIER GENERAL ARRANGEMENT SECTIONS / DETAILS**  
RIDGE MANOR SUBREGIONAL WASTEWATER TREATMENT PLANT

SHEET 29  
OF 108 SHEETS  
8977

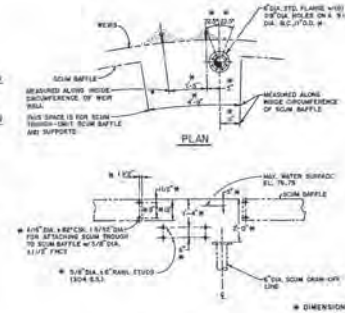


**SCUM BAFFLE INSTALLATION**  
SCALE: N.T.S.

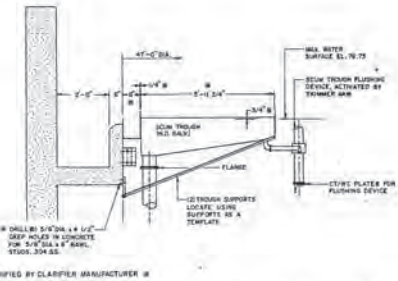


SEE SHEET (24) FOR LOCATION OF INFLUENT, SCUM DRAW-OFF, SLUDGE DRAW-OFF AND EFFLUENT PIPING.

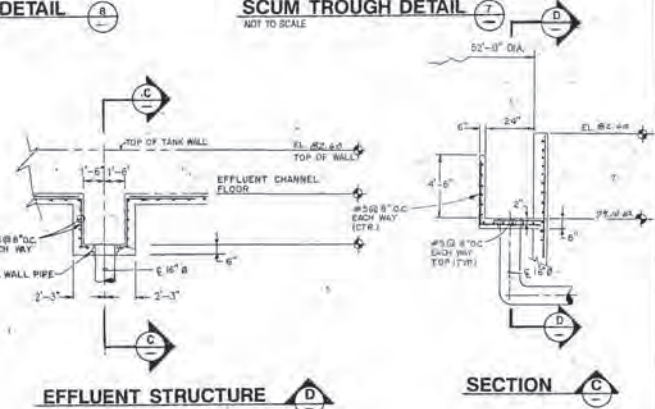
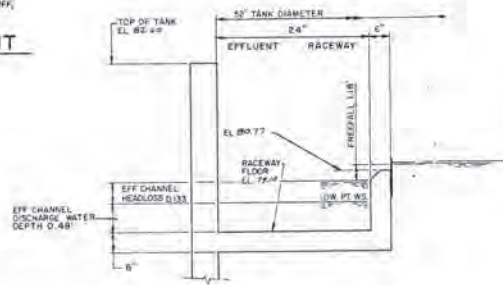
**GENERAL ARRANGEMENT**  
NOT TO SCALE



**SCUM BOX DETAIL**  
NOT TO SCALE



**SCUM TROUGH DETAIL**  
NOT TO SCALE



**EFFLUENT STRUCTURE**

**SECTION**

**CONTRACTOR NOTE:**  
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**McCarthy and Associates, Inc.**  
CONSULTING ENGINEERS  
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COASTAL ENGINEERING ASSOCIATES, INC.  
"RECORD DRAWINGS"  
I hereby certify that these Record Drawings were prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer in the State of Florida. I am the author of the design and the design is original and not a copy of any other design.  
FIELD ENGINEER: *[Signature]*  
P. E. No. 30654

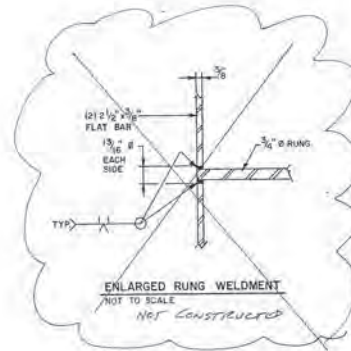
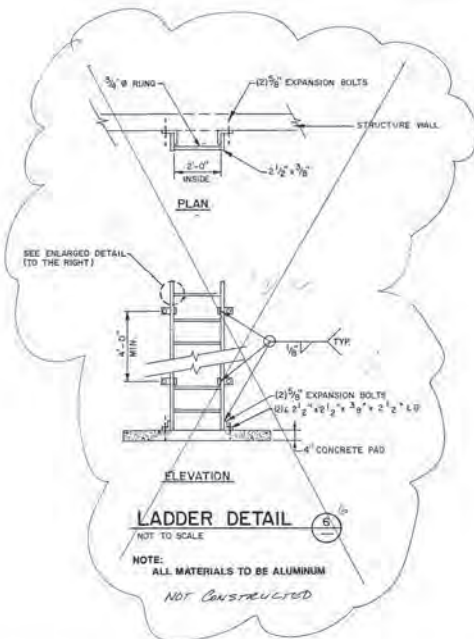
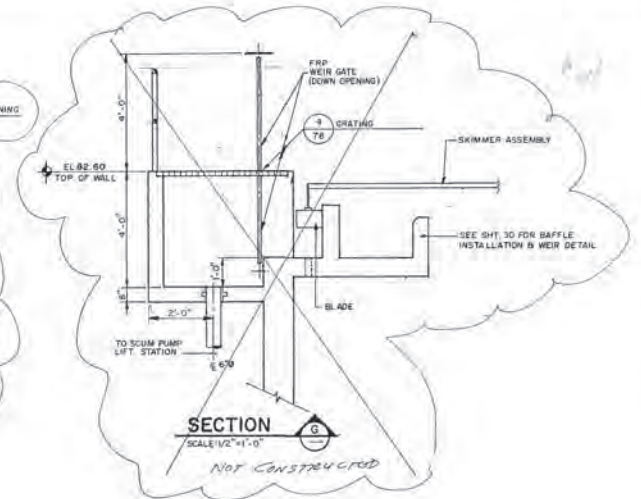
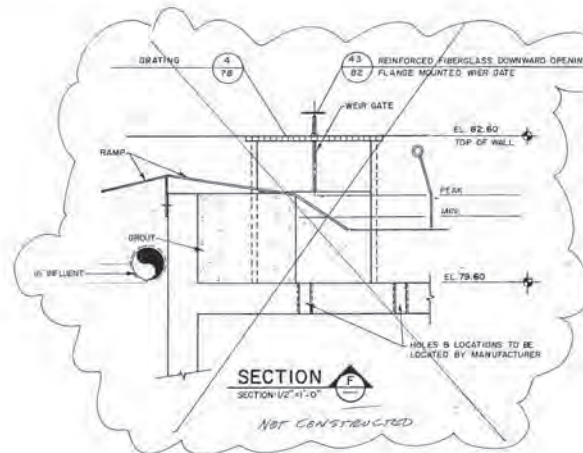
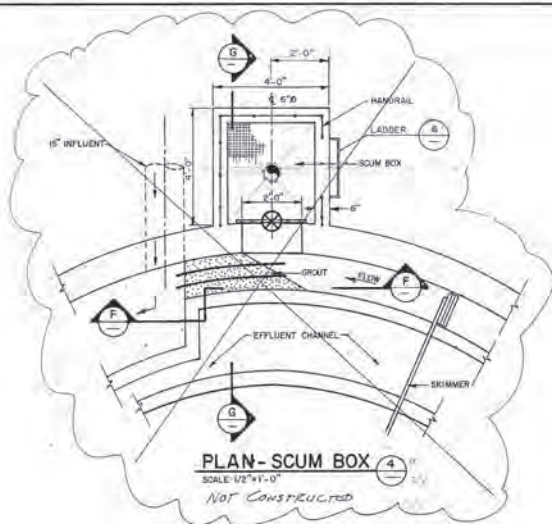


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TEL. (813) 799-8825 FAX (813) 799-8828

DESIGNED BY: P.E.M. DRAWN BY: M.R.G. CHECKED BY: G.E.H. DATE: 11/19/81  
APPROVED BY: P.E.M. DATE: 11/19/81

**CLARIFIER SECTIONS & DETAILS**  
**RIDGE MANOR SUBREGIONAL WASTEWATER TREATMENT PLANT**

SHEET  
**30**  
OF 108 SHEETS  
11-8977



"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all legitimate changes and all work completed during the construction process. They are based upon fieldwork, plans, drawings and other information furnished to the Engineer by the Contractor, and show the completed construction to the best of my knowledge and belief.  
FIELD ENGINEER: \_\_\_\_\_  
P. E. No. 36884

DATE	REV. BY	APP. BY	REL. NO.	REV. NO.	REVISION
7.8.79	L.P.P.				AS-BUILT (CLOSED)

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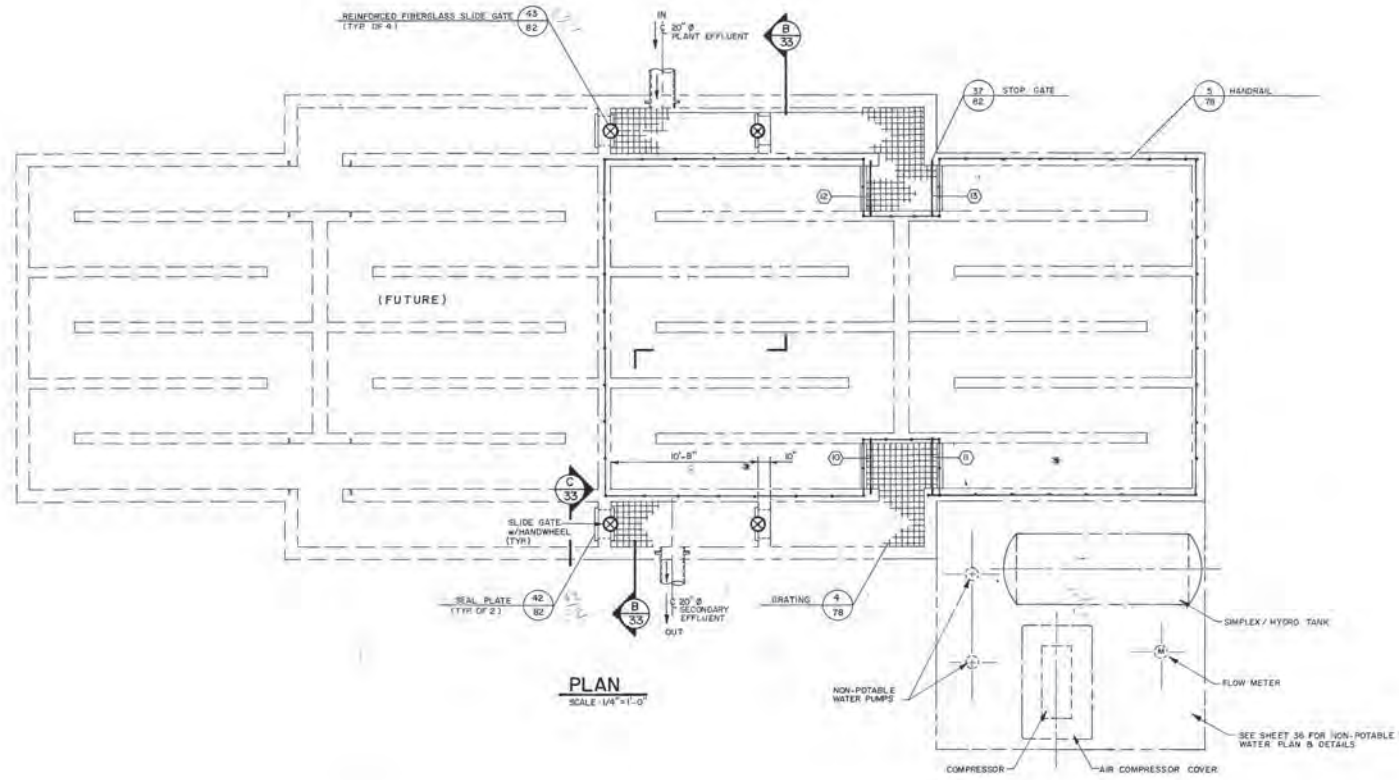


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BROOKSVILLE, FLORIDA 34601  
TEL (904) 798-8423 FAX (904) 798-8359

DESIGNED BY: P.E. M. ...  
CHECKED BY: ...  
DRAWING SCALE: AS SHOWN ON THE DRAWING  
P. E. No. 36884

**CLARIFIER DETAILS**  
**RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT**

**SHEET**  
**31**  
OF 108 SHEETS  
NO. 8977



**PLAN**  
SCALE: 1/4" = 1'-0"

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are based upon the latest as-built drawings and other information furnished to the Engineer, and I am not responsible for any errors or omissions on the part of my knowledge and belief.  
FIELD ENGINEER: [Signature]  
P. E. No. 25524

DATE	REV. BY	APP. BY	P.L. NO.	REV. NO.	REVISION

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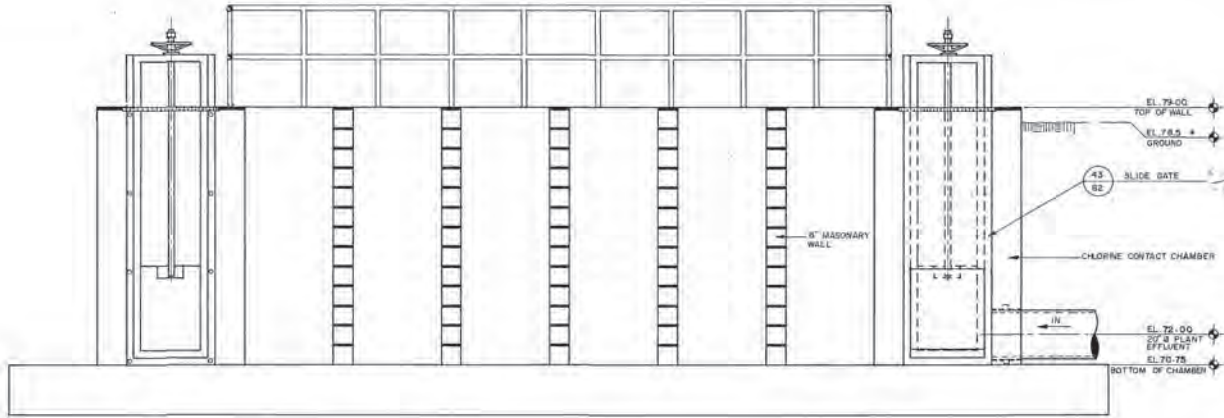
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BROOKSVILLE, FLORIDA 34601  
TEL (904) 788-8423 FAX (904) 788-8259

DESIGN SHALL UNLESS SPECIFICALLY NOTED BY A REVISION OR OTHERWISE INDICATED

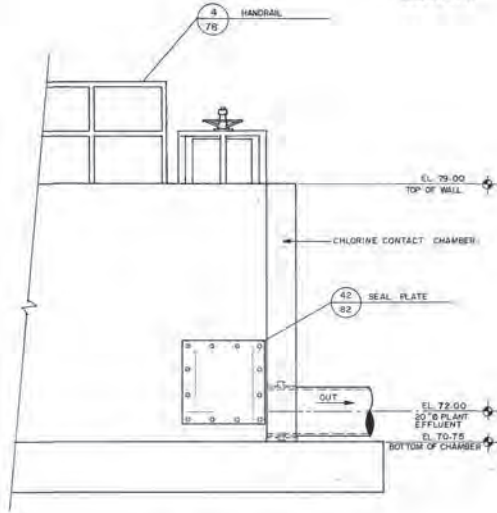
**CHLORINE CONTACT CHAMBER PLAN**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

SHEET  
**32**  
OF 108 SHEETS  
8977





SECTION B  
SCALE: 1/2" = 1'-0"



SECTION C  
SCALE: 1/2" = 1'-0"

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all changes and additions approved during the construction process. They are issued upon receipt of plans, drawings and other information furnished to the Engineer by the Contractor, and when the approved construction is the work of the Contractor and his subcontractors.  
FIELD ENGINEER: [Signature]  
P. E. No. 36257

DATE	REV. BY	APP. BY	FE. No.	REV. No.	REVISION

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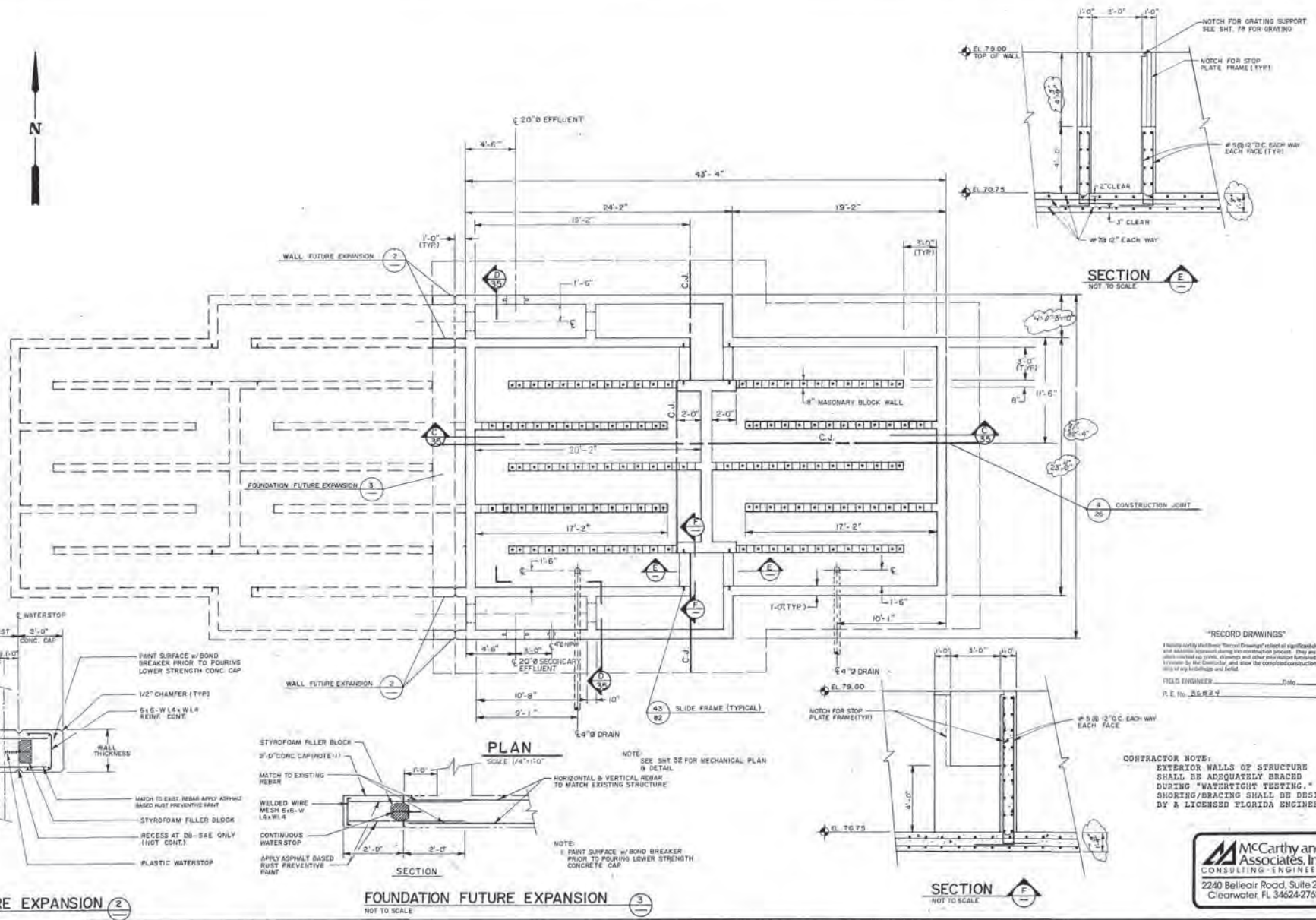
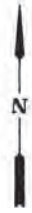


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BROOKSVILLE, FLORIDA 34601  
TEL (804) 788-8423 FAX (804) 788-8359  
DESIGN BY: T.E.M. DRAWN BY: M.B.D. CHECKED BY: G.E.H. DATE: 10/13/98

STANDARD WEIGHT SAFETY SHEETS, MADE IN U.S.A. BY HANSON SAFETY PAPER CO.

**CHLORINE CONTACT CHAMBER SECTIONS  
(MECHANICAL)**  
RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

SHEET  
**33**  
OF 108 SHEETS  
8977



**"RECORD DRAWINGS"**  
 I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are based upon contract documents, plans, drawings and other information furnished to the Engineer by the Contractor and shall be the responsibility of the Contractor.

FIELD ENGINEER: \_\_\_\_\_ Date: \_\_\_\_\_  
 P. E. No. 26,824

**CONTRACTOR NOTE:**  
 EXTERIOR WALLS OF STRUCTURE SHALL BE ADEQUATELY BRACED DURING "WATERTIGHT TESTING". SHORING/BRACING SHALL BE DESIGNED BY A LICENSED FLORIDA ENGINEER.

**McCarthy and Associates, Inc.**  
 CONSULTING ENGINEERS  
 2240 Belleair Road, Suite 250  
 Clearwater, FL 34624-2762

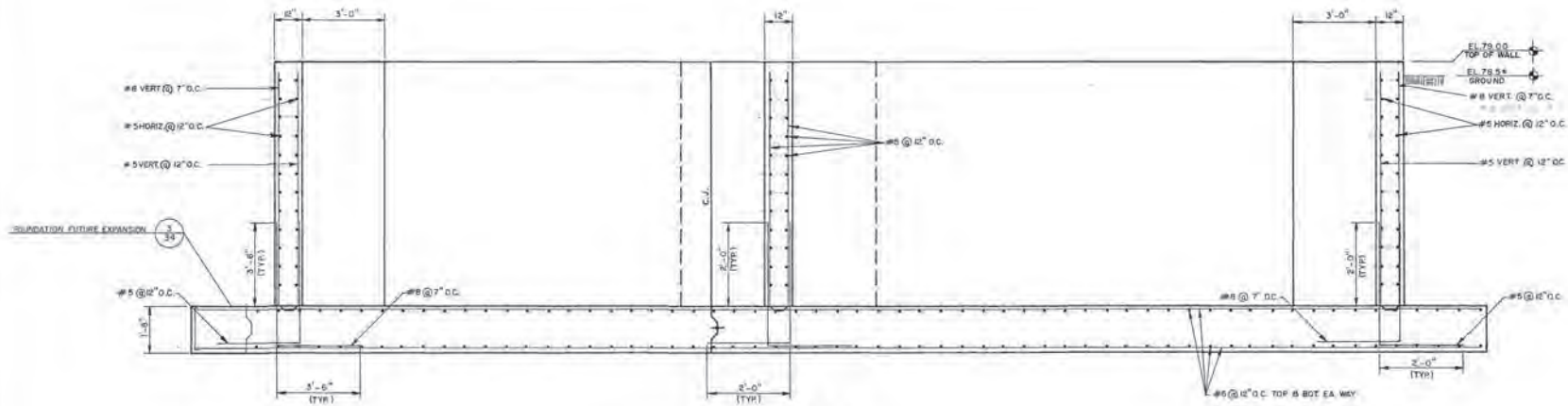
DATE	REV.	BY	CHK.	REV.	REVISION
8-2-82	1	J.S.			AS-BUILT <del>SHOWN</del>

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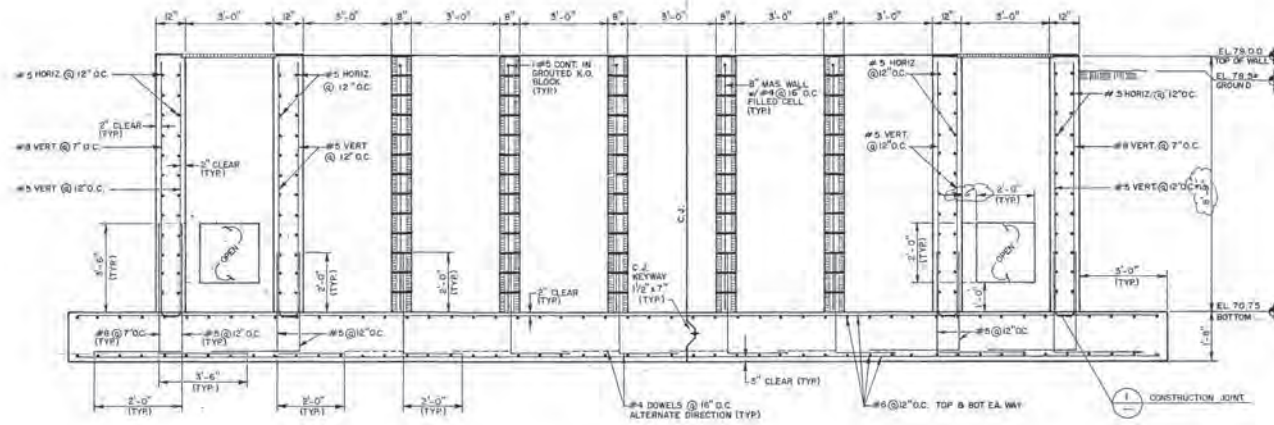
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**CHLORINE CONTACT CHAMBER PLAN (STRUCTURAL)**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

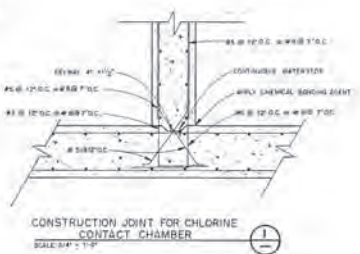
SHEET  
**34**  
 OF 108 SHEETS  
 8977



SECTION C  
SCALE: 1/2" = 1'-0"



SECTION D  
SCALE: 1/2" = 1'-0"



CONSTRUCTION JOINT FOR CHLORINE CONTACT CHAMBER  
SCALE: 1/2" = 1'-0"

"RECORD DRAWINGS"

I hereby certify that these "Record Drawings" reflect all legitimate changes and additions approved during the construction process. They do not depict work omitted or work, materials and other information furnished by the Contractor to the Contractor, and show the construction as constructed to the best of my knowledge and belief.

FIELD ENGINEER: \_\_\_\_\_ Date: \_\_\_\_\_  
P.E. No. 36834

CONTRACTOR NOTE:  
EXTERIOR WALLS OF STRUCTURE SHALL BE ADEQUATELY BRACED DURING "WATERIGHT TESTING." SHORING/BRACING SHALL BE DESIGNED BY A LICENSED FLORIDA ENGINEER.

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CONSULTING ENGINEERS  
2240 Belleair Road, Suite 250  
Clearwater, FL 34624-2762

DATE	REV. BY	APP. BY	PL. No.	REV. No.	REVISION
8-3-82	L.P.J.				AS-BUILT DRAWING

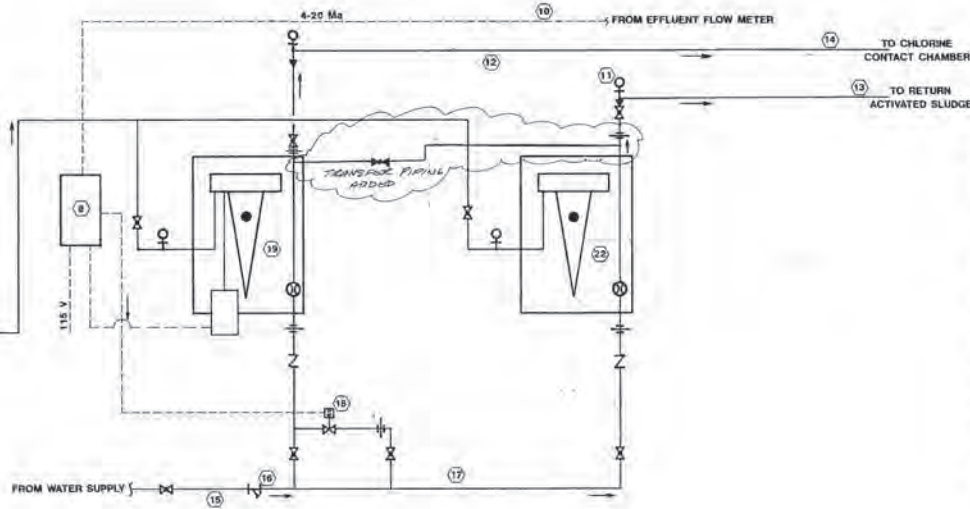
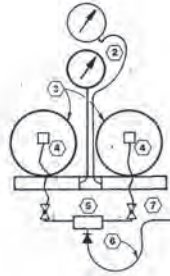
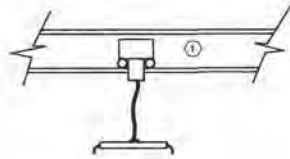
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**CHLORINE CONTACT CHAMBER SECTION (STRUCTURAL)**  
RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT

SHEET  
**35**  
OF 108 SHEETS  
8977



- PRESSURE GAGE
- ▽ GATE VALVE
- ⊕ URON
- ⊕ SOLENOID VALVE
- ▽ BALL VALVE
- ∟ CHECK VALVE
- ∟ STRAINER
- ① MONORAIL WITH HOIST AND TON CYLINDER LIFTING BAH.
- ② TWO (2) TON CYLINDER SCALES WITH 4000 LBS. DIAL TARE.
- ③ TON CYLINDER OF CHLORINE
- ④ AUTOMATIC SWITCH OVER VACUUM REGULATOR - CHECK UNIT WITH TON CONTAINER MOUNTING KIT
- ⑤ 5/8" AUTO SWITCHOVER MODULES WITH POLYETHYLENE TUBING CONNECTIONS.
- ⑥ 1" SCH 80 PVC PIPE
- ⑦ 1/2" PVC BALL VALVE WPT
- ⑧ FLOW PROPORTIONAL CONTROLLER WALL MOUNTED
- ⑨
- ⑩ 4-20 Ma SIGNAL FROM FLOW METER
- ⑪ CHLORINE SOLUTION PRESSURE GAGE, 0-30 PSI
- ⑫ 1 1/2" SCH 80 PVC CHLORINE SOLUTION LINE
- ⑬
- ⑭ 1 1/2" PVC CHLORINE SOLUTION LINE TO RETURN ACTIVATED SLUDGE
- ⑮ 1 1/2" PVC CHLORINE SOLUTION LINE TO CHLORINE CONTACT CHAMBER
- ⑯ 1 1/2" WATER SUPPLY LINE
- ⑰ 1 1/2" WYE STRAINER
- ⑱ 1 1/2" INJECTOR WATER LINES
- ⑲ 1 1/2" NC SOLENOID VALVE (115V, 1Ø)
- ⑳ WALL MOUNTED CHLORINATOR WITH 50 LBS./DAY ROTAMETER FOR INITIAL OPERATION. TOTAL CAPACITY 500 LBS./DAY. (EFFLUENT CHLORINATION, FLOW FACED.)
- ㉑ WALL MOUNTED MANUAL RATE METER WITH 50 LBS./DAY ROTAMETER. (RAS CHLORINATION)
- Ⓐ PROVIDE SPARE ROTAMETERS FOR FUTURE EXPANSION
- Ⓑ EFFLUENT UNIT TO OPERATE ON MANUAL BY SWITCHING THE AUTO CONTROL OFF AT THE FLOW PROPORTIONAL CONTROLLER.

"RECORD DRAWINGS"

I hereby certify that these "Record Drawings" reflect all significant changes and include equipment during the construction phase. They are based upon manufacturer's prints, drawings and other information furnished to the Engineer by the Contractor, and show the completed construction to the best of my knowledge and belief.

FIELD ENGINEER *[Signature]*  
P. E. No. 25624

DATE	REV. BY	REV. BY	REV. BY	REVISION
7-31-72	L.P.P.			AS-BUILT (REQUIRED)

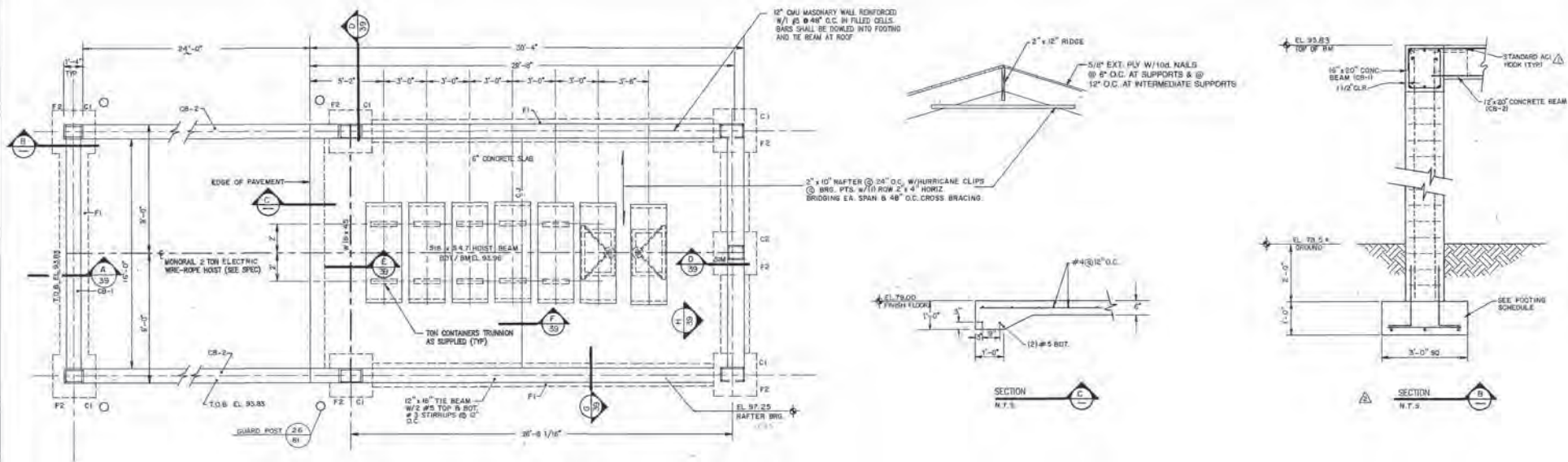
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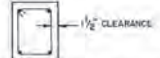
**Coastal Engineering Assoc., Inc.**  
ENGINEERING • PLANNING  
ENVIRONMENTAL • SURVEYING  
966 CANDELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL. (804) 768-1823 FAX (804) 798-8338  
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**SCHEMATIC CHLORINATION SYSTEM**  
**RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT**

SHEET  
**37**  
OF 108 SHEETS  
8977



CHLORINATION FACILITY PLAN  
SCALE: 1/4"=1'-0"



COLUMN SCHEDULE					
MARK	SIZE	REINF.	VERT.	TIES	REMARKS
C1	12" x 12"	4 #7	#5 @ 12" O.C.		
C2	12" x 12"	4 #6	#5 @ 12" O.C.		

CONCRETE BEAM SCHEDULE				
MARK	SIZE	REINF.		REMARKS
		CONT. BARS	STIRRUPS	
CB-1	16" x 20"	5 #6 TOP & BOT	#5 @ 6" O.C.	
CB-2	12" x 20"	5 #5 TOP & BOT	#5 @ 6" O.C.	
T-1B1	12" x 16"	2 #5 TOP & BOT	#5 @ 12" O.C.	

FOOTING SCHEDULE				
MARK	SIZE	DEPTH	REINF. EA. WAY	REMARKS
F1	2'-0" CONT.	12"	2 #5 CONT.	HALL FTG.
F2	5'0" x 5'0"	12"	3 #5	

- FOUNDATION PLAN NOTES:
- 1) SLAB TO BE 6" THICK WITH #4 @ 12" EACHWAY ON & MIL. VAPOR BARRIER.
  - 2) TOP OF SLAB = 79.00 U.L.O.  
TOP OF FOOTING = 77.00 U.L.O.
  - 3) CENTER ALL FOOTINGS BELOW WALL/COLUMN.
  - 4) ALL FOOTING REINFORCEMENT TO BE BOTTOM BARS.
  - 5) SOIL UNDER BUILDING SLAB TO BE TREATED FOR TERMITES PROTECTION IN ACCORDANCE WITH SECTION 1703.1.2 OF THE STANDARD BUILDING CODE.
  - 6) SEE DETAIL (H/30) FOR CONG. BEAM REINFORCING.

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" were prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Florida. I am the author of the design and calculations shown hereon and I am not aware of any falsification of the data of any drawings and seal.

FIELD ENGINEER: \_\_\_\_\_ Title: \_\_\_\_\_  
P. E. No. 36,000, V.

**McCarthy and Associates, Inc.**  
CONSULTING ENGINEERS  
2240 Belleair Road, Suite 250  
Clearwater, FL 34624-2762

DATE	REV. BY	APP. BY	P.E. No.	REV. No.	REVISION
7/9/91	B.A.W.	G.E.H.	16948	1	ADDENDUM NO. 1
7/27/92	B.A.W.	G.E.H.	16948	2	REVISED BEAM CB-2 LOCATION

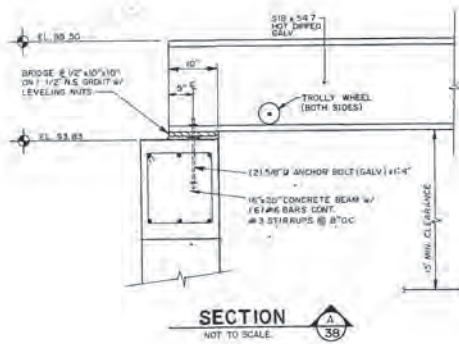
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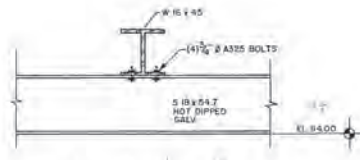
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**CHLORINATION FACILITY  
(STRUCTURAL)**  
**RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT**

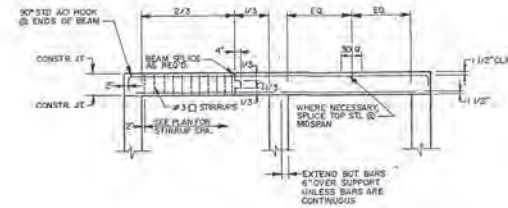
SHEET  
**38**  
OF 108 SHEETS  
8977



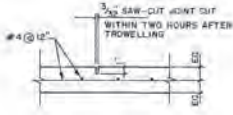
**SECTION A-38**  
NOT TO SCALE



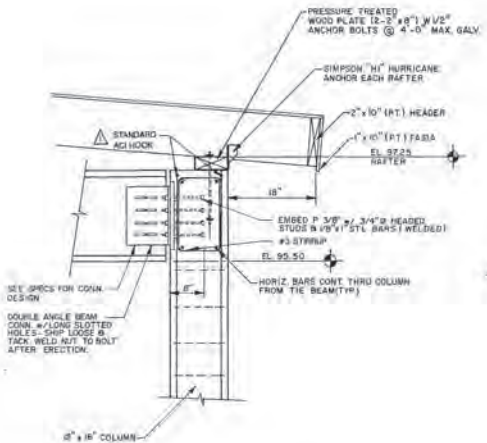
**SECTION E-38**  
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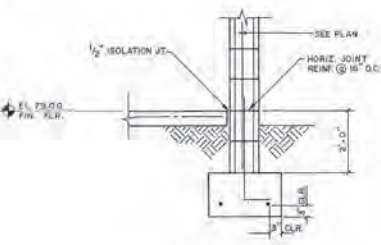
**CONC. BEAM REINF. H-38**  
NOT TO SCALE



**CONTROL JOINT F-38**  
(NOTED 'CJ' ON PLAN NOT TO SCALE FOR CHLORINATION FACILITY ONLY)



**SECTION J-38**  
NOT TO SCALE



**WALL FOOTING G-38**  
NOT TO SCALE

**"RECORD DRAWINGS"**

"I hereby certify that these 'Record Drawings' reflect all significant changes and additions approved during the construction process. They are limited only to matters of price, quantity and other information furnished to the Engineer by the Contractor, and shall not constitute a modification to the final set of drawings and plans."  
FIELD ENGINEER: \_\_\_\_\_  
P. E. No. 36,425,4

**McCarthy and Associates, Inc.**  
CONSULTING ENGINEERS  
2240 Belisair Road, Suite 250  
Clearwater, FL 34624-2762

DATE	REV. BY	REV. NO.	REV. DATE	REVISION
7-9-91	BA.W	GEH	10/98	ADDENDUM NO. 1

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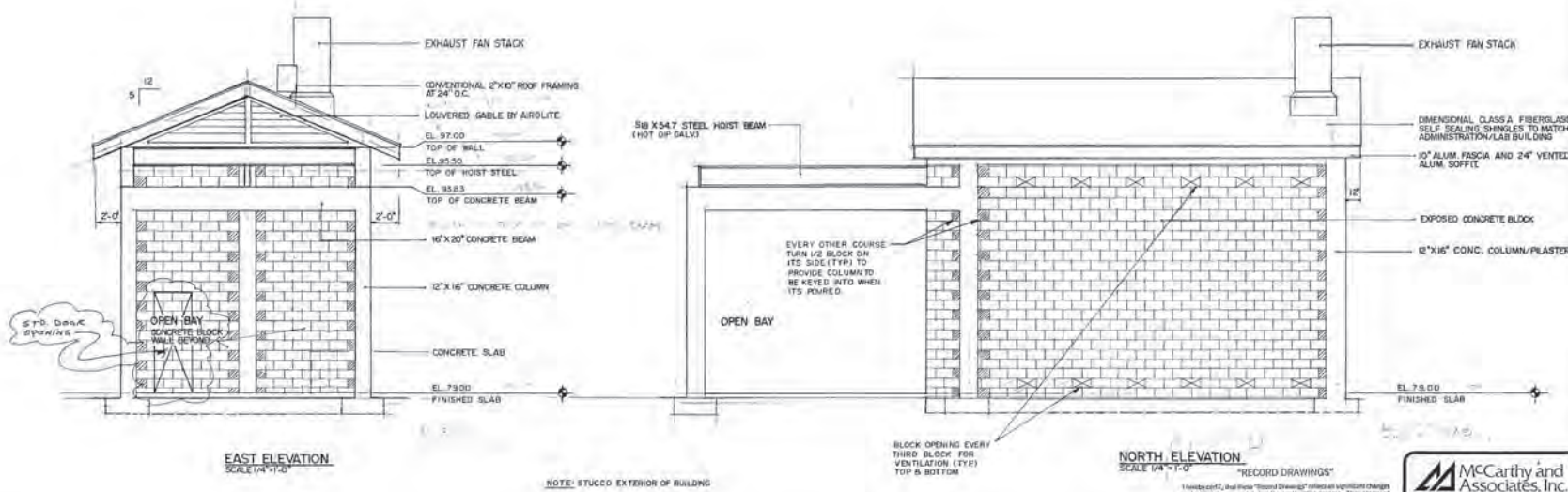
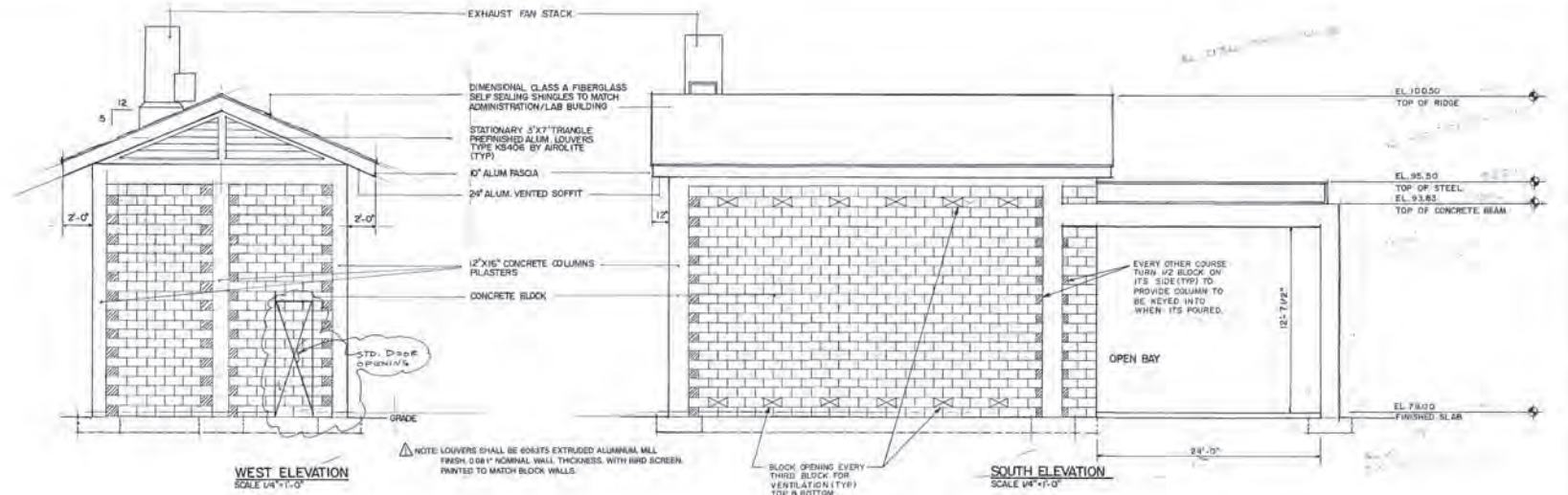


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BROOKSVILLE, FLORIDA 34601  
TEL (904) 796-8423 FAX (904) 796-8339

DATE PLOTTED: 11/11/98  
DRAWN BY: JRM  
CHECKED BY: JRM  
DATE: 11/11/98

**CHLORINATION FACILITY DETAILS (STRUCTURAL)**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET 39**  
OF 108 SHEETS  
8977



NOTE: STUCCO EXTERIOR OF BUILDING

RECORD DRAWINGS

I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are based upon field-verified points, drawings and other information furnished to the Engineer by the Contractor, and since the completed construction to the face of the masonry, and steel.

FIELD ENGINEER: *[Signature]*  
P. E. No. 36624

**McCarthy and Associates, Inc.**  
CONSULTING ENGINEERS  
2240 Belleair Road, Suite 250  
Clearwater, FL 34624-2762

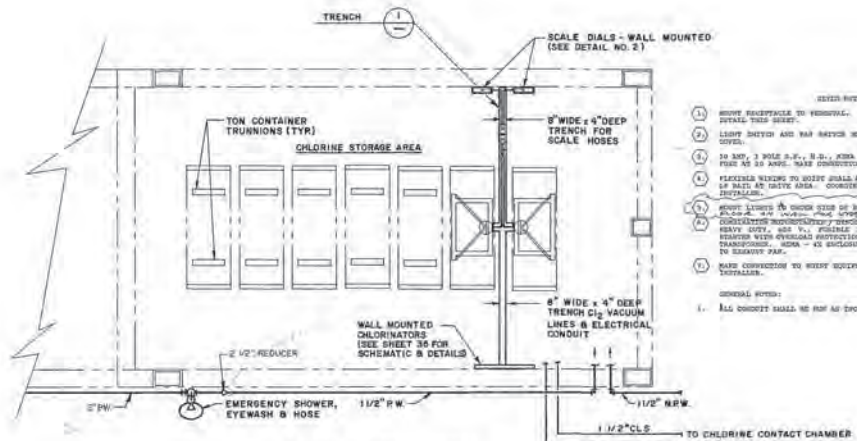
DATE	BY	APP. BY	REV. No.	REV. No.	REVISION
7-9-91	B.A.W.	G.E.H.	18948	1	ADDENDUM NO. 1
7-5-91	L.A.S.				AS-BUILT (CLEAN)

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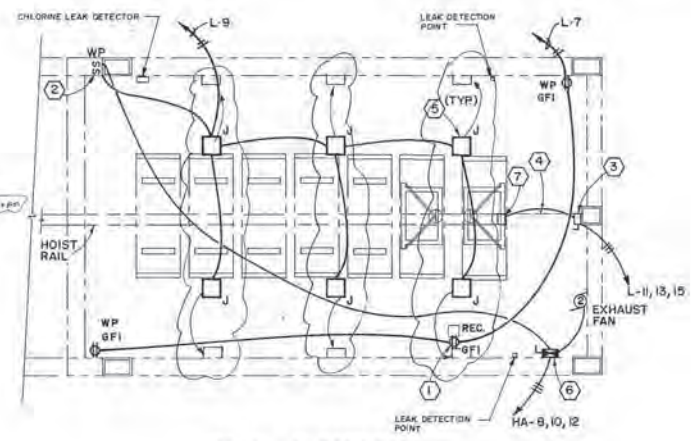
**CHLORINATION FACILITY DETAILS**  
ELEVATIONS  
**RIDGE MANOR WEST SUBREGIONAL**  
WASTEWATER TREATMENT PLANT

SHEET  
**40**  
OF 108 SHEETS  
DATE: 8/97

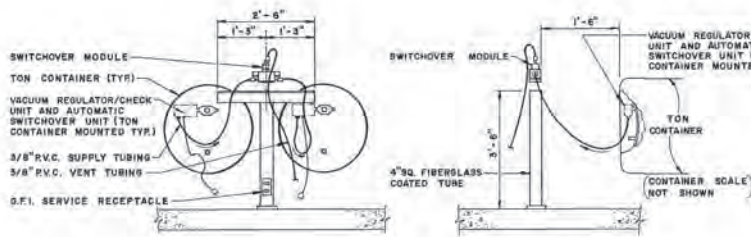


**PLAN - MECHANICAL**  
NOT TO SCALE

- FIELD NOTES**
1. SHOW FACEPLATE TO VENTURIL. SEE THE CORRELATED CONNECTION DETAIL THIS SHEET.
  2. LIGHT SWITCH AND PAIR SWITCH MUST BE WEATHERPROOF AND GFI.
  3. ON ANY 2 POLE S.P., N.E. KIND OF FUSIBLE DISCONNECT SWITCH, FUSE AS IS TYPE. MAKE CONNECTION TO RIGHT.
  4. FLEXIBLE HOSE TO MOTOR SHALL ALLOW MOTOR TO REACH OUTSIDE OF BLDG AT DRIVE AREA. COORDINATE WITH HOIST MANUFACTURER'S DETAILS.
  5. ABOUT LIGHTS IN TRENCH STOP BY HALVES. 2 1/2" x 3" APPROXIMATE 8" WIDE x 4" DEEP. SEE CONNECTION DETAIL FOR DETAILS.
  6. CONDUITS THROUGH ROOF PENETRATIONS SHALL BE 3/4" WIDE. HEAVY DUTY. USE 1/2" FLEXIBLE DISCONNECT SWITCH. SEE 2. TRENCH WITH OVERHEAD PROTECTION. SEE VENT WITH CONTROL TRANSFORMER. AREA - AS EXCLUDED. MAKE FLEXIBLE CONNECTION TO EXHAUST FAN.
  7. MAKE CONNECTION TO HOIST EQUIPMENT COORDINATE LOCATION WITH INSTALLER.
- GENERAL NOTES:**
1. ALL CONDUIT SHALL BE RIGID EXCEPT WHERE SHOWN OTHERWISE.

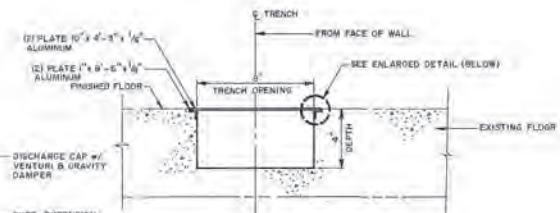


**PLAN - ELECTRICAL**  
NOT TO SCALE

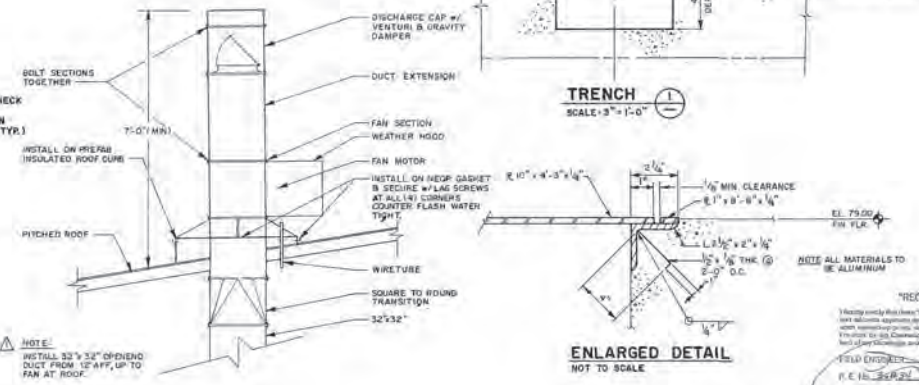


**TON CONTAINER CONNECTION DETAIL**  
NOT TO SCALE

**NOTE:** ALL STEEL CONSTRUCTION SHALL BE FINISHED WITH A CHLORINATED RUBBER PAINT.



**TRENCH**  
SCALE: 3" = 1'-0"



**EXHAUST FAN/STACK DETAIL**  
NOT TO SCALE

**ENLARGED DETAIL**  
NOT TO SCALE

**"RECORD DRAWINGS"**

I hereby certify that these drawings represent the work of the undersigned and that all work shown herein was done by the undersigned or under the direct supervision and control of the undersigned. This work was done in accordance with the provisions and requirements of the Florida Statutes, Chapter 481, and the rules and regulations promulgated by the Board of Professional Engineers and Architects.

FIELD CHECKED BY: *[Signature]* DATE: 2/20/92  
P.E. No. 35824

**ENGINEERING MATRIX, INC.**  
MANORWAY BAY OFFICE CENTER  
1725 U.S. 90 SOUTH  
CORPORATE PARKWAY, FLORIDA 34424  
(813) 533-0500 (813) 271-9138

DATE	REV.	BY	CHK.	APP.	REVISION
7-10-91	B.A.W.	G.E.H.	16948		ADDENDUM NO 2
7-20-92	A.F.J.				APP. SHEET (2/20/92)

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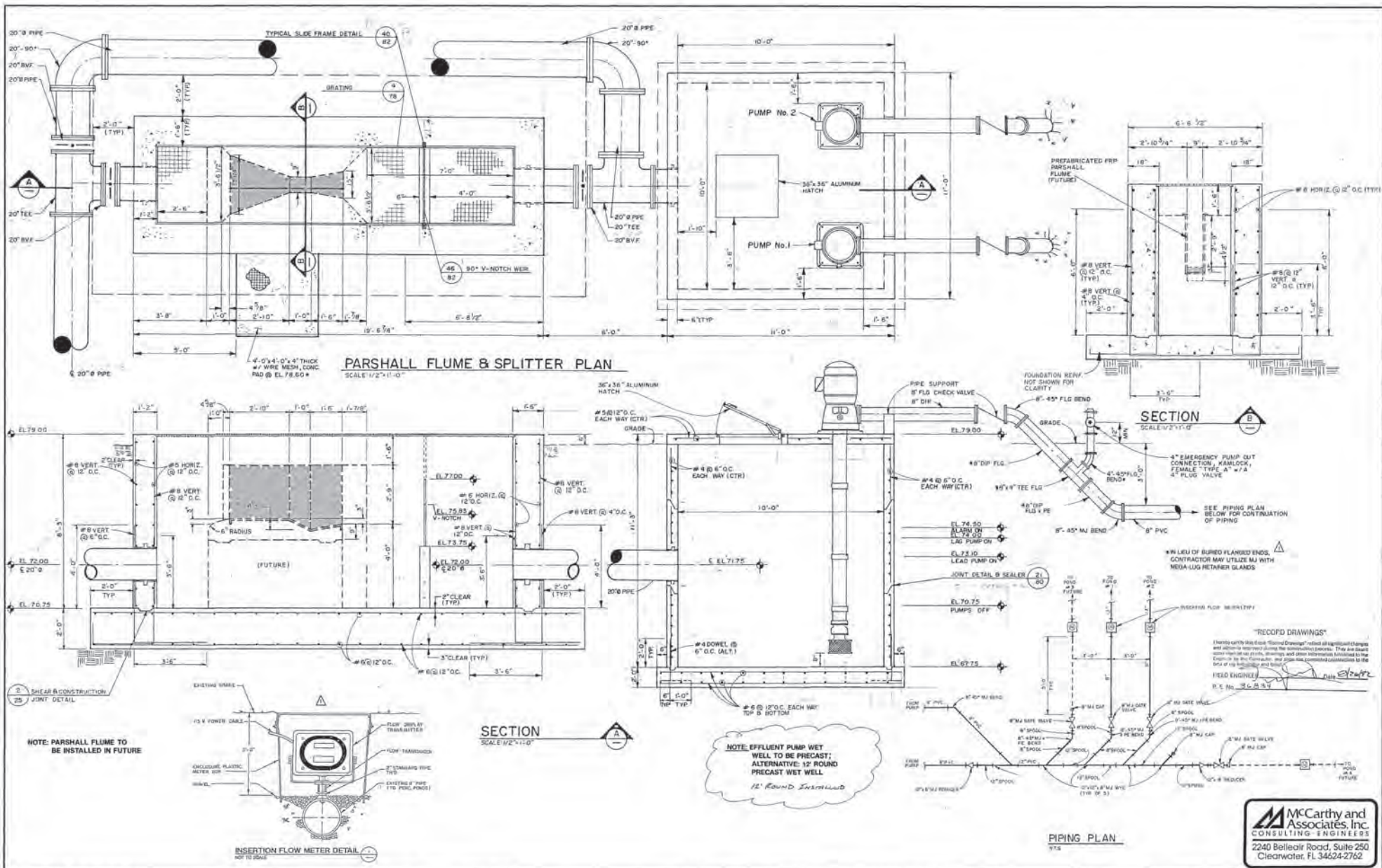
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BROOKSVILLE, FLORIDA 34601  
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**CHLORINATION FACILITY MECHANICAL & ELECTRICAL**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET 41**  
OF 108 SHEETS  
8977





**PARSHALL FLUME & SPLITTER PLAN**  
SCALE 1/2" = 1'-0"

**SECTION**  
SCALE 1/2" = 1'-0"

**SECTION**  
SCALE 1/2" = 1'-0"

**PIPING PLAN**  
SCALE 1/2" = 1'-0"

NOTE: PARSHALL FLUME TO BE INSTALLED IN FUTURE

NOTE: EFFLUENT PUMP WELL TO BE PRECAST; ALTERNATIVE 12" ROUND PRECAST WELL 12" ROUND INSTALL

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all legal changes and amendments to the original drawings, and that I am a duly Licensed Professional Engineer in the State of Florida. I am not responsible for any errors or omissions in the original drawings, and I am not responsible for any errors or omissions in the original drawings, and I am not responsible for any errors or omissions in the original drawings.

DATE	REV. BY	REV. NO.	REV. NO.	REVISION
7-9-91	BAW	GEH	16948	ADDENDUM NO. 1
7-5-91	LRF			AS-BUILT (RECORD)

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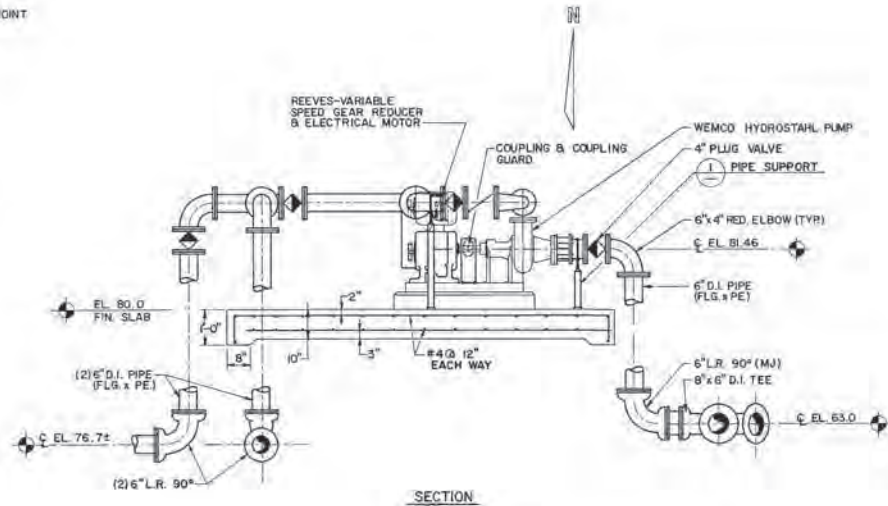
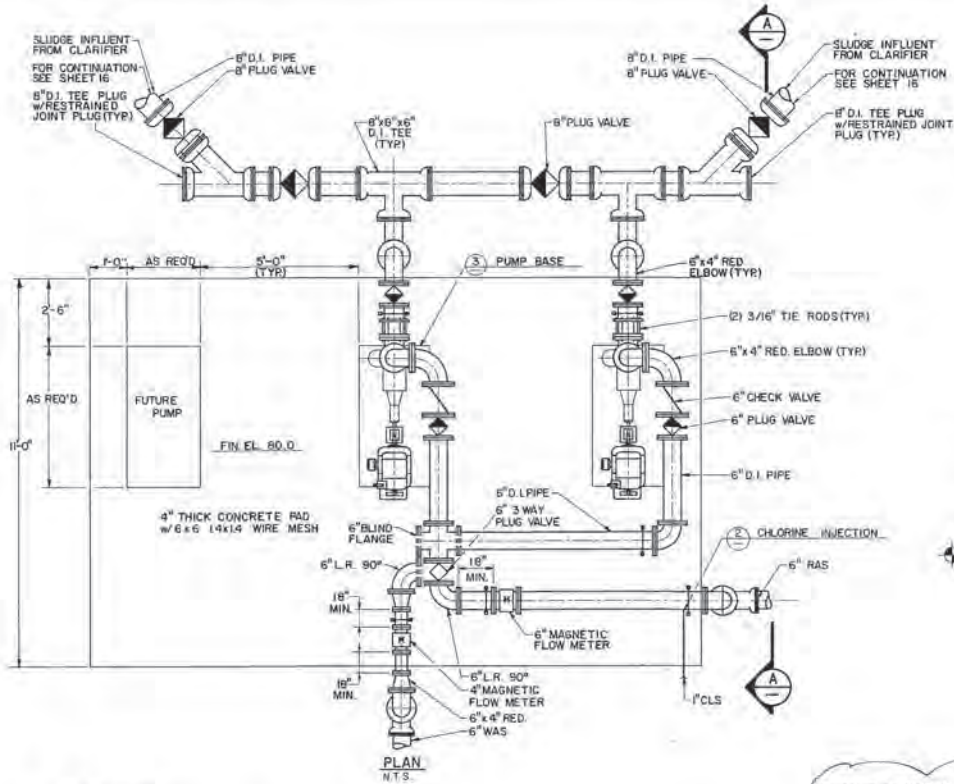
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BROOKSVILLE, FLORIDA 34601  
TEL. (904) 798-8423 FAX (904) 798-8309

**McCarthy and Associates, Inc.**  
CONSULTING ENGINEERS  
2240 Belleair Road, Suite 250  
Clearwater, FL 34624-2762

**EFFLUENT FLOW MEASUREMENT & EFFLUENT PUMPS**

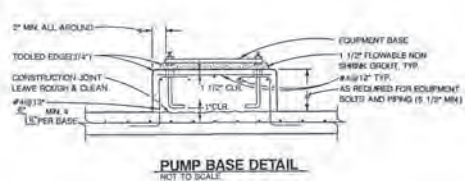
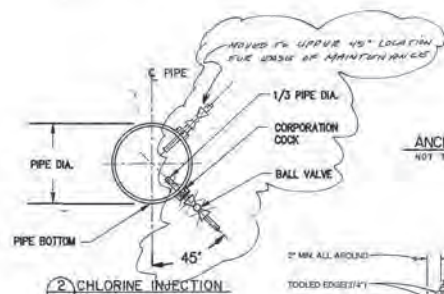
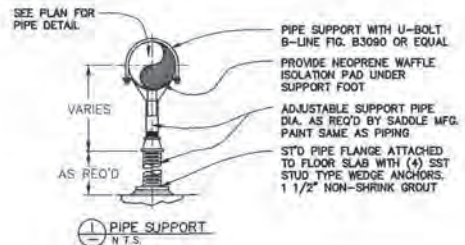
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET 42**  
OF 108 SHEETS  
8977



PUMP NO.	G.P.M.	T.D. ft.
1	520	27
2	520	27
3(FUTURE)	780	55

NOTE: PUMP NO. 3 IS NOT TO BE PROVIDED UNDER THIS CONTRACT.



- NOTES
- DIMENSIONS ARE NOT FOR INSTALLATION PURPOSE UNLESS CERTIFIED BY PUMP MANUFACTURER.
  - ALL ANCHOR BOLTS SHALL BE EMBEDDED IN CONCRETE.
  - PUMPS NO.1 AND NO.2 SHALL BE WEMCO HYDROSTAHL MODEL D4K-LT WITH REEVES VARI-SPEED MOTOR DRIVE.
  - ALL ABOVE GRADE PIPE SHALL BE D.I.R.
  - ALL ABOVE GRADE PLUG VALVES SHALL HAVE LEVER ACTUATORS.
  - BELOW GRADE PLUG VALVES SHALL HAVE 2" SQUARE OPERATING NUT WITH EXTENSION STEM AND VALVE BOX.
  - ECCENTRIC PLUG VALVE
  - PLUG VALVE

"RECORD DRAWINGS"  
 I hereby certify that these "Record Drawings" reflect all engineering changes and material amendments during the construction process. They are based upon actual site photos, surveys and other information furnished to me by the Contractor, and shall be the property of Coastal Engineering Associates, Inc. FIELD ENGINEER  
 P. E. No. 35824

DATE	REV.	BY	CHK.	REV.	REVISION
8/91	P.E.M.	G.E.H.	16948		CHANGED TYPE OF PUMP STATION
8/10	L.J.T.				AS BUILT CLOUDED

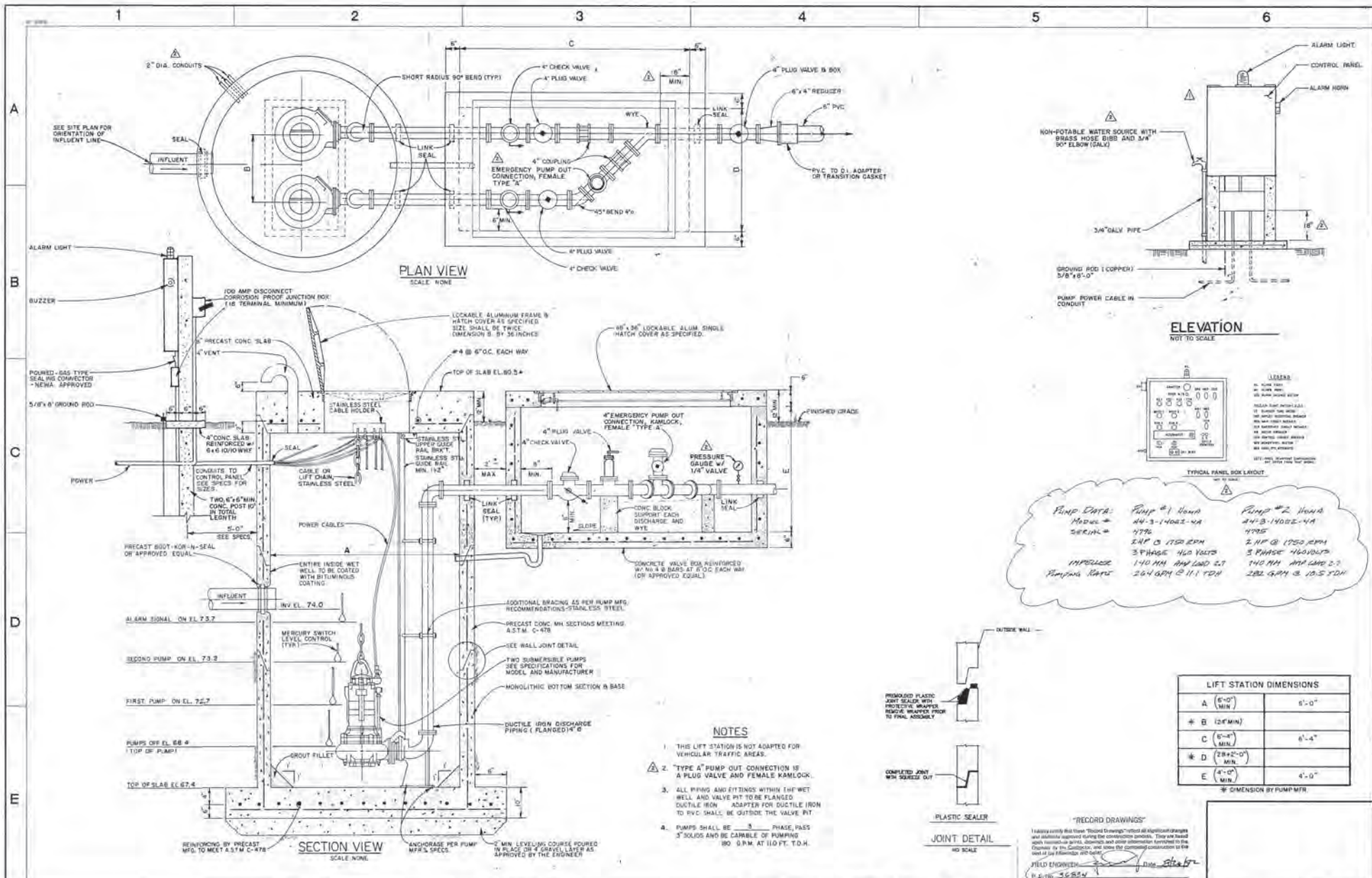
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 BROOKSVILLE, FLORIDA 34601  
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RAS / WAS PUMP STATION  
 RIDGE MANOR WEST SUBREGIONAL  
 WASTEWATER TREATMENT PLANT

SHEET  
 43  
 OF 108 SHEETS  
 8977



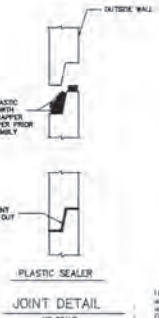
**PUMP DATA:**

	PUMP #1 1/2 HP	PUMP #2 1/2 HP
Model	44-3-1402-4A	44-3-1402-4A
SERIAL	4796	4795
IMP	3 1/2" @ 1750 RPM	2 1/2" @ 1750 RPM
3 PHASE	460 VOLTS	3 PHASE 460 VOLTS
IMPULSE	1-10 MM AMP LWD 2.7	1-10 MM AMP LWD 2.7
Pumping Rate	264 GPM @ 11.1 TDH	282 GPM @ 10.5 TDH

Dimension	Value	Value
A	6'-0" MIN	6'-0"
B	24" MIN	
C	6'-0" MIN	6'-4"
D	28+2'-0" MIN	
E	6'-0" MIN	4'-0"

\* DIMENSION BY PUMP MFR

- NOTES**
- THIS LIFT STATION IS NOT ADAPTED FOR VEHICULAR TRAFFIC AREAS.
  - TYPE 'A' PUMP OUT CONNECTION IS A PLUG VALVE AND FEMALE KAMLOCK.
  - ALL PIPING AND FITTINGS WITHIN THE WET WELL AND VALVE PIT TO BE FLANGED DUCTILE IRON - ADAPTER FOR DUCTILE IRON TO PVC SHALL BE OUTSIDE THE VALVE PIT.
  - PUMPS SHALL BE 3 PHASE, PASS 3" SOLIDS AND BE CAPABLE OF PUMPING 80 G.P.M. AT 11.0 FT. T.O.H.



"RECORD DRAWINGS"

I hereby certify that these "Record Drawings" reflect all significant changes and additions suggested during the construction period. They are based upon the contract, all plans, drawings and other information furnished to the Contractor by the Consultant, and show the corrected construction to the field as approved and indicated.

FIELD ENGINEER: [Signature] DATE: [Date]

DATE	REV. BY	DESCRIPTION	DATE	REV. BY	DESCRIPTION
7-9-91	B.A.W./G.E.H.	ADDENDUM NO. 1			
9-23-91	M.C.H./G.E.H.	MISC. CHGS. & ADDNS.			
2-17-92	L.P.S.	AS BUILT (FLOW CO)			



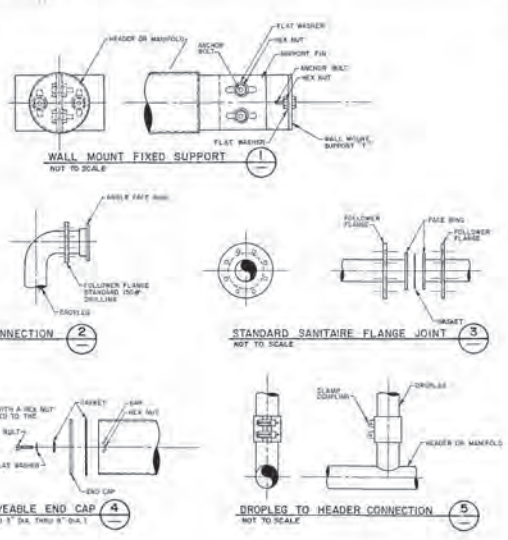
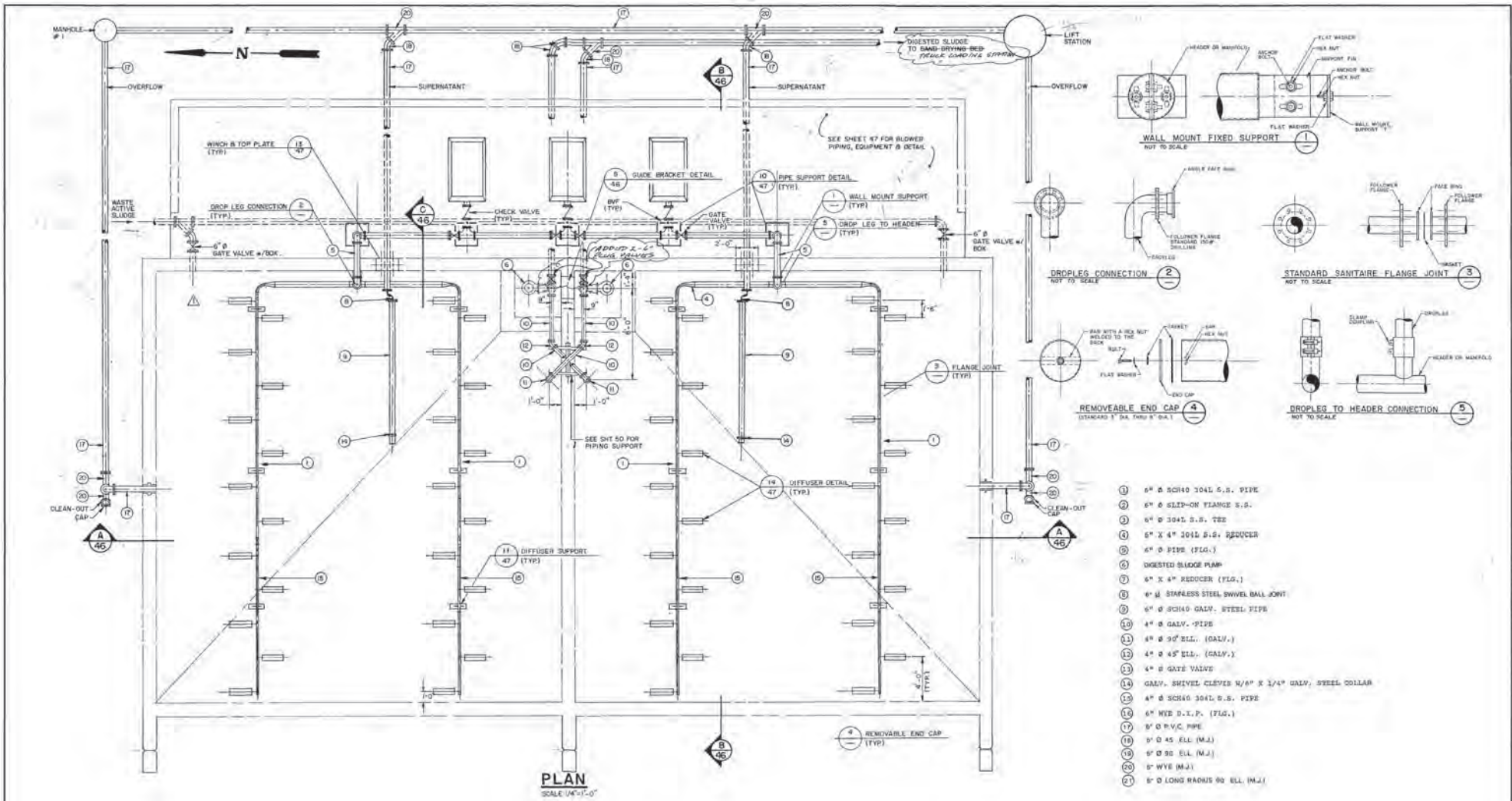
**Coastal Engineering Associates, Inc.**  
CONSULTING ENGINEERS

968 CANDLELIGHT BLVD.  
BROOKSVILLE, FL 34601  
TELEPHONE (804) 796-9423

**SCUM PUMP LIFT STATION**

RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

**SHEET**  
44  
OF 108 SHEETS  
8977



"RECORD DRAWINGS"  
Having care'd that these "Record Drawings" reflect all applicable changes and additions approved by the applicable authority. They are issued upon request to provide drawings and other information furnished to the Engineer by the Client and shall remain the property of the Engineer.  
FIELD ENGINEER: [Signature] 8/20/92  
P. E. No. 38824

DATE	REV. BY	REV. NO.	REVISION
7-25-91	BAW/GEH	16948	REVISED DIFFUSER LAYOUT
8-29-91	[Signature]		[Signature]

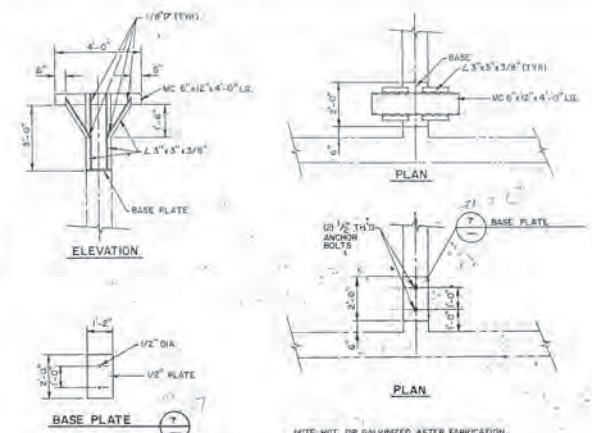
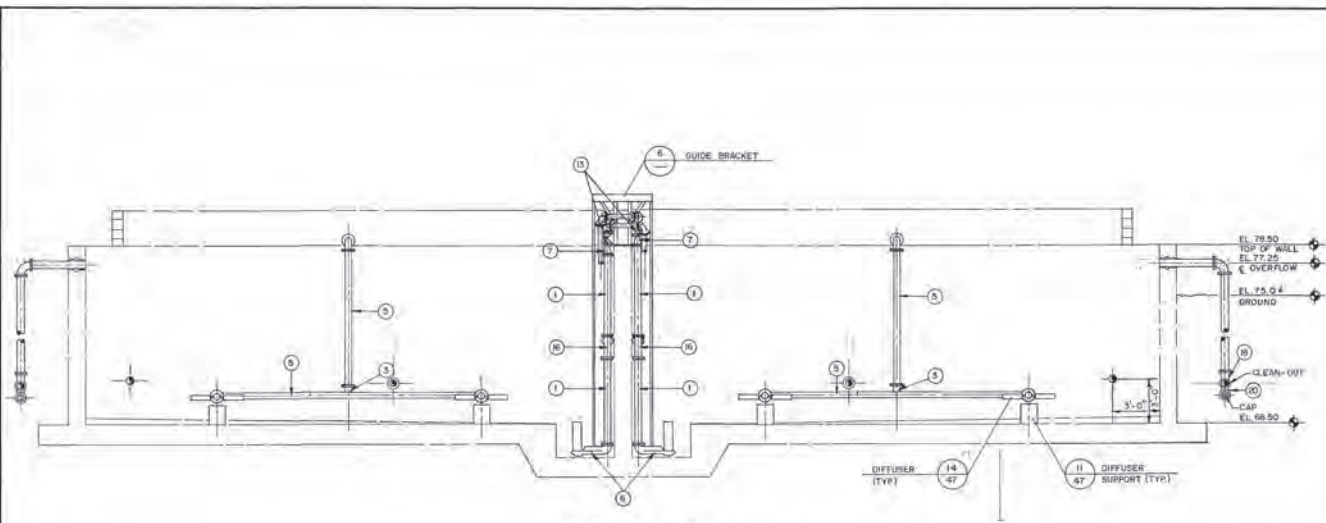
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BROOKSVILLE, FLORIDA 34601  
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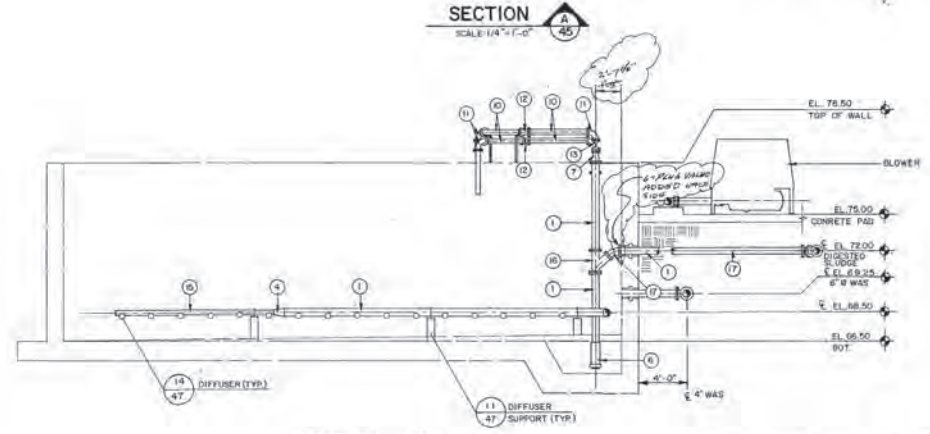
**AEROBIC DIGESTER PLAN & DETAILS**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET 45**  
OF 108 SHEETS  
NO. 8977

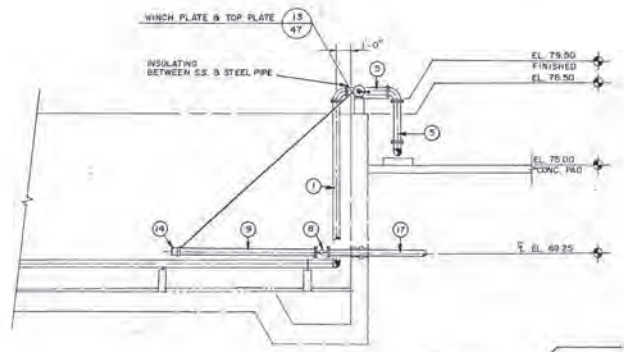


GUIDE BRACKET DETAIL  
SCALE: 1/8" = 1'-0"

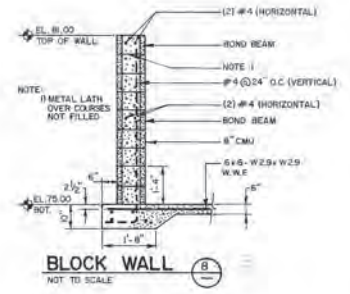


SECTION B-B  
SCALE 1/4" = 1'-0"

NOTE: SEE SHEET 45 FOR PIPE/FITTING LEGEND.



SECTION C-C  
SCALE 1/4" = 1'-0"



BLOCK WALL  
NOT TO SCALE

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all approved changes and additions implemented during the construction process. They are subject to the same limitations as the original drawings. They are not to be used for any other purpose without the written authorization of Coastal Engineering Associates, Inc.  
FIELD ENGINEER: [Signature]  
P.E. No. 35524

DATE	REV. BY	REV. BY	REV. BY	REV. BY	REVISION
8-5-01	J.F.				AS BUILT (SCALED)

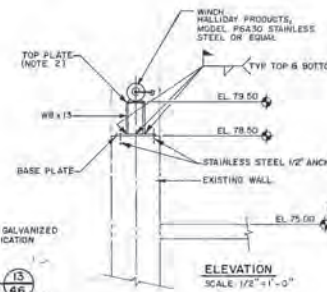
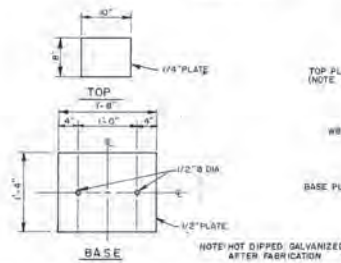
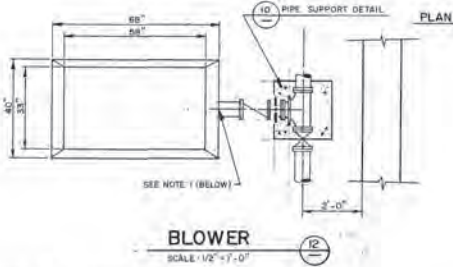
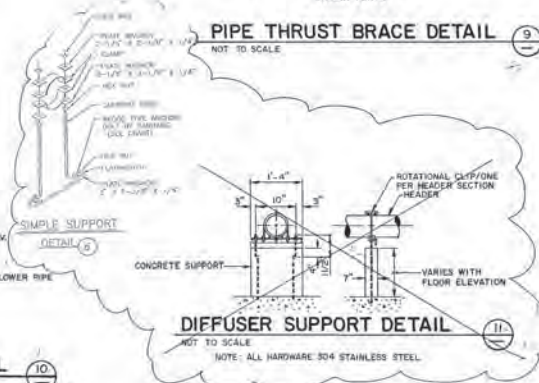
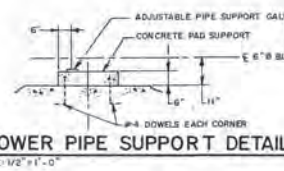
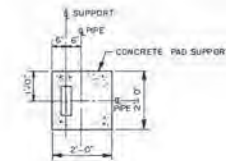
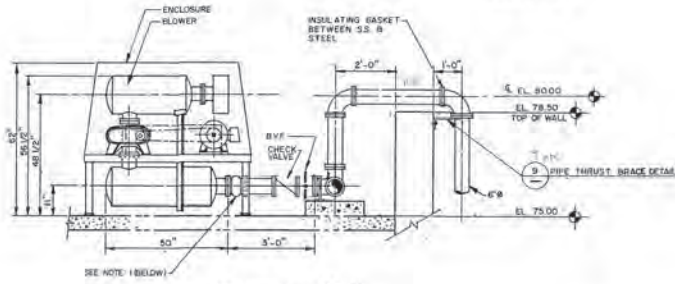
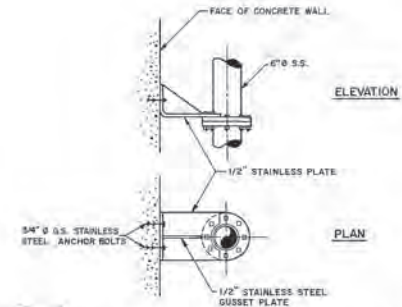
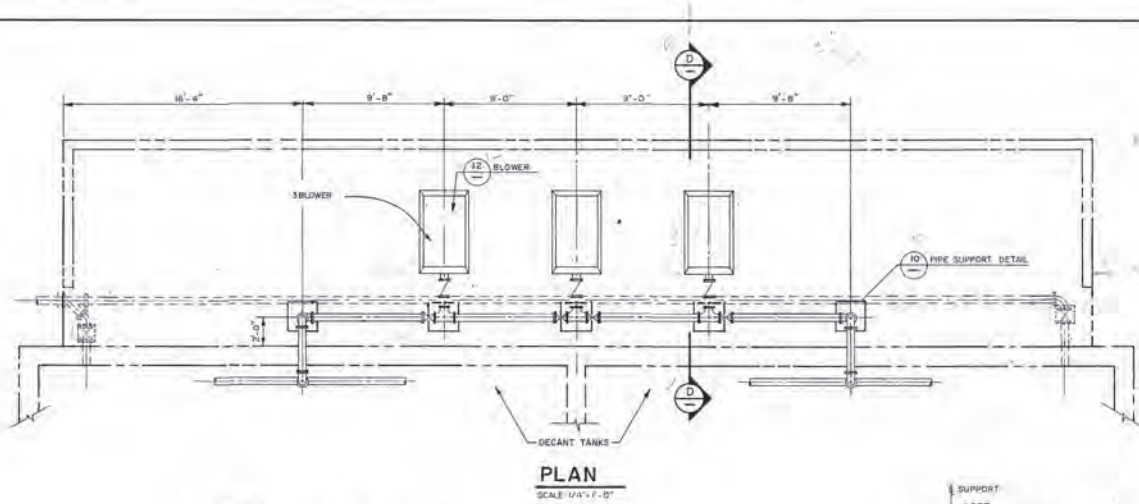
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**Coastal Engineering Assoc., Inc.**  
ENGINEERING • PLANNING  
ENVIRONMENTAL • SURVEYING  
866 CANDLELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL (904) 798-8423 FAX (904) 798-8308  
P.E. No. 35524

**AEROBIC DIGESTER SECTIONS & DETAILS**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

8977



NOTE:  
1. PROVIDE A FLEXIBLE JOINT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS BETWEEN PIPE AND EACH BLOWER, TO REDUCE VIBRATION AND NOISE.  
2. WINCH TO BE MOUNTED TO TOP PLATE ON CENTER DRILL HOLES AFTER FIELD LOCATION

"RECORD DRAWINGS"

I hereby certify that these "Record Drawings" reflect all digital and analog data and information approved during the construction process. They are based upon marked-up plans, drawings and other information furnished to the Engineer by the Contractor, and shall be the Contractor's responsibility to the best of my knowledge and belief.  
FIELD ENGINEER  
P. E. No. 36879

DATE	REV. BY	REV. NO.	REVISION
05/24/07	SLT	1	AS-BUILT (REVISED)

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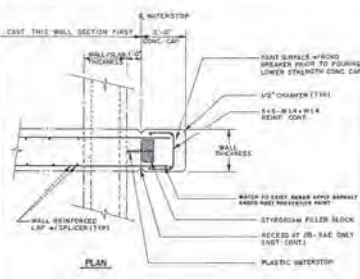
(2 REC'D)

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BROOKSVILLE, FLORIDA 34601  
TEL. (804) 798-8423 FAX (804) 798-8588  
P.E. No. 36879

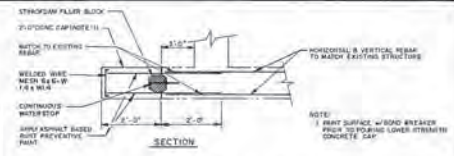
**AEROBIC DIGESTER MECHANICAL DETAILS**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

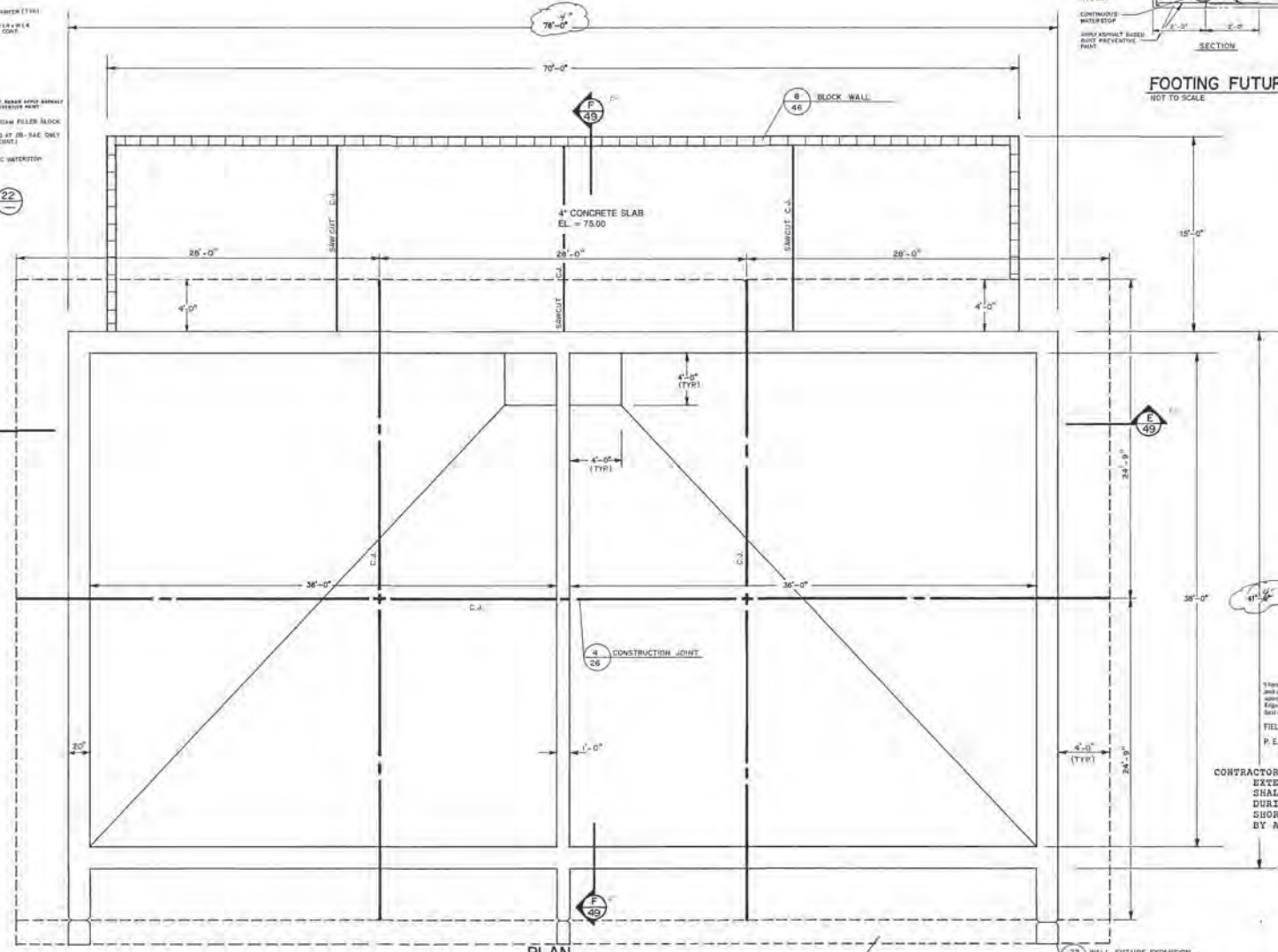
SHEET **47**  
OF 108 SHEETS  
8977



**WALL FUTURE EXPANSION** (22)  
NOT TO SCALE



**FOOTING FUTURE EXPANSION** (21)  
NOT TO SCALE



**PLAN**  
SCALE: 1/4" = 1'-0"

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all engineering and architectural and electrical approved during the construction process. They are being given in full and are not to be used, in whole or in part, for any other purpose without the written authorization of Coastal Engineering Assoc., Inc.  
FIELD ENGINEER: D. J. [Signature]  
P. E. No. 25634

**CONTRACTOR NOTE:**  
EXTERIOR WALLS OF STRUCTURE SHALL BE ADEQUATELY BRACED DURING "WATERTIGHT TESTING." SHORING/BRACING SHALL BE DESIGNED BY A LICENSED FLORIDA ENGINEER.

**McCarthy and Associates, Inc.**  
CONSULTING ENGINEERS  
2240 Belleair Road, Suite 250  
Clearwater, FL 34624-2762

DATE	REV. BY	APP. BY	REV. NO.	REVISION
8-3-78	L.P.P.			REV. BUILD (2/2/78)

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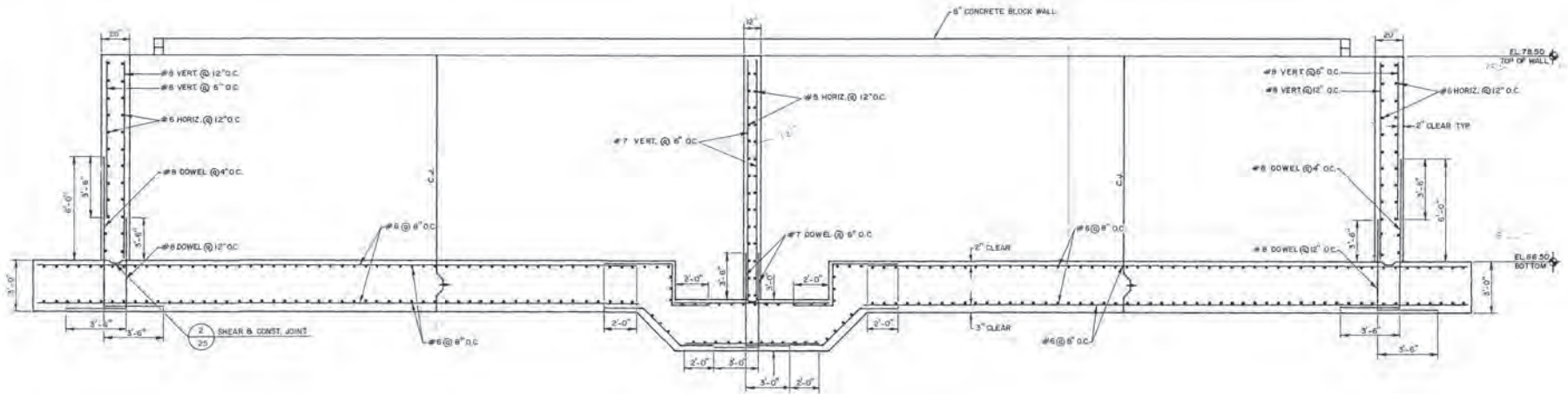


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ENVIRONMENTAL • SURVEYING  
966 CANDELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL. (904) 798-7422 FAX (904) 798-8338  
E-MAIL: COEN@GTE.COM

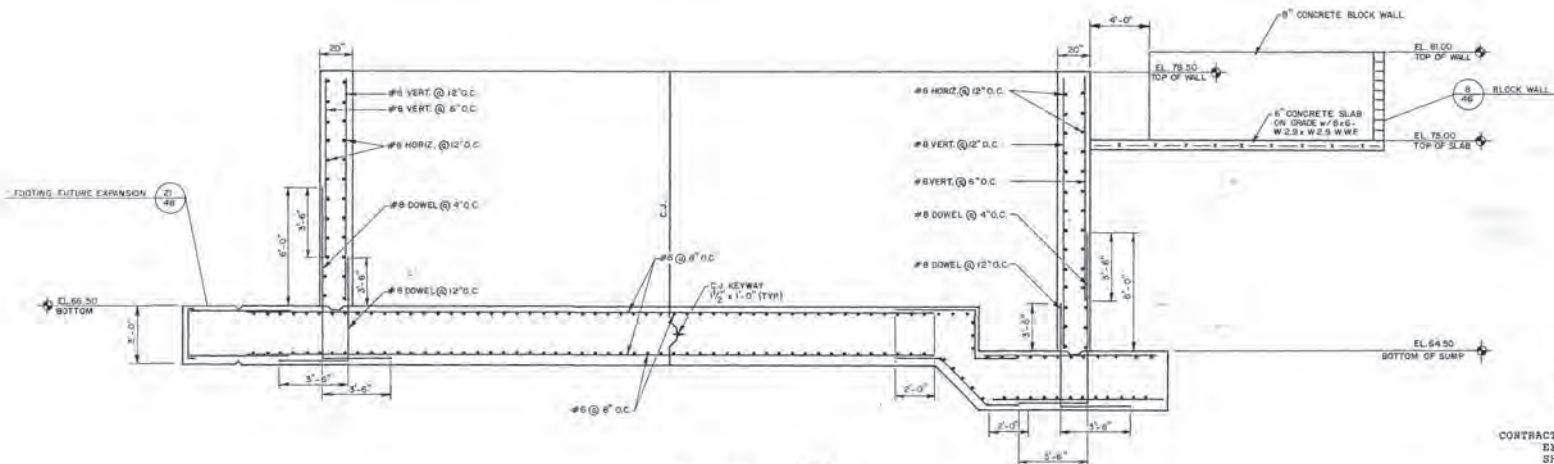
PRINTED AND PUBLISHED BY  
GTE OF GEORGIA CORPORATION

**AEROBIC DIGESTER PLAN (STRUCTURAL)**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET**  
**48**  
OF 108 SHEETS  
8977



SECTION E-48  
NOT TO SCALE



SECTION F-48  
NOT TO SCALE

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all significant changes and will make approved during the construction process. They are to be used as the basis for construction and shall not be used for any other purpose without the written authorization of the Engineer by the Contractor, and show the approved contractor's name, the date of my knowledge and contact.  
FIELD ENGINEER \_\_\_\_\_  
P. E. No. 354874

CONTRACTOR NOTE:  
EXTERIOR WALLS OF STRUCTURE SHALL BE ADEQUATELY BRACED DURING "WATERTIGHT TESTING." SHORING/BRACING SHALL BE DESIGNED BY A LICENSED FLORIDA ENGINEER.

**McCarthy and Associates, Inc.**  
CONSULTING ENGINEERS  
2240 Belleair Road, Suite 250  
Clearwater, FL 34624-2762

DATE	REV. BY	APP. BY	P.Z. No.	REV. No.	REVISION

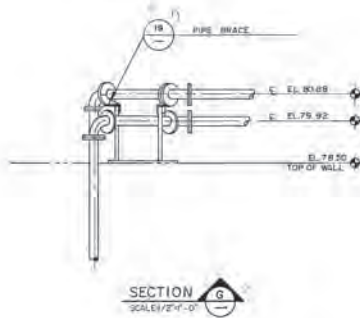
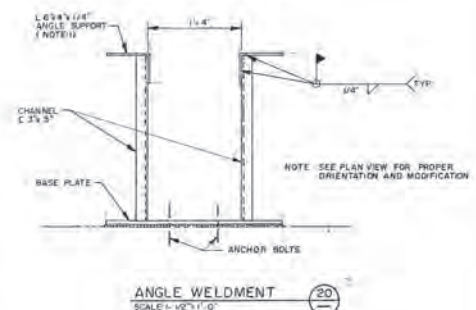
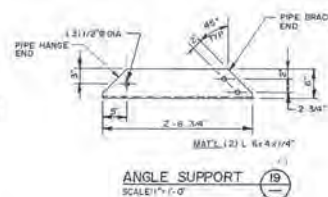
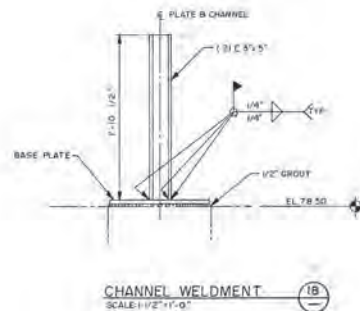
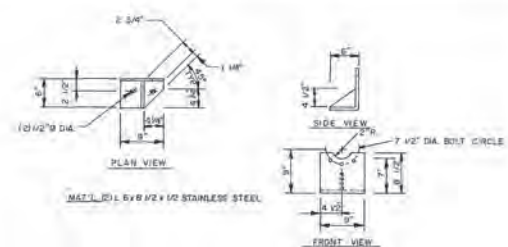
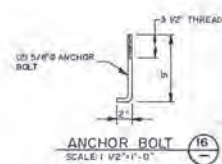
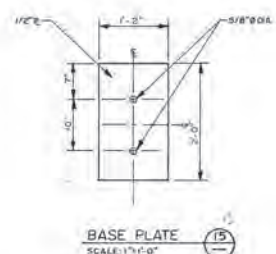
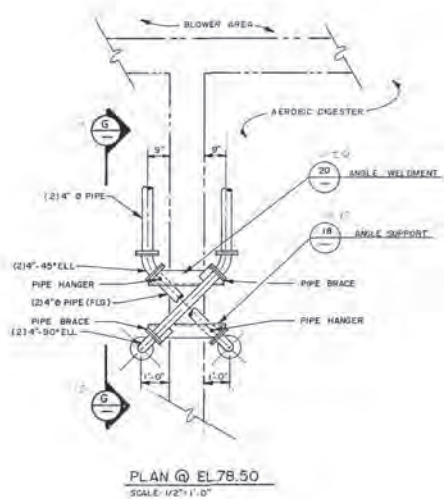
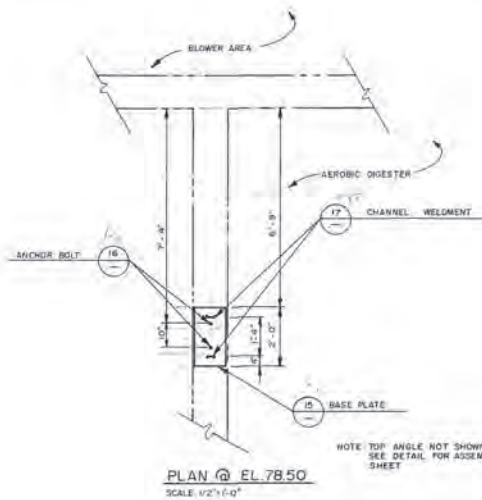
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866 CANDLELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL (804) 766-9423 FAX (804) 766-8359  
WWW.COASTAL-ENG.COM

<b>AEROBIC DIGESTER SECTIONS (STRUCTURAL)</b>	<b>SHEET</b>  <b>49</b> <small>OF 108 SHEETS</small> <b>8977</b>
<b>RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT</b>	





**GENERAL NOTES:**

- 1) ALL WELDMENTS TO BE IN ACCORDANCE WITH AWS 1/F AWS A 2.4-75
- 2) ALL STRUCTURAL STEEL TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.

"RECORD DRAWINGS"

I hereby certify that these "Record Drawings" reflect all corrections of errors and all modifications during the construction process. They are based upon manufacturer's prints, drawings and clear information furnished to the Engineer by the Contractor, and upon the Engineer's observation. The limits of my responsibility will be noted.

FIELD ENGINEER: *[Signature]*  
P. E. No. 216212

DATE	REV. BY	REV. BY	REV. NO.	REVISION

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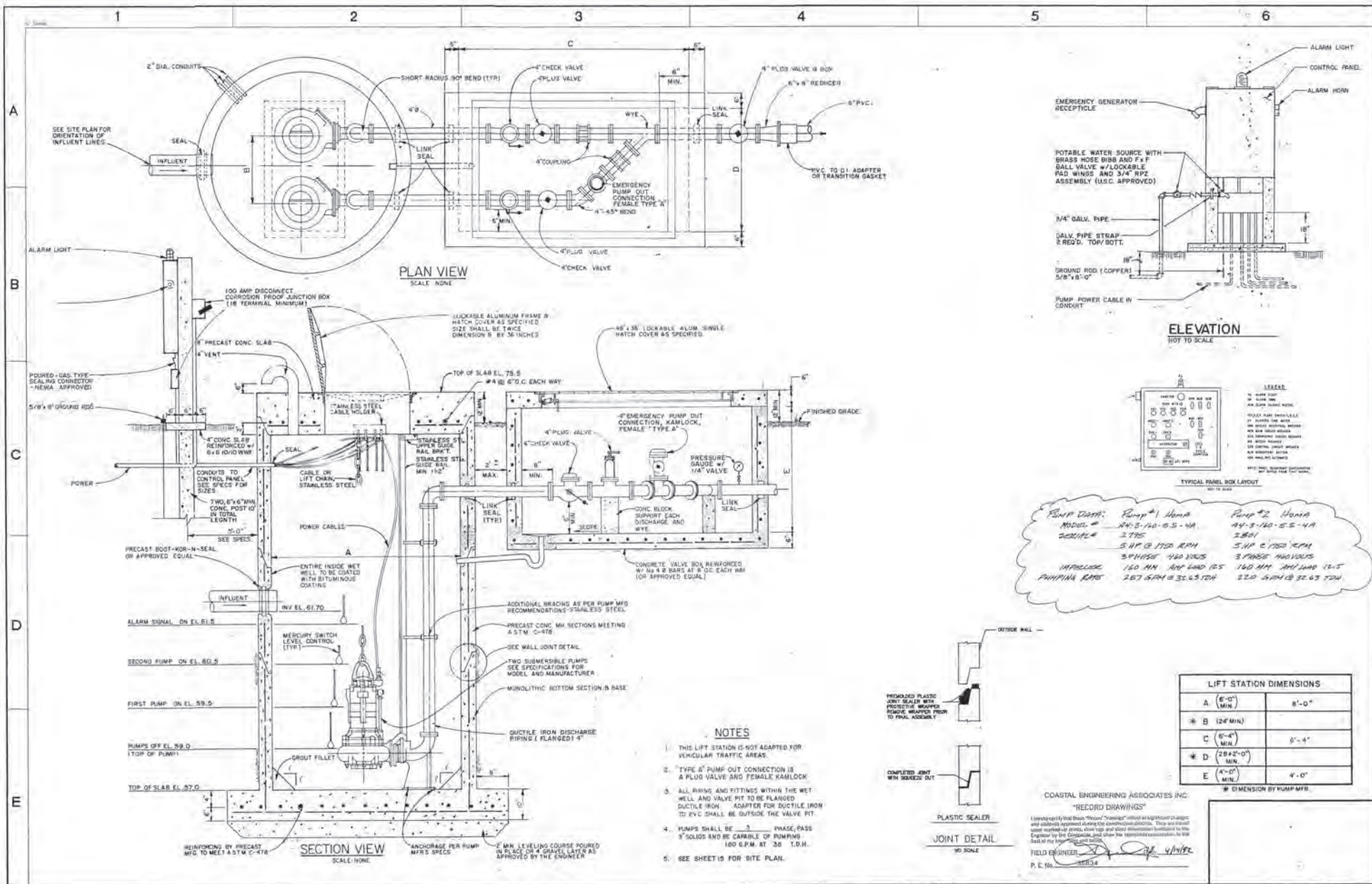
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966 CANDLELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL. (804) 786-8423 FAX (804) 786-8559

DESIGNED BY: P. ST. DRAWN BY: M. R. D. CHECKED BY: G. H. DATE: 9/7/75

**AEROBIC DIGESTER MECHANICAL DETAILS**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

SHEET  
**50**  
OF 108 SHEETS  
8977



REVISIONS					
DATE	REV. BY	APP. BY	DESCRIPTION	DATE	REV. BY

SEAL



**Coastal Engineering Associates, Inc.**  
CONSULTING ENGINEERS

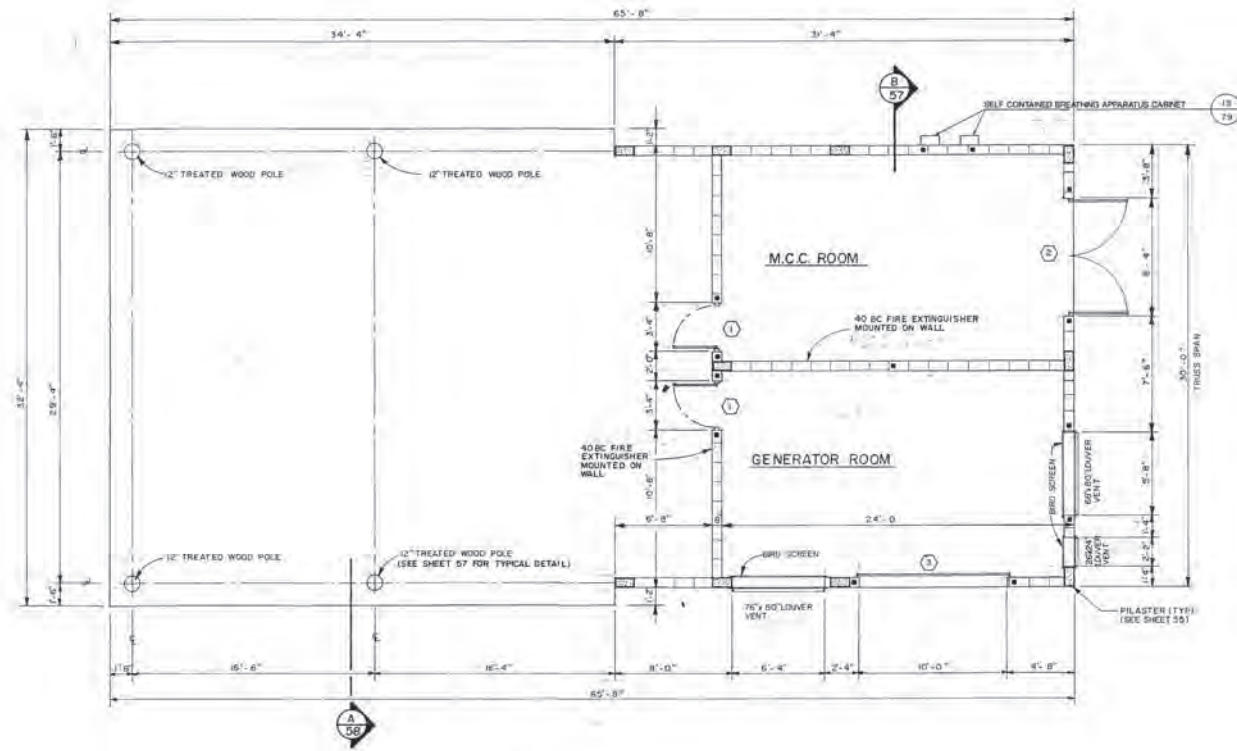
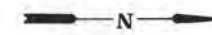
966 CANDLELIGHT BLVD.  
BROOKSVILLE, FL 34601  
TELEPHONE (904) 786-9423

CEA GAC CEA (11-4-91)

**WAL - MART LIFT STATION**

RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

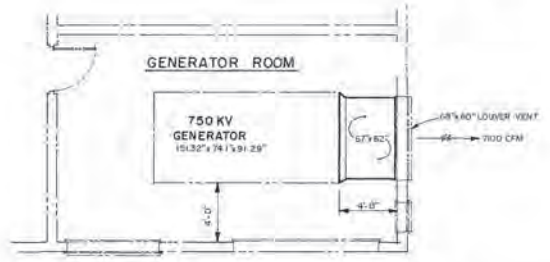
**SHEET 51**  
OF 8-SHEETS  
108  
8977



DOOR & WINDOW SCHEDULE			
KEY	DESCRIPTION	TRIM	QTY.
①	3070 SOLID CORE STEEL DOOR AND FRAME PREPARED WITH 3 MIN. 45 MIN FIRE RATING	KEYED LOCK	2
②	4'x10' FULL LOUVER DOUBLE DOORS(STEEL)	KEYED LOCK	1
③	OVERHEAD ROLLING DOOR 10'-0\"/>		

- △ SELF-CONTAINED BREATHING APPARATUS**
- Furnish one (1) self-contained breathing unit for the air-tank type and suitable for chlorine gas service.
  - The unit shall be provided with a full-vision mask, gauge, valve shoulder harness, and a 30-minute air-tank. One spare 30-minute air-tanks shall be provided.
  - The unit shall be furnished with a storage cabinet. The cabinet shall be as manufactured by SHCOB Manufacturing Co., or equal.
  - The units shall be Scott Air-Pack II, or approved equal.

**FLOOR PLAN**  
SCALE 1/4"=1'-0"



**GENERATOR ROOM LAYOUT & DUCT WORK PLAN**  
SCALE 1/4"=1'-0"

**"RECORD DRAWINGS"**

I hereby certify that these "Record Drawings" reflect all engineering changes and indicate approved during the construction process. They are based upon the latest revision to plans, drawings and other information furnished to the Engineer by the contractor and show the assigned contractor to the best of my knowledge and belief.

FIELD ENGINEER *[Signature]*  
P. E. No. 35424

DATE	REV. BY	APP. BY	P.L. NO.	REV. NO.	REVISION
7-9-91	B.A.W.	G.E.H.	16848	1	ADDENDUM NO. 1

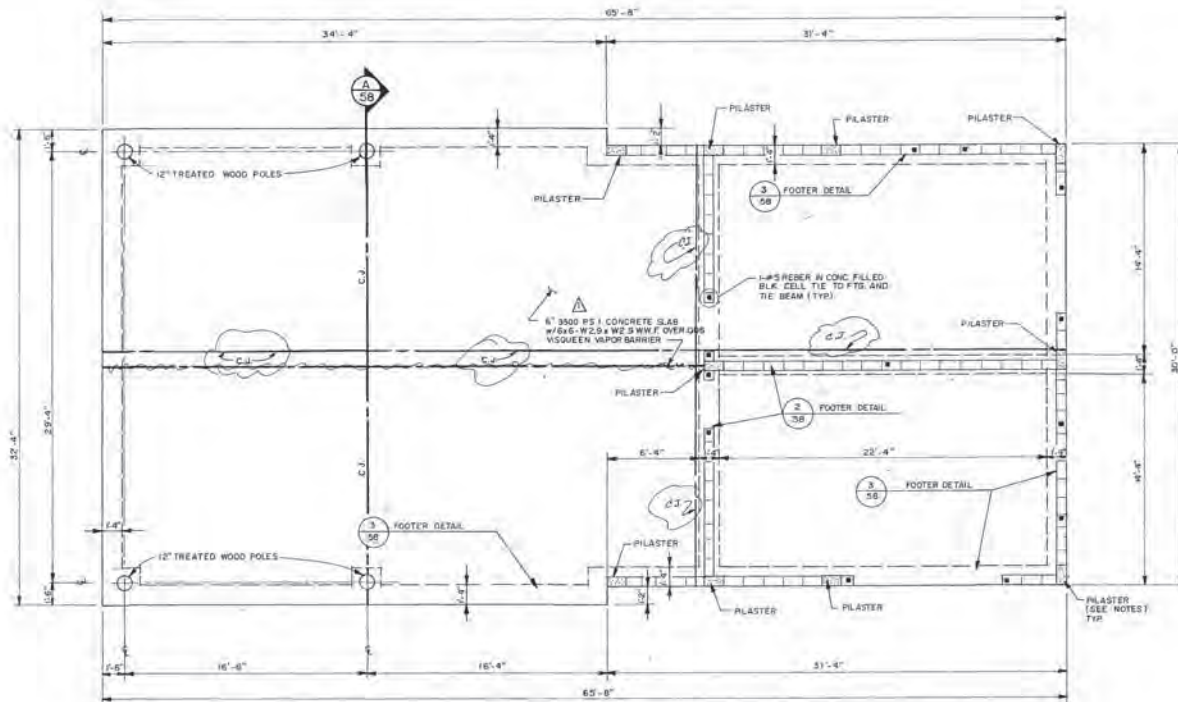
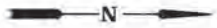
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BROOKSVILLE, FLORIDA 34601  
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**MAINTENANCE / ELECTRICAL BUILDING PLAN**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET**  
**54**  
OF 108 SHEETS  
8977



**FOUNDATION PLAN**

SCALE 1/4" = 1'-0"

- NOTES:
- 1) ALL TIE BEAMS SHALL BE 8" x 16" POURED WITH 4-#5 WITH #3 STIRRUPS @ 8" O.C. ALL PILASTER SHALL BE 8" x 16" POURED WITH 4-#5 WITH #3 TIES @ 8" O.C. DISTANCE BETWEEN PILASTERS SHALL NOT EXCEED 16'-0" O.C.
  - 2) PILASTER VERTICAL REINF. DBRELS SHALL HAVE A CLASS C LAP SPLICE.
  - 3) ALL COLUMN REINF. SHOULD BE CONTINUOUS FROM BOT. OF FTG. TO TOP OF BEAM AND HOOS INTO BEAM.
  - 4) CONCRETE COVER OVER TIE AND STIRRUP REINFORCING SHALL BE 1 1/2".
  - 5) BLOCK MASONRY SHALL BE TIED TO PILASTER COLUMNS WITH DOVE TAIL ANCHORS, BY EXTENDING HORIZ. JOINT REINF. INTO PILASTER OR BY ROTATING ALTERNATING BLOCKS VERTICALLY TO ALLOW CONCRETE TO POUR INTO BLOCKS.

"RECORD DRAWINGS"

I hereby certify that these "Record Drawings" reflect all changes received and indicate approved during the construction process. They are based upon marked-up plans, drawings and other information furnished to the Engineer by the Contractor, and upon the architect's contribution to the best of my knowledge and belief.

FIELD ENGINEER: \_\_\_\_\_ Date: \_\_\_\_\_  
 P. E. No. 25882V

**McCarthy and Associates, Inc.**  
 CONSULTING ENGINEERS  
 2240 Belleair Road, Suite 250  
 Clearwater, FL 34624-2762

DATE	REV. BY	REV. BY	REV. BY	REVISION
7-9-91	BAW	GEH	18948	ADDENDUM NO. 1
8-5-92	LPT			AS-BUILT (Redlined)

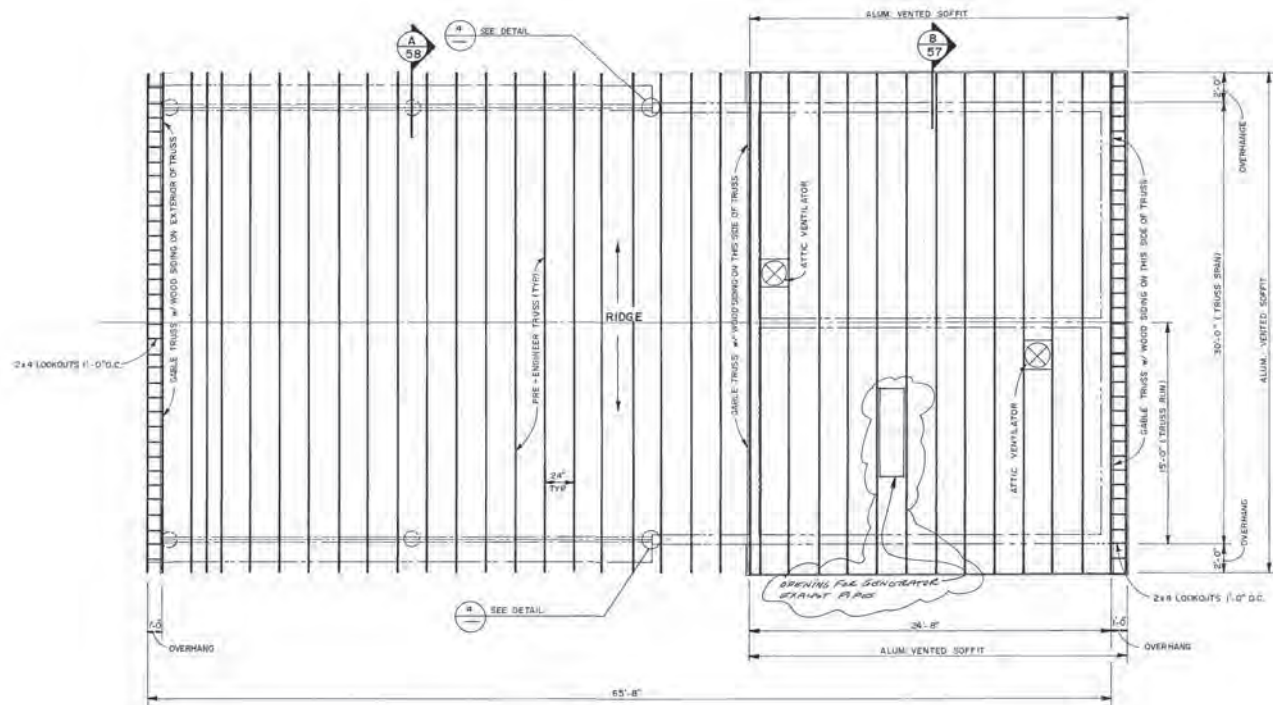
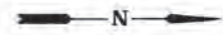
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 ENGINEERING • PLANNING  
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 966 CANDELIGHT BOULEVARD  
 BROOKSVILLE, FLORIDA 34601  
 TEL (904) 788-6423 FAX (904) 788-8359  
 PLOTTED BY: PM    CHECKED BY: M.R.U.    DRAWN BY: G.E.R.    DATE: 10/10/92

**MAINTENANCE / ELECTRICAL BUILDING**  
**FOUNDATION PLAN**

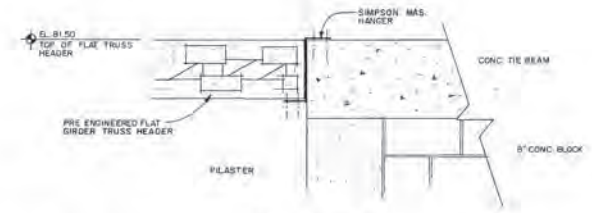
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET 55**  
 OF 108 SHEETS  
 8977



**TRUSS PLAN**  
SCALE 1/4" = 1'-0"

- NOTES:
- 1) THE DESIGN FOR THE PRE-ENGINEERED TRUSSES FOR ALL BUILDINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
  - 2) CONTRACTOR/ERECTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING.
  - 3) ROOF SHEATHING TO BE 1/2" EXT GRADE PLY W/ 10d NAILS @ 8" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS.
  - 4) NET WIND UPLIFT = 30P.S.F.



**DETAIL 4**  
SCALE 1/4" = 1'-0"

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all significant changes and alterations approved during the construction process. They are based upon marked-up permits, change and other information furnished to the Engineer by the Contractor, and upon the completed construction to the best of my knowledge and belief.  
FIELD ENGINEER: [Signature]  
P. E. No. 35033-V

DATE	REV. BY	APP. BY	PL. NO.	REV. NO.	REVISION
8-3-95	L.P.F.				AS-BUILT (REVISED)

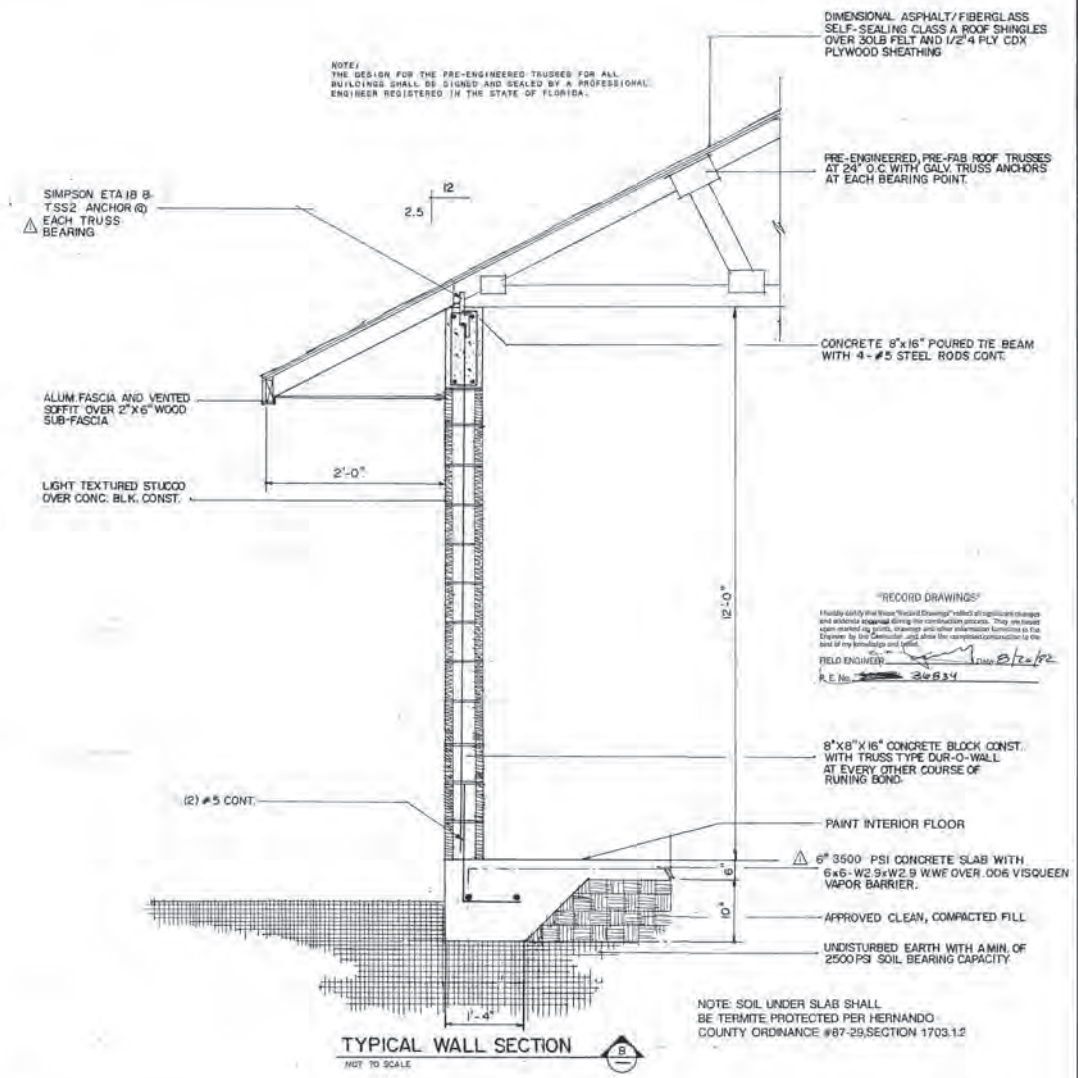
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966 CANDLELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL. (904) 796-6422 FAX (904) 799-6308  
FIDELITY BOND # 100,000,000

**MAINTENANCE / ELECTRICAL BUILDING**  
**TRUSS PLAN**  
**RIDGE MANOR WEST SUBREGIONAL**  
**WASTEWATER TREATMENT PLANT**

**SHEET**  
**56**  
OF 108 SHEETS  
8977



NOTE: ALL COLORS ARE TO BE SELECTED BY THE OWNER

DATE	REV.	BY	P.E. No.	REV. No.	REVISION
7-9-91	B.A.W.	G.E.H.	16948	△	ADDENDUM NO. 1

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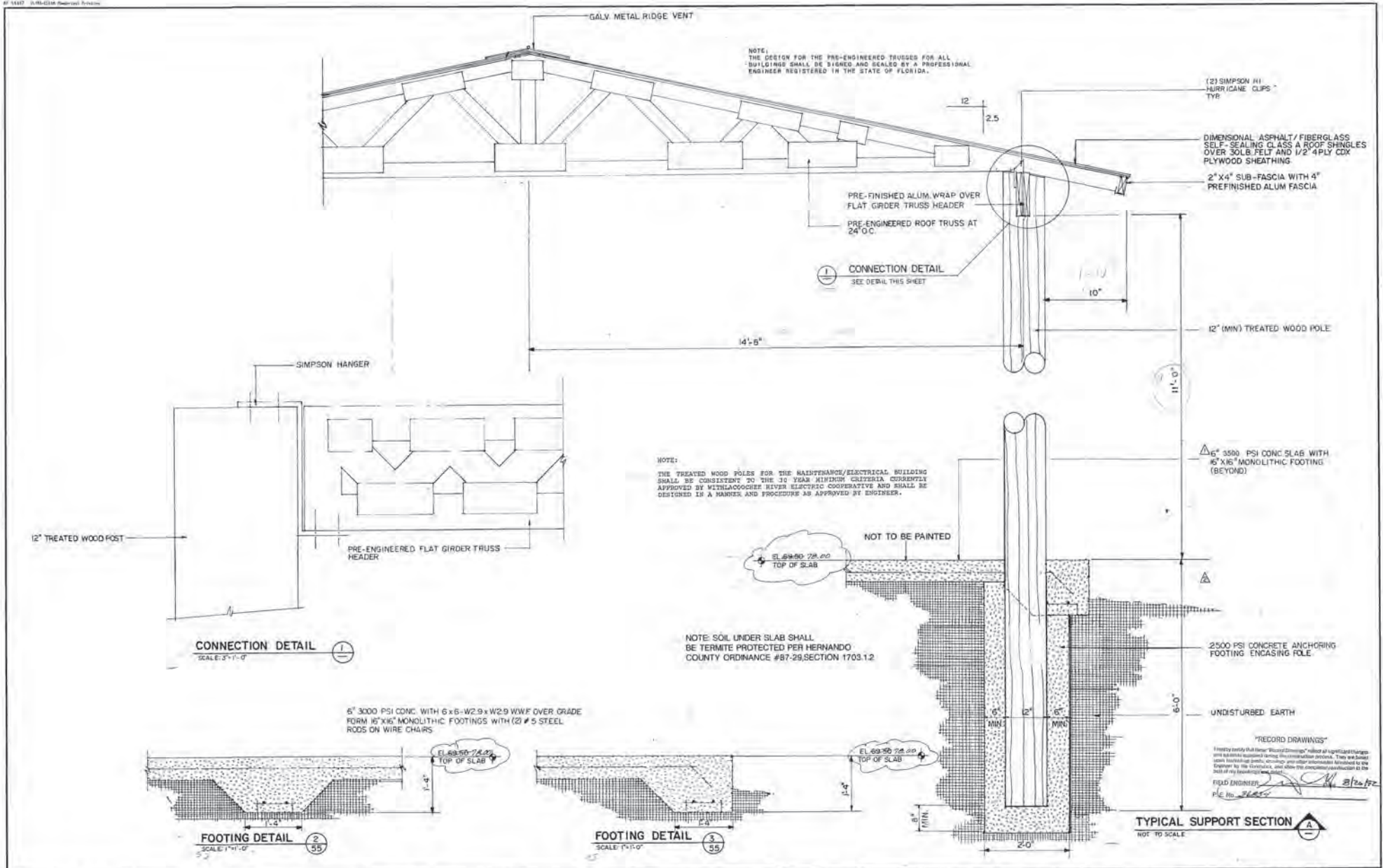
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ENVIRONMENTAL • SURVEYING  
966 CANDELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL. (904) 798-9423 FAX (904) 798-8359

DESIGNED BY: G.H. DRAWN BY: B.A.W. CHECKED BY: G.H. PLOT DATE: 01/19/99

MAINTENANCE / ELECTRICAL BUILDING  
TYPICAL WALL SECTION

RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

SHEET  
57  
OF 108 SHEETS  
NO. 8977



DATE	REV. BY	REV. NO.	REV. NO.	REVISION
7-9-91	B.A.W. / G.E.H.	16948	1	ADDENDUM NO. 1
7-9-91	B.A.W. / G.E.H.	16948	2	ADDENDUM NO. 2
8-1-92	L.A.S.			As Built Condition

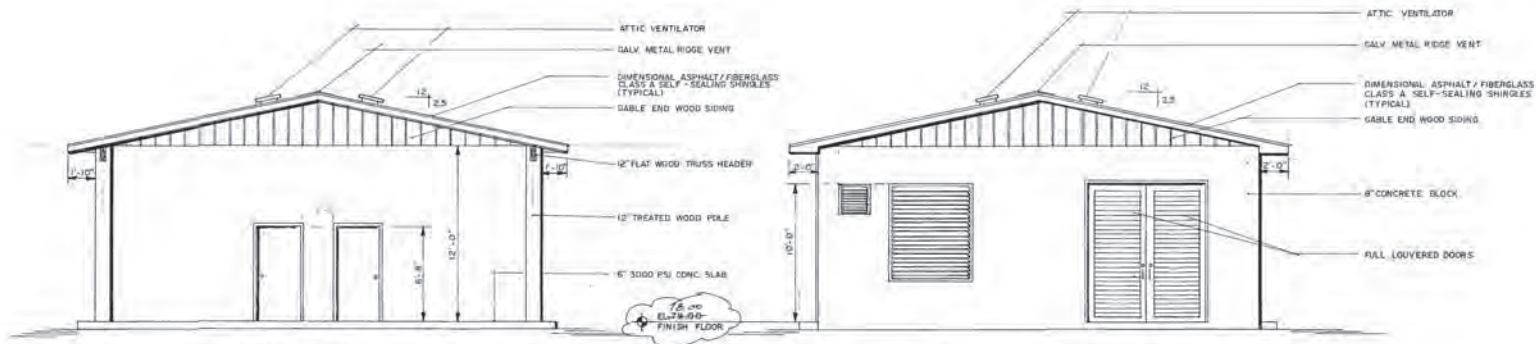
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BROOKSVILLE, FLORIDA 34601  
TEL. (904) 798-9423 FAX (904) 798-8398  
OWNER: B.A.W. DRAWN BY: B.A.W. CHECKED BY: G.E.H. DATE: 10/12/91



<b>MAINTENANCE / ELECTRICAL BUILDING DETAILS AND SECTIONS</b>	SHEET
	<b>58</b>
	OF 108 SHEETS
<b>RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT</b>	
SHEET NO. <b>8977</b>	



**SOUTH NORTH ELEVATION**  
SCALE 1/4" = 1'-0"

**NORTH SOUTH ELEVATION**  
SCALE 1/4" = 1'-0"



**EAST WEST ELEVATION**  
SCALE 1/4" = 1'-0"

**"RECORD DRAWINGS"**  
I hereby certify that these "Record Drawings" reflect all design changes and amendments approved during the construction process. They are issued under the supervision of the Engineer and shall be used in accordance with the provisions of the contract documents. I am a duly Licensed Professional Engineer in the State of Florida.  
FIELD ENGINEER: [Signature]  
P.E. No. 26284

- Notes:**
- The gable end wood siding shall be T1-11 siding, painted the same color as the block walls.
  - Asphalt/fiberglass shingles shall be similar to Owens-Corning Classic, fungus resistant, U.L. Fire Rating Class A, U.L. Wind Resistance Rated, and meet ASTM resistance specification D3918-82 Type 1. Color to be selected by Owner.
  - Louvers shall be 8943RS extruded aluminum, mill finish painted to match building, 0.081" nominal wall thickness, with bird screen. Louvers shall be Ruskio EBF 375 or equal.

DATE	REV BY	APP BY	REV NO.	REVISION
7-15-01	SEN	GER	10948	ADDENDUM NO. 1
8-29-01	SEN	GER		AS-BUILT CORRECTIONS

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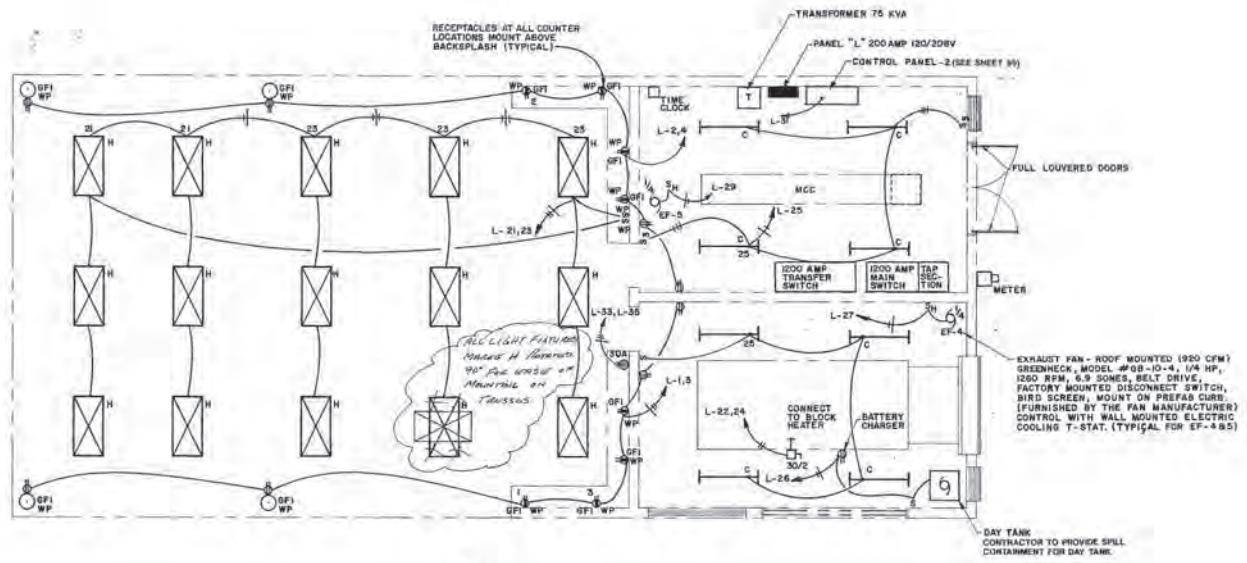
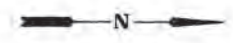
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www.coastaleng.com

**MAINTENANCE / ELECTRICAL BUILDING ELEVATIONS**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET 59**  
OF 108 SHEETS  
8977





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

"RECORD DRAWINGS"  
 I hereby certify that these "Record Drawings" reflect all changes and amendments approved during the construction process. They are based upon the approved contract documents and other information furnished to me by the contractor and shall remain the property of the contractor.  
 FIELD ENGINEER: \_\_\_\_\_ Date: \_\_\_\_\_  
 P. C. No. 562834

**ENGINEERING MATRIX, INC.**  
 MANORVILLE BAY OFFICE CENTER  
 1500 U.S. 15 SOUTH  
 CLEARWATER, FLORIDA 34615  
 (813) 538-5000 (513) 227-9125

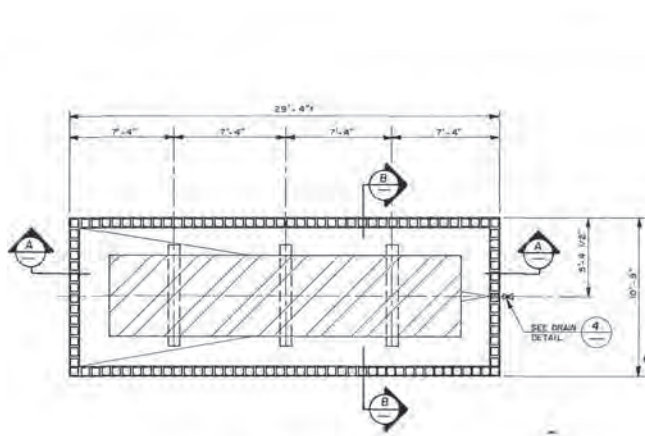
DATE	REV. BY	APP. BY	REV. NO.	REVISION
8-3-91	L.H.T.			AS BUILT (Amended)

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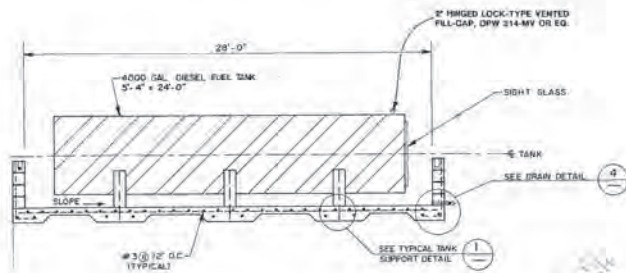
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**MAINTENANCE / ELECTRICAL BUILDING  
 PLAN ELECTRICAL**  
**RIDGE MANOR WEST SUBREGIONAL  
 WASTEWATER TREATMENT PLANT**

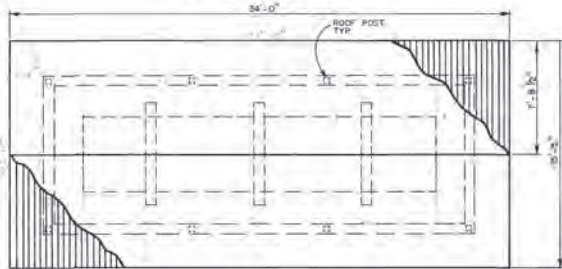
**SHEET**  
**60**  
 OF 108 SHEETS  
**8977**



PLAN  
SCALE 1/4\"/>

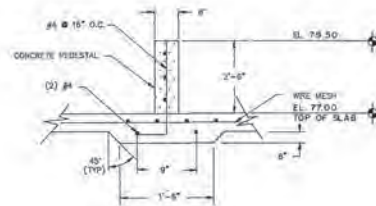


SECTION  
SCALE 1/4\"/>

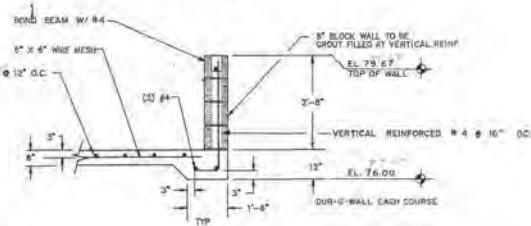


PLAN  
SCALE 1/4\"/>

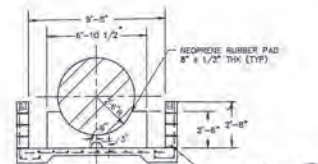
ALUMINUM ROOF DETAIL 3



TYPICAL TANK SUPPORT 1  
SCALE 1/2\"/>



TYPICAL WALL DETAIL 2  
SCALE 1/2\"/>



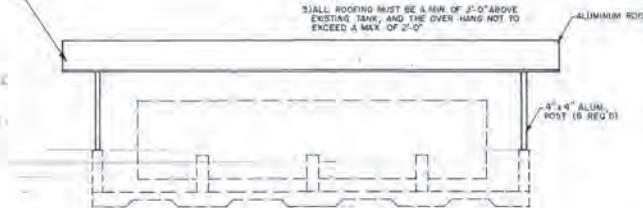
DRAIN DETAIL 4  
SCALE 1/2\"/>

SECTION  
SCALE 1/4\"/>

NOTE: ALUM. ROOF & COLUMN STRUCTURE SHALL BE DESIGNED TO RESIST LATERAL WIND LOADING w/ FINISHED BASE COLUMN CONNECTIONS. ANCHOR BOLTS FOR BASE TO FIT INTO BLOCK BOND BEAM. WIND LOADING: 100MPH

NOTES:

- 1) ALL HEADERS TO BE 2x6 ALUM.
- 2) ALL ALUM. TO BE 24 GAUGE.
- 3) ALL ROOFING MUST BE A MIN. OF 2'-0\"/>



ELEVATION  
SCALE 1/4\"/>

GENERAL NOTES:

1. STORAGE TANK SUPPORTS SHALL BE PROVIDED BY TANK MANUFACTURER AND ADJUSTED AS NECESSARY TO ACCOMMODATE TANK FURNISHED.
2. DRAIN VALVES ON CONTAINMENT BASIN SHALL HAVE PROVISIONS FOR LOCKING IN THE CLOSED POSITION.
3. DRAIN PIPES THROUGH THE CONTAINMENT STRUCTURES SHALL BE SEALED AROUND THE OUTSIDE OF THE PIPING. TYPE OF SEAL USED SHALL BE RESISTANT TO DIESEL FUEL.
4. THE DESIGN CAPACITY, WORKING CAPACITY AND IDENTIFICATION NUMBER OF THE TANK SHALL BE CLEARLY MARKED ON THE TANK AND AT THE SIGHT GAUGE.
- 5.
6. EXTERIOR OF TANKS SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATION SECTION 09900.
7. INTERIOR OF CONTAINMENT WALLS AND TOP OF SLAB SHALL BE COATED WITH COAL TAR EPOXY (SEE SECTION 09900 OF SPECIFICATIONS).
8. DESIGN OF STEEL STORAGE TANKS SHALL MEET OR EXCEED REQUIREMENTS FOUND IN US DE. 142, API STANDARD NO. 620, OR API STANDARD NO. 657.
9. TANKS SHALL BE INSTALLED IN CONFORMANCE WITH REFER NO. 30.
10. REFER TO SPECIFICATION SECTION 13208 FOR ADDITIONAL REQUIREMENTS.
11. EXTERIOR OF EACH TANK SHALL BE DISTINCTLY LABELED TO INDICATE CONTENTS.

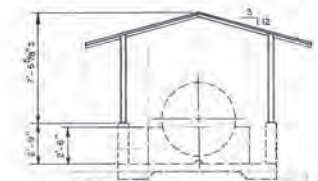
12. FUEL PIPING IN CONTACT WITH THE SOIL SHALL BE PROVIDED WITH SUFFICIENT CONTAINMENT. PIPING SHALL MEET THE FOLLOWING REQUIREMENTS:
    - A. FIBERGLASS REINFORCED PLASTIC (UL 771 AND UL 1871) OR
    - B. CATHODICALLY PROTECTED STEEL (NFFPA 30, API SP 1615, API SP 1632, SACS 12-11-84, SACS 88-11-81)
- FUEL PIPING NOT IN CONTACT WITH THE SOIL SHALL MEET THE REQUIREMENTS OF NFFPA 30, CHAPTER 3.

"RECORD DRAWINGS"

Engineer's Seal and Stamp: Coastal Engineering Assoc., Inc. 966 Candlelight Boulevard, Brooksville, Florida 34601. License No. 25634. Date: 02/10/92.

NOTES:

1. The aluminum super structure shall be fabricated of extruded aluminum alloy 6063-T5 or 6061-T6 box beams.
2. Roof coverings shall be standing seam panel, 24 gage. Panels shall be precision roll-formed.
3. Surfaces shall have manufacturer's standard white corrosion resistant finish.
4. Roof fasteners shall be No. 12 self-drilling carbon steel screws with an "extended life" hexagon head that is compatible with the panels. A sealing washer shall be provided.
5. Sealants for side laps, and laps, accessories, etc., shall be a preformed, butyl rubber based compound, non-hardening, non-shrinking, and non-corrosive with excellent adhesion to metals and painted surfaces. Tube sealants shall be used to supplement the above where needed.



ELEVATION  
SCALE 1/4\"/>

DATE	REV. BY	APP. BY	REV. NO.	REVISION
7-8-91	GEN	GEH	18848	ADDENDUM NO. 1

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TEL (884) 798-8423 FAX (884) 798-8300  
Circle 17 on Reader Service Card

**DIESSEL FUEL TANK SECTIONS & DETAILS**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

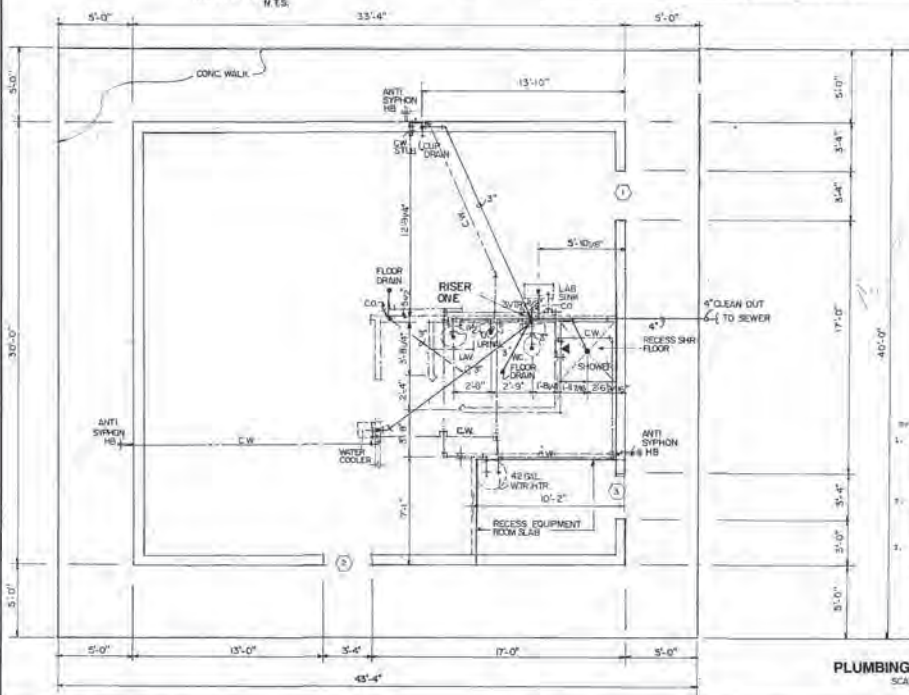
SHEET  
**61**  
OF 108 SHEETS  
7/8/91  
8977



PLUMBING FIXTURE AND ACCESSORY SCHEDULE				FINISH SCHEDULE			
FIXTURE	DESCRIPTION	MFG.	QTY.	FIXTURE	DESCRIPTION	MFG.	QTY.
LABORATORY TUB SINK	KEMPSHUB TUB SINK MODEL VF-0077-00	REDISHIP	1	RADI MODULAR WATER COOLER	MODEL CRM0/FSS OASIS	1	
LAB SINK TRAP	POLYETHYLENE TRAP AND OUTLET ASS'Y MODEL VF-0493-00	REDISHIP	1	SIGHT SCREEN	24\"/>		

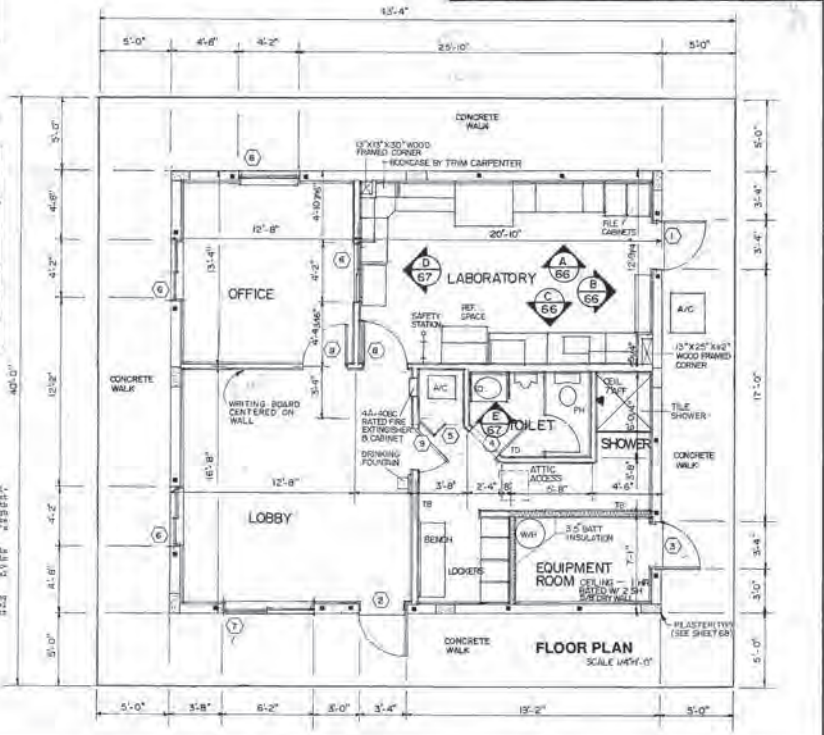
ROOM	FLOOR	WALLS	CEILING	TRIM	CEIL HT.
LOBBY	1\"/>				
OFFICE	1\"/>				
LABORATORY	1\"/>				
LOCKER ROOM	1\"/>				
TOILET	1\"/>				
EQUIPMENT ROOM	CONCRETE	SEMI-GLOSS FIRE RETN. BROOM FIN.	SEMI-GLOSS FIRE RETN. VINYL PAINT	1\"/>	
SHOWER	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	7'-0\"/>

DOOR & WINDOW SCHEDULE				
KEY	DESCRIPTION	TRIM	QTY.	REMARKS
1	3070 HOLLOW METAL FRAME GLASS ENTRY DOOR WITH INSULATED TINTED SAFETY GLASS & RING BAR	KEYED LOCKOUT	1	
2	3070 HOLLOW METAL FRAME GLASS ENTRY DOOR WITH INSULATED TINTED SAFETY GLASS	KEYED LOCK & DEADLOCK	1	
3	3070 SOLID CORE STEEL DOOR AND FRAME, FINISHED WITH A MIN. 45 MIN FIRE RATING	KEYED LOCK & DEADLOCK	1	
4	2868 HOLLOW CORE FLUSH PNEUMATIC DOOR - STAIN GRADE WITH CLEAR CLAM SHELL CASING	PUSH PLATE		
5	3088 HOLLOWED IN-FOLD STAIN GRADE DOOR WITH CLEAR CLAM SHELL CASING	METAL PULL	1	
6	#300 BRONZE FINISHED ALUM. FRAMED TINTED HORIZONTAL SLIDING WINDOWS WITH MARBLE STOOLS	N/A	3	WITH BLINDS EXCEPT WINDOW BETWEEN LAB AND OFFICE
7	#400 BRONZE FINISHED ALUM. FRAMED TINTED HORIZONTAL SLIDING WINDOWS WITH MARBLE STOOLS	N/A	1	WITH BLINDS
8	3070 HOLLOW METAL FRAME GLASS ENTRY DOOR WITH INSULATED TINTED SAFETY GLASS AND LAMINATED R.A. GRILLE	KEYED LOCK	1	
9	2868 HOLLOW CORE FLUSH PNEUMATIC DOOR - STAIN GRADE WITH CLEAR CLAM SHELL CASING AND LAMINATED R.A. GRILLE	KEYED LOCK	2	



PLUMBING LEGEND	
C.W.	COLD WATER (POTABLE)
H.W.	HOT WATER (POTABLE)
VERT	VERTICAL
ELBOW UP THRU FLOOR	ELBOW UP THRU FLOOR SHOWN
WALL CLEANOUT	WALL CLEANOUT
ANTI SYPHON HOSE BIB	ANTI SYPHON HOSE BIB

PLUMBING PLAN SCALE 1/4\"/>



FLOOR PLAN SCALE 1/4\"/>

DATE	REV. BY	REV. NO.	REVISION
10/26/92	SEN	001	ADDENDUM NO. 1

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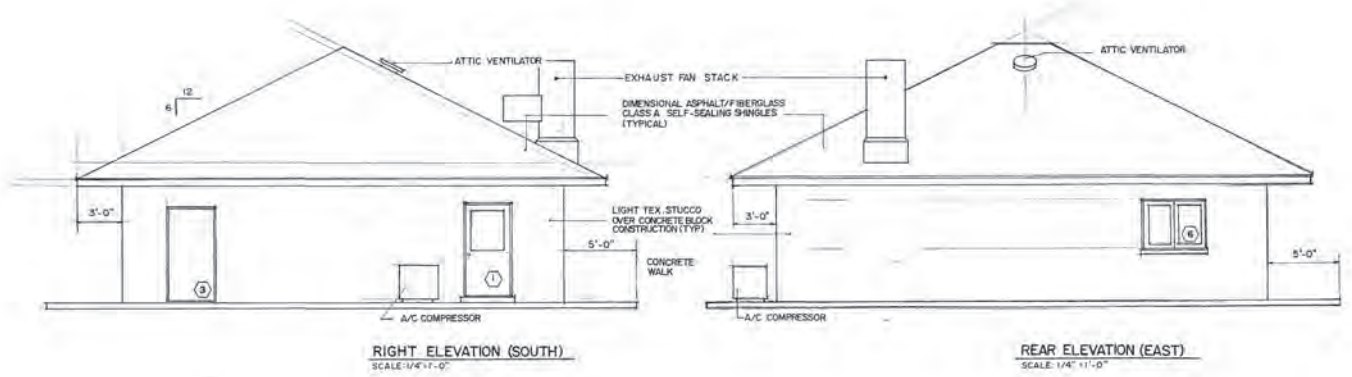
10/26/92  
 HIGG ENGINEER  
 C. E. HIGGINS

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 BROOKSVILLE, FLORIDA 34601  
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**LAB / ADMINISTRATION BUILDING FLOOR & PLUMBING PLAN**

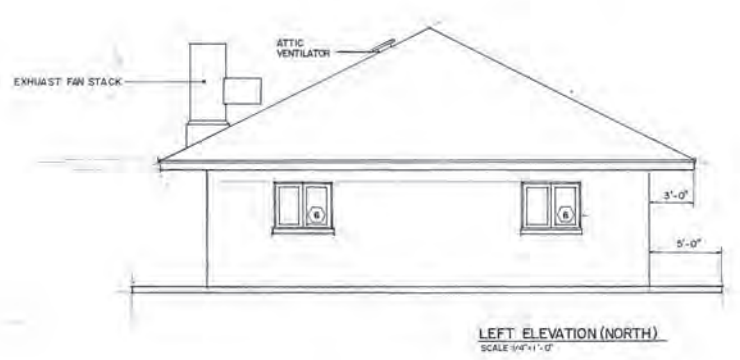
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

SHEET  
**62**  
 OF 108 SHEETS  
 8977

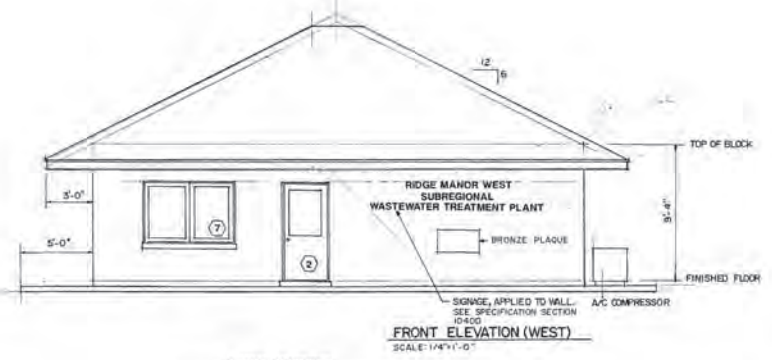


RIGHT ELEVATION (SOUTH)  
SCALE: 1/4" = 1'-0"

REAR ELEVATION (EAST)  
SCALE: 1/4" = 1'-0"



LEFT ELEVATION (NORTH)  
SCALE: 1/4" = 1'-0"



FRONT ELEVATION (WEST)  
SCALE: 1/4" = 1'-0"

"RECORD DRAWINGS"

Hand-drawn field notes "Record Drawings" reflect all significant changes and all work completed during the construction process. They are subject upon marked up plans, drawings and other information furnished to the Engineer by the Contractor, and shall be the responsibility of the Contractor. I, the Engineer, by the Contractor, and the Architect, do not warrant the accuracy of these drawings.

FIELD ENGINEER: *[Signature]*  
P.E. No. 16084

NOTE: ASPHALT/FIBERGLASS SHINGLES SHALL BE SIMILAR TO OWENS CORNING CLASSIC, FUNGUS RESISTANT, UL FIRE RATING CLASS A, UL WIND RESISTANCE RATED, AND MEET ASTM RESISTANCE SPECIFICATION D3018-82 TYPE 1. COLOR TO BE SELECTED BY OWNER.

DATE	REV. BY	REV. BY	REV. NO.	REVISION
7.11.01	S.E.N.	G.E.H.	18948	ADDENDUM NO. 1

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966 CANDLELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL (904) 798-9423 FAX (904) 798-8359

DESIGNED BY: G.H. DRAWN BY: R.A.W. ENGINEER: G.H. DATE: 10/1/01

SCALE: 1/4" = 1'-0"

**LAB / ADMINISTRATION BUILDING ELEVATIONS**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET 63**  
OF 108 SHEETS  
8977

CRK NO.	C.B. AMP/PH	WIRE SIZE	VOLT AMPS	LOAD DESCRIPTION	PHASE/VOLT AMPS	CRK NO.	C.B. AMP/PH	WIRE SIZE	VOLT AMPS	LOAD DESCRIPTION
1	30/1	#2	870	LIGHTING	A 1150	2	30/1	#2	840	RECEPTABLES
3			1104		B 2004	4			900	
5			1104		C 1824	8			720	
7			870	EXHAUST FAN	A 1240	3			720	
8			105	EXHAUST FAN - 1 & 2	B 495	10			940	REF
11			1544	HOOD EXHAUST & SUPPLY FANS	C 1054	17			840	
13			1044	HOOD EXHAUST & SUPPLY FANS	A 2172	14			828	E RC
15	30/2	#10	2790	WATER HEATER	B 2510	18	20/2		960	AIR HANDLER UNIT
17			4750		C 2810	18			960	
18	20/1	#12	420	TV MONITORS	A 2948	20	60/2	#6	350	CONDENSER UNIT
31			370	CHART RECORDERS	B 4056	22			350	
33				SPACE	C 24					SPACE
35					A 28					
37					B 28					
39					C 30					
41					A 32					
					B 32					
					C 32					
					A 34					
					B 34					
					C 34					
					A 36					
					B 36					
					C 36					
					A 38					
					B 38					
					C 38					
					A 40					
					B 40					
					C 40					
					A 42					

PANEL: CA

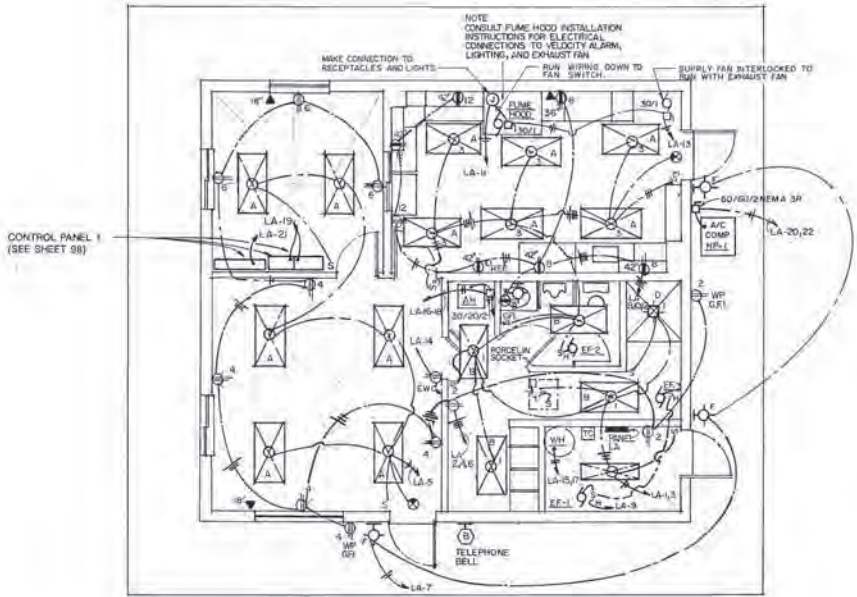
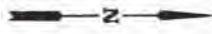
A = TIME SWITCH ON/OFF

LOAD	CRK NO.	WIRE SIZE	WIRE VA	TOTAL LOAD VOLT AMPS PHASE
LIGHTING	1	#2	870	1150
REC. REWARDER	18	#6	350	2948
TV MONITORS	18	#12	420	2948
CHART RECORDERS	31		370	4056
SPACE	33		24	24
SPACE	35		28	28
SPACE	37		28	28
SPACE	39		30	30
SPACE	41		32	32
SPACE	43		32	32
SPACE	45		34	34
SPACE	47		34	34
SPACE	49		36	36
SPACE	51		36	36
SPACE	53		38	38
SPACE	55		38	38
SPACE	57		40	40
SPACE	59		40	40
SPACE	61		42	42

LOCATION: ADMINISTRATION  
 VOLTAGE: 120/208/240 3P 4W  
 PHASE: 120/208/240 3P 4W  
 BUS AMPS: 100 A  
 NIA: YES  
 NIAH: YES  
 SUR FEED TYPE: 100  
 BRID FEED TYPE: 100

CRK NO. YES  
 HAVE BULK TEST  
 SOL. DR. TRIPLES  
 AVAL. SHEET DRG.  
 AMPS SYMAN: 10,000

LOADS: 24680  
 WIRE VA: 25500  
 TOTAL LOAD VOLT AMPS PHASE: 25500 3P 4W



ELECTRICAL PLAN  
SCALE: 1/4" = 1'-0"

ELECTRICAL SYMBOLS	
[Symbol]	SWITCH - SINGLE POLE
[Symbol]	SWITCH - 3 WAY
[Symbol]	TRANSFORMER (SEE MANUAL SWITCH WITH THERMAL OVERLOADS)
[Symbol]	RECEPTACLE - DUPLEX
[Symbol]	RECEPTACLE - DUPLEX
[Symbol]	RECEPTACLE - DUPLEX - WEATHERPROOF - GROUND FAULT
[Symbol]	TELEPHONE OUTLET
[Symbol]	EMT ABOVE CEILING AND IN WALLS
[Symbol]	CONCRETE
[Symbol]	24" UNDERGROUND & OUTSIDE
[Symbol]	DISCONNECT SWITCH - SIZE AS NOTED, FUSIBLE W.P. DESIGNATES WEATHERPROOF
[Symbol]	AS REQUIRED
[Symbol]	MOTOR AS NOTED
[Symbol]	SEE MECHANICAL PLAN
[Symbol]	ELECTRICAL PANEL - 120/208V
[Symbol]	SEE PANEL SCHEDULE
[Symbol]	ELECTRICAL PANEL - 277/48V
[Symbol]	SEE PANEL SCHEDULE
[Symbol]	244 LIGHT FIXTURE
[Symbol]	SEE FIXTURE SCHEDULE
[Symbol]	STRIP LIGHT FIXTURE
[Symbol]	SEE FIXTURE SCHEDULE
[Symbol]	INCANDESCENT LIGHT FIXTURE
[Symbol]	SEE FIXTURE SCHEDULE
[Symbol]	EXIT LIGHT FIXTURE
[Symbol]	SEE FIXTURE SCHEDULE
[Symbol]	DRY TYPE TRANSFORMER
[Symbol]	MOUNT ON FLOOR OR AS NOTED
[Symbol]	24 HOUR - 7 DAY - TIME CLOCK
[Symbol]	WALL MOUNTED
[Symbol]	LIGHT POLE
[Symbol]	SEE SCHEDULE
[Symbol]	TELEPHONE BELL (WP)

"RECORD DRAWINGS"

I hereby certify that these "RECORD DRAWINGS" have been prepared in accordance with the provisions of the Florida Statutes, Chapter 489, and that the same are true and correct copies of the original drawings as shown to me by the Engineer, and that the same are true and correct copies of the original drawings as shown to me by the Engineer.

ENGINEERING MATRIX, INC.  
 MARKING 845 OFFICE CENTER  
 1732 S.W. 151 STREET  
 CLEARWATER, FLORIDA 34624  
 (813) 522-1000 (813) 277-1120

DATE	REV. BY	REV. BY	REV. BY	REV. BY	REVISION

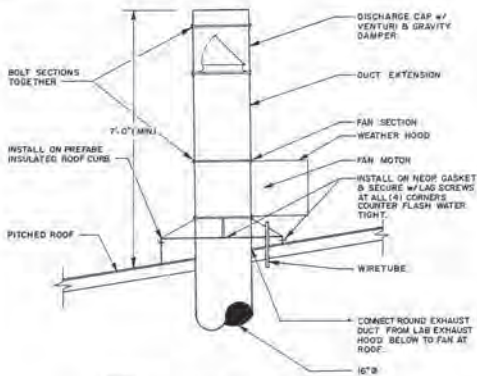
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 BROOKSVILLE, FLORIDA 34601  
 TEL. (813) 798-9423 FAX. (813) 798-8839

LAB / ADMINISTRATION BUILDING  
 ELECTRICAL

RIDGE MANOR WEST SUBREGIONAL  
 WASTEWATER TREATMENT PLANT

SHEET  
 64  
 OF 108 SHEETS  
 8977



NOTE:  
FAN SECTION, WEATHER HOOD, EXTENSION, DISCHARGE CAP TO BE SUPPLIED BY A SINGLE FAN MFG. & NOT FIELD FABRICATED.

**EXHAUST FAN/STACK DETAIL**  
NOT TO SCALE

AIR DEVICE SCHEDULE							
MARK	FACE SIZE	NECK SIZE	MATERIAL	ACCESSORIES	FINISH	MANUFACTURER & MODEL	NOTES
(B)	18"X18"	SEE PLANS	ALUM.	O.B.D.	WHITE	METAL-AIRE 7000-1	(1)
(C)	24"X24"	SEE PLANS	ALUM.	O.B.D.	WHITE	METAL-AIRE 7000-1	(1)
(D)	24"X33"	18"X30"	ALUM.	---	ALUM.	METAL-AIRE HO-18	(1)
(E)	---	36"X12"	ALUM.	---	ALUM.	METAL-AIRE GAL-2F	(2) (3)
(F)	---	12"X12"	GALV. STEEL	(4) (5)	---	PENN. WARETTE	(1) (2)

- (1) PROVIDE WITH SQUARE TO ROUND TRANSITION TO MATCH SIZE INDICATED ON DRAWINGS
- (2) PROVIDE WITH BRD & INSECT SCREEN
- (3) B.U.D. 36"X24"X12" PLEXUM AND CONNECT TO 12"X10" DUCT.
- (4) PROVIDE 3 COATS OF HIGH QUALITY VINYL PAINT
- (5) PROVIDE W/ PREFABRICATED ROOF CURB
- (6) PROVIDE W/ 1" FILTER

SPLIT SYSTEM A/C WITH HEAT PUMP SCHEDULE			
AIR HANDLING UNIT DATA			
MARK			HP-1
COOLING CAPACITY	BTUH	86,000	
SENSIBLE CAPACITY	BTUH	35,500	
SUPPLY AIR	CFM	2,000	
OUTSIDE AIR	CFM	650	
MINIMUM SEER	BTUH/WATT	9.25	
ENTERING AIR TEMP @ 40 F	"F / °F"	65 / 71	
EXT. STATIC PRESSURE	(IN. H <sub>2</sub> O)	.5	
REVERSE CYCLING HEATING CAPACITY AT 40 F	BTUH	65,500	
MINIMUM COP AT 47 F		3.04	
AUXILIARY HEATER	KWH/STAGES	---	
MOTOR	H.P.	3/4	
ELECTRICAL	V/A	200/230/1	
FILTER TYPE		DISPOSABLE F	
MANUFACTURER		TRANE	
MODEL NUMBER		TWV060B	
NOTES		(1)	

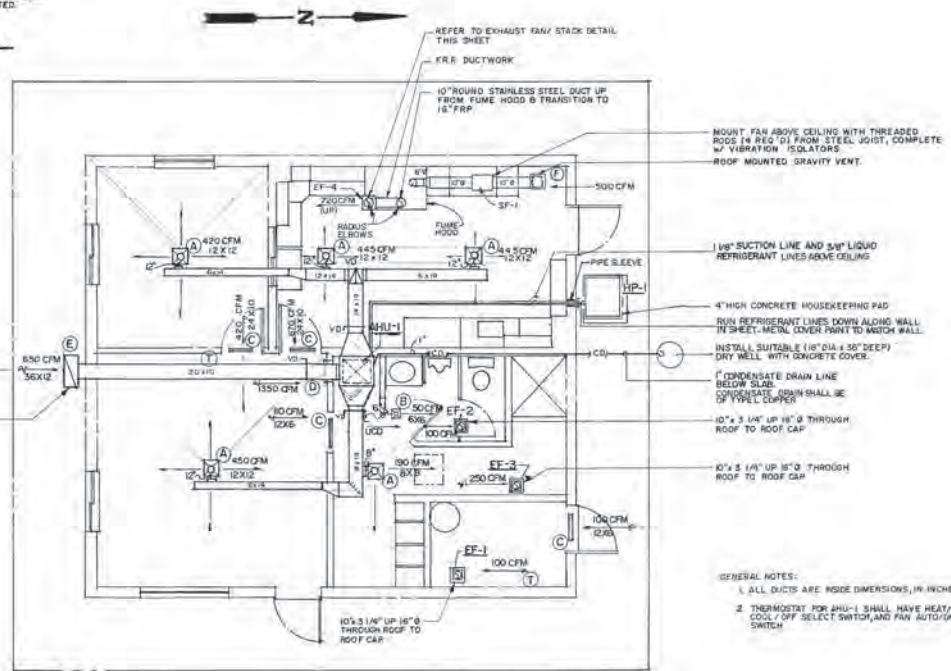
CONDENSING UNIT DATA		
MARK		HP-1
OUTDOOR TEMPERATURE	"F"	95
ELECTRICAL	V/A	200/230/1
R.L.A. (COMPRESSOR)	AMPS	31.3
MANUFACTURER		TRANE
MODEL NUMBER		TWD 7608
NOTES		(1) PROVIDE TRANE 84"X30"X13 PLEXUM-PEDESTAL

FAN SCHEDULE					
UNIT NUMBER		EF-1	EF-2	EF-3	EF-4
SERVICE		STORAGE RESTROOM	SHOWER	HOOD	HOOD
AIR QUANTITY	CFM	100	250	500	700
EXT. STATIC PRESSURE	(IN. H <sub>2</sub> O)	.05	.05	.75	.5
FAN TYPE		CABINET	CABINET	TUBULAR CEILING	TUBULAR CEILING
MAXIMUM RPM SPEED	RPM	1050	1050	---	1150
DRIVE		IN-LINE	IN-LINE	IN-LINE	CURB MOUNTED
RODES		1.4	2.6	---	---
MOTOR	W	50	105	21 BHP	13 BHP
ELECTRICAL	V/A/HZ	115/1/60	115/1/60	115/1/60	115/1/60
CONTROLS		(1)	(2)	(3)	(4)
LOCATION		STORAGE RESTROOM	SHOWER	LAB HOOD	LAB HOOD
MANUFACTURER		PENN.	PENL	BAYLEY	BAYLEY
MODEL		ZEPHYR 2-S.T.O.	ZEPHYR 2-S.T.O.	SL105 BC	FH122-10
NOTES		(1) (5)	(6)	---	---

- (1) EF-1 TO BE CONTROLLED BY LIGHT SWITCH; EF-2 TO BE CONTROLLED BY THERMOSTAT SET TO ENABLE FAN AT TEMPERATURE ABOVE 80°F
- (2) EF-3 SHALL BE INTERLOCKED WITH AHU-1
- (3) FURNISH WITH SL30 ROOF CAP

**HVAC LEGEND**

- SUPPLY DIFFUSER
- SPIN-IN FITTING (FOR FLEX)
- FLEX DUCT
- RIGID DUCT
- ELBOW WITH TURNING VANES
- EXHAUST FAN
- THERMOSTAT
- CONDENSATE DRAIN LINE
- VOLUME DAMPER
- SUPPLY
- RETURN
- UNDER CUT DOOR



**HVAC PLAN**  
SCALE: 1/8" = 1'-0"

RECORD DRAWINGS  
FIELD ENGINEER: \_\_\_\_\_ Date: \_\_\_\_\_  
P. E. No. 20222

**ENGINEERING MATRIX, INC.**  
1735 U.S. 19 SOUTH  
CLEARWATER, FL 34624-3482  
(813) 535-5300 (813) 777-0125

DATE	REV.	BY	CHK.	REV.	REVISION

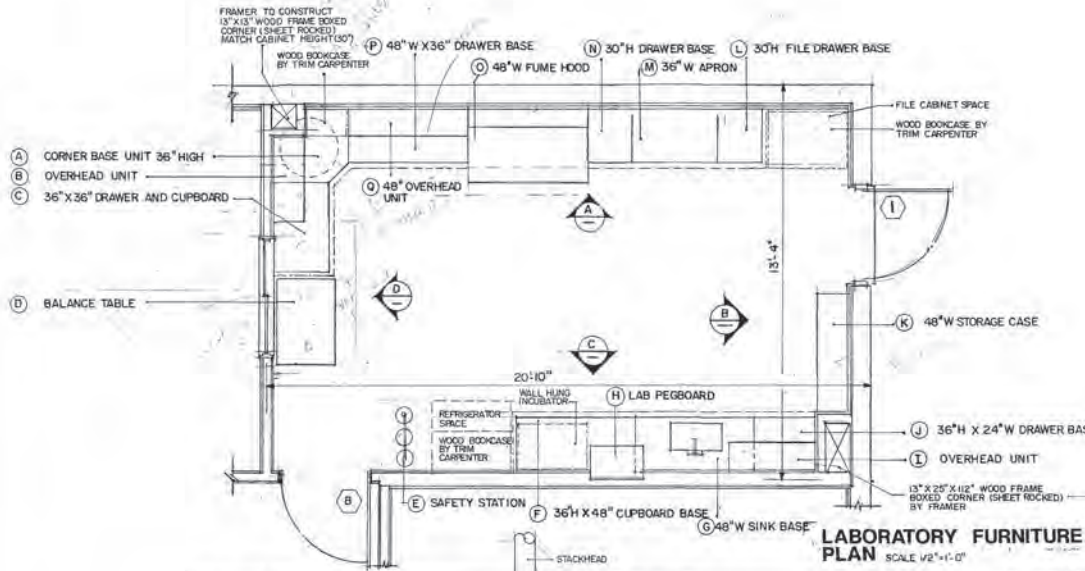
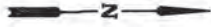
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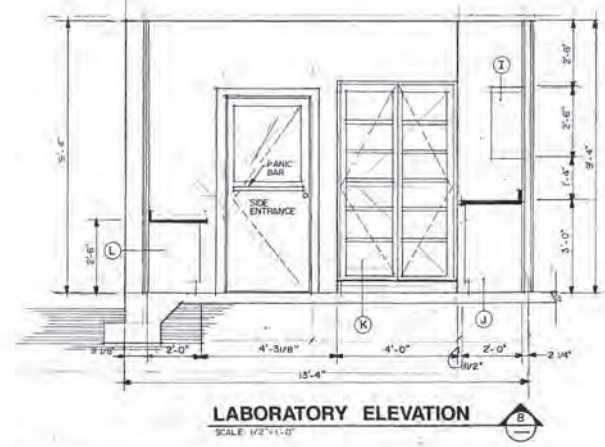
**LAB / ADMINISTRATION BUILDING HVAC PLAN**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

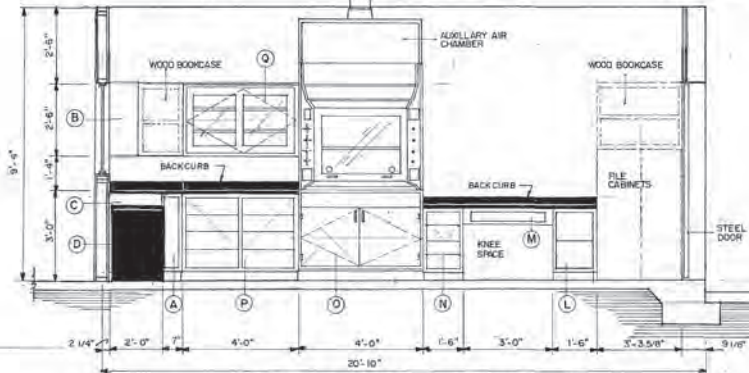
SHEET  
**65**  
OF 108 SHEETS  
8977



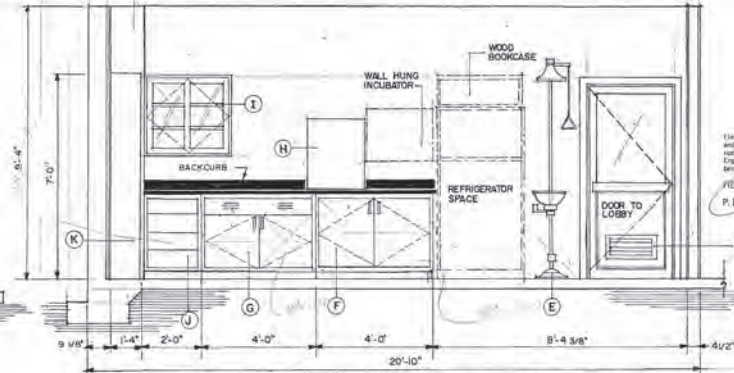
**LABORATORY FURNITURE PLAN**  
SCALE 1/2"=1'-0"



**LABORATORY ELEVATION B**  
SCALE 1/2"=1'-0"



**LABORATORY ELEVATION A**  
SCALE 1/2"=1'-0"



**LABORATORY ELEVATION C**  
SCALE 1/2"=1'-0"

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are based upon the contract documents, drawings and other information furnished to me by the Contractor, and shall stop construction to the extent of any discrepancy.  
FIELD ENGINEER  
P. E. No. 65557  
Date: 01/24/92

DATE	REV.	BY	P.L. NO.	REV. NO.	REVISION

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**LAB / ADMINISTRATION BUILDING  
INTERIOR ELEVATIONS**

**RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT**

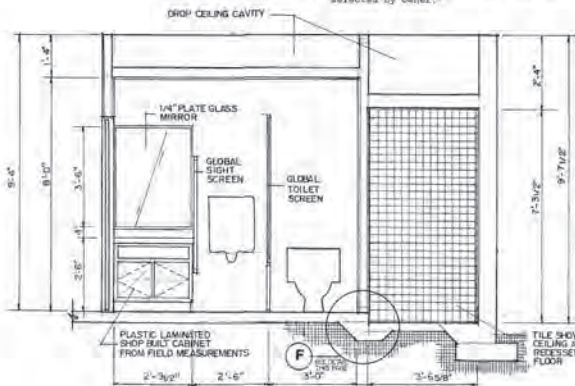
SHEET  
**66**  
OF 109 SHEETS  
7/8" = 1'-0"  
8977

Notes (Toilet Compartments):

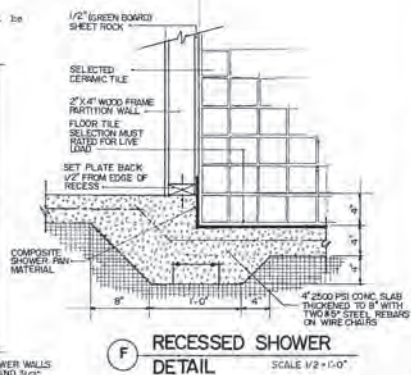
- Toilet and sight screens shall be constructed of 10 gage banded and galvanized steel facings enclosing a sound deadening honeycomb core. Panels, plasters, doors and screens shall be finished with a two component polyurethane based enamel finish that has been electrostatically applied and baked to 320°F. Finish thickness of panels and screens shall be 1".
- Doors shall be 22 gage and otherwise constructed consistent with panels and screens. Door shall have latch.
- Plasters shall be floor supported style.
- Toilet compartments shall be Lamson, General Partitions Manufacturing Corporation, or equal.

Notes (Ceramic Tile):

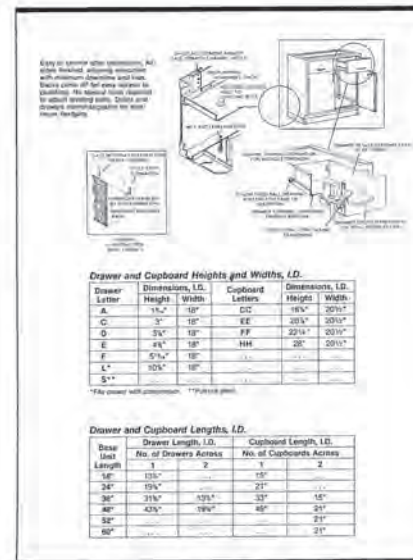
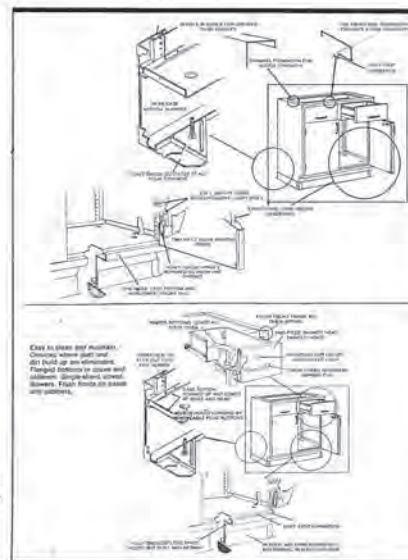
- Ceramic tile in shower floor shall be unglazed, ceramic mosaic with cushion edges factory mounted modular series sized 3" x 2" standard, 1/4" thickness. Average absorption not to exceed 1/2 of 11.
- Ceramic tile on walls of shower shall be satin glazed 1/4" x 4 1/4" x 3/16" thick, include covered base.
- Supply extra 1% of total quantity of each type of tile used on the project and place such tile in bins, marked containers for Owner's curcure use.
- Ceramic tile shall comply with ANSI A107.1 "American National Standards Specifications for Ceramic Tile." Furnish tile complying with "Standard Grade".
- Colors of ceramic tile and grout shall be selected by Owner.



TOILET ELEVATION  
SCALE 1/2" = 1'-0"

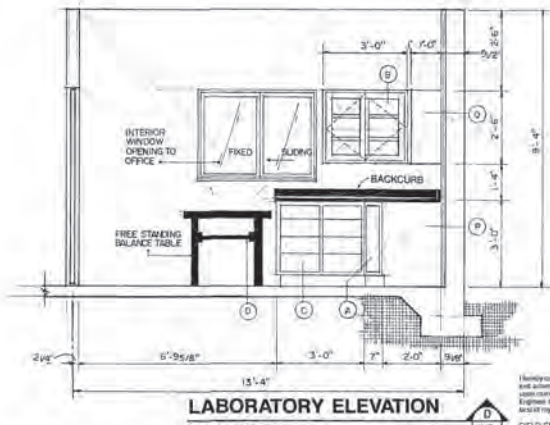


RECESSED SHOWER DETAIL  
SCALE 1/2" = 1'-0"



Drawer and Cabinet Heights and Widths, I.D.

Base Unit Length	No. of Drawers Across	Drawer Length, I.D.	No. of Cupboards Across	Cupboard Length, I.D.
18"	1	18"	2	21"
24"	1	24"	2	27"
36"	2	18"	2	21"
48"	3	16"	2	21"
60"	4	15"	2	21"



LABORATORY ELEVATION  
SCALE 1/2" = 1'-0"

LABORATORY FURNITURE SCHEDULE

GROUP	DESCRIPTION	MODEL NO.	GROUP	DESCRIPTION	MODEL NO.	GROUP	DESCRIPTION	MODEL NO.
A	CORNER BASE CABINET LAZY SUSAN KIT CORNER WORK TOP 1-48" BASE MOLDING SECTION	VFG-2149-00 VFG-2149-15 VFR-3333-01 VFF-0882-04	I	OVERHEAD UNIT WALL MOUNTED STORAGE CAB WALL CASE SOFFIT PANEL GLASS DOOR/SET (OF 2)	VFW-1116-00 VFL-1238-00 VFW-3601-PR	O	END CAP FILLER 2-FRONT END CURB(4' HIGH) FLUME HOOD SUPERSTRUCTURE FLUME HOOD BASE CABINET KEMRESIN HOOD WORKTOP KEMRESIN CURT DRAIN FILLER PANEL LIGHT KIT VELOCITY ALARM AUXILIARY AIR CHAMBER AUXILIARY AIR RIN STOCKHEAD FAN INLET ADAPTER IDENTIFY ASSEMBLY (2 EA) DRAINLINE SUPPORT DRAINLINE PIPE CLAMP 2-48" BASE MOLDING SECTIONS 2-BASE MOLDING CLIPS	VFL-1509-00 VFR-2204-PR VFS-0114-2N VFS-2088-00 VFS-0104-04 VF-0491-00 VFL-0225-1A VFS-0104-3W VFS-0464-02 VFS-3501-A2 VFS-3400-00 VFS-3428-00 VFK-0212-04 VFR-0005-04 VFR-0005-04 VFF-0882-04 VFF-1368-00
B	OVERHEAD UNIT WALL MOUNTED STORAGE CAB. WALL CASE SOFFIT PANEL GLASS DOOR/SET (OF 2)	VFW-1116-00 VFL-1238-00 VFW-3601-PR	J	DRAWER BASE CABINET KEMRESIN WALL CURB KEMRESIN WALL CURB 1-48" BASE MOLDING SECTION 4 DRAWER HEADS	VFD-2304-00 VFR-2424-04 VFR-2404-8C VFR-0962-04 VFW-0732-20	P	DRAWER BASE CABINET 3 DRAWER HEADS KEMRESIN TOP KEMRESIN WALL CURB 1-48" BASE MOLDING SECTION	VFD-2328-00 VFR-0722-20 VFR-0962-04 VFR-0962-04
C	DRAWER AND CUPBOARD BASE KEMRESIN TOP WALL CURB 2-48" BASE MOLDING SECTIONS 1-BASE MOLDING CLIP 1-SCRIBE STRIP 3 DRAWER HEADS	VFE-2436-00 VFR-3624-0N VFR-3624-8C VFF-0882-04 VFF-1368-00 VFL-0400-01 VFR-0715-20	K	FULL HEIGHT STORAGE CASE 1-48" BASE MOLDING SECTION GLASS DOOR/SET (OF 2) 1-BASE MOLDING CLIP	VFS-2118-01 VFS-2111-01 VFS-2116-01 ST 2 VFF-1368-00	Q	OVERHEAD UNIT-WALL MOUNTED STORAGE CAB. WALL CASE SOFFIT PANEL GLASS DOOR/SET (OF 2)	VFW-1118-00 VFL-1248-00 VFW-4801-PR
D	BALANCE TABLE	1/F7-6590-00	L	DRAWER BASE CABINET 2-FILE DRAWERS	VFD-1812-00 VFR-1115-20			
E	SAFETY STATION	VF-0503-SE	M	DESK APRON DRAWER HEAD KEMRESIN TOP KEMRESIN WALL CURB WHEEL SPACE FILLER PANEL WALL ANCHORS (2 EA)	VFA-3622-1A VFR-0222-20 VFR-2222-0N VFR-2204-8C VFL-0085-0A VFL-0410-00			
F	CUPBOARD BASE CABINET KEMRESIN TOP WALL CURB BASE MOLDING SECTION 1-BASE MOLDING CLIP 1-SCRIBE STRIP	VFC-2038-00 VFR-4824-0N VFR-4804-8C VFF-0962-04 VFF-1368-00 VFL-0400-01	N	DRAWER BASE CABINET DRAWER HEAD (3EA)	VFD-1262-00 VFR-0715-20			
G	SINK BASE CABINET KEMRESIN SINK TOP KEMRESIN TUBSINK POLYETHYLENE TRAP & SINK OUTLET CROSSMECK DECK FLUCT 1-48" BASE MOLDING SECTION GOOSENECK COUPLING	VFG-2008-02 VFR-4824-0N VFR-007-00 VF-0462-00 VF-0540-00 VFR-0882-04 VFT-0202-00			VFE-0962-04 VFR-1368-00			
H	LABORATORY PEGBOARD PEGBOARD BRACKETS	VF7 1502-RT VFM-0031-0A			VFR-4804-8C VFR-3604-8C			

NOTES:  
1 ALL LABORATORY FURNITURE SPECIFIED ABOVE IS BASED UPON THE REDISHP PRODUCT LINE, AS MANUFACTURED BY THE KEWUNICE SCIENTIFIC CORPORATION AND DISTRIBUTED BY IABR INDUSTRIES, MARLBOROUGH, MA. (1-800)244-3400. ANY CHANGES OR SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER.  
2 PLUMBING FIXTURES OF THIS PRODUCT LINE ALSO APPEAR ON THE PLUMBING SCHEDULE PAGE. COMPARE FOR COMPLETE ORDER.

DATE	REV.	BY	PC	REV.	REVISION
11-18-87	01	GEH	16948	Δ	ADDENDUM NO. 1

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FIELD ENGINEER  
P. E. No. 26221

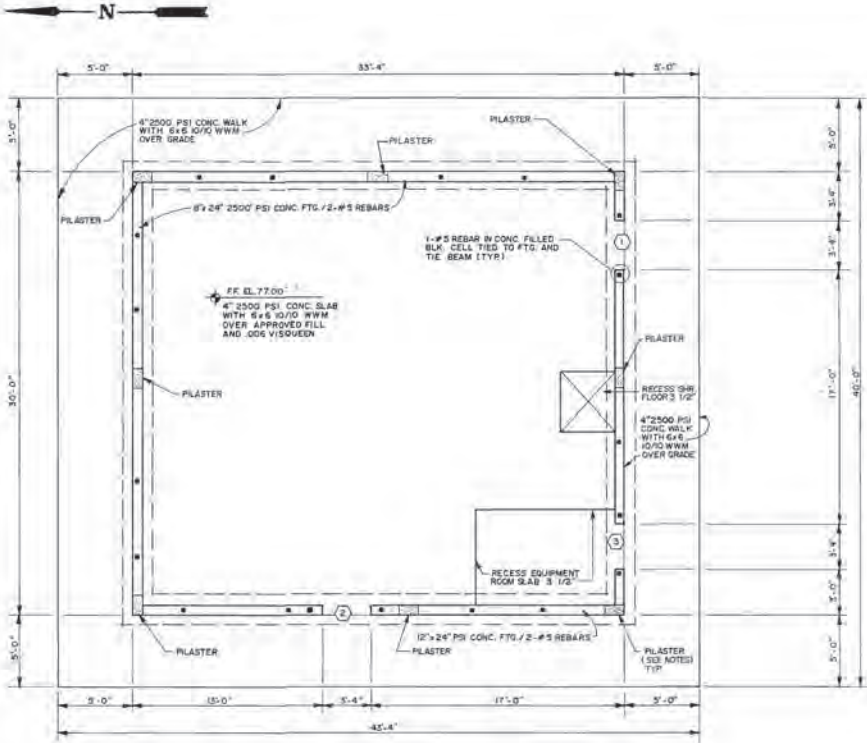
**Coastal Engineering Assoc., Inc.**  
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966 CANDELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL. (204) 798-8423 FAX (204) 798-8359  
OWNER: RAB Date: 11-18-87 Engineer: G.H. Job: 1118-87

LAB / ADMINISTRATION BUILDING  
INTERIOR ELEVATIONS  
RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

SHEET  
**67**  
OF 108 SHEETS  
977

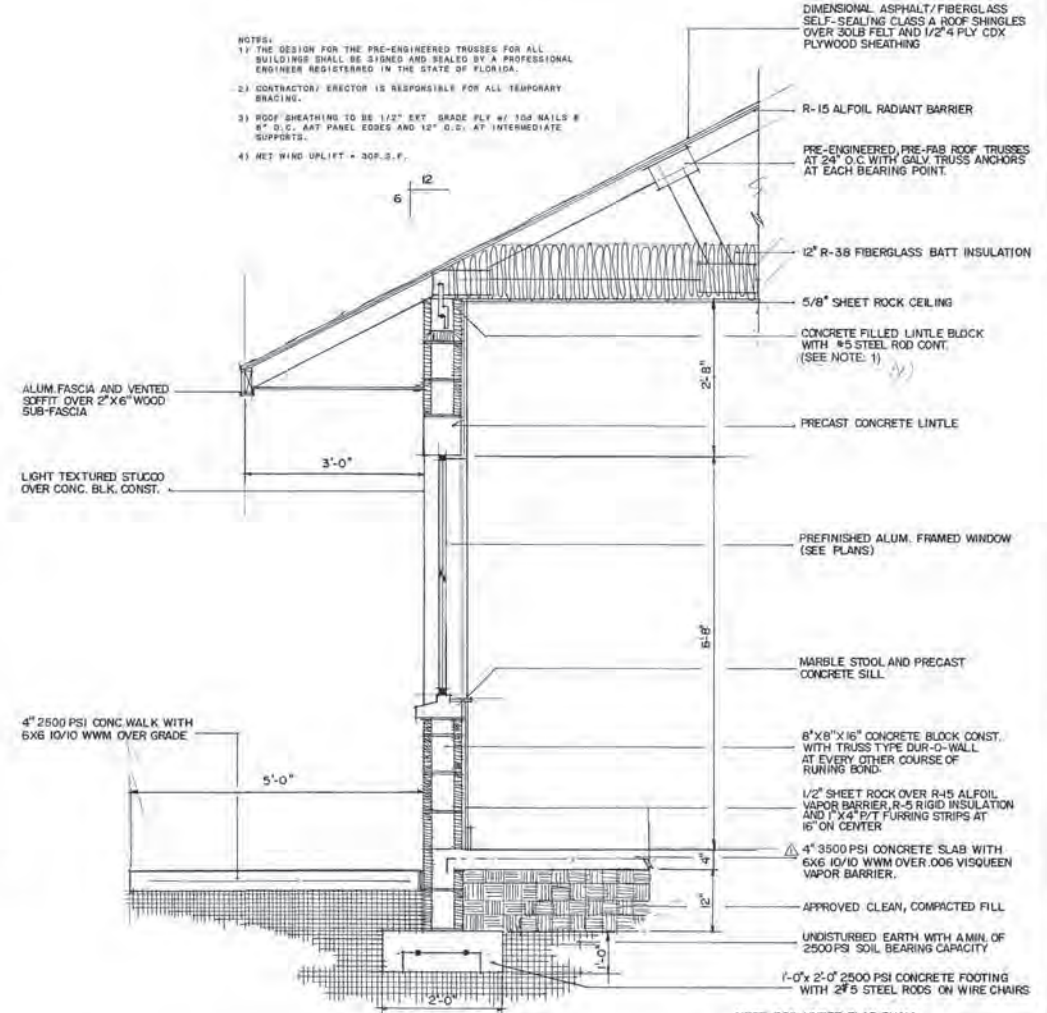


- NOTES:
- 1) ALL TIE BEAMS SHALL BE 8" x 16" FOURED WITH 4-#5 WITH #3 STIRRUPS @ 8" O.C.
  - 2) ALL PILASTER SHALL BE 8" x 16" FOURED WITH 4-#5 WITH #3 TIES @ 8" O.C. DISTANCE BETWEEN PILASTERS SHALL NOT EXCEED 10'-0" O.C.
  - 3) PILASTER VERTICAL REINF. DOWNELS SHALL HAVE A CLASS C LAP SPLICE.
  - 4) ALL COLUMN REINF. SHOULD BE CONTINUOUS FROM BOT. OF FTG. TO TOP OF BEAM AND HOOK INTO BEAM.
  - 5) CONCRETE COVER OVER TIE AND STIRRUP REINFORCING SHALL BE 1 1/2".
  - 6) BLOCK MASONRY SHALL BE TIED TO PILASTER COLUMNS WITH SOVE TIE ANCHORS, BY EXTENDING HORIZ. JOINT REINF. INTO PILASTER OR BY ROTATING ALTERNATING BLOCKS VERTICALLY TO ALLOW CONCRETE TO POUR INTO BLOCKS.



FOUNDATION PLAN  
SCALE 1/4" = 1'-0"

- NOTES:
- 1) THE DESIGN FOR THE PRE-ENGINEERED TRUSSES FOR ALL BUILDINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
  - 2) CONTRACTOR/ERECTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING.
  - 3) ROOF SHEATHING TO BE 1/2" EXT GRADE FLY #7 10d NAILS @ 8" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS.
  - 4) HET WIND UPLIFT = 30P.S.F.



TYPICAL WALL SECTION  
SCALE 1/4" = 1'-0"

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are based upon field notes, photos, sketches and other information furnished to me by the Contractor, and were prepared and issued in accordance with the provisions of the Florida Building Code and other applicable laws and regulations.  
FIELD ENGINEER: [Signature] DATE: 02/26/11  
P/E No. 36534

NOTE: SOIL UNDER SLAB SHALL BE TERMITES PROTECTED PER HERNANDO COUNTY ORDINANCE #87-29, SECTION 1703.1.2

NOTE: ALL COLORS ARE TO BE SELECTED BY THE OWNER

DATE	REV. BY	REV. BY	REV. NO.	REVISION
11/11/11	S.E.N.	G.E.H.	18948	ADDENDUM NO. 1

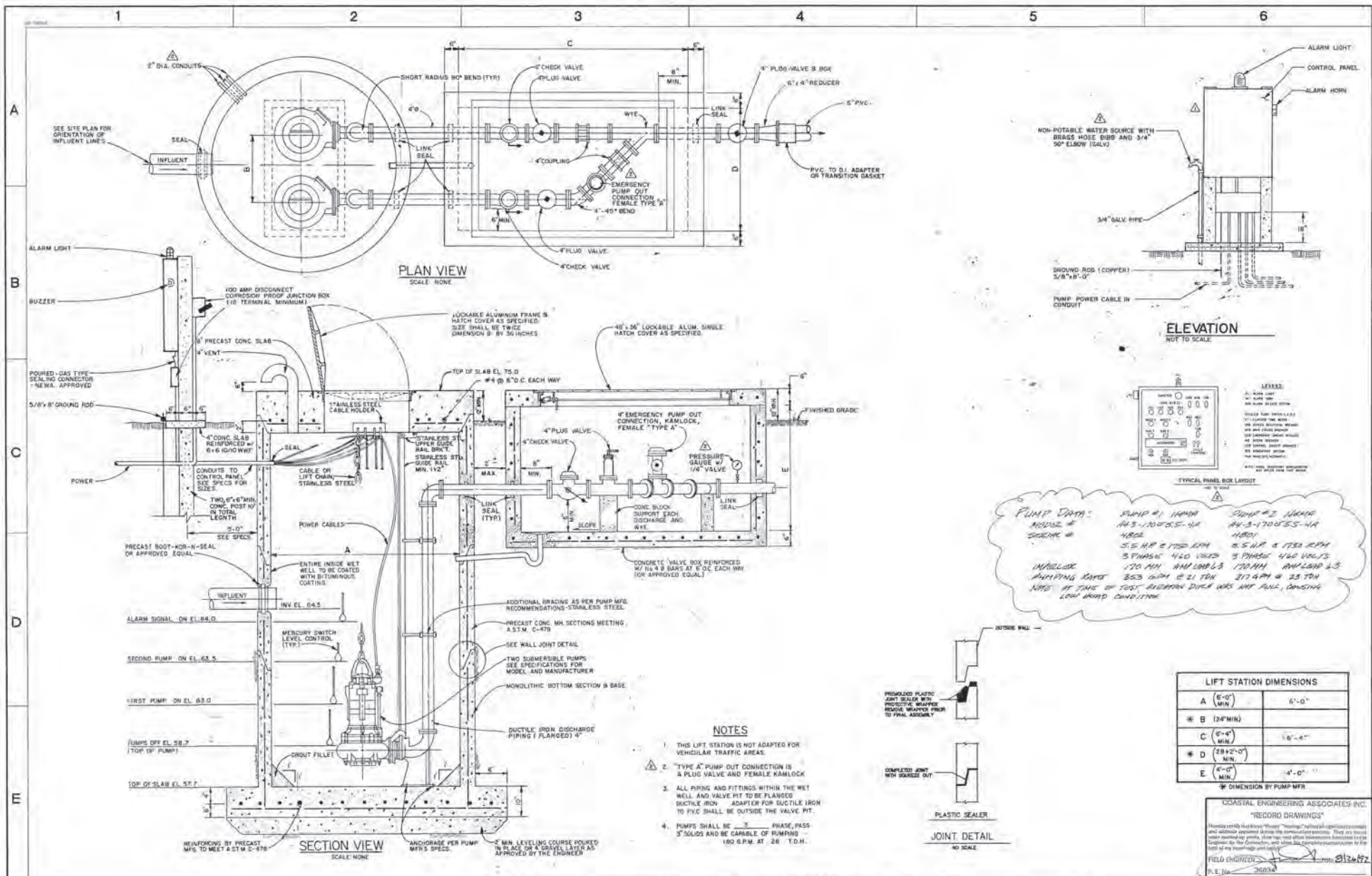
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BROOKSVILLE, FLORIDA 34601  
TEL (804) 788-8423 FAX (804) 788-8559  
OWNER: G.H. TITLE: R.A.W. ENGINEER: G.H. DATE: 10/11/10

LAB / ADMINISTRATION BUILDING  
WALL SECTIONS

RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

SHEET  
**68**  
OF 108 SHEETS  
8977



**PUMP DATA:**

PUMP #1	1000	PUMP #2	1000
MODEL #	AV-3-1700/35-1A	MODEL #	AV-3-1700/35-1A
SIZE	480	SIZE	480
3 PHASE @ 1700 RPM	25 HP @ 1750 RPM	3 PHASE @ 1700 RPM	25 HP @ 1750 RPM
3 PHASE 440 VOLTS	3 PHASE 440 VOLTS	3 PHASE 440 VOLTS	3 PHASE 440 VOLTS
170 AMP	170 AMP	170 AMP	170 AMP
353 GPM @ 21 TON	317 GPM @ 23 TON		

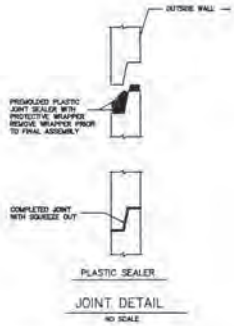
NOTE: AT TIME OF TEST, INFLUENT DUCT WAS NOT FULL, CAUSING LOW FLOW CONDITIONS.

- NOTES**
- THIS LIFT STATION IS NOT ADAPTED FOR VEHICULAR TRAFFIC AREAS.
  - "TYPE A" PUMP OUT CONNECTION IS A PLUG VALVE AND FEMALE KAMLOCK.
  - ALL PIPING AND FITTINGS WITHIN THE WET WELL AND VALVE PIT TO BE FLANGED DUCTILE IRON. ADAPTER FOR DUCTILE IRON TO PVC SHALL BE OUTSIDE THE VALVE PIT.
  - PUMPS SHALL BE 3 PHASE, PASS 3 SOLIDS AND BE CAPABLE OF PUMPING 180 G.P.M. AT 28 T.O.H.

**LIFT STATION DIMENSIONS**

A (6'-0" MIN.)	6'-0"
* B (24" MIN.)	
C (6'-4" MIN.)	6'-4"
* D (28 1/2'-0" MIN.)	
E (4'-0" MIN.)	4'-0"

\* DIMENSION BY PUMP MFR



COASTAL ENGINEERING ASSOCIATES, INC.  
 "RECORD DRAWINGS"  
 Having verified that these "Record Drawings" reflect all specifications, conditions and alterations approved during the construction process. They are based upon the as-built conditions, show the work and other items as constructed to the Engineer by the Contractor, and show the Contractor's acceptance of the work as shown on these drawings and specifications.  
 FIELD ENGINEER: [Signature]  
 P.E. No. 36882

**REVISIONS**

DATE	REV. BY	REV. BY	DESCRIPTION	DATE	REV. BY	REV. BY	DESCRIPTION
11/4/81	S.E.H.	GEH.	ADDENDUM NO. 1				
10-25-91	MCH	GEH.	MISC CHGS AND ADDS				
8/29/92	S.E.H.						

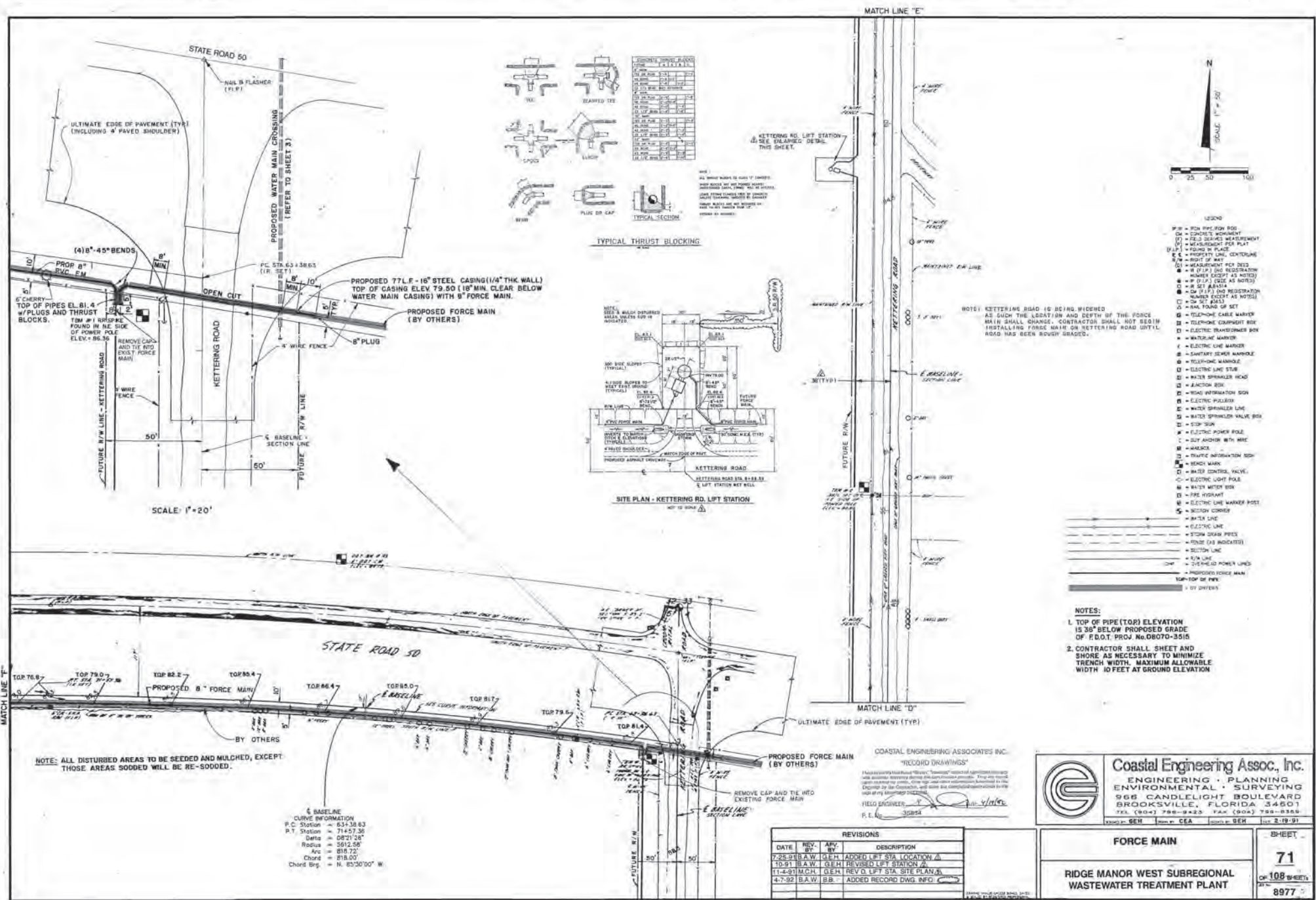


**Coastal Engineering Associates, Inc.**  
 CONSULTING ENGINEERS  
 966 CANDLELIGHT BLVD.  
 BROOKSVILLE, FL. 34601  
 TELEPHONE (904) 798-9423

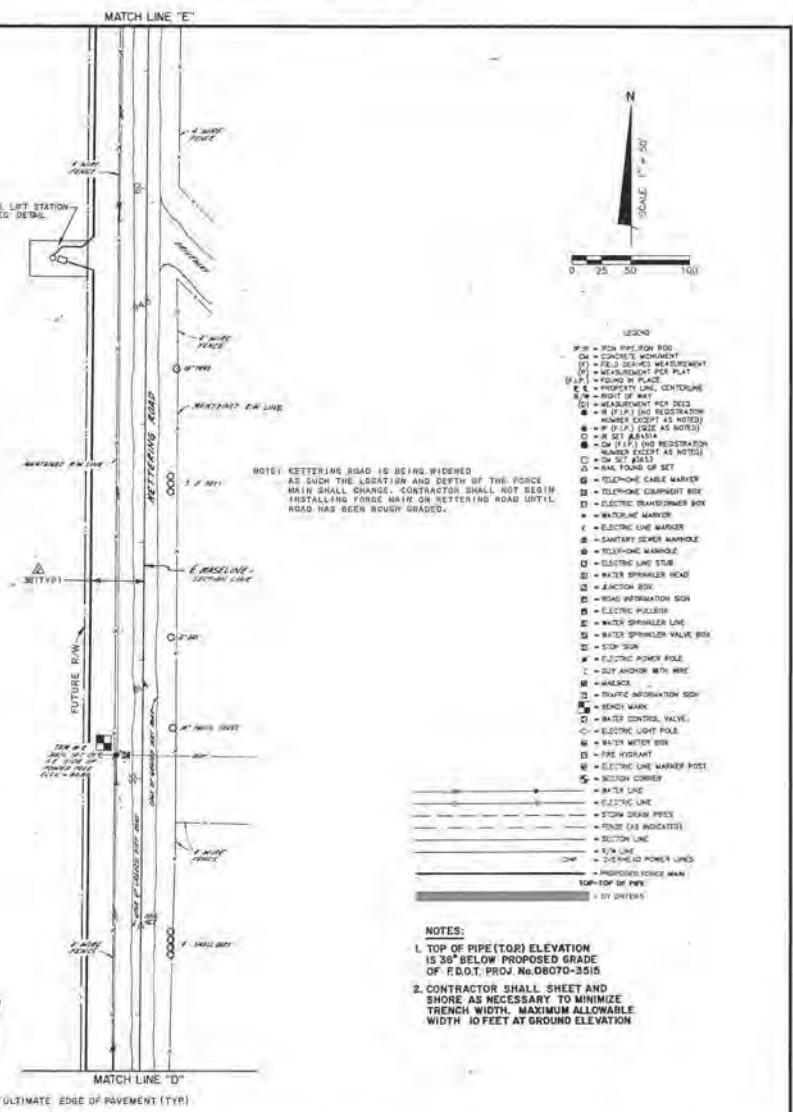
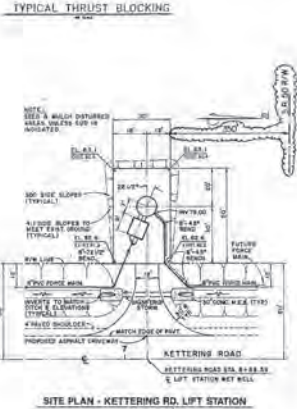
**ON SITE LIFT STATION**  
 RIDGE MANOR WEST SUBREGIONAL  
 WASTEWATER TREATMENT PLANT

**SHEET**  
**69**  
 OF SHEETS  
 108  
 8977





ITEM	DESCRIPTION	QUANTITY
1	1/2\"/>	



- LEGEND
- = 30\"/>

- NOTES:
- TOP OF PIPE (TOP) ELEVATION IS 36\"/>
  - CONTRACTOR SHALL SHEET AND SHORE AS NECESSARY TO MINIMIZE TRENCH WIDTH. MAXIMUM ALLOWABLE WIDTH IS FEET AT GROUND ELEVATION

NOTE: ALL DISTURBED AREAS TO BE SEEDED AND MULCHED, EXCEPT THOSE AREAS SODED WILL BE RE-SODED.

BASELINE CURVE INFORMATION

P.C. Station	= 63+38.63
P.T. Station	= 71+57.36
Delta	= 082° 28'
Radius	= 5912.50'
Arc	= 818.72'
Chord	= 818.00'
Chord Brg.	= N. 85°30'00\"/>

COASTAL ENGINEERING ASSOCIATES INC.  
 "RECORD DRAWINGS"  
 FIELD ENGINEER: [Signature]  
 P. E. NO. 38884

REVISIONS		
DATE	REV. BY	DESCRIPTION
7-25-91	B.A.W./G.E.H.	ADDED LIFT STA. LOCATION
10-31-91	B.A.W./G.E.H.	REVISED LIFT STATION
11-4-91	M.C.H./G.E.H.	REV'D LIFT STA. SITE PLAN
4-7-92	B.A.W./B.B.	ADDED RECORD DWG. INFO.

**Coastal Engineering Assoc., Inc.**  
 ENGINEERING · PLANNING  
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 BROOKSVILLE, FLORIDA 34601  
 TEL. (813) 778-9923 FAX (813) 778-9926

**FORCE MAIN**

SHEET  
**71**  
OF 108 SHEETS  
8977

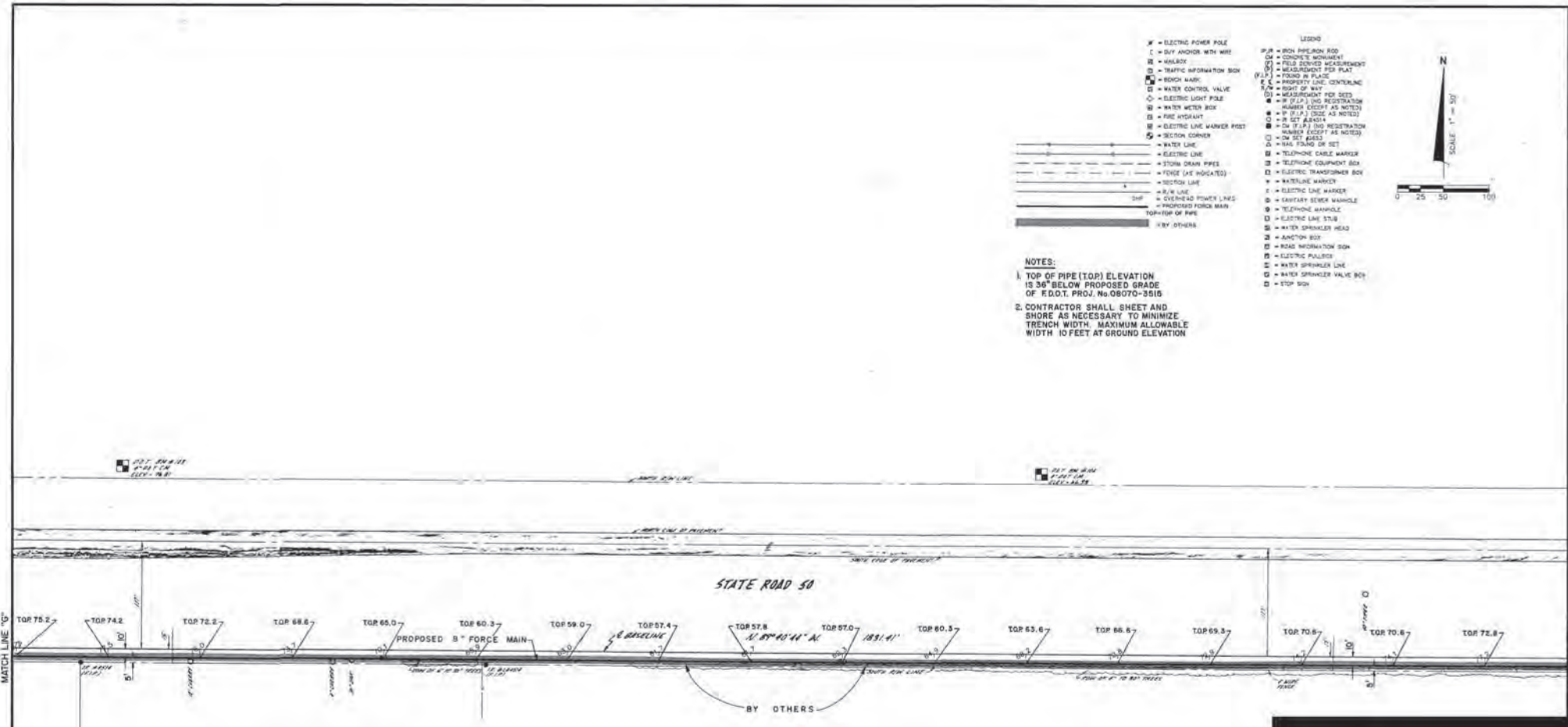
- ⊗ = ELECTRIC POWER POLE
- ⊕ = GUY ANCHOR WITH WIRE
- ⊞ = HOLEBOX
- ⊠ = TRAFFIC INFORMATION SIGN
- ⊡ = BENCH MARK
- ⊣ = WATER CONTROL VALVE
- ⊙ = ELECTRIC LIGHT POLE
- ⊚ = WATER METER BOX
- ⊛ = FIRE HYDRANT
- ⊜ = ELECTRIC LINE MARKER POST
- ⊝ = SECTION CORNER
- ⊞ = WATER LINE
- ⊟ = ELECTRIC LINE
- ⊠ = STORM DRAIN PIPES
- ⊡ = FENCE (AS INDICATED)
- ⊢ = SECTION LINE
- ⊣ = R/W LINE
- ⊤ = OVERHEAD POWER LINES
- ⊥ = PROPOSED FORCE MAIN
- ⊦ = TOP-OF-PIPE
- ⊧ = ETC. OTHERS

- LEGEND
- ⊞ = IRON SPIRE/IRON ROD
  - ⊟ = CHURCH'S MONUMENT
  - ⊠ = FIELD SKINNED MEASUREMENT
  - ⊡ = MEASUREMENT FOR PLAT
  - ⊣ = FOUND IN PLACE
  - ⊤ = PROPERTY LINE CONTROLING
  - ⊥ = RIGHT OF WAY
  - ⊦ = MEASUREMENT FOR DEED
  - ⊧ = R (I.P.) (NO REGISTRATION NUMBER EXCEPT AS NOTED)
  - ⊨ = R (I.P.) (I.D.E. AS NOTED)
  - ⊩ = R (I.P.) (I.D.E. AS NOTED)
  - ⊪ = R (I.P.) (I.D.E. AS NOTED)
  - ⊫ = R (I.P.) (I.D.E. AS NOTED)
  - ⊬ = R (I.P.) (I.D.E. AS NOTED)
  - ⊭ = R (I.P.) (I.D.E. AS NOTED)
  - ⊮ = R (I.P.) (I.D.E. AS NOTED)
  - ⊯ = R (I.P.) (I.D.E. AS NOTED)
  - ⊰ = R (I.P.) (I.D.E. AS NOTED)
  - ⊱ = R (I.P.) (I.D.E. AS NOTED)
  - ⊲ = R (I.P.) (I.D.E. AS NOTED)
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  - ⊿ = R (I.P.) (I.D.E. AS NOTED)
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  - ⊧ = R (I.P.) (I.D.E. AS NOTED)
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  - ⊫ = R (I.P.) (I.D.E. AS NOTED)
  - ⊭ = R (I.P.) (I.D.E. AS NOTED)
  - ⊱ = R (I.P.) (I.D.E. AS NOTED)
  - ⊵ = R (I.P.) (I.D.E. AS NOTED)
  - ⊹ = R (I.P.) (I.D.E. AS NOTED)
  - ⊻ = R (I.P.) (I.D.E. AS NOTED)
  - ⊿ = R (I.P.) (I.D.E. AS NOTED)
  - ⊠ = R (I.P.) (I.D.E. AS NOTED)
  - ⊡ = R (I.P.) (I.D.E. AS NOTED)
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  - ⊥ = R (I.P.) (I.D.E. AS NOTED)
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  - ⊱ = R (I.P.) (I.D.E. AS NOTED)
  - ⊵ = R (I.P.) (I.D.E. AS NOTED)
  - ⊹ = R (I.P.) (I.D.E. AS NOTED)
  - ⊻ = R (I.P.) (I.D.E. AS NOTED)
  - ⊿ = R (I.P.) (I.D.E. AS NOTED)



**NOTES:**

- TOP OF PIPE (TOP) ELEVATION IS 3" BELOW PROPOSED GRADE OF F.D.O.T. PROJ. No.08070-3515
- CONTRACTOR SHALL SHEET AND SHORE AS NECESSARY TO MINIMIZE TRENCH WIDTH. MAXIMUM ALLOWABLE WIDTH 10 FEET AT GROUND ELEVATION



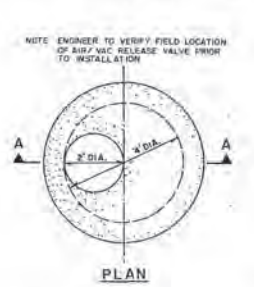
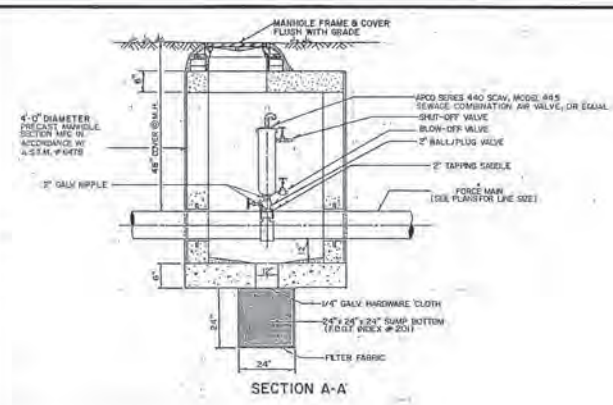
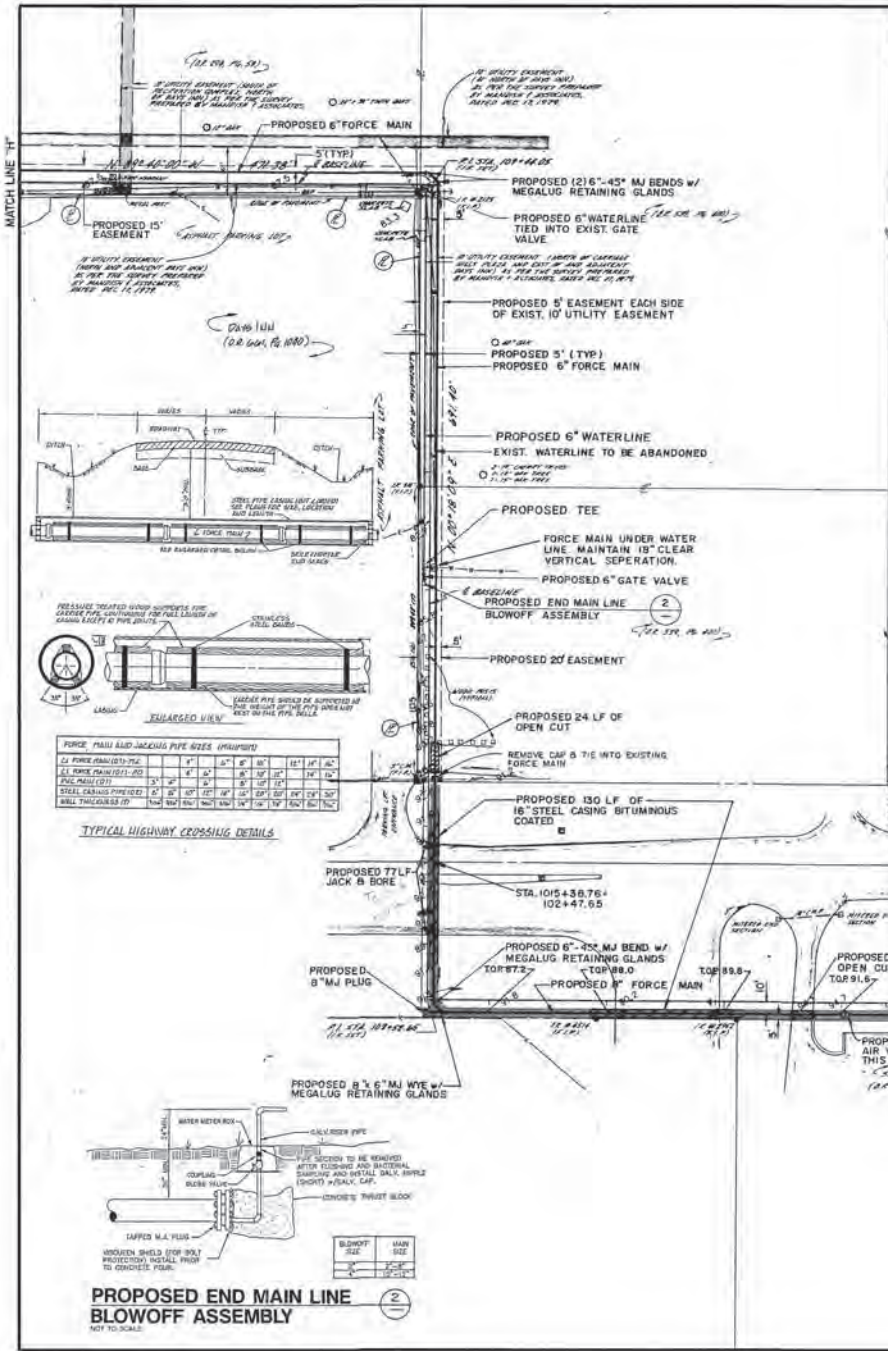
**Coastal Engineering Assoc., Inc.**  
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 BROOKSVILLE, FLORIDA 34601  
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**FORCE MAIN**

**RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT**

SHEET  
**72**  
OF 108 SHEETS  
8977

COASTAL ENGINEERING ASSOCIATES INC.  
 "RECORD DRAWINGS"  
I am hereby certifying that the above described drawings were prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Florida. I am also certifying that the above described drawings were prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Florida.  
 FRED ENGINEER  
 P. E. No. 36634



- LEGEND
- 1" = 10' TELEPHONE BOX
  - 2" = CONCRETE MANHOLE
  - 3" = FIVE DOWNS MEASUREMENT
  - 4" = MEASUREMENT PER PLAT
  - 5" = TYPING IN PLAT
  - 6" = PROPERTY LINE CENTERLINE
  - 7" = RIGHT OF WAY
  - 8" = MEASUREMENT PER DEED
  - 9" = 6" PIPE LINE MEASUREMENT (NUMBER EXCEPT AS NOTED)
  - 10" = 6" (1.5" TOE AS NOTED)
  - 11" = 6" SET AS NOTED
  - 12" = 6" (1.5" TOE) AND MEASUREMENT (NUMBER EXCEPT AS NOTED)
  - 13" = 6" SET AS NOTED
  - 14" = 6" BALL PLUG OR SET
  - 15" = TELEPHONE GABLE MANHOLE
  - 16" = TELEPHONE EQUIPMENT BOX
  - 17" = ELECTRIC TRANSFORMER BOX
  - 18" = WATERLINE MANHOLE
  - 19" = TELEPHONE LINE MANHOLE
  - 20" = TELEPHONE MANHOLE
  - 21" = ELECTRIC LINE STUB
  - 22" = WATER SPRINKLER HEAD
  - 23" = SANITARY SEWER MANHOLE
  - 24" = TELEPHONE MANHOLE
  - 25" = ELECTRIC LINE STUB
  - 26" = WATER SPRINKLER HEAD
  - 27" = SANITARY BOX
  - 28" = ROAD INFORMATION SIGN
  - 29" = ELECTRIC MANHOLE
  - 30" = WATER SPRINKLER LINE
  - 31" = WATER SPRINKLER VALVE BOX
  - 32" = STOP SIGN
  - 33" = ELECTRIC POWER POLE
  - 34" = 8" SET MANHOLE WITH WBS
  - 35" = MANHOLE
  - 36" = TRAFFIC INFORMATION SIGN
  - 37" = SAND MARK
  - 38" = WATER CONTROL VALVE
  - 39" = ELECTRIC LIGHT POLE
  - 40" = WATER METER BOX
  - 41" = FIRE HYDRANT
  - 42" = ELECTRIC LINE MANHOLE POST
  - 43" = SECTION CORNER
  - 44" = WATER LINE
  - 45" = ELECTRIC LINE
  - 46" = TRAFFIC LIGHT SIGNAL
  - 47" = FENCE (AS INDICATED)
  - 48" = SECTION LINE
  - 49" = 6" W/LINE
  - 50" = DISPERSED POWER LINES
  - 51" = PROPOSED FORCE MAIN
  - 52" = TOP OF PIPE
  - 53" = BY OTHERS

NOTES:  
 1. TOP OF PIPE (TOP) ELEVATION IS 36" BELOW PROPOSED GRADE OF F.D.O.T. PROJ. NO. 08070-3015  
 2. CONTRACTOR SHALL SHEET AND SHORE AS NECESSARY TO MINIMIZE TRENCH WIDTH. MAXIMUM ALLOWABLE WIDTH 10 FEET AT GROUND ELEVATION



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 BROOKSVILLE, FLORIDA 34601  
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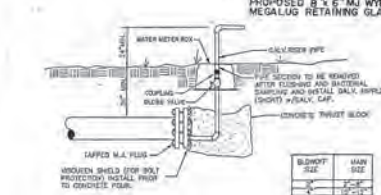
**FORCE MAIN**

**SHEET**  
**73**  
 OF 108 SHEETS  
 8977

NOTE FOR ADDITIONAL INFORMATION IN THIS AREA SEE SUN RISE PLAZA CONSTRUCTION PLANS PREPARED BY COASTAL ENGINEERING ASSOC., INC. PROJECT NO. 8762.  
 COASTAL ENGINEERING ASSOCIATES INC.  
 "REDOR DRAWINGS"  
 FIELD ENGINEER: [Signature]  
 P.E. NO. 36834

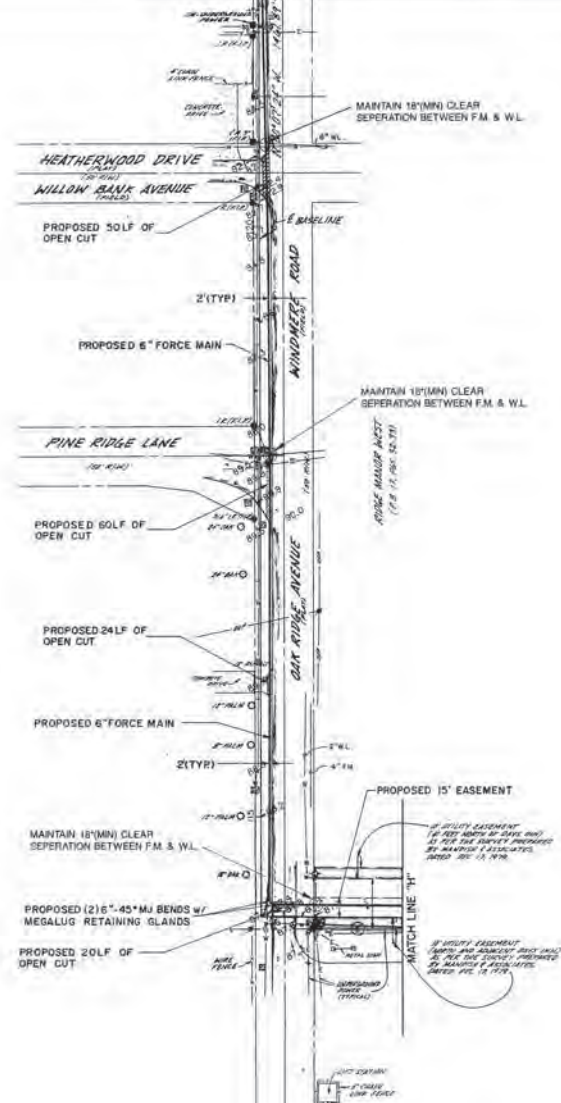
PIPE SIZE (I.D.)	4"	6"	8"	10"	12"	14"	16"	18"	20"
4" FORCE MAIN (I.D.)	4"	6"	8"	10"	12"	14"	16"	18"	20"
6" FORCE MAIN (I.D.)	6"	8"	10"	12"	14"	16"	18"	20"	24"
8" FORCE MAIN (I.D.)	8"	10"	12"	14"	16"	18"	20"	24"	30"
10" FORCE MAIN (I.D.)	10"	12"	14"	16"	18"	20"	24"	30"	36"
12" FORCE MAIN (I.D.)	12"	14"	16"	18"	20"	24"	30"	36"	42"
14" FORCE MAIN (I.D.)	14"	16"	18"	20"	24"	30"	36"	42"	48"
16" FORCE MAIN (I.D.)	16"	18"	20"	24"	30"	36"	42"	48"	54"
18" FORCE MAIN (I.D.)	18"	20"	24"	30"	36"	42"	48"	54"	60"
20" FORCE MAIN (I.D.)	20"	24"	30"	36"	42"	48"	54"	60"	66"

TYPICAL HIGHWAY CROSSING DETAILS

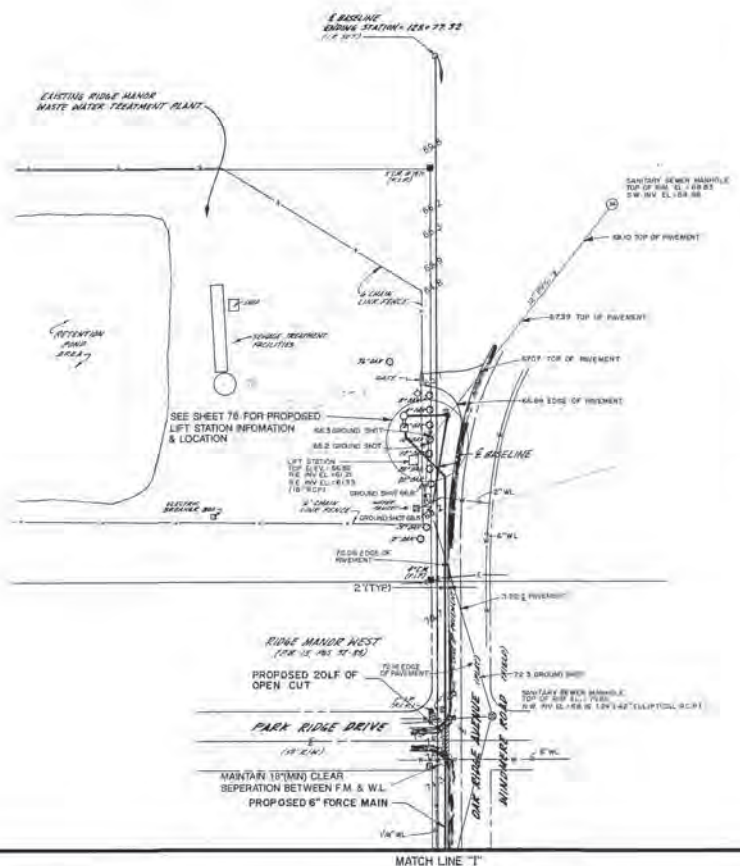


PROPOSED END MAIN LINE BLOWOFF ASSEMBLY

MATCH LINE "1"



- LEGEND
- = IRON PIPE/IRON BOX
  - = CONCRETE MONUMENT
  - ( ) = FIELD SERVICE MEASUREMENT
  - = MEASUREMENT FOR FLAT
  - = FOUND IN PLACE
  - = PROPERTY LINE, CENTERLINE
  - = RIGHT OF WAY
  - = MEASUREMENT PER SET
  - = (E.P.) (NO REGISTRATION NUMBER ELEVATION AS NOTED)
  - = (E.P.) (ELEVATION AS NOTED)
  - = SET POINT
  - = (E.P.) (NO REGISTRATION NUMBER ELEVATION AS NOTED)
  - = H.W. FOUND OR SET
  - = TELEPHONE CABLE MARKER
  - = TELEPHONE EQUIPMENT BOX
  - = ELECTRIC TRANSFORMER BOX
  - = WATERLINE MARKER
  - = ELECTRIC LINE MARKER
  - = SAFETY SIGN MARKER
  - = TELEPHONE MARKER
  - = ELECTRIC LINE SIGN
  - = WATER SPRINKLER HEAD
  - = ANDERSON BOX
  - = FOG INFORMATION BOX
  - = ELECTRIC PULLBOX
  - = WATER SPRINKLER LINE
  - = WATER SPRINKLER VALVE BOX
  - = STOP SIGN
  - = ELECTRIC POWER POLE
  - = SANITARY WITH SIGN
  - = MAILBOX
  - = SANITARY INFORMATION BOX
  - = WOOD MARK
  - = WATER CONTROL VALVE
  - = ELECTRIC LIGHT POLE
  - = WATER METER BOX
  - = FIRE HYDRANT
  - = ELECTRIC LINE MARKER PINS
  - = SECTION CORNER
  - = WATER LINE
  - = ELECTRIC LINE
  - = ZITON DRIVE POLE
  - = FORCE (AS INDICATED)
  - = SECTION LINE
  - = 8" V LINE
  - = OVERHEAD POWER LINE
  - = PROPOSED FORCE MAIN
  - = TOP OF PIPE



COASTAL ENGINEERING ASSOCIATES, INC.  
"REDRAWN DRAWINGS"

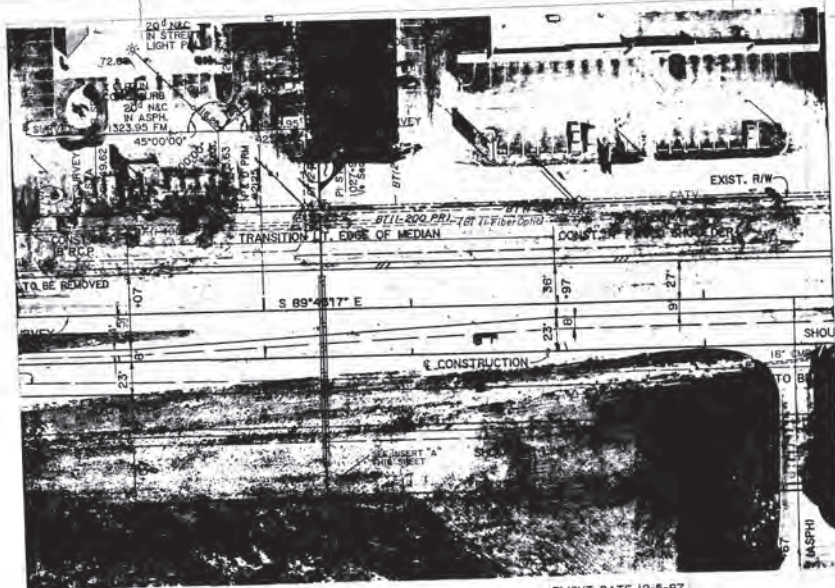
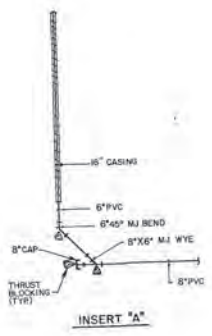
I hereby certify that the above "Redrawn" drawings were prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer in the State of Florida. I am not providing any engineering services in any other jurisdiction. I am not providing any engineering services in any other jurisdiction. I am not providing any engineering services in any other jurisdiction.

FILED ENGINEER: [Signature]  
P. E. No. 10834

**Coastal Engineering Assoc., Inc.**  
ENGINEERING - PLANNING  
ENVIRONMENTAL - SURVEYING  
965 CANDELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL. (864) 728-8823 FAX (800) 728-8828

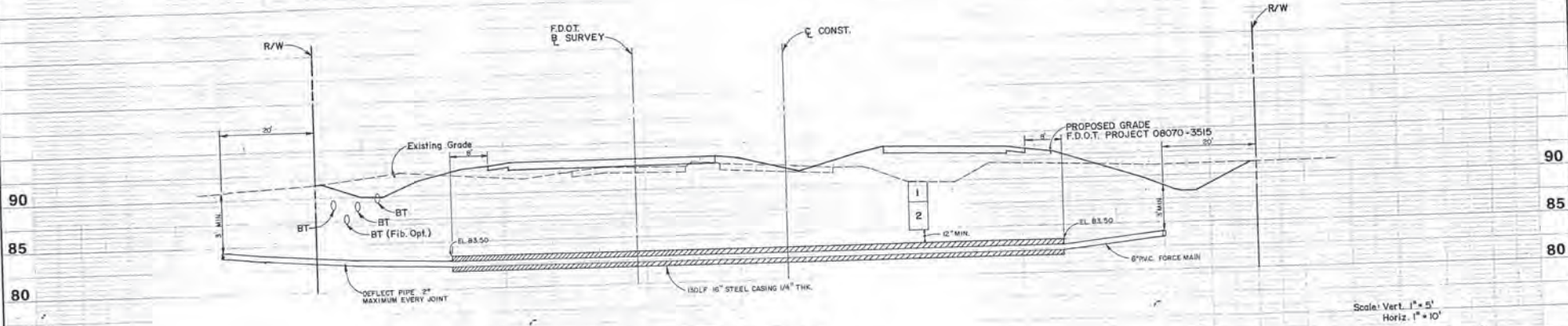
<b>FORCE MAIN</b>	SHEET <b>74</b> OF 108 SHEETS 8977
<b>RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT</b>	

MATCH LINE "2"



- NOTES:
- CROSS SECTION AND PLAN VIEW ON THIS SHEET ARE FROM FOOT PROJECT NUMBER 08070-3515
  - THE CONTRACTOR IS CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES (WHEN SHOWN) ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ACTUAL FIELD LOCATIONS FROM THE RESPECTIVE UTILITY COMPANY 48 HOURS PRIOR TO BEGINNING ANY WORK.
    - SOUTHERN BELL 1-800-432-4770
    - WYTHLOOCHEE ELECTRIC 1-904-796-3577
    - FLORIDA POWER 1-904-796-5136
    - CENTEL CABLE 1-904-799-3671
    - HERNANDO COUNTY DEPARTMENT OF PUBLIC WORKS 1-904-754-4062
  - A MINIMUM OF 10 FEET HORIZONTAL CLEARANCE AND 18\"/>

FLIGHT DATE 12-5-87

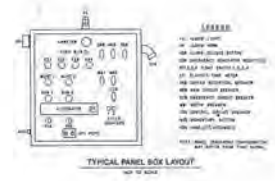
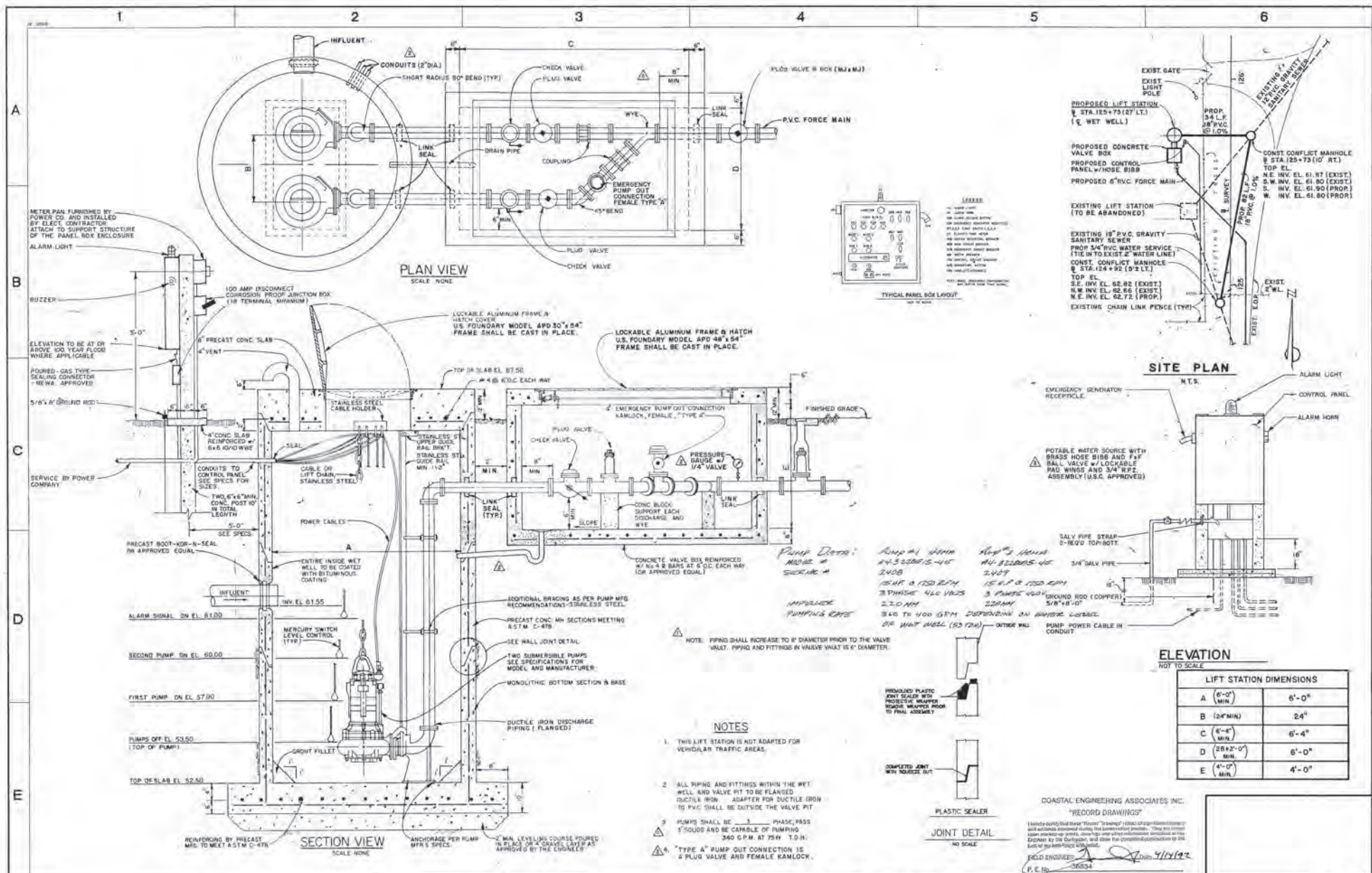


SECTION F-F  
 STA. 1015+38.76=  
 STA. 102+47.65  
 BY OTHERS

NOTE:  
 ALL WORK INDICATED  
 HEREON WILL BE DONE  
 BY OTHERS.

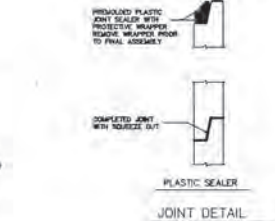
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>REV. BY</th> <th>REV. BY</th> <th>PE. NO.</th> <th>REV. NO.</th> <th>REVISION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DATE	REV. BY	REV. BY	PE. NO.	REV. NO.	REVISION																									<p><b>REUSE OF DOCUMENT</b>          THIS DOCUMENT COMPRISED OF THE INCORPORATED IDEAS AND DESIGNS, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF COASTAL ENGINEERING ASSOCIATES, INC. AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN AUTHORIZATION OF COASTAL ENGINEERING ASSOC., INC.</p>	<p>COASTAL ENGINEERING ASSOCIATES, INC.          "RECORD DRAWINGS"  <small>I hereby certify that these "records," drawings" without all digital modifications and addenda approved during the construction process. They are based upon individual points, elevations and other information furnished to the Engineer by the Contractor and show the completed construction to the best of my knowledge and belief.</small>          FIELD ENGINEER: <i>[Signature]</i> 4/14/92          P. E. NO. 38534</p>	<p><b>Coastal Engineering Assoc., Inc.</b>          ENGINEERING • PLANNING          ENVIRONMENTAL • SURVEYING          966 CANDLELIGHT BOULEVARD          BROOKSVILLE, FLORIDA 34401          TEL. (804) 798-8423 FAX (804) 798-8559</p>	<p><b>FORCE MAIN          S.R. 50 CROSSING</b></p> <p><b>RIDGE MANOR WEST SUBREGIONAL          WASTEWATER TREATMENT PLANT</b></p>	<p>SHEET  <b>75</b>          OF 108 SHEETS          8977</p>
DATE	REV. BY	REV. BY	PE. NO.	REV. NO.	REVISION																														





**LIFT STATION DIMENSIONS**

Dimension	Minimum	Maximum
A	6'-0"	6'-0"
B	24" MIN.	24"
C	6'-0" MIN.	6'-4"
D	25'-2'-0" MIN.	6'-0"
E	4'-0" MIN.	4'-0"



COASTAL ENGINEERING ASSOCIATES, INC.  
"RECORD DRAWINGS"

Has the contractor had their "Owner's" drawing checked for compliance with all codes approved during the permitting process. They are not to be made up until, and they are not to be submitted to the Engineer by the Contractor, and also the completed construction is to be checked by the Engineer.

FIELD ENGINEER: [Signature]  
P.E. NO. 36934

**Coastal Engineering Associates, Inc.**  
CONSULTING ENGINEERS

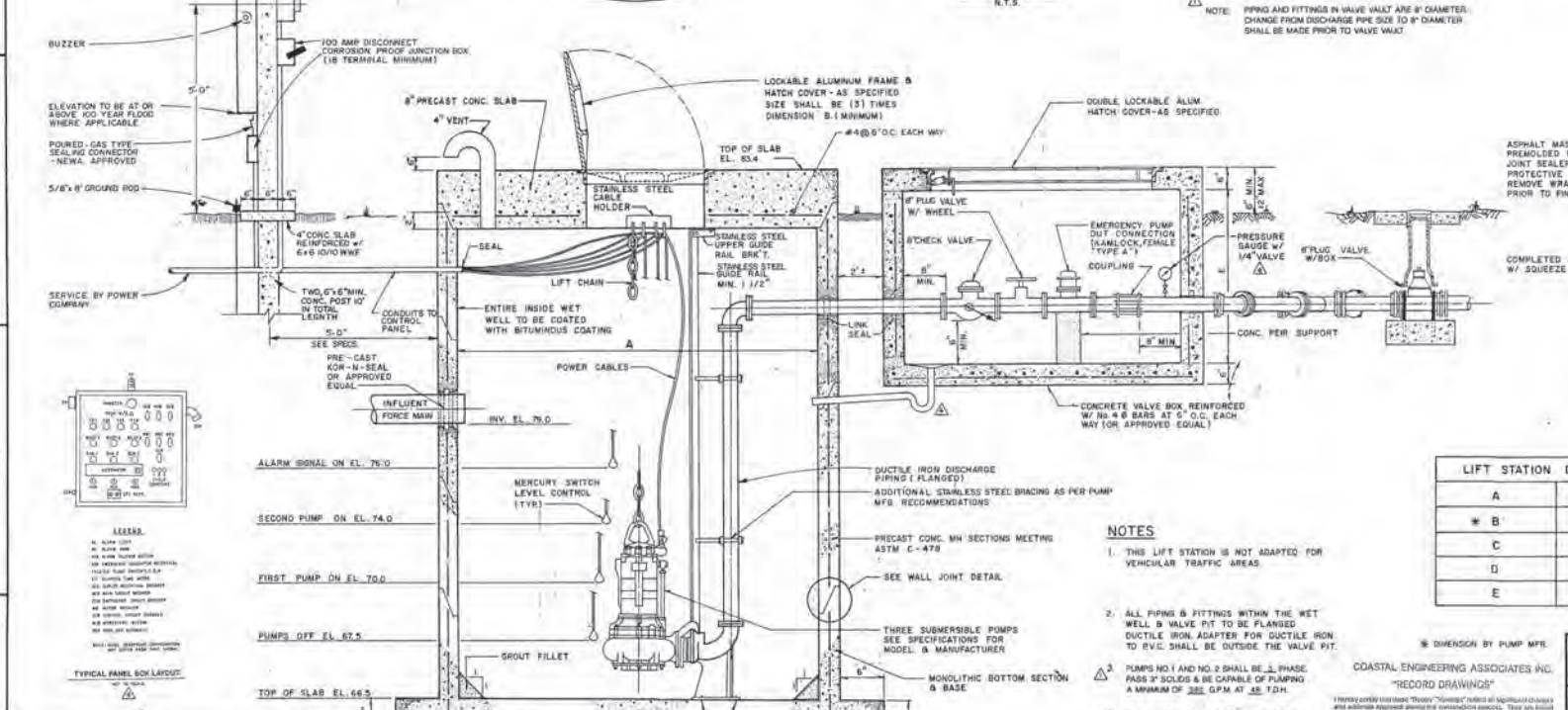
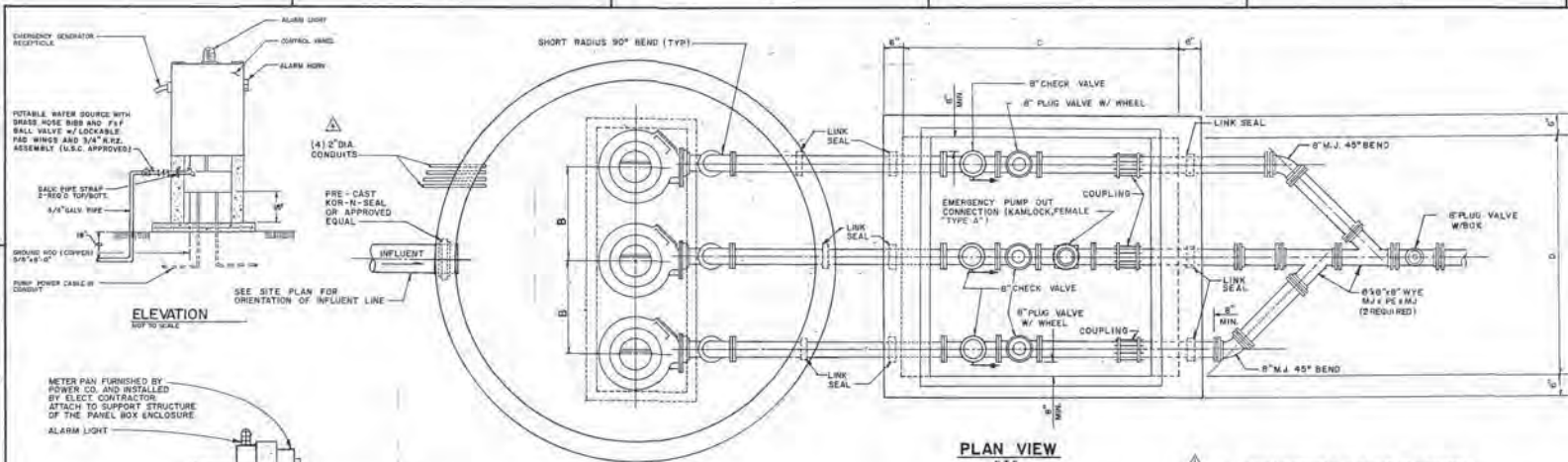
986 CANDLELIGHT BLVD.  
BROOKSVILLE, FL. 34600  
TELEPHONE (904) 796-9423

LIFT STATION AT EXIST'G WWTP

**SHEET 76**  
OF 108 SHEETS

RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT

DATE: 11/1/82



REVISIONS				
DATE	REV.	BY	APV.	DESCRIPTION
7-9-91	SE 11	G.E.H.	G.E.H.	ADDENDUM NO. 1
7-10-91	BA W	G.E.H.	G.E.H.	ADDENDUM NO. 2
7-25-91	BA W	G.E.H.	G.E.H.	ADD'D LIFT STA. LOCATION NOTE
8-23-91	MCH	G.E.H.	MBC	CHG'S & ADD'S.

**SECTION VIEW**  
N.T.S.

REINFORCING BY PRECAST MFR. TO MEET ASTM C-478.

ANCHORAGE PER PUMP MFR. SPECIFICATIONS.

8" MIN. LEVELING COURSE POURED IN PLACE OR 4" GRAVEL LAYER AS APPROVED BY THE ENGINEER.

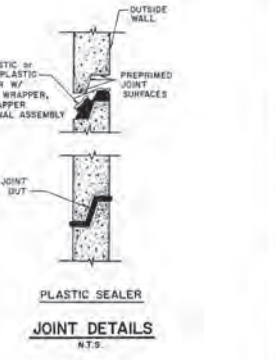
**PLAN VIEW**  
N.T.S.

NOTE: PIPING AND FITTINGS IN VALVE VAULT ARE 8" DIAMETER. CHANGE FROM DISCHARGE PIPE SIZE TO 8" DIAMETER SHALL BE MADE PRIOR TO VALVE VAULT.

NOTE: WAVE VAULT COVER LENGTH SHALL BE 8'-0" LONG. COVER CAN BE EITHER 2 DOOR OR 3 DOOR.

NOTE: PIPING AND FITTINGS IN VALVE VAULT ARE 8" DIAMETER. CHANGE FROM DISCHARGE PIPE SIZE TO 8" DIAMETER SHALL BE MADE PRIOR TO VALVE VAULT.

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LIFT STATION DIMENSIONS	
A	10'-0" DIA.
* B	*
C	8'-0"
D	8'-0"
E	4'-0"

- NOTES**
- THIS LIFT STATION IS NOT ADAPTED FOR VEHICULAR TRAFFIC AREAS.
  - ALL PIPING & FITTINGS WITHIN THE WET WELL & VALVE PIT TO BE FLANGED DUCTILE IRON ADAPTER FOR DUCTILE IRON TO PVC SHALL BE OUTSIDE THE VALVE PIT.
  - PUMPS NO. 1 AND NO. 2 SHALL BE 3-PHASE, PASS 3" SOLIDS & BE CAPABLE OF PUMPING A MINIMUM OF 300 GPM AT 18' T.D.H.
  - ONLY PUMPS NO. 1 AND NO. 2 AS SPECIFIED IN SECTION 11.04Y ARE TO BE PROVIDED. HOWEVER, THE QUICK RELEASE PUMP BASE AND PIPING TO ACCOMMODATE THE THIRD PUMP NO. 3 SHALL BE FURNISHED AND INSTALLED.
  - "TYPE A" PUMP OUT CONNECTION IS A PLUG VALVE AND FEMALE KAMLOCK.

DESIGNED BY PUMP MFR.  
COASTAL ENGINEERING ASSOCIATES INC.  
"RECORD DRAWINGS"  
FIELD ENGINEER: [Signature] 4/11/92  
P. E. No. 36833

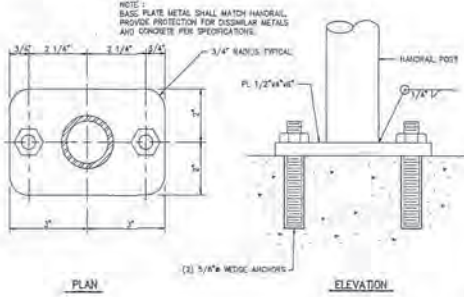
LIFT STATION AT KETTERING RD & SR50

RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT

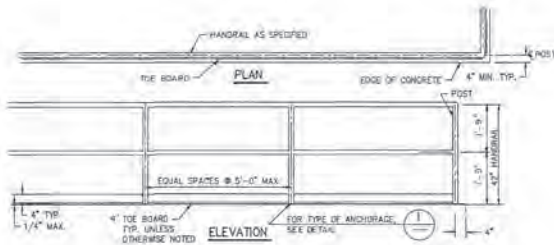
Coastal Engineering Associates, Inc.  
CONSULTING ENGINEERS

1000 COLLETT BULEVARD  
BROOKSVILLE, FLORIDA, 33512  
PHONE (804) 790-9423

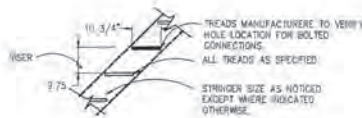
SHEET 77  
108



**HANDRAIL POST ANCHORAGE** (1)  
NOT TO SCALE

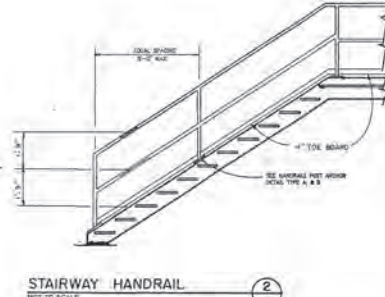


**TYPICAL HANDRAIL** (5)  
NOT TO SCALE



NOTES:  
1. FOR MATERIALS USED FOR STAIRWAY, SEE PLANS & OR SPECS. USE ONLY C10 & 15.3 STEEL STRINGERS UNLESS OTHERWISE NOTED.  
2. STAIR HANDRAIL NOT SHOWN FOR CLARITY.

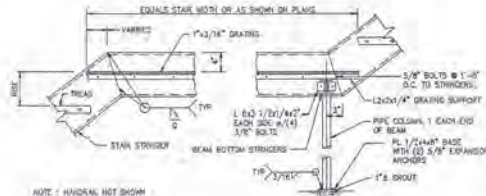
**STAIR DETAIL** (7)  
NOT TO SCALE



**STAIRWAY HANDRAIL** (2)  
NOT TO SCALE

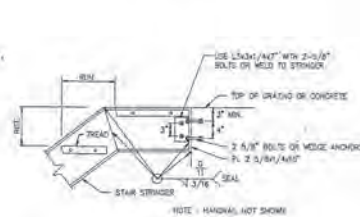
**HANDRAIL NOTES:**

1. Handrail shall be either (a) aluminum, meeting requirements of Section 05050 of the Specifications or (b) laminated vinyl safety railing meeting the requirements indicated below.
2. Laminated vinyl safety railing shall be Saffron or equal, color white. Style shall be Saffron 9200. Laminated Vinyl Safety railing shall meet or exceed GSA and BOCA standards and be approved by the Southern Building Code Congress International. Vinyl material shall be a polyvinyl chloride compound with pigments and filler no compounded as to be high impact resistant, weatherable and ultraviolet light resistant.



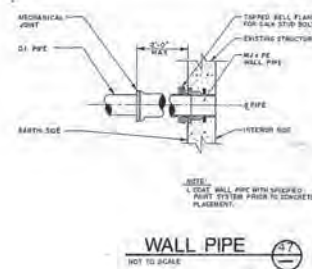
NOTE: HANDRAIL NOT SHOWN

**STAIR LANDING WITH SUPPORT** (6)  
NOT TO SCALE

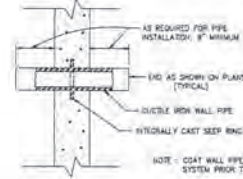


NOTE: HANDRAIL NOT SHOWN

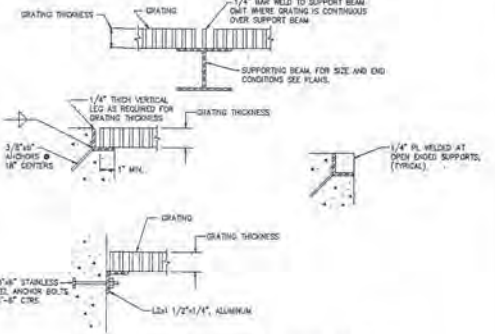
**STAIR TOP CONNECTION** (8)  
NOT TO SCALE



**WALL PIPE** (4)  
NOT TO SCALE



**DUCTILE IRON WALL PIPE** (3)  
NOT TO SCALE

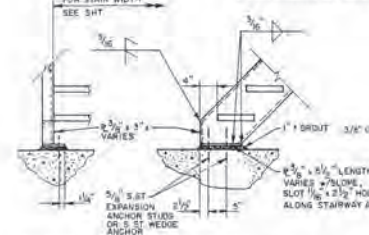


**ALUMINUM GRATING SUPPORT** (4)  
NOT TO SCALE

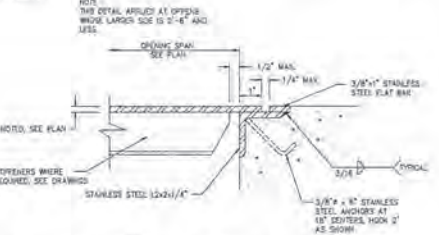
**GRATING NOTES**

1. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER BASED ON FIELD DIMENSIONS PRIOR TO FABRICATION.
2. EXTEND GRATING CONTINUOUSLY OVER GUIDES AND GATES.
3. WIDTH OF GRATING SECTIONS SHALL NOT EXCEED 3'-0\"/>

MAXIMUM SPAN	THICKNESS (IN.)
3'-0"	1 1/4"
4'-0"	1 1/2"
4'-6"	1 3/4"
5'-0"	1 3/4"
5'-6"	2"
6'-0"	2 1/4"
6'-6"	2 1/4"
7'-0"	2 1/2"



**STAIR BOTTOM CONNECTION** (10)  
NOT TO SCALE



**CHECKERED PLATE SUPPORT** (9)  
NOT TO SCALE

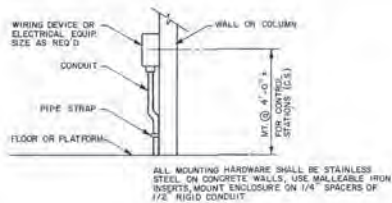
DATE	REV	BY	CHK	APP	REVISION
7/1/01	GEN	Q.E.H.	16948	Δ	ADDENDUM FIG. 1

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**"RECORD DRAWINGS"**  
A liability limiting agreement "Record Drawings" notified all significant changes have not been identified during the construction process. These drawings are not to be used for construction purposes, corrections and other information furnished to the contractor by the Contractor who shall obtain the manufacturer's instructions for the use of any equipment and material.  
FIELD ENGINEER: [Signature] DATE: 05/14/02  
P. E. No. SC 8339

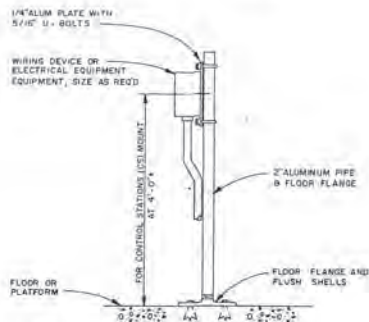
**Coastal Engineering Assoc., Inc.**  
ENGINEERING · PLANNING  
ENVIRONMENTAL · SURVEYING  
966 CANDLELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL. (813) 788-9423 FAX (813) 788-8259  
EQUIPMENT BY P.E.B. DRAWING BY S.H.L. CHECKED BY S.H.L. DATE 1/17/01

**MISCELLANEOUS DETAILS**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**



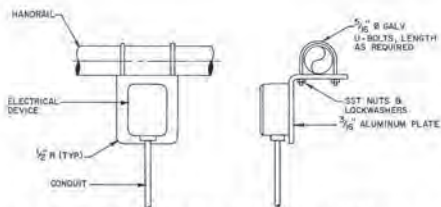
ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL ON CONCRETE WALLS, USE MALLEABLE IRON INSERTS, MOUNT ENCLOSURE ON 1/4\"/>

**WALL MOUNTED DEVICE** (11)  
NOT TO SCALE

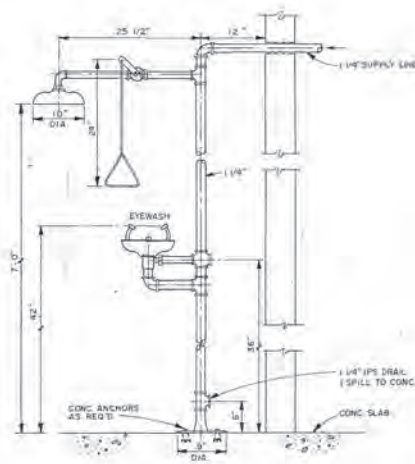


NOTE:  
ALL MOUNTING HARDWARE TO BE STAINLESS STEEL USE WASHERS AND SPLIT LOCK WASHERS UNDER ALL NUTS

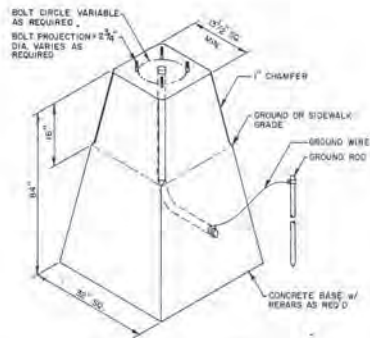
**PEDESTAL MOUNTED DEVICE** (15)  
NOT TO SCALE



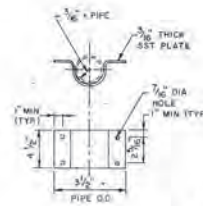
**TYPICAL DEVICE MOUNTED AT HANDRAIL** (16)  
NOT TO SCALE



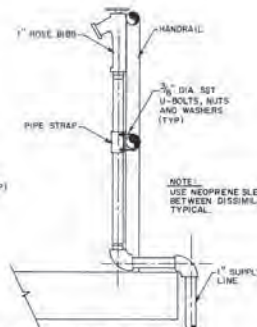
**EMERGENCY SHOWER & EYEWASH** (12)  
NOT TO SCALE



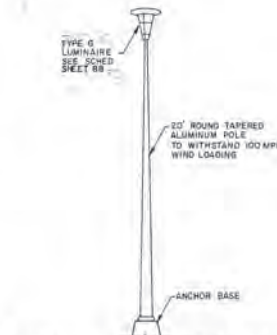
**ANCHOR BASE DETAIL** (17)  
NOT TO SCALE



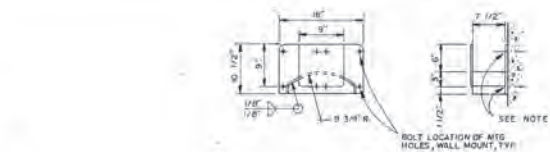
**HANDRAIL MOUNTED HOSE BIBB** (13)  
NOT TO SCALE



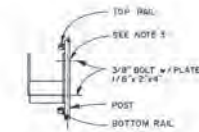
NOTE:  
USE NEOPRENE SLEEVE BETWEEN DISSIMILAR METALS, TYPICAL.



**YARD LUMINAIRE DETAIL** (18)  
NOT TO SCALE



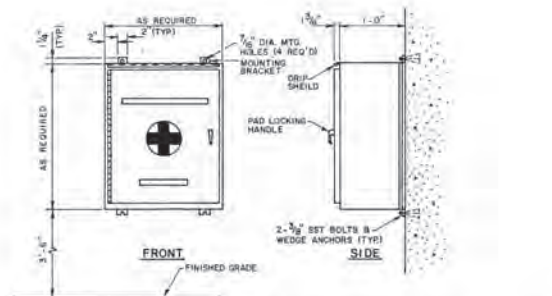
**WALL MOUNTED**



**HANDRAIL POST MOUNTED**

- NOTES:  
1. ALL UNITS SHALL BE FABRICATED FROM 3/16\"/>

**HOSE RACK DETAIL** (14)  
NOT TO SCALE



**SELF CONTAINED BREATHING APPARATUS CABINET** (19)  
NOT TO SCALE

**\*RECORD DRAWINGS\***

Hand-drawn and checked drawings reflect all significant changes and all work approved during the construction process. They are issued upon receipt of permits, drawings and other information furnished to the Engineer by the Contractor, and shall not be used for construction without the written authorization of the Engineer.

NOTE: SEE SPECIFICATION SECTION 11260, PARAGRAPH 2.13 FOR SPECIFICATIONS OF CABINET AND BREATHING APPARATUS.

DATE	REV. BY	APP. BY	REV. NO.	REVISION
7/8/01	S.E.N.	G.E.H.	16948	ADDENDUM NO. 1

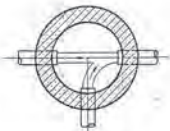
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BROOKSVILLE, FLORIDA 34601  
TEL (804) 798-8425 FAX (804) 798-8359

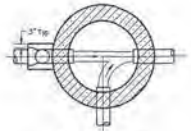
SCALE: 1/8\"/>

MISCELLANEOUS DETAILS	SHEET
RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT	79
	OF 108 SHEETS
	8977



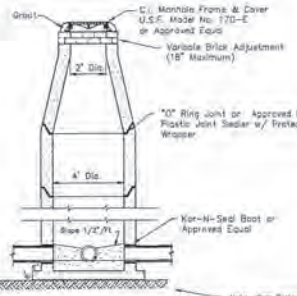
Precast Manhole Sections to be 3500 PSI Concrete Mix. In accordance w/ ASTM, C-475. Joints Shall Conform to ASTM, C-443.

Interior Walls Shall Be Fully Water-proofed With Coal Tar Epoxy, 12 Mil. Thick.

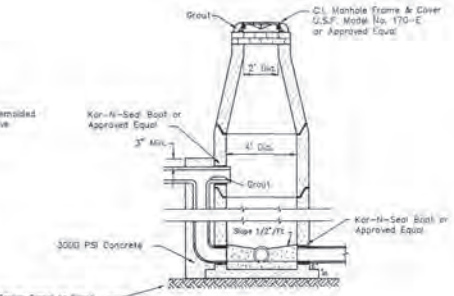


PLAN BELOW CORBEL

PLAN BELOW CORBEL

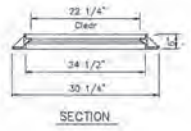


SECTIONAL ELEVATION STANDARD MANHOLE

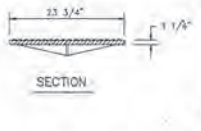


SECTIONAL ELEVATION SANITARY SEWER MANHOLE

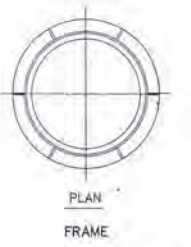
SECTIONAL ELEVATION DROP MANHOLE



SECTION



SECTION



PLAN

FRAME

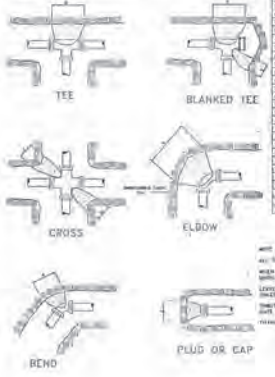


PLAN

COVER

Frame & Cover - USF Model 170 - E (Or Approved Equal)

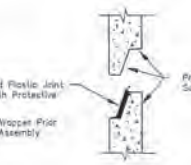
SANITARY SEWER MANHOLE RING & COVER



TYPICAL THRUST BLOCKING

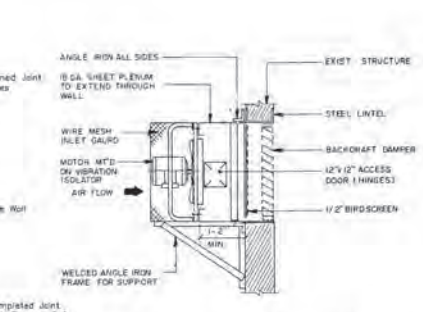
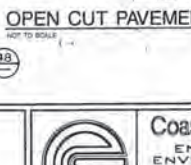
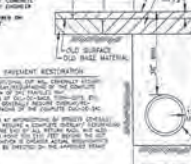
ITEM NO.	DESCRIPTION	QTY	UNIT
1	1/2" DIA. RIGID BOARD INSULATION	1	sq. ft.
2	1/2" DIA. RIGID BOARD INSULATION	1	sq. ft.
3	1/2" DIA. RIGID BOARD INSULATION	1	sq. ft.
4	1/2" DIA. RIGID BOARD INSULATION	1	sq. ft.
5	1/2" DIA. RIGID BOARD INSULATION	1	sq. ft.
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8	1/2" DIA. RIGID BOARD INSULATION	1	sq. ft.
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15	1/2" DIA. RIGID BOARD INSULATION	1	sq. ft.
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48	1/2" DIA. RIGID BOARD INSULATION	1	sq. ft.
49	1/2" DIA. RIGID BOARD INSULATION	1	sq. ft.
50	1/2" DIA. RIGID BOARD INSULATION	1	sq. ft.

NOTE: ALL SURFACES TO BE FINISHED TO CONFORM WITH THE SPECIFICATIONS OF THE CONTRACT DOCUMENTS. WHEN SURFACES ARE NOT FINISHED AS SHOWN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINISHING TO CONFORM WITH THE SPECIFICATIONS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

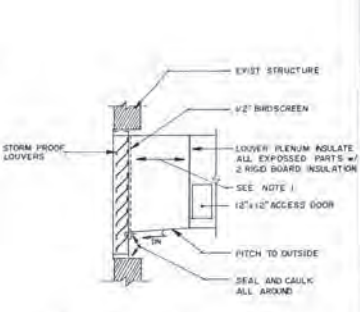


Precast Joint Sealer With Protective Wrapper

Remove Wrapper Prior To Final Assembly

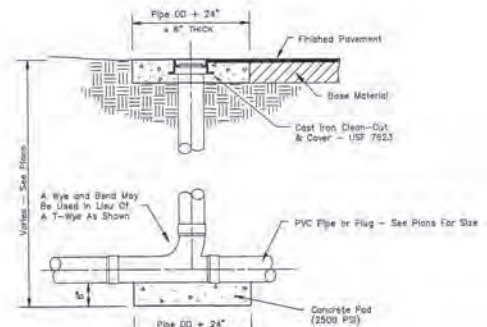


PROPELLER FAN

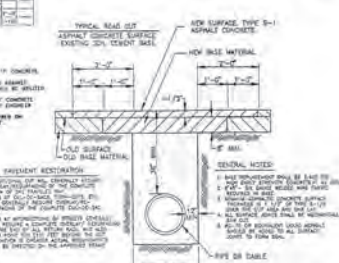


LOUVER CONNECTION

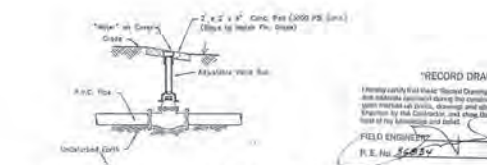
JOINT DETAIL & SEALER



CLEAN-OUT DETAIL



OPEN CUT PAVEMENT RESTORATION



TYPICAL VALVE BOX DETAIL

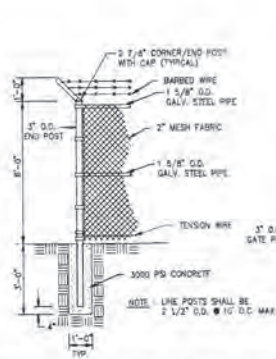
DATE	REV.	BY	CHK.	REV.	REVISION

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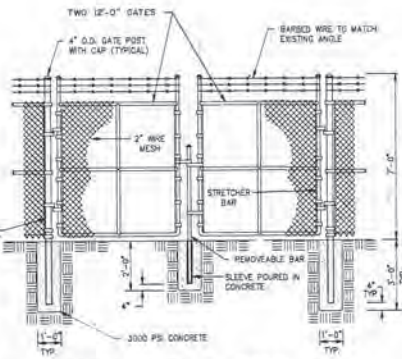
**Coastal Engineering Assoc., Inc.**  
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BROOKSVILLE, FLORIDA 34601  
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MISCELLANEOUS DETAILS  
RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

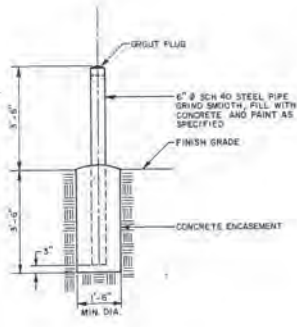
SHEET  
80  
OF 108 SHEETS  
DATE 08/97



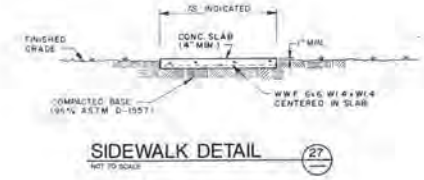
**CHAIN LINK FENCE DETAIL (24)**  
NOT TO SCALE



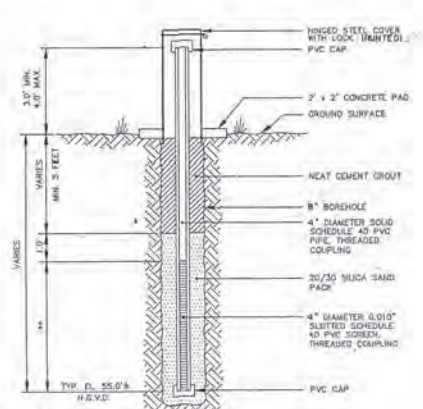
**CHAIN LINK GATE DETAIL (25)**  
NOT TO SCALE



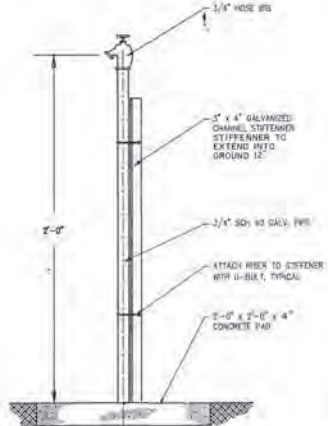
**GUARD POST (26)**  
NOT TO SCALE



**SIDEWALK DETAIL (27)**  
NOT TO SCALE



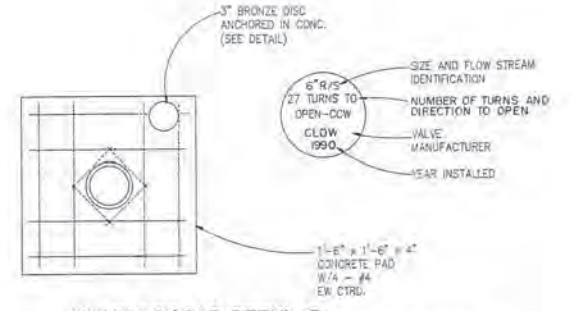
**GROUNDWATER MONITORING WELL DETAIL (28)**  
NOT TO SCALE



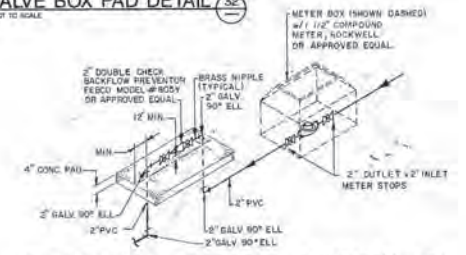
**EXTERIOR HOSE BIBB (30)**  
NOT TO SCALE



**METER BOX & COVER (31)**  
NOT TO SCALE



**VALVE BOX PAD DETAIL (32)**  
NOT TO SCALE



**WATER METER & BACKFLOW ASSEMBLY (31)**  
NOT TO SCALE

NOTE: PAINT EXTERIOR OF STEEL PROTECTIVE CASING FEDERAL SAFETY YELLOW

14: 5 FEET OF SCREEN FOR GROUND SURFACE ELEVATION +20 FT. @ 2\"/>

15: FEET OF SCREEN FOR GROUND SURFACE ELEVATION +25 FT. @ 2\"/>

16: FEET OF SCREEN FOR GROUND SURFACE ELEVATION ABOVE +40 FT. @ 2\"/>

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all design changes and additions approved during the construction process. They are issued after written approval by the owner and are not subject to the terms of any contract or agreement.  
FIELD ENGINEER: [Signature]  
P. E. No. 85854

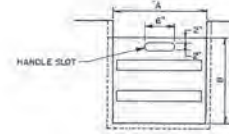
DATE	REV. BY	REV. BY	REV. BY	REVISION

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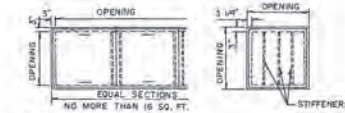
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**MISCELLANEOUS DETAILS**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

STOP GATE SCHEDULE											
STOP GATE			STOP GATE								
NO.	LOCATION	QTY.	DIM."A"	DIM."B"	DIM."C"	NO.	LOCATION	QTY.	DIM."A"	DIM."B"	DIM."C"
(1)	PRETREATMENT STRUCT.	1	2'-0"	2'-0"	4'-0"	(12)	CHLORINE CONTACT CHAMBER	1	3'-0"	2'-9"	4'-3"
(2)		1	2'-0"	2'-0"	4'-0"	(13)		1	3'-0"	2'-9"	4'-0"
(3)		1		3'-6"							
(4)		1		3'-6"							
(5)		1		3'-6"							
(6)		1		3'-6"							
(7)		1		2'-9"							
(8)		1		3'-6"							
(9)		1		2'-9"							
(10)	CHLORINE CONTACT CHAMBER	1	3'-0"	2'-9"	4'-3"						
(11)		1	3'-0"	2'-9"	4'-3"						



STOP GATE (37)  
NOT TO SCALE



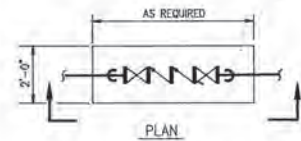
COVER PLATE

OR  
GRATING DETAIL (38)  
NOT TO SCALE

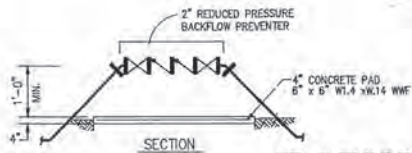
COVER PLATE DETAIL (39)  
NOT TO SCALE

COVER PLATE & GRATING NOTES

1. BAND ALL EDGES & OPENINGS.
2. ANGLE FRAME TO BE MITERED & WELDED TO CORNERS.
3. ALL ALUMINUM CONSTRUCTION.
4. STIFFEN UNDERSIDE OF P.L.S. W/ 1/2" x 1/4" ALUM. BARS TO LIMIT DEFLECTION TO 1/360 OF SPAN @ 150 P.S.F.
5. SEE SPECS FOR PROTECTION OF ALUM. IN CONTACT W/ CONCRETE.
6. ALUM. COVER PLATE PANELS & ALUM. GRATING PANELS SHALL NOT EXCEED 4' x 4'



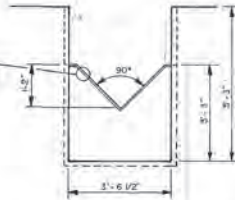
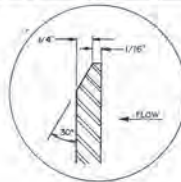
PLAN



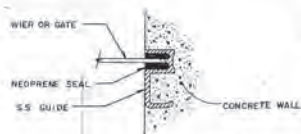
SECTION

NOTE: ALL PIPE TO BE SCH 40 GALV.

BACKFLOW PREVENTER DETAIL (52)  
NOT TO SCALE



90° V-NOTCH WIER (46)  
NOT TO SCALE



TYPICAL SLIDE FRAME DETAILS (40)  
NOT TO SCALE

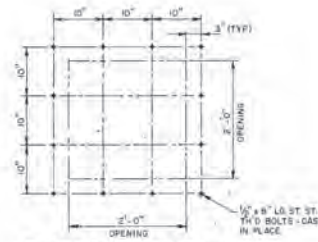
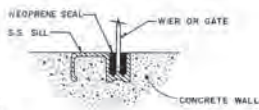
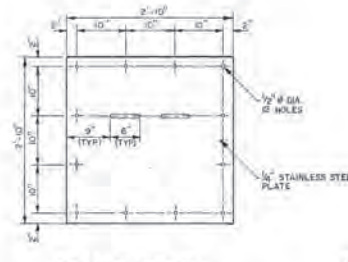


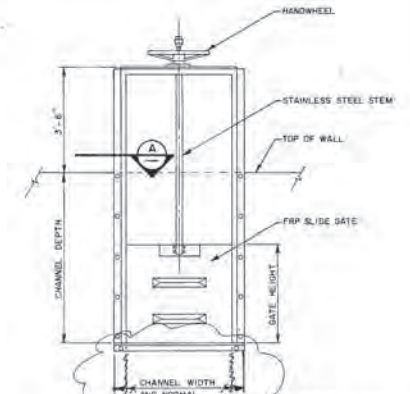
PLATE MOUNTING (41)  
SCALE: 1" = 1'-0"

NOTE: 1/2" BOLTS TO BE EXPOSED TO ALLOW FOR MOUNTING OF 1/2" THK. ST. ST. PLATE.

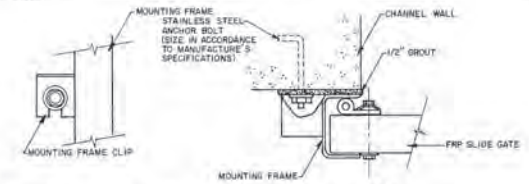


SEAL PLATE (42)  
SCALE: 1" = 1'-0"

NOTE: GATE IS INSTALLED BY SIMPLY LOWERING THE SLOTTED GATE, INTO PRESET ANCHOR BOLTS, PLUMB AND LEVEL THE FRAME, THEN DRY PACK, TO PROVIDE A TIGHT SEAL BETWEEN GATE FRAME AND WALL.



REINFORCED FIBERGLASS FLANGE MOUNTED SLIDE GATE (43)  
NOT TO SCALE



CHANNEL WALL MOUNT (44)  
NOT TO SCALE

"RECORD DRAWINGS"

Coastal Engineering Assoc., Inc. ("Coastal") reflects all significant changes and additions approved in writing by the undersigned engineer. They are based upon marked up plans, drawings and other information furnished to the Engineer by the Contractor, and show the completed construction to the best of my knowledge and belief.

FIELD ENGINEER  
P. E. No. 26835

DATE	REV. BY	REV. BY	REV. BY	REVISION
8-1-82	LJS			25-2000 Coastal

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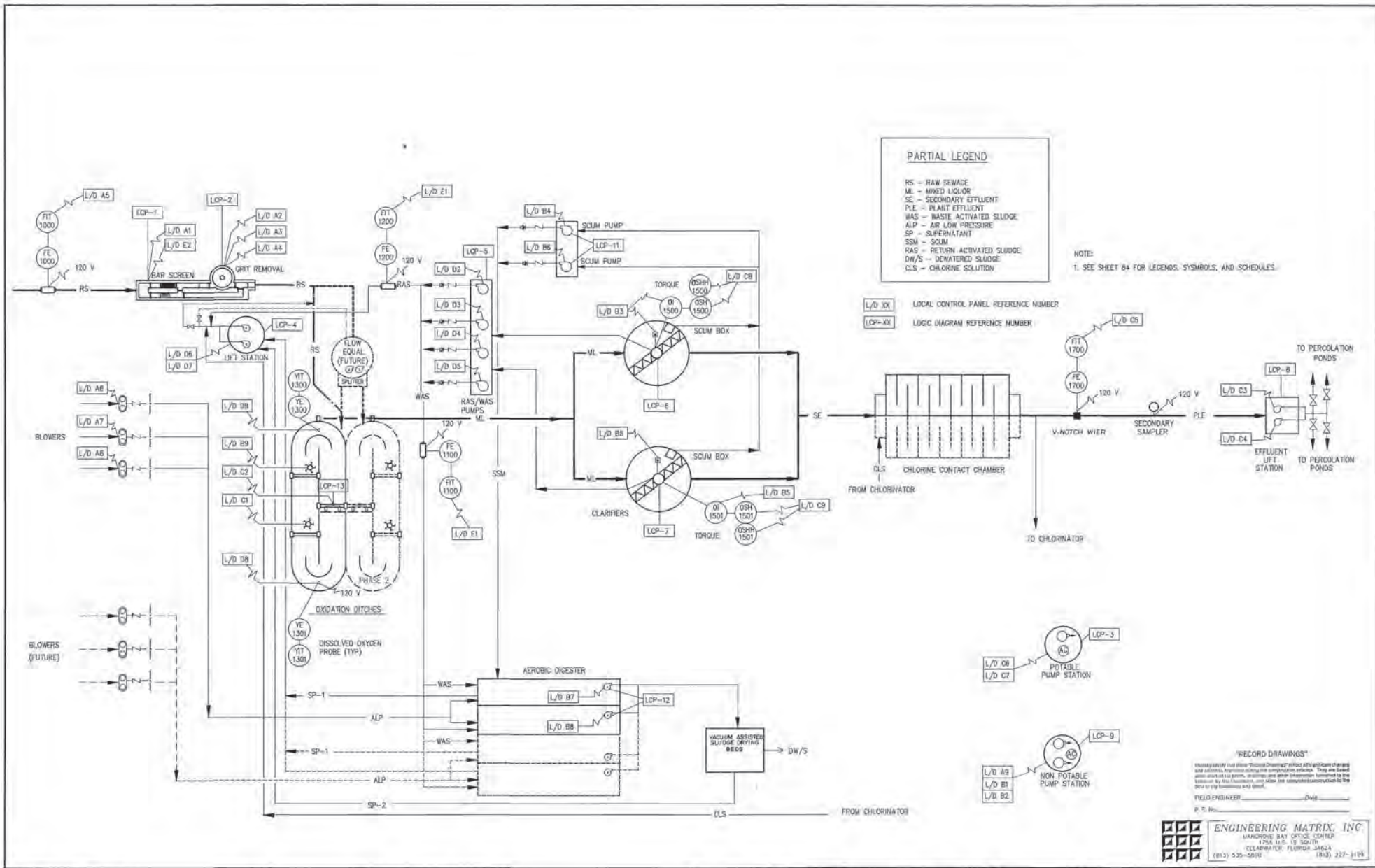


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SCALE FOR ALL UNLINED DIMENSIONS  
UNLESS OTHERWISE SPECIFIED

MISCELLANEOUS DETAILS  
RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

SHEET  
82  
OF 108  
8977

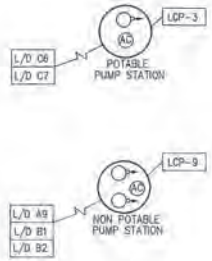


**PARTIAL LEGEND**

RS - RAW SEWAGE  
 ML - MIXED LIQUOR  
 SE - SECONDARY EFFLUENT  
 PLE - PLANT EFFLUENT  
 WAS - WASTE ACTIVATED SLUDGE  
 ALP - AIR LOW PRESSURE  
 SP - SUPERNATANT  
 SSM - SCUM  
 RAS - RETURN ACTIVATED SLUDGE  
 DW/S - DEWATERED SLUDGE  
 CLS - CHLORINE SOLUTION

NOTE:  
 1. SEE SHEET 84 FOR LEGENDS, SYMBOLS, AND SCHEDULES.

L/D XX LOCAL CONTROL PANEL REFERENCE NUMBER  
 LCP-XX LOGIC DIAGRAM REFERENCE NUMBER



"RECORD DRAWINGS"  
 I HEREBY CERTIFY THAT THESE "RECORD DRAWINGS" WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THEY ACCURATELY REPRESENT THE WORK SHOWN THEREON. I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA, LICENSE NO. 12 50078.  
 FIELD ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
 P. E. No. \_\_\_\_\_

**ENGINEERING MATRIX, INC.**  
 MANORVILLE BAY OFFICE CENTER  
 1726 N.W. 12 STREET  
 OCEAN BLUFF, FLORIDA 32064  
 (813) 535-5600 (813) 227-9194

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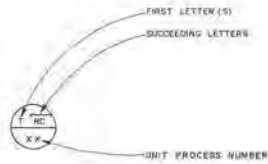
**PROCESS & INSTRUMENTATION DIAGRAM**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET 83**  
 OF 108 SHEETS  
 8977



**EXAMPLE SYMBOLS**



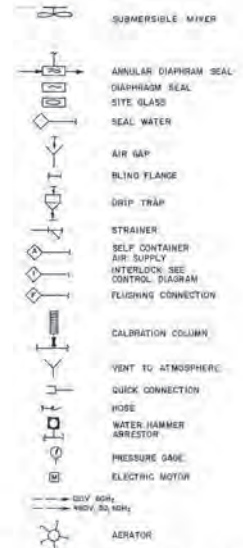
**INSTRUMENT SOCIETY OF AMERICA TABLE**

LETTER	FIRST LETTER(S)		SUCCEEDING LETTERS		
	PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS (1)		ALARM		
B	BURNER FLAME		USERS CHOICE (1)	USERS CHOICE (1)	USERS CHOICE (1)
C	CONDUCTIVITY			CONTROL	
D	DENSITY (SG)	DIFFERENTIAL			
E	VOLTAGE		PRIMARY ELEMENT		
F	FLOW RATE				
G	Gauge	RANG	GLASS	GATE	
H	HAND (MANUAL)				HIGH
I	CURRENT		INDICATE		
J	POWER	SCAN			
K	TIME OR SCHEDULE			CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	MOTION				MIDDLE
N	USERS CHOICE (1)		USERS CHOICE (1)	USERS CHOICE (1)	USERS CHOICE (1)
O	TORQUE		ORIFICE		
P	PRESSURE (OR VACUUM)		POINT (TEST CONNECTION)		
Q	QUANTITY OR EVENT (1)	INTEGRATE			
R			RECORD OR PRINT		
S	SPEED OR FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE (1)		MULTIFUNCTION (1)		
V	VISCOSITY			VALVE	
W	WEIGHT OR FORCE		WELL		
X	UNCLASSIFIED (1)		UNCLASSIFIED (1)	UNCLASSIFIED (1)	UNCLASSIFIED (1)
Y	USERS CHOICE (1)			RELAY OR COMPUTE (1)	
Z	POSITION			DRIVE, ACTIVATE OR UNCLASSIFIED FINAL CONTROL ELEMENT	

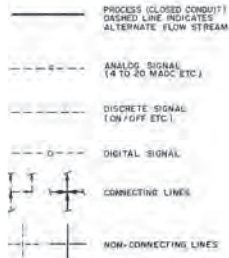
(1) WHEN USED EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS.

**GENERAL NOTES**

THIS IS A STANDARD LEGEND. THEREFORE, NOT ALL OF THIS INFORMATION MAY BE USE ON THIS PROJECT.



**LINE LEGEND**



**PRIMARY ELEMENT SYMBOLS**



**PUMP & COMPRESSOR SYMBOLS**



**"RECORD DRAWINGS"**

I hereby certify that these "Record Drawings" were prepared and are accurate and complete as shown on the drawings herein. They are based upon information furnished to me by the Engineer, and shall be deemed correct in the absence of any knowledge and skill.

FIELD ENGINEER \_\_\_\_\_ (Date) \_\_\_\_\_  
P. E. No. \_\_\_\_\_

DATE	REV. BY	APP. BY	REV. NO.	DESCRIPTION

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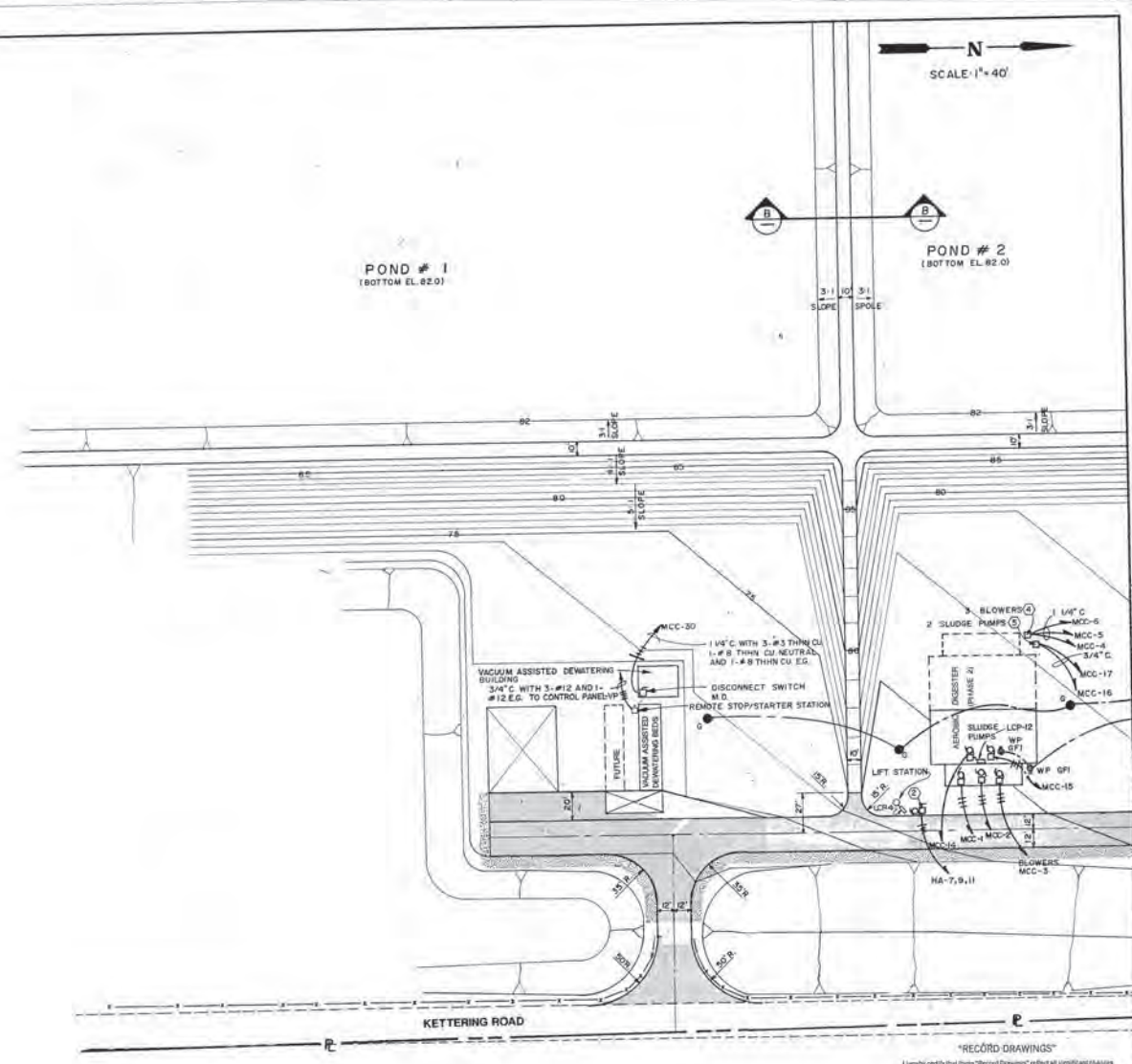
**PROCESS & INSTRUMENTATION LEGEND**  
RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT



N  
SCALE: 1" = 40'

POND # 1  
(BOTTOM EL. 82.0)

POND # 2  
(BOTTOM EL. 82.0)



NOTE: ● INDICATES LIGHT POLES (TYP)  
SEE DETAILS 17 18

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are based upon marked-up plans, drawings and other information furnished to the Engineer by the Contractor, and show the described construction to the best of my knowledge and belief.

FIELD ENGINEER: \_\_\_\_\_ Date: \_\_\_\_\_  
P. E. No. \_\_\_\_\_

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MANORVILLE BAY OFFICE CENTER  
1250 U.S. 18 SOUTH  
CLEARLAKE, FLORIDA 34624  
(813) 258-5800 (913) 277-9128

DATE	REV. BY	REV. NO.	PL. NO.	REV. NO.	REVISION

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986 CANDLELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL (904) 798-9423 FAX (904) 798-8399

DESIGNED BY: G.E.H. DRAWN BY: M.R.V. CHECKED BY: G.E.H. DATE: 8/26/90

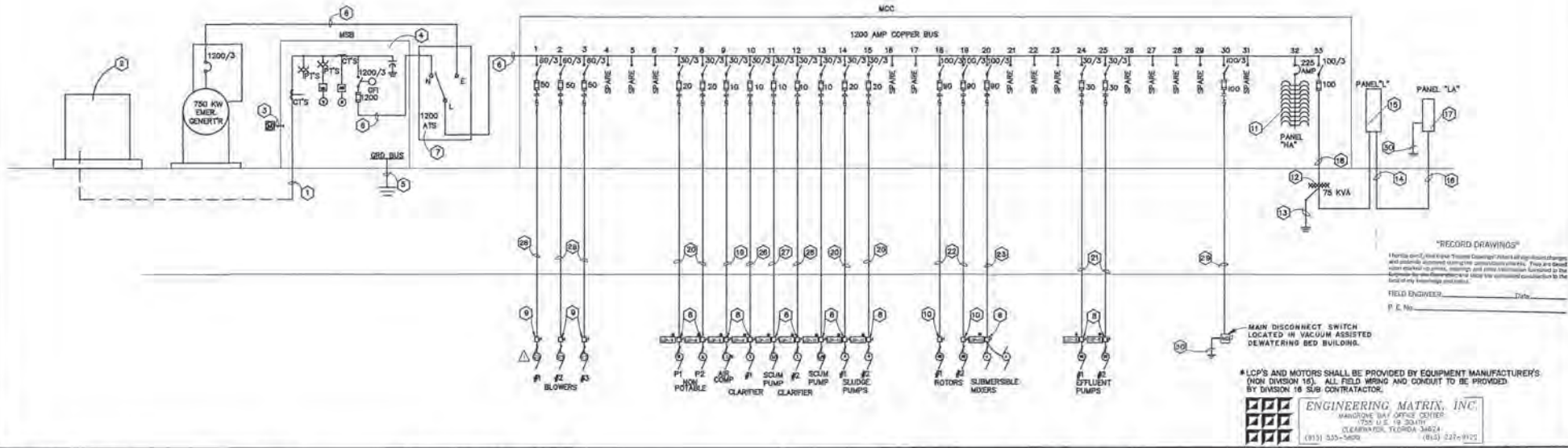
**ELECTRICAL SITE PLAN**  
 **RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

SHEET  
**86**  
OF 108 SHEETS  
DATE: 8/977

- KEYED NOTES**
- 1 3 RING 4" CONDUIT WITH 3-700 MCM THIN CU. AND 1-3/8 THIN W. IN EACH. RUN 3" BELOW FINISHED GRADE TO UTILITY COMPANY'S POINT OF SERVICE.
  - 2 UTILITY COMPANY'S PAD MOUNT TRANSFORMER.
  - 3 METER SOCKET WITH 1" CONDUIT RUN TO TAP SECTION C.T. CONNECTION.
  - 4 1200 AMP MAIN VISIBLE SWITCHBOARDS WITH GROUND FAULT PROTECTION. TAP SECTION WITH CONDUIT TRANSFORMERS, PTIS, VOLTMETER WITH PHASE SWITCH, AMPMETER WITH PHASE SWITCH, AND SURGE ARRESTER.
  - 5 1" CONDUIT WITH 1-3/8 IN. GROUND ELECTRODE CONDUCTOR TO 3-1/4" x 20" COPPERWELD GROUND ROD, SPACED ONE (1) ROD LENGTH APART. METALLIC UNDERGROUND COLD WATER LINE, CONCRETE ENCASED REBAR AND BUILDING STEEL PER NEC.
  - 6 3 RING 4" CONDUIT WITH 3-600 MCM THIN CU., 1-3/8 THIN CU., AND 1-1/2 THIN CU. E.G.
  - 7 1200 AMP, 3 POLE, 4 WIRE, AUTOMATIC TRANSFER SWITCH SEE SPECIFICATIONS.
  - 8 30 AMP, 3 POLE NON-FUSIBLE, NEMA-3R, 600 VOLT HEAVY-DUTY DISCONNECT SWITCH.
  - 9 60 AMP, 3 POLE NON-FUSIBLE, NEMA-3R, 600 VOLT HEAVY-DUTY DISCONNECT SWITCH.
  - 10 100 AMP, 3 POLE NON-FUSIBLE, NEMA-3R, 600 VOLT HEAVY-DUTY DISCONNECT SWITCH.
  - 11 PANEL - "MA" - SEE PANEL SCHEDULE FOR DETAILS.
  - 12 25 KVA, 480 VOLT PRIMARY 120/208 VOLT, 3 PHASE & WIRE TRANSFORMER.
  - 13 3/4" CONDUIT WITH 1-1/2 CU. GROUND TO BUILDING STEEL.
  - 14 3" CONDUIT WITH 4-3/8 THIN CU. AND 1-1/2 THIN CU. E.G.
  - 15 PANEL - "LA" - SEE PANEL SCHEDULE FOR DETAILS.
  - 16 2-1/2" CONDUIT WITH 4-3/8 THIN CU. AND 1-1/2 THIN CU. E.G.
  - 17 PANEL - "LA" LOCATED IN ADMIN/LAB BUILDING - SEE PANEL SCHEDULE FOR DETAILS.
  - 18 1-1/4" CONDUIT WITH 3-1/2 THIN CU. AND 1-1/2 THIN CU. E.G.

- 19 1" CONDUIT WITH 1-1/2 THIN CU. AND 1-1/2 THIN CU. E.G. PLUS 8-#12 THIN CU. CONTROL WIRES.
- 20 1" CONDUIT WITH 3-#10 THIN CU. AND 1-#12 THIN CU. E.G. PLUS 8-#12 THIN CU. CONTROL WIRES, AND 3-#12 THIN CU. 120 VAC CONTROL POWER WIRES FROM STARTER RATED CONTROL TRANSFORMER.
- 21 1-1/2" CONDUIT WITH 3-#8 THIN CU. AND 1-#10 THIN CU. E.G. PLUS 8-#12 THIN CU. CONTROL WIRES, AND 3-#12 THIN CU. 120 VAC CONTROL POWER WIRES FROM STARTER RATED CONTROL TRANSFORMER.
- 22 2" CONDUIT WITH 3-#1 THIN CU. AND 1-#8 THIN CU. E.G.
- 23 1-1/4" CONDUIT WITH 3-#6 THIN CU. E.G. PLUS 8-#12 THIN CU. CONTROL WIRES.
- 24 DIVISION 16 SUBCONTRACTOR IS RESPONSIBLE FOR ALL LOCAL DISCONNECTS UNLESS SPECIFICALLY NOTED OTHERWISE.
- 25 NON-POSSIBLE WATER LCP AND MOTORS TO BE PROVIDED BY OTHERS. MOUNTING, INSTALLATION AND ALL WIRING/CONDUIT SHALL BE BY DIVISION 16 SUB-CONTRACTOR.
- 26 3/4" CONDUIT WITH 1-#12 THIN CU. AND 1-#12 THIN CU. E.G. PLUS A SEPARATELY RUN 3/4" CONDUIT FOR CONTROLS WITH 11 #12 THIN CU. AND 1-#12 SHIELDED AND JACKETS TWISTED PAIR #18 WIRES FOR ANALOG SIGNALS.
- 27 1" CONDUIT WITH 3-#12 THIN CU. AND 1-#12 THIN CU. E.G. PLUS 8-#12 THIN CU. CONTROL WIRES, AND 3-#12 THIN CU. 120 VAC CONTROL POWER WIRES FROM STARTER RATED CONTROL TRANSFORMER.
- 28 1-1/4" CONDUIT WITH 3-#4 THIN CU. AND 1-#12 THIN CU. E.G.
- 29 1-1/4" CONDUIT WITH 3-#2 THIN CU., 1-#8 THIN CU. NEUTRAL AND 1-#8 THIN CU. E.G. PLUS 4-#12 THIN CU. FROM POLYMER TANK PROBES TO SLUDGE PUMP STARTERS.
- 30 8" CONDUIT WITH 1-#4 CU. GROUND ELECTRODE CONDUCTOR TO 3/4" x 20" COPPERWELD GROUND ROD, METALLIC UNDERGROUND COLD WATER LINE, CONCRETE ENCASED REBAR AND BUILDING STEEL PER N.E.C.

- GENERAL NOTES**
- 1 BLOWER MOTORS TO BE PROVIDED BY OTHERS. MOUNTING, INSTALLATION AND ALL WIRING/CONDUIT SHALL BE BY DIVISION 16 SUBCONTRACTOR.
  - 2 SOUM PUMPS LCP AND MOTORS TO BE PROVIDED BY OTHERS. MOUNTING, INSTALLATION AND ALL WIRING/CONDUIT SHALL BE BY DIVISION 16 SUBCONTRACTOR.
  - 3 CLARIFIERS LCPs AND MOTORS TO BE PROVIDED BY OTHERS. MOUNTING, INSTALLATION AND ALL WIRING/CONDUIT SHALL BE BY DIVISION 16 SUBCONTRACTOR.
  - 4 SLUDGE PUMPS LCP AND MOTORS TO BE PROVIDED BY OTHERS. MOUNTING, INSTALLATION AND ALL WIRING/CONDUIT SHALL BE BY DIVISION 16 SUBCONTRACTOR.
  - 5 MOTOR MOTORS TO BE PROVIDED BY OTHERS. MOUNTING, INSTALLATION AND ALL WIRING/CONDUIT SHALL BE BY DIVISION 16 SUBCONTRACTOR.
  - 6 EFFLUENT PUMPS LCP AND MOTORS TO BE PROVIDED BY OTHERS. MOUNTING, INSTALLATION AND ALL WIRING/CONDUIT SHALL BE BY DIVISION 16 SUBCONTRACTOR.



DATE	REV	BY	FILE NO.	REV. NO.	REVISION:
7-10-81	BAW	GEH	16948	1	ADDENDUM NO.2

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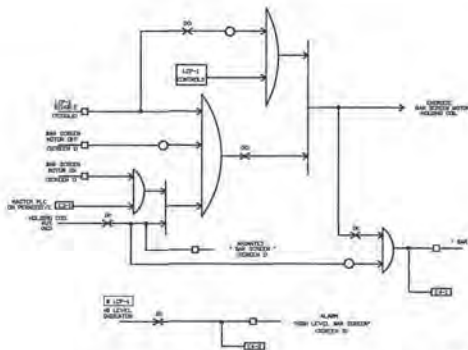
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ENVIRONMENTAL - SURVEYING  
966 CANDLELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL. (904) 798-8223 FAX (904) 798-8309

**ONE LINE POWER DIAGRAM**

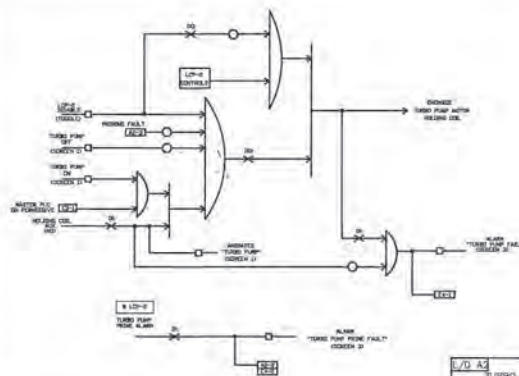
**RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT**

SHEET  
**87**  
OF 108 SHEETS  
8977

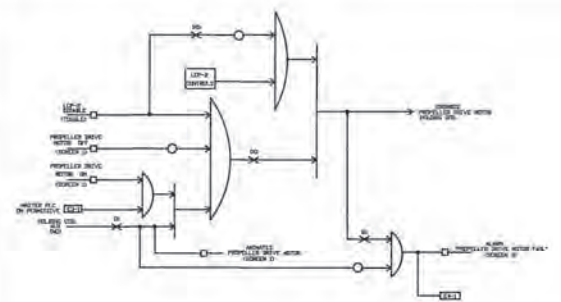




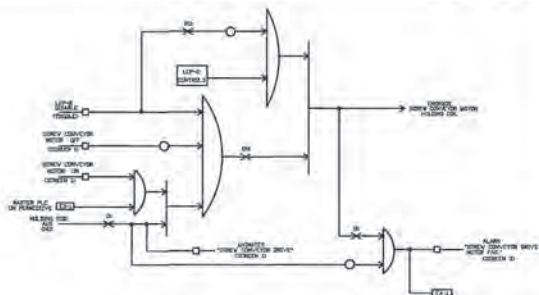
L/D A1 BAR SCREEN MOTOR CONTROL



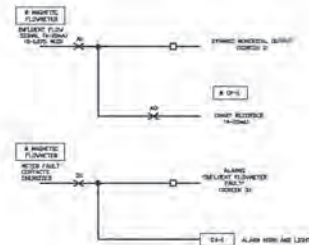
L/D A2 TURBO PUMP CONTROL



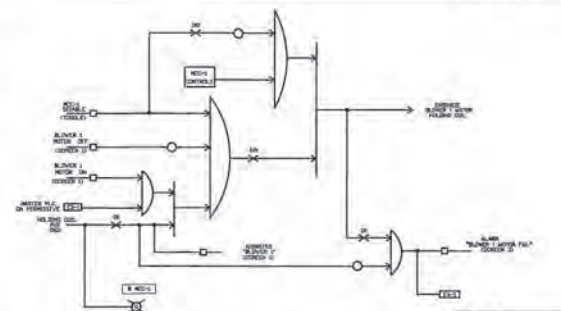
L/D A3 PROPELLER DRIVE MOTOR CONTROL



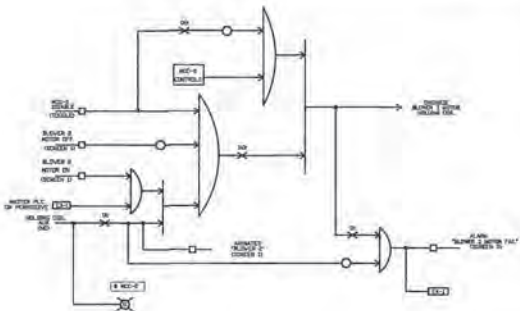
L/D A4 SCREW CONVEYOR DRIVE CONTROL



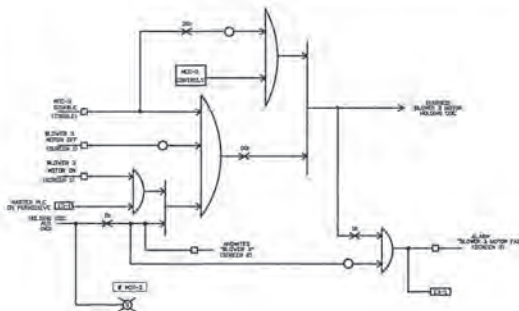
L/D A5 INFLUENT MAGNETIC FLOWMETER



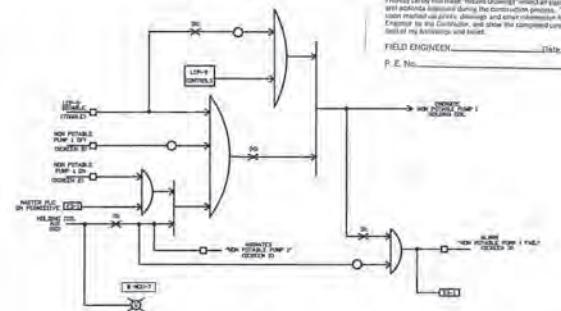
L/D A6 BLOWER 1 MOTOR CONTROL



L/D A7 BLOWER 2 MOTOR CONTROL



L/D A8 BLOWER 3 MOTOR CONTROL



L/D A9 NON-POTABLE PUMP 1 CONTROL

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all planfile exchanges and indicate additional Spring and Commissioning permits. They are based upon marked as given, drawings and other information furnished to me in response to the Contract, and show the completed construction to the best of my knowledge and belief.

FIELD ENGINEER: \_\_\_\_\_ Title: \_\_\_\_\_  
P. E. No. \_\_\_\_\_

ENGINEERING MATRIX, INC.  
1000 N. W. 10th Ave., Suite 100  
Fort Lauderdale, FL 33304  
Tel: (954) 786-8823 Fax: (954) 786-8858

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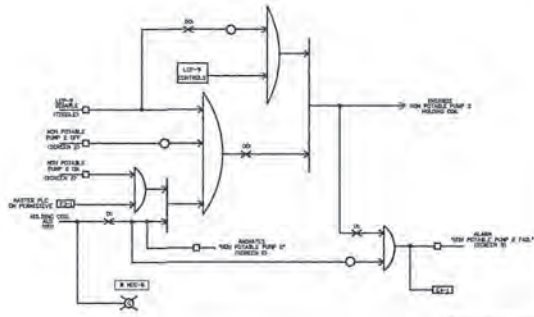


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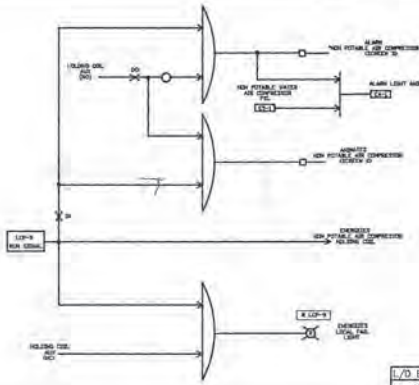
UNLESS SHOWN OTHERWISE, THIS IS A FIELD OF RECORD DRAWING.

LOGIC DIAGRAMS  
RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

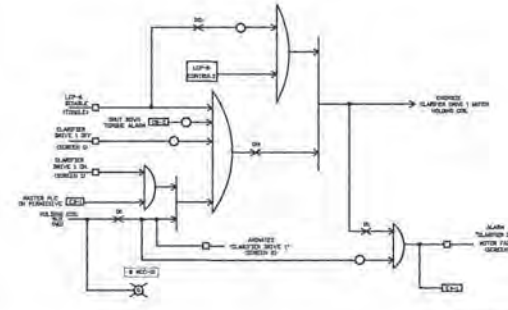
SHEET  
89  
OF 108 SHEETS  
8977



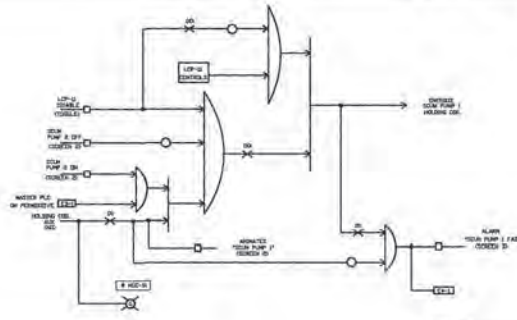
L/D B1  
NON-POTABLE  
PUMP 2 CONTROL



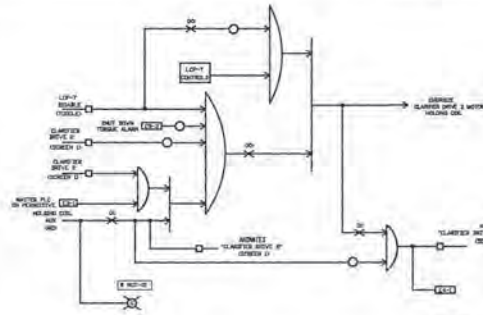
L/D B2  
AIR COMPRESSOR  
CONTROL



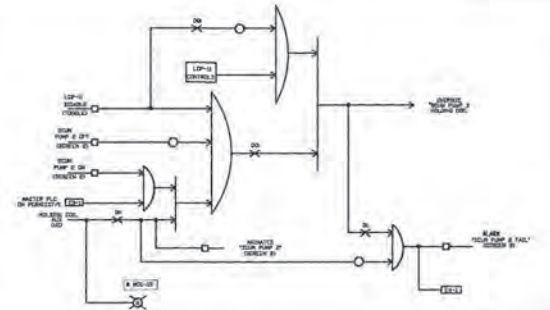
L/D B3  
CLARIFIER DRIVE 1  
CONTROL



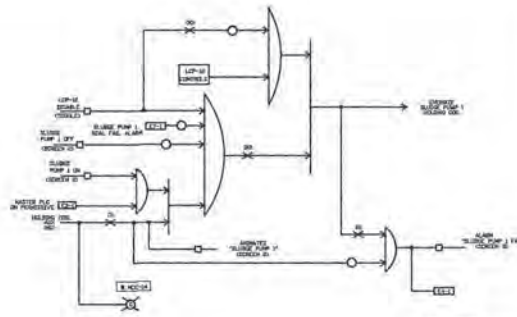
L/D B4  
SQU PUMP 1  
CONTROL



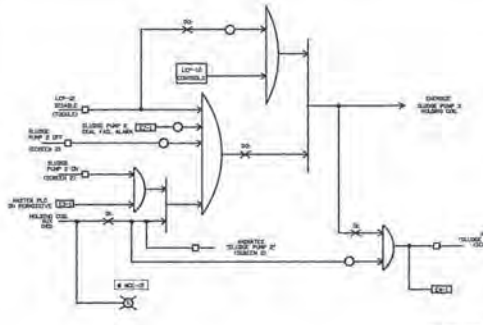
L/D B5  
CLARIFIER DRIVE 2  
CONTROL



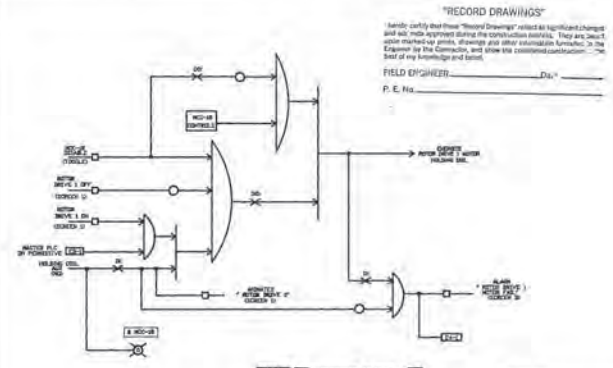
L/D B6  
SQU PUMP 2  
CONTROL



L/D B7  
SLUDGE PUMP 1  
CONTROL



L/D B8  
SLUDGE PUMP 2  
CONTROL



L/D B9  
ROTOR DRIVE 1  
CONTROL

**"RECORD DRAWINGS"**  
I hereby certify that these "Record Drawings" reflect all significant changes and all modifications during the construction period. They are drawn to the contract documents, drawings and other construction documents, as the basis of my knowledge and belief.  
FIELD ENGINEER: \_\_\_\_\_  
P. E. No. \_\_\_\_\_

ENGINEERING MATRIX, INC.  
1000 N. W. 10th St., Suite 100  
Fort Lauderdale, FL 33309  
TEL: (904) 798-8423 FAX: (904) 798-8429

DATE	REV. BY	REV. NO.	REV. DESCRIPTION

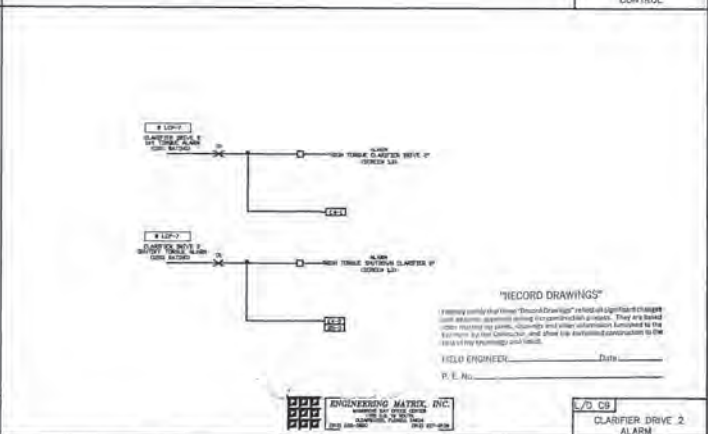
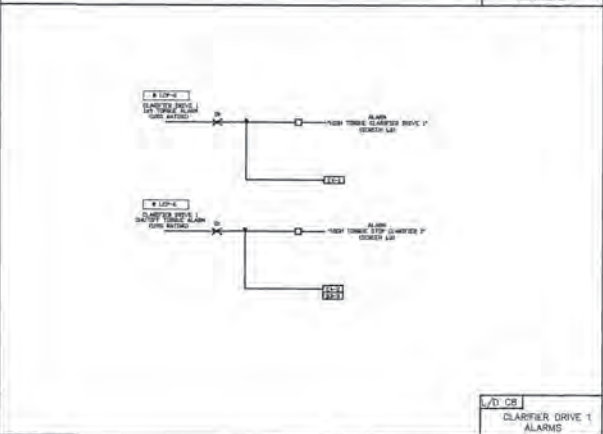
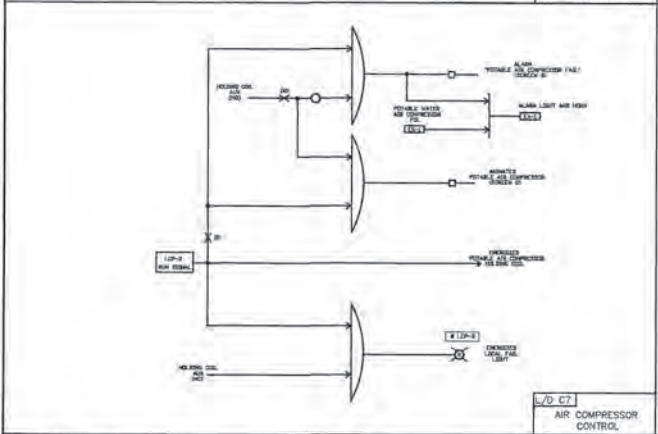
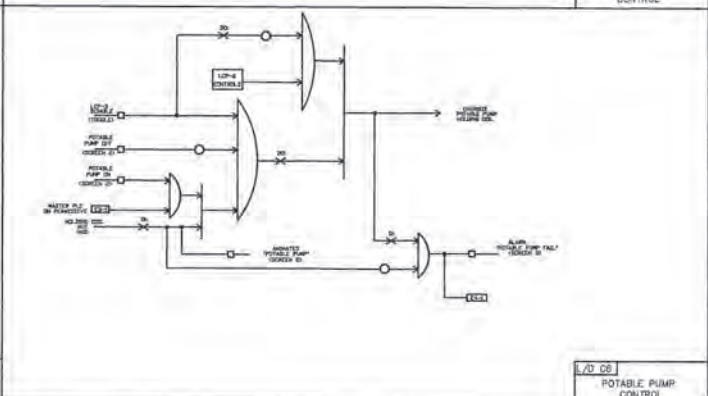
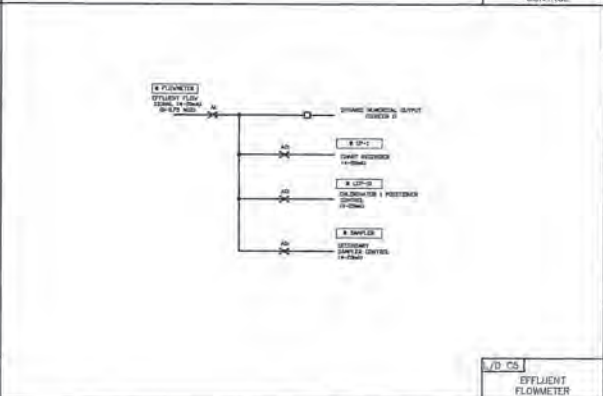
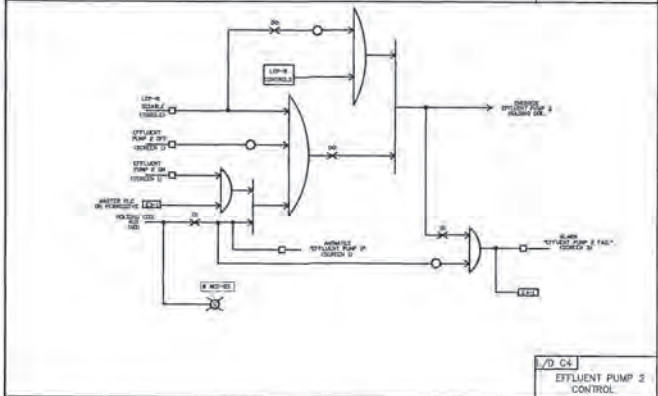
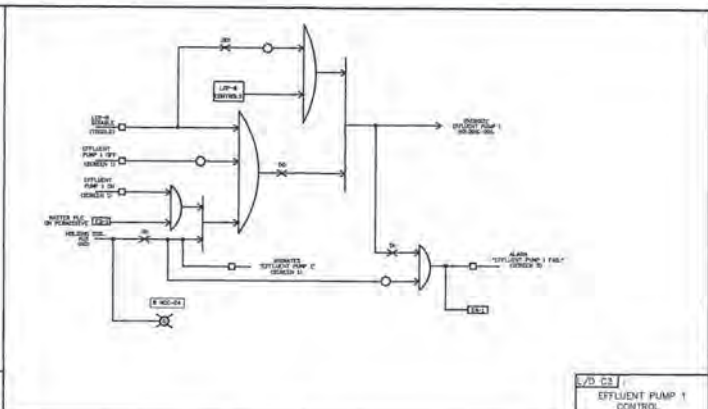
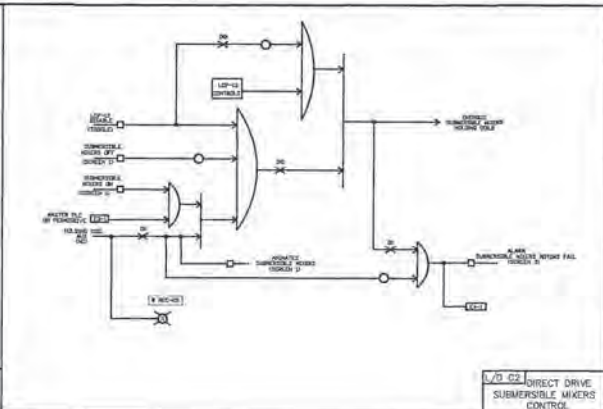
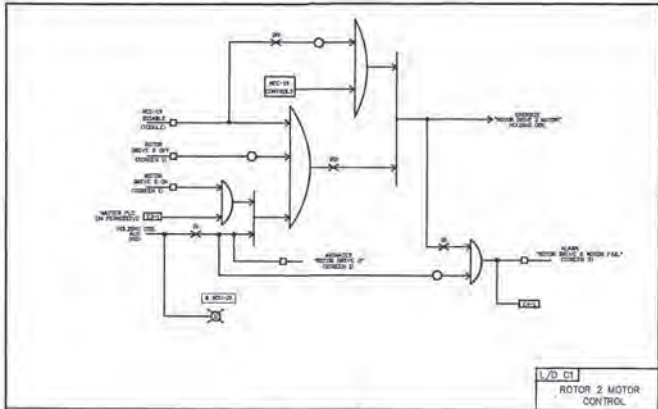
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FRESH WATER DIVISION 904-798-8429  
SEWER DIVISION 904-798-8429

**LOGIC DIAGRAMS**  
**RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT**

**SHEET**  
**90**  
OF 108 SHEETS  
**8977**



DATE	REV. BY	APP. BY	P.E. No.	REV. NO.	REVISION

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ENGINEERING MATRIX, INC.  
 11000 W. 11TH AVENUE  
 SUITE 100  
 DENVER, CO 80233

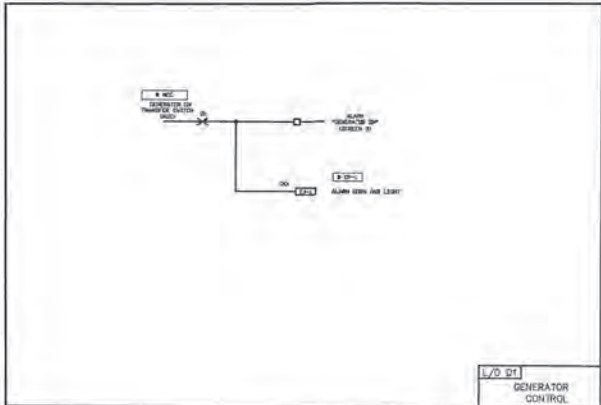
**LOGIC DIAGRAMS**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

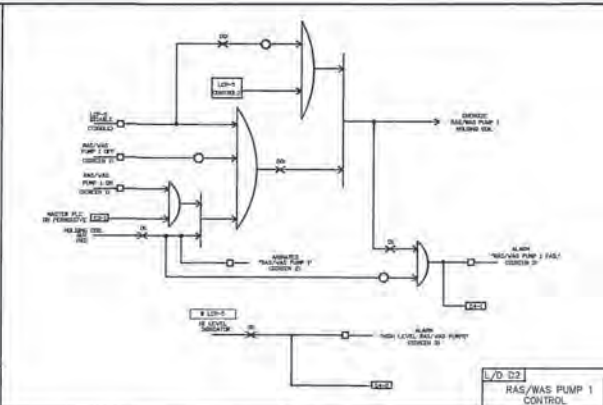
**SHEET 91**  
 OF 109 SHEETS  
 8977

"RECORD DRAWINGS"  
 I hereby certify that these "Record Drawings" are true and correct copies of the original drawings and specifications as approved by me for construction purposes. They are based upon the original drawings, specifications and other information furnished to the Engineer by the Contractor, and shall be maintained permanently to the life of the project.  
 FIELD ENGINEER: \_\_\_\_\_ Date: \_\_\_\_\_  
 P. E. No.: \_\_\_\_\_

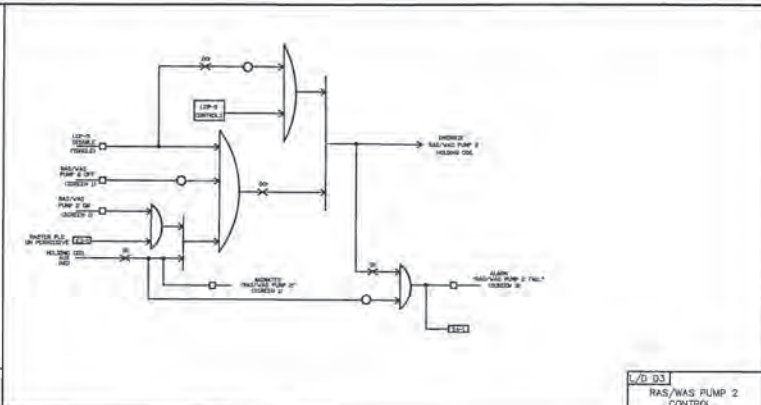




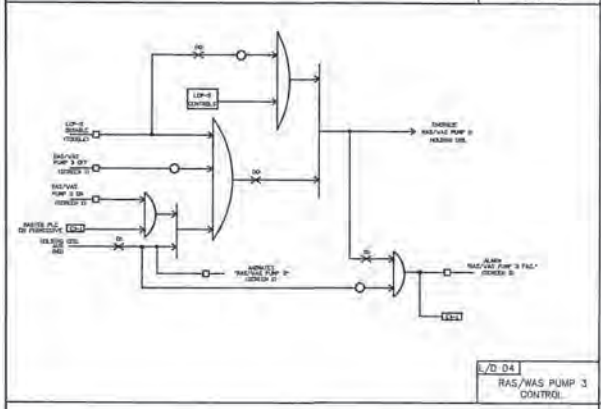
L/D D1  
GENERATOR CONTROL



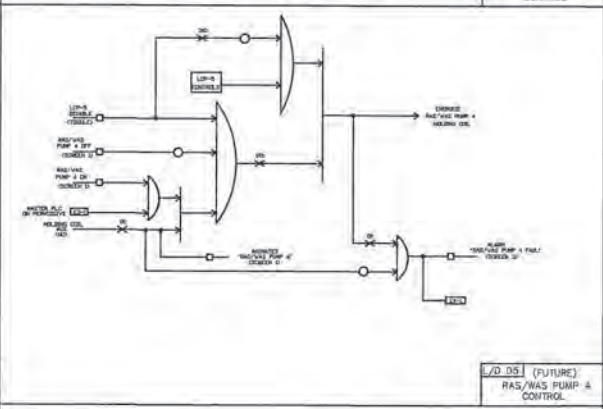
L/D D2  
RAS/WAS PUMP 1 CONTROL



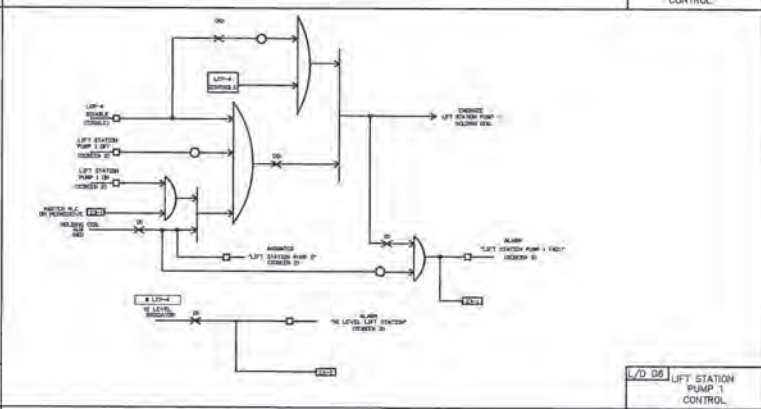
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RAS/WAS PUMP 2 CONTROL



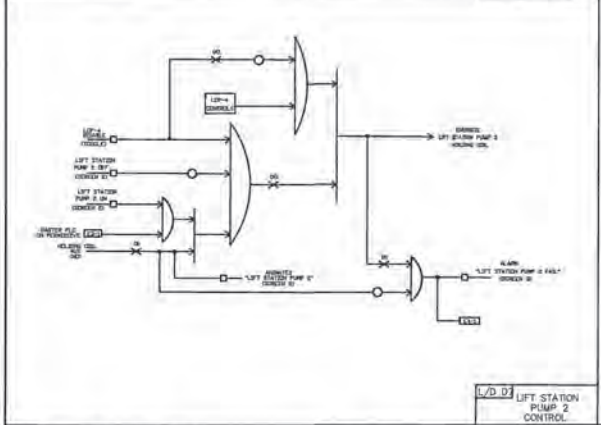
L/D D4  
RAS/WAS PUMP 3 CONTROL



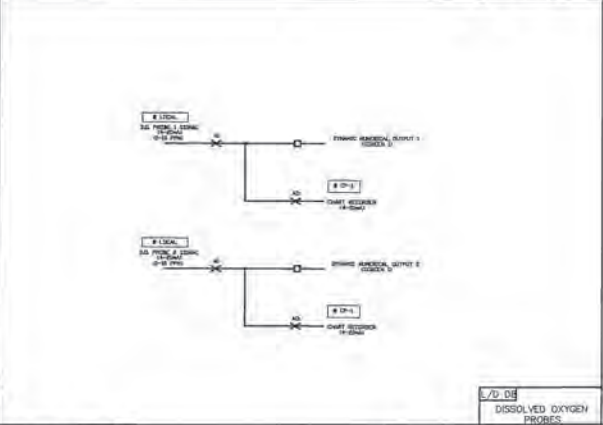
L/D D5 (FUTURE)  
RAS/WAS PUMP 4 CONTROL



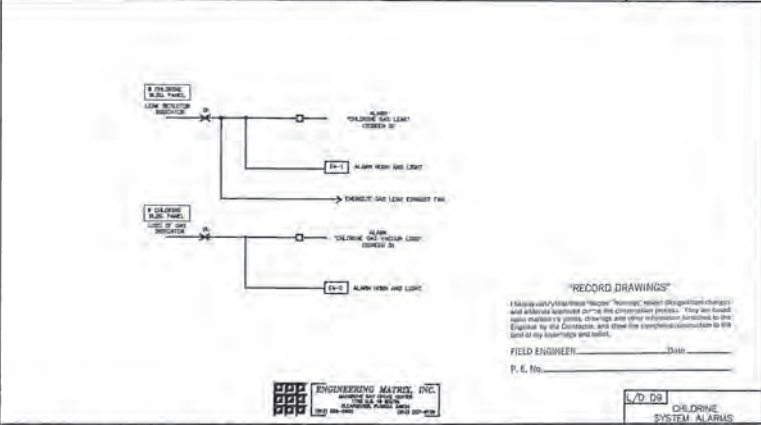
L/D D6  
LIFT STATION PUMP 1 CONTROL



L/D D7  
LIFT STATION PUMP 2 CONTROL



L/D D8  
DISSOLVED OXYGEN TROUBLE



L/D D9  
CHILDREN SYSTEM ALARMS

**"RECORD DRAWINGS"**  
 I hereby certify that these "Record Drawings" represent the final design of the project. They are based upon all data received during the construction period. They are based upon the contract and any addendum thereto. They are not to be used for any other purpose without the written authorization of Coastal Engineering Associates, Inc.  
 FIELD ENGINEER: \_\_\_\_\_  
 P. E. No. \_\_\_\_\_

**ENGINEERING MATRIX, INC.**  
 1000 N. W. 10th St., Suite 100  
 Ft. Lauderdale, FL 33304  
 (954) 575-1111

DATE	REV. BY	APP. BY	P.L. No.	REV. No.	REVISION

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 966 CANDELIGHT BOULEVARD  
 BROOKSVILLE, FLORIDA 34601  
 TEL. (904) 798-8225 FAX (904) 798-8228

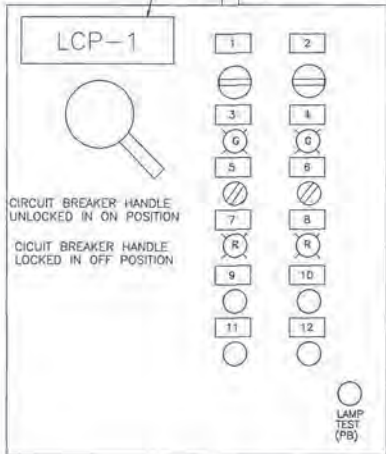
**LOGIC DIAGRAMS**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET 92**  
 OF 108 SHEETS  
 8977



NAMEPLATE TO BE LOCATED ON OUTSIDE DOOR

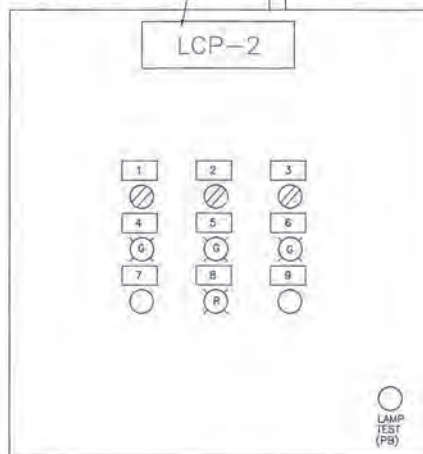


INTERIOR DOOR LAYOUT N.T.S.

NAMEPLATE (LCP-1)		
NO.	DESCRIPTION	DEVICE
1	BAR SCREEN ELAPSED TIME COUNTER	ETC-1
2	CONVEYOR ELAPSED TIME COUNTER	ETC-2
3	BAR SCREEN RUNNING	PL-1
4	CONVEYOR RUNNING	PL-2
5	HAND OFF AUTO	SS-1
6	HAND OFF AUTO	SS-2
7	BAR SCREEN OVERLOAD	PL-3
8	CONVEYOR OVERLOAD	PL-4
9	BAR SCREEN OVERLOAD RESET	PB-1
10	CONVEYOR OVERLOAD RESET	PB-2
11	BAR SCREEN START/RESET	PB-3
12	CONVEYOR START/RESET	PB-4

LCP-1  
BAR SCREEN CONTROL PANEL

NAMEPLATE TO BE LOCATED ON OUTSIDE DOOR

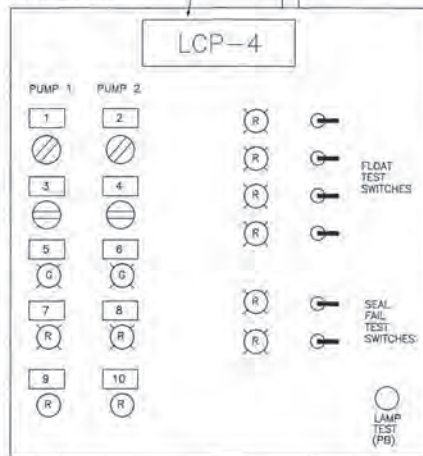


N.T.S. INTERIOR DOOR LAYOUT

NAMEPLATE (LCP-2)		
NO.	DESCRIPTION	DEVICE
1	TURBO PUMP H-O-A	SS-1
2	PROPELLER DRIVE ON/OFF	SS-2
3	SCREW CONVEYOR DRIVE	SS-3
4	TURBO PUMP RUNNING	PL-1
5	PROPELLER DVE RUNNING	PL-2
6	SCREW DRIVE RUNNING	PL-3
7	TURBO PUMP START	PB-1
8	PRIMING FAILURE	PL-4
9	PRIMING FAILURE RESET	PB-2

LCP-2  
GRIT REMOVAL CONTROL PANEL

NAMEPLATE TO BE LOCATED ON OUTSIDE DOOR



N.T.S. INTERIOR DOOR LAYOUT

NAMEPLATE (LCP-4)		
NO.	DESCRIPTION	DEVICE
1	PUMP 1 H-O-A	SS-1
2	PUMP 2 H-O-A	SS-2
3	PUMP 1 ELAPSED TIME COUNTER	ETC-1
4	PUMP 2 ELAPSED TIME COUNTER	ETC-2
5	PUMP 1 RUN	PL-1
6	PUMP 2 RUN	PL-2
7	PUMP 1 FAIL	PL-3
8	PUMP 2 FAIL	PL-4
9	PUMP 1 SEAL FAIL	PL-5
10	PUMP 2 SEAL FAIL	PL-6

"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They do not include work ordered by permit, drawing and/or other information furnished to the Engineer by the Contractor, and show the completed construction to the best of my knowledge and belief.

FIELD ENGINEER \_\_\_\_\_  
P. E. No. \_\_\_\_\_



LCP-4  
LIFT STATION CONTROL PANEL

Clarification: Control panels indicated on these sheets are provided to show the controls required and general configurations of the panel. It is not required that the panels be laid out exactly as shown. Panels must contain the required items as indicated and as specified in the appropriate sections of the Specifications.

DATE	REV.	BY	CHK.	APP.	REVISION
7-10-81	B.A.W.	G.E.H.	16948	Δ	ADDENDUM NO.2

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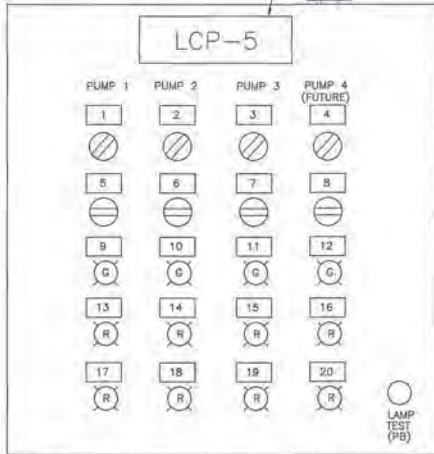
**Coastal Engineering Assoc., Inc.**  
ENGINEERING • PLANNING  
ENVIRONMENTAL • SURVEYING  
966 CANDLELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL (904) 788-9429 FAX (904) 788-8559

ENGINEERING MATRIX, INC.  
REGISTERED PROFESSIONAL ENGINEER  
LICENSE NO. 12456  
STATE OF FLORIDA

CONTROL PANEL DETAILS  
RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

SHEET  
94  
OF 108 SHEETS  
7/87 8977

NAMEPLATE TO BE LOCATED ON OUTSIDE DOOR

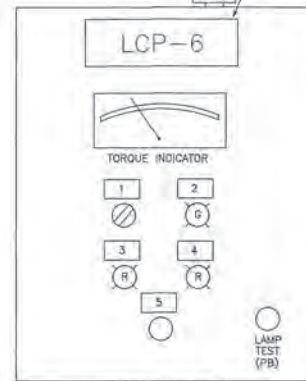


NAMEPLATE (LCP-5)		
NO.	DESCRIPTION	DEVICE
1	PUMP 1 H-O-A	SS-1
2	PUMP 2 H-O-A	SS-2
3	PUMP 3 H-O-A	SS-3
4	PUMP 4 H-O-A	SS-4
5	PUMP 1 ELAPSED TIME COUNTER	ETC-1
6	PUMP 2 ELAPSED TIME COUNTER	ETC-2
7	PUMP 3 ELAPSED TIME COUNTER	ETC-3
8	PUMP 4 ELAPSED TIME COUNTER	ETC-4
9	PUMP 1 RUN	PL-1
10	PUMP 2 RUN	PL-2
11	PUMP 3 RUN	PL-3
12	PUMP 4 RUN	PL-4
13	PUMP 1 FAIL	PL-5
14	PUMP 2 FAIL	PL-6
15	PUMP 3 FAIL	PL-7
16	PUMP 4 FAIL	PL-8
17	PUMP 1 SEAL FAIL	PL-9
18	PUMP 2 SEAL FAIL	PL-10
19	PUMP 3 SEAL FAIL	PL-11
20	PUMP 4 SEAL FAIL	PL-12

LCP-5  
RAS/WAS PUMPS CONTROL PANEL

N.T.S. INTERIOR DOOR LAYOUT

NAMEPLATE TO BE LOCATED ON OUTSIDE DOOR

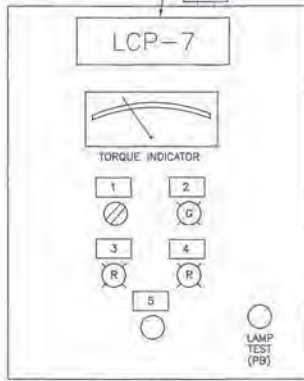


NAMEPLATE (LCP-6)		
NO.	DESCRIPTION	DEVICE
1	CLARIFIER DRIVE ON/OFF	SS-1
2	CLARIFIER DRIVE RUN	PL-1
3	HIGH TORQUE	PL-2
4	SHUTOFF TORQUE	PL-3
5	SHUTOFF TORQUE RESET	PB-1

N.T.S.

LCP-6  
CLARIFIER 1 CONTROL PANEL

NAMEPLATE TO BE LOCATED ON OUTSIDE DOOR



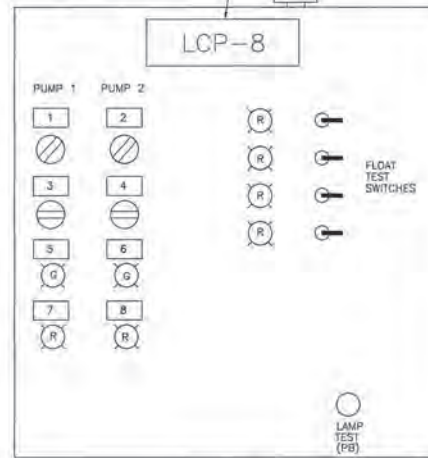
NAMEPLATE (LCP-7)		
NO.	DESCRIPTION	DEVICE
1	CLARIFIER DRIVE ON/OFF	SS-1
2	CLARIFIER DRIVE RUN	PL-1
3	HIGH TORQUE	PL-2
4	SHUTOFF TORQUE	PL-3
5	SHUTOFF TORQUE RESET	PB-1

LCP-7  
CLARIFIER 2 CONTROL PANEL

N.T.S.

Clarification: Control panels indicated on these sheets are provided to show the controls required and general configurations of the panel. It is not required that the panels be laid out exactly as shown. Panels must contain the required items as indicated and as specified in the appropriate sections of the Specifications.

NAMEPLATE TO BE LOCATED ON OUTSIDE DOOR



NAMEPLATE (LCP-8)		
NO.	DESCRIPTION	DEVICE
1	PUMP 1 H-O-A	SS-1
2	PUMP 2 H-O-A	SS-2
3	PUMP 1 ELAPSED TIME COUNTER	ETC-1
4	PUMP 2 ELAPSED TIME COUNTER	ETC-2
5	PUMP 1 RUN	PL-1
6	PUMP 2 RUN	PL-2
7	PUMP 1 FAIL	PL-3
8	PUMP 2 FAIL	PL-4

INTERIOR DOOR LAYOUT

N.T.S.

"RECORD DRAWINGS"

I hereby certify that these "Record Drawings" reflect all specified changes and omissions required during the construction process. They are based upon reviewed and approved drawings and other information furnished to the fabricator by the Contractor, and show the contractor's contribution to the work of this project.

FIELD ENGINEER \_\_\_\_\_ Date \_\_\_\_\_  
P. E. No. \_\_\_\_\_



LCP-8  
EFFLUENT PUMPS CONTROL PANEL

DATE	REV. BY	APP. BY	PL. NO.	REV. NO.	REVISION
7-10-91	BAW	GEH	18948	Δ	ADDENDUM NO. 2

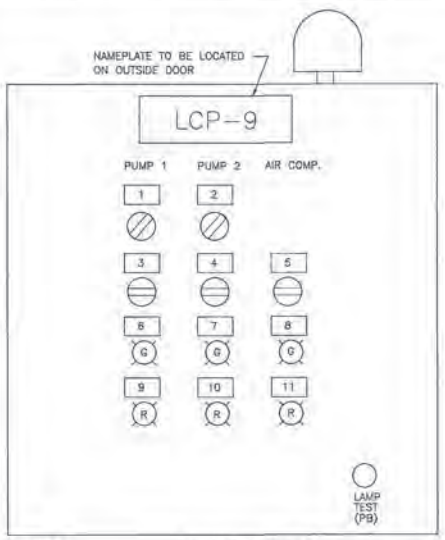
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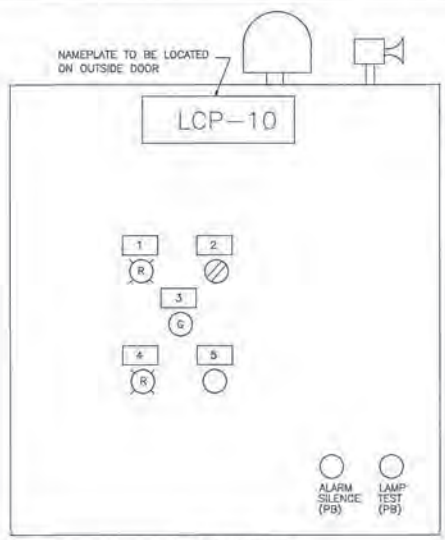
PRINTED AND PUBLISHED BY THE  
ENGINEERING MATTHEY, INC.  
1000 N. W. 10th Ave.  
Fort Lauderdale, FL 33309  
Tel: 305-461-1100

CONTROL PANEL DETAILS		<b>SHEET</b> <b>95</b> <small>OF 108 SHEETS</small> <b>8977</b>
<b>RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT</b>		



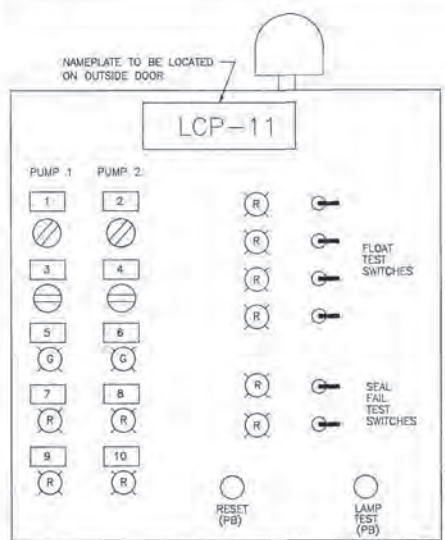
NAMEPLATE (LCP-9)		
NO.	DESCRIPTION	DEVICE
1	PUMP DRIVE H-O-A	SS-1
2	PUMP DRIVE H-O-A	SS-2
3	PUMP ELAPSED TIME METER	ETM-1
4	PUMP ELAPSED TIME METER	ETM-2
5	AIR COMPRESSOR ELAPSED TIME METER	ETM-3
6	PUMP RUN	PL-1
7	PUMP RUN	PL-2
8	AIR COMPRESSOR RUN	PL-3
9	PUMP FAIL	PL-4
10	PUMP FAIL	PL-5
11	AIR COMPRESSOR FAIL	PL-6

LCP-9  
NON POTABLE CONTROL PANEL



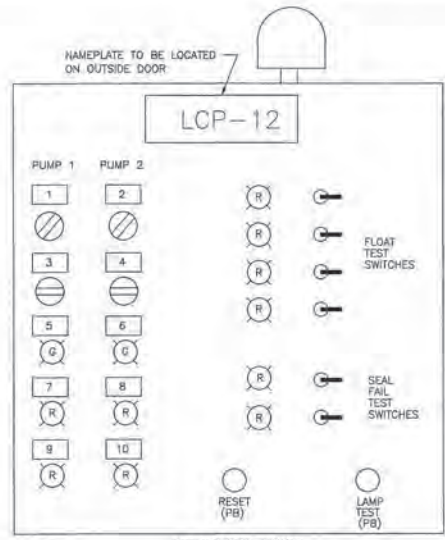
NAMEPLATE (LCP-10)		
NO.	DESCRIPTION	DEVICE
1	LOSS OF GAS	PL-1
2	SYSTEM DRIVE ON/OFF	SS-1
3	SYSTEM RUNNING	PL-2
4	GAS LEAK	PL-3
5	GAS LEAK TEST	PB-1

LCP-10  
CHLORINATOR CONTROL PANEL



NAMEPLATE (LCP-11)		
NO.	DESCRIPTION	DEVICE
1	PUMP 1 H-O-A	SS-1
2	PUMP 2 H-O-A	SS-2
3	PUMP 1 ELAPSED TIME COUNTER	ETC-1
4	PUMP 2 ELAPSED TIME COUNTER	ETC-2
5	PUMP 1 RUN	PL-1
6	PUMP 2 RUN	PL-2
7	PUMP 1 FAIL	PL-3
8	PUMP 2 FAIL	PL-4
9	PUMP 1 SEAL FAIL	PL-5
10	PUMP 2 SEAL FAIL	PL-6

LCP-11  
SCUM PUMPS CONTROL PANEL



NAMEPLATE (LCP-12)		
NO.	DESCRIPTION	DEVICE
1	PUMP 1 H-O-A	SS-1
2	PUMP 2 H-O-A	SS-2
3	PUMP 1 ELAPSED TIME COUNTER	ETC-1
4	PUMP 2 ELAPSED TIME COUNTER	ETC-2
5	PUMP 1 RUN	PL-1
6	PUMP 2 RUN	PL-2
7	PUMP 1 FAIL	PL-3
8	PUMP 2 FAIL	PL-4
9	PUMP 1 SEAL FAIL	PL-5
10	PUMP 2 SEAL FAIL	PL-6

\*RECORD DRAWINGS\*

Hand-drawn drawings shall show "Record Drawings" reflect all significant revisions and alterations approved during the construction process. They are based upon marked-up prints, drawings and/or information furnished to the Engineer by the Contractor, and shall be complete and consistent with the field of the Contractor and owner.

FIELD ENGINEER: \_\_\_\_\_ Date: \_\_\_\_\_

P. E. No. \_\_\_\_\_

LCP-12  
SLUDGE PUMPS CONTROL PANEL

Clarification: Control panels indicated on these sheets are provided to show the controls required and general configurations of the panel. It is not required that the panels be laid out exactly as shown. Panels must contain the required items as indicated and as specified in the appropriate sections of the Specifications.

DATE	REV. BY	APP. BY	REV. NO.	REVISION
7-10-91	B.A.W.	GEH	16948	ADDENDUM NO.2

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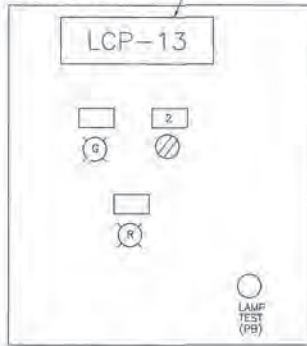
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CONTROL PANEL DETAILS

RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

SHEET  
**96**  
OF 108 SHEETS  
#8977

NAMEPLATE TO BE LOCATED ON OUTSIDE DOOR



N.T.S.

INTERIOR DOOR LAYOUT

NAMEPLATE (LCP-13)		
NO.	DESCRIPTION	DEVICE
1	MIXER MOTORS RUNNING	PL-1
2	MIXER MOTORS START/STOP	SS-1
3	MIXER MOTORS FAIL	PL-2

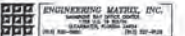
LCP-13  
SUBMERSIBLE MIXERS CONTROL PANEL

△ Clarification: Control panels indicated on these sheets are provided to show the controls required and general configurations of the panel. It is not required that the panels be laid out exactly as shown. Panels must contain the required items as indicated and as specified in the appropriate sections of the Specifications.

"RECORD DRAWINGS"

I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They were based upon the original drawings and any other information furnished to me by the contractor, and they are completed in accordance with the best of my knowledge and belief.

FIELD ENGINEER \_\_\_\_\_ Date \_\_\_\_\_  
P. E. No. \_\_\_\_\_



DATE	REV. BY	REV. BY	REV. BY	REV. BY	REVISION
7-10-91	BAW	GEH	18948	AK	ADDENDUM NO 2

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FEDS 01-7138 01-7139 01-7140 01-7141 01-7142

ISSUES SHALL BE MADE AVAILABLE TO THE PUBLIC AT NO CHARGE.

CONTROL PANEL DETAILS

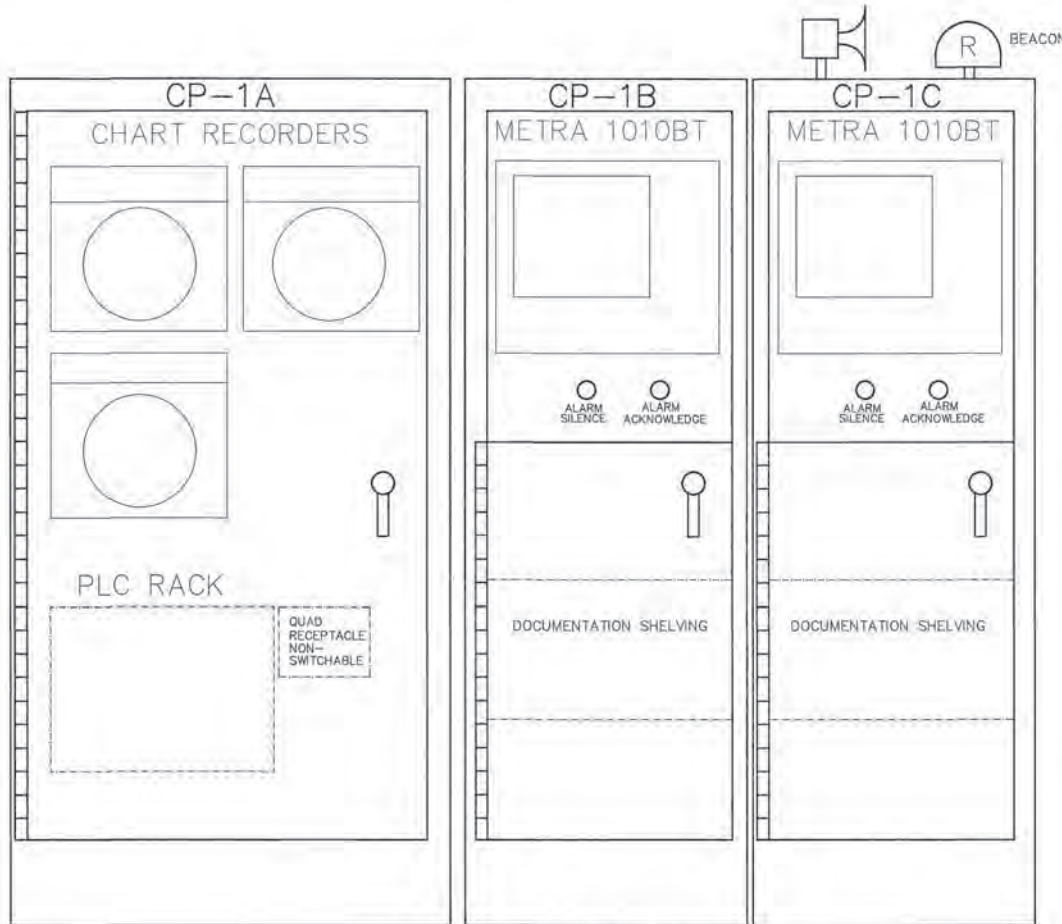
RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

SHEET

97

OF 108 SHEETS

8977



CONTROL PANEL 1

SCALE: 3"=1'-0"

PANEL (CP-1A) SHOULD BE SELF CONTAINED PRE-FABRICATED WITH EASY FRONT ACCESS.

REQUIRED DRAWING SUBMITTAL TO THE ENGINEER WITH:

- DEVICES
- LAYOUT
- DIMENSIONS

PANEL SHOULD BE SECURILY MOUNTED AND ATTACHED TO THE BUILDING.

PANELS (CP-1B AND CP-1C) SHOULD BE PRE-FABRICATED WITH EASY FRONT ACCESS THROUGH SLIDING RAILS.

PANELS SHOULD BE SECURILY MOUNTED AND ATTACHED TO THE BUILDING.

REQUIRED DRAWING SUBMITTAL TO THE ENGINEER WITH:

- DEVICES
- LAYOUT
- DIMENSIONS

THE CONTROLS CONTRACTOR SHALL PROVIDE A TOSHIBA T3200SX LAPTOP PORTABLE COMPUTER WITH A 20 MB HARD DRIVE, A METRA PROGRAM DEVELOPMENT INTERFACE CARD WITH ASSOCIATED SOFTWARE, AND A PLC COMMUNICATIONS CARD.

THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL EQUIPMENT AND SOFTWARE TO INTERFACE BETWEEN THE PLC 5/15, THE CHART RECORDERS, THE METRA 1010BT CRTs, AND OTHER CONTROL POINTS. ALL CONTROL WIRING SHALL BE BELDON 18 GAGE TWISTED PAIR, SHIELDED, AS PER PLC MANUFACTURER REQUIREMENTS. AN ALLEN-BRADLEY PLC 5/15 IS REQUIRED UNLESS OTHERWISE APPROVED PRIOR TO BID SUBMITTAL.

"RECORD DRAWINGS"

"I hereby certify that these 'Record Drawings' reflect all specifications and reforms approved during the construction process. They are based upon electrical prints, drawings and other information furnished to me by the contractor, and show the complete construction to the best of my knowledge and belief."

FIELD ENGINEER \_\_\_\_\_ Date: \_\_\_\_\_  
P. E. No. \_\_\_\_\_



DATE	REV. BY	REV. BY	REV. NO.	REV. NO.	REVISION

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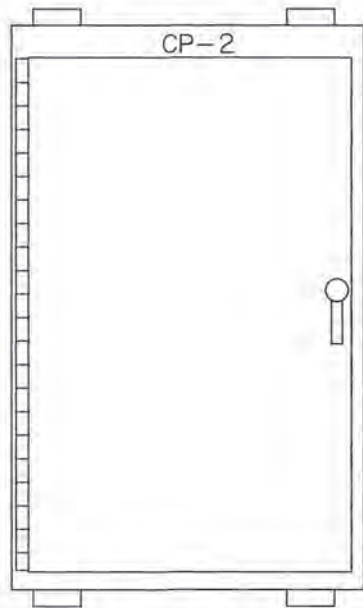


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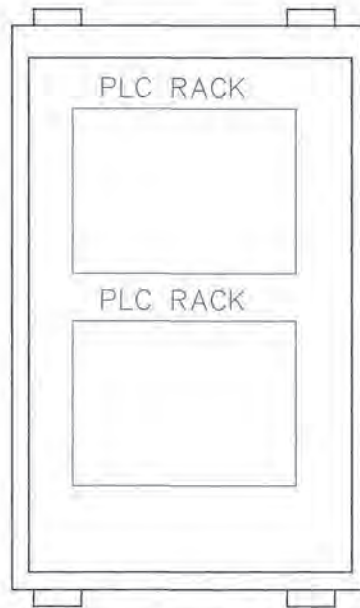
DESIGNED BY: TEAM  
DRAWN BY: M.B.L.  
CHECKED BY: D.E.L.  
DATE: 10/10/98

CONTROL PANEL DETAILS  
RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT

SHEET  
98  
OF 108 SHEETS  
8977



EXTERIOR



INTERIOR

CONTROL PANEL 2

SCALE: 3"=1'-0"

PANEL (CP-2) SHOULD BE PRE-FABRICATED WITH EASY FRONT ACCESS.

PANELS SHOULD BE SECURELY MOUNTED AND ATTACHED TO THE BUILDING.

REQUIRED DRAWING SUBMITTAL TO THE ENGINEER WITH:

- DEVICES
- LAYOUT
- DIMENSIONS

"RECORD DRAWINGS"

Accurately use these "Record Drawings" reflect all significant changes and all work approved during the construction process. They are based on the latest approved drawings and other construction documents. It is the responsibility of the Contractor to show the completed construction to the Engineer for his review and record.

FIELD ENGINEER: \_\_\_\_\_ Date: \_\_\_\_\_

P. E. No. \_\_\_\_\_



DATE	REV. BY	APP. BY	REV. NO.	REVISION

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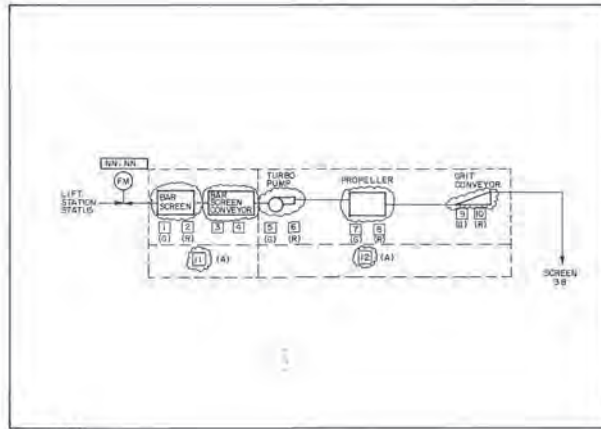
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PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 License No. 12121  
 Exp. 12/31/00

**CONTROL PANEL DETAILS**  
 RIDGE MANOR WEST SUBREGIONAL  
 WASTEWATER TREATMENT PLANT

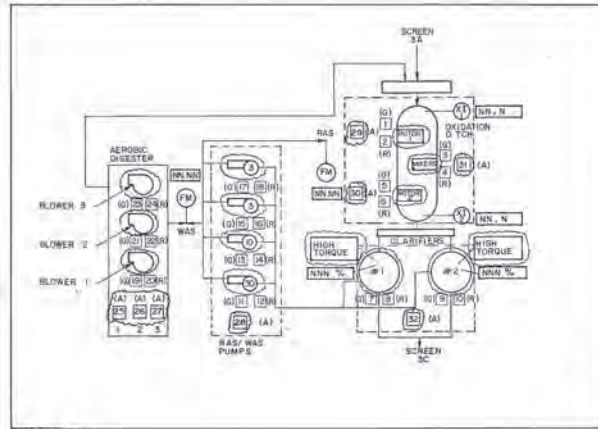
SHEET  
**99**  
 OF 108 SHEETS  
 8977



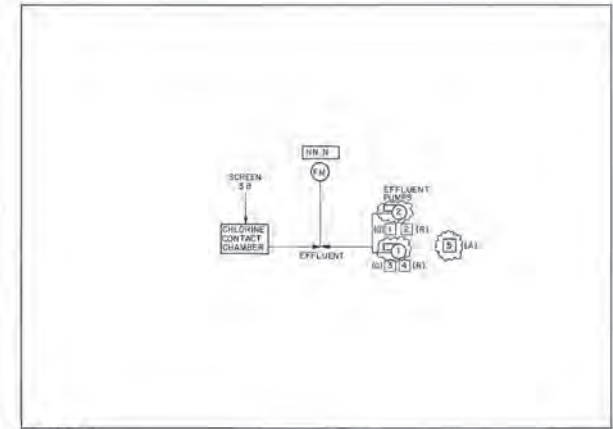


SCREEN 3 A

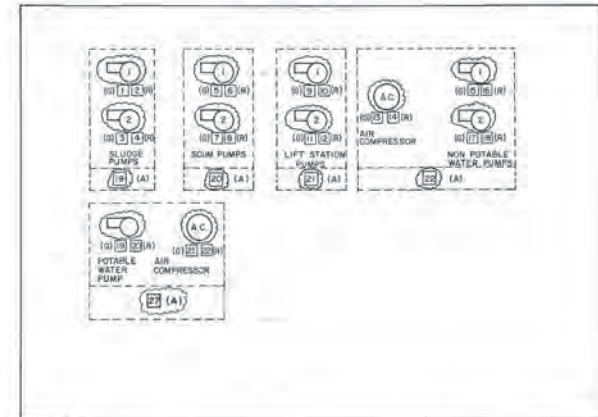
ANIMATED IMAGE  
 FUNCTION KEY  
 N NN DYNAMIC NUMERIC DATA  
 LCP/MCC DISABLE TOGGLE  
 ( ) COLOUR CODES NOT ON SCREEN DISPLAY



SCREEN 3 B



SCREEN 3 C



SCREEN 2

SCREEN 3A

- CHLORINE GAS VACUUM LOSS
- CHLORINE GAS LEAK
- BAR SCREEN MOTOR FAIL
- HIGH LEVEL BAR SCREEN
- BAR SCREEN CONVEYOR MOTOR FAIL
- TURBO PUMP FAIL
- TURBO PUMP SPEED FAIL
- PROPELLER DRIVE MOTOR FAIL
- SCREEN CONVEYOR DRIVE MOTOR FAIL
- INFLUENT FLOWMETER FAULT
- BLOWER 1 MOTOR FAIL
- BLOWER 2 MOTOR FAIL
- BLOWER 3 MOTOR FAIL
- NON-POTABLE PUMP 1 FAIL
- NON-POTABLE PUMP 2 FAIL
- NON-POTABLE AIR COMPRESSOR FAIL
- NON-POTABLE WATER LOW PRESSURE ALARM

SCREEN 3B

- CLARIFIER DRIVE 1 MOTOR FAIL
- CLARIFIER DRIVE 1 HI TORQUE ALARM
- CLARIFIER DRIVE 1 SHUT OFF TORQUE ALARM
- SCUM PUMP 1 FAIL
- CLARIFIER DRIVE 2 MOTOR FAIL
- CLARIFIER DRIVE 2 HI TORQUE ALARM
- CLARIFIER DRIVE 2 SHUT OFF TORQUE ALARM
- SCUM PUMP 2 FAIL
- SLUDGE PUMP 1 FAIL
- SLUDGE PUMP 1 SEAL FAIL
- SLUDGE PUMP 2 SEAL FAIL
- MOTOR DRIVE 1 MOTOR FAIL
- MOTOR DRIVE 2 MOTOR FAIL
- SUPERSTABLE MIXERS MOTORS FAIL

SCREEN 3C

- EFFLUENT PUMP 1 FAIL
- EFFLUENT PUMP 2 FAIL
- POTABLE PUMP FAIL
- POTABLE AIR COMPRESSOR FAIL
- POTABLE WATER LOW PRESSURE ALARM
- BAS/WAS PUMP 1 FAIL
- BAS/WAS PUMP 2 FAIL
- BAS/WAS PUMP 3 FAIL
- BAS/WAS PUMP 4 FAIL
- HIGH LEVEL BAS/WAS PUMPS
- LIFT STATION PUMP 1 FAIL
- LIFT STATION PUMP 2 FAIL
- HI LEVEL LIFT STATION GENERATOR ON

"RECORD DRAWINGS"

I hereby certify that these "Record Drawings" reflect all significant changes and additions approved during the construction process. They are based upon final as-built permits, drawings and other information furnished to the Engineer by the Contractor, and show the as-constructed conditions to the best of the Engineer's knowledge and belief.

FIELD ENGINEER \_\_\_\_\_ Date \_\_\_\_\_  
P. E. No. \_\_\_\_\_

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 MANUFACTURING & SERVICE CENTER  
 755 U.S. 90 SOUTH  
 GAITHERSBURG, FLORIDA 34424  
 (813) 533-5800 (813) 217-9178

DATE	REV. BY	APP. BY	REV. NO.	REV. NO.	REVISION

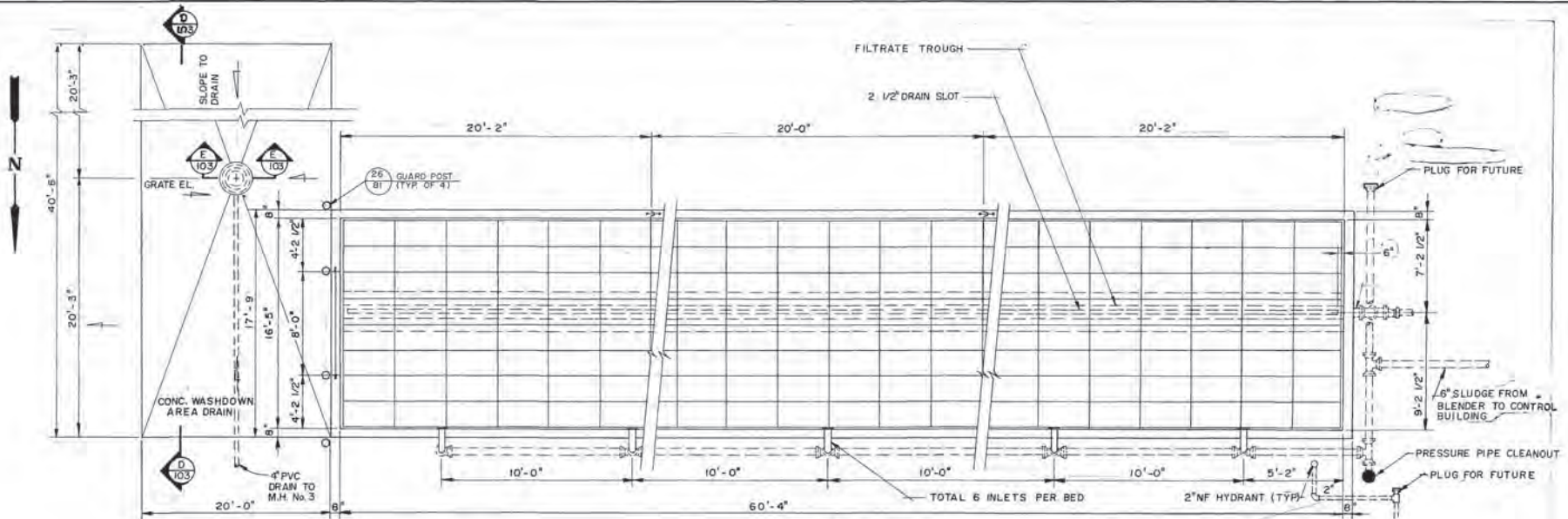
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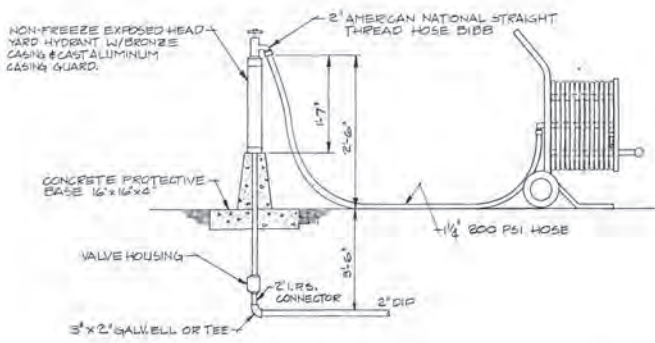
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DRAWING NO. 2002-0010  
 SHEET NO. 100 OF 108

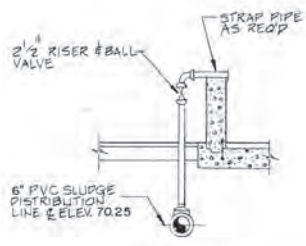
**COMPUTER STATUS SCREEN SHEET**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**  
**SHEET 100 OF 108 INSETS 8977**



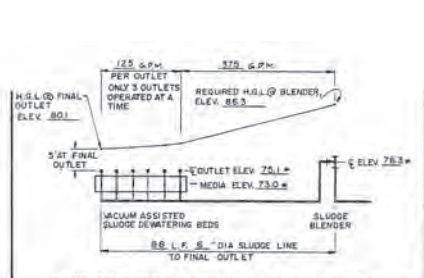
**PLAN**  
SCALE: 1/4"=1'-0"



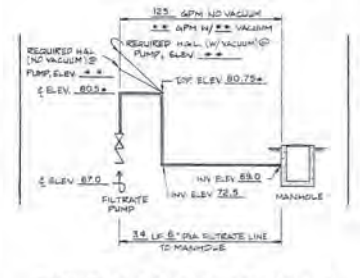
**YARD HYDRANT DETAIL**  
N.T.S.



**INLET PIPING**  
SCALE: 1/2"=1'-0"



**SLUDGE FEED LINE HYDRAULIC PROFILE**  
N.T.S.



**FILTRATE PUMP HYDRAULIC PROFILE**  
N.T.S.

**"RECORD DRAWINGS"**  
I hereby certify that these "Record Drawings" reflect all significant changes and material payment during the construction process. They are based upon the most recent plans, drawings and other information furnished to the Contractor by the Contractor, and shall show the approved construction to the best of my knowledge and belief.  
FIELD ENGINEER \_\_\_\_\_ Date \_\_\_\_\_  
P. E. No. \_\_\_\_\_

Clarification: Regarding the note on each of these drawings in reference to providing signed and sealed electrical and structural drawings: the Contractor, via the system supplier, shall submit as a submittal, signed and sealed drawings for the electrical and structural portions of the Vacuum Assisted Sludge Drying System. Reproducible copies of sheets 101 through 108 will be provided for this purpose.

This drawing provided by U.S. Environmental Products, Inc. is provided to assist bidders in determining the scope of work provided. Supplier of Vacuum Assisted Sludge Dewatering Facility shall submit final drawings in accordance with the contract documents. All structural and electrical drawings shall be signed and sealed by an appropriate engineer registered in the State of Florida.

DATE	REV.	APP.	BY	REV.	REVISION
7-10-91	BAW	GEN.	16948	Δ	ADDENDUM NO. 2

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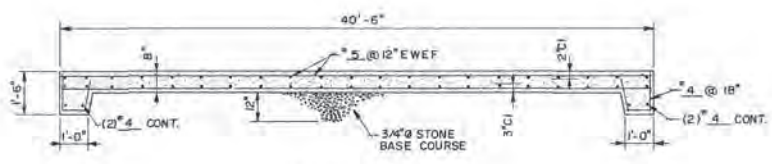
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966 CANDELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL. (904) 798-9423 FAX (904) 798-9258  
OWNER: CEA ENGINEER: MRU DESIGNER: GER DATE: 7/18/91

NOTES:  
\* SUPPLIER TO VERIFY  
\*\* TO BE PROVIDED BY SUPPLIER

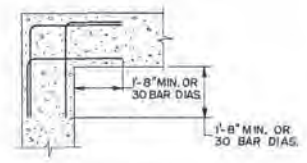
**VACUUM ASSISTED DEWATERING BED FACILITY LAYOUT**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**SHEET**  
**101**  
OF 108 SHEETS  
8977

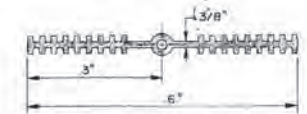
NOTE:  
 ALL CONSTRUCTION JOINTS SUBJECT TO VACUUM MUST HAVE WATERSTOP. THE ONLY WATERSTOP FOUND TO BE EFFECTIVE AGAINST VACUUM LEAKS IS THE CENTER BULB TYPE INSTALLED 90° TO THE CONSTRUCTION JOINT. THE WATERSTOP MUST BE PVC SERRATED TYPE WITH CENTER BULB, NOT LESS THAN 3/8" THICK AND 6" WIDE.



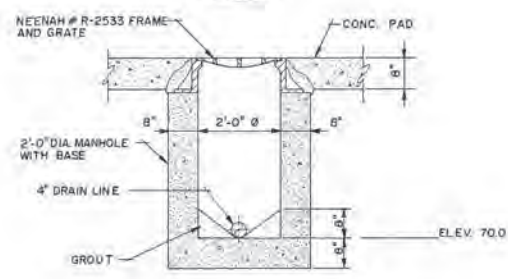
**SECTION D-D**  
 SCALE: 1/2"=1'-0"



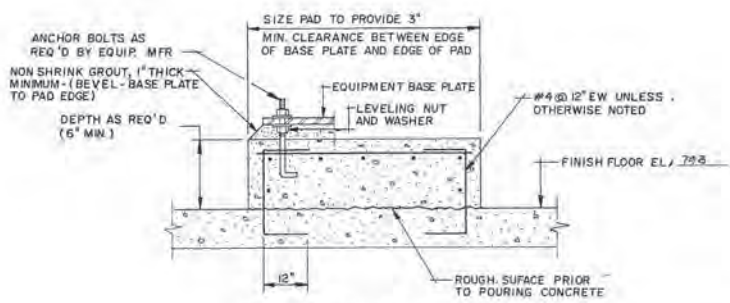
**HORIZONTAL WALL REINFORCING CORNER**  
 N.T.S.



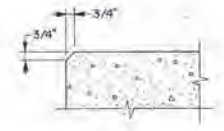
**WATERSTOP DETAIL**  
 N.T.S.



**SECTION E-E**  
 SCALE: 3/4"=1'-0"



**TYPICAL EQUIPMENT PAD AND ANCHORAGE DETAIL**  
 N.T.S.



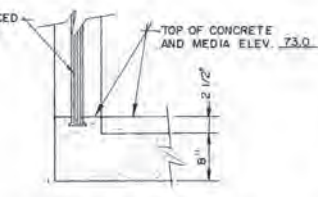
**TYPICAL CONCRETE CHAMFER DETAIL**  
 N.T.S.

This drawing provided by U.S. Environmental Products, it is provided to assist bidders in determining the scope of work provided. Supplier of Vacuum Assisted Sludge Dewatering Facility shall submit final drawings in accordance with the contract documents. All structural and electrical drawings shall be signed and sealed by an appropriate engineer registered in the State of Florida.

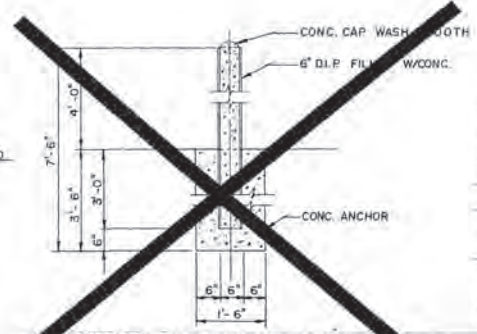
"RECORD DRAWINGS"

I hereby authorize these "Record Drawings" unless all significant changes are shown by notation during the construction process. They are based upon information, notes, sketches and other references furnished to me by the Contractor and shall show the completed construction to the best of my knowledge and belief.

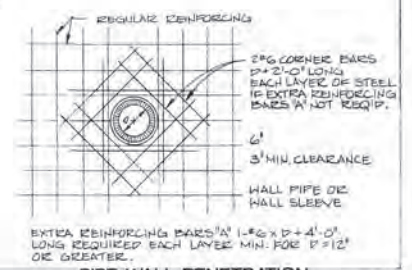
FIELD ENGINEER: \_\_\_\_\_ Date: \_\_\_\_\_  
 P. E. No. \_\_\_\_\_



**SLIDE GATE CURB DETAIL**  
 N.T.S.



**TYPICAL GUARDPOST DETAIL**  
 N.T.S.



**PIPE WALL PENETRATION EXTRA REINFORCING DETAIL**  
 N.T.S.

Clarification: Regarding the note on each of these drawings in reference to providing signed and sealed electrical and structural drawings: the Contractor, via the system supplier, shall submit as a submittal, signed and sealed drawings for the electrical and structural portions of the Vacuum Assisted Sludge Drying System. Reproducible copies of sheets 101 through 102 will be provided for this purpose.

DATE	REV. BY	REV. TO	REV. NO.	REV. BY	REV. NO.
7-10-91	BAW	GEH	10948	JL	ADDENDUM NO.2

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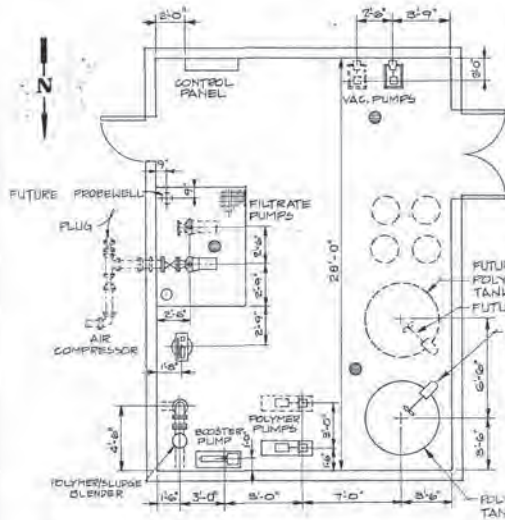
**Coastal Engineering Assoc., Inc.**  
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 966 CANDLELIGHT BOULEVARD  
 BROOKSVILLE, FLORIDA 34601  
 TEL. (804) 788-8423 FAX (804) 788-8558

DATE: 7/10/91  
 DRAWN BY: JAW  
 CHECKED BY: JAW  
 IN CHARGE: JAW

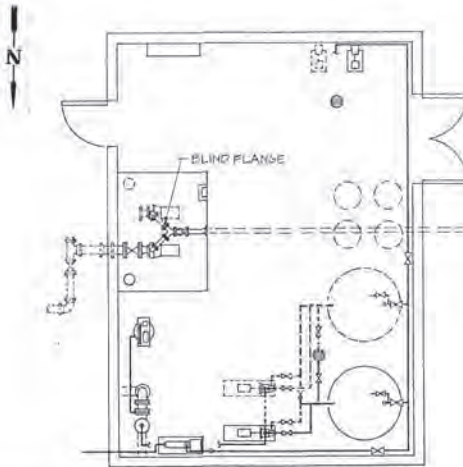
**VACUUM ASSISTED DEWATERING BEDS STRUCTURAL DETAILS**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

**103**  
 OF 108 SHEETS  
 8977

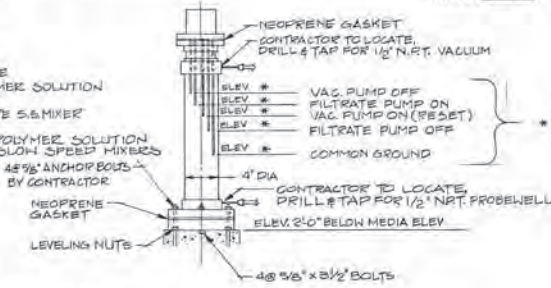


**CONTROL BUILDING EQUIPMENT LOCATION PLAN**  
SCALE: 1/4" = 1'-0"



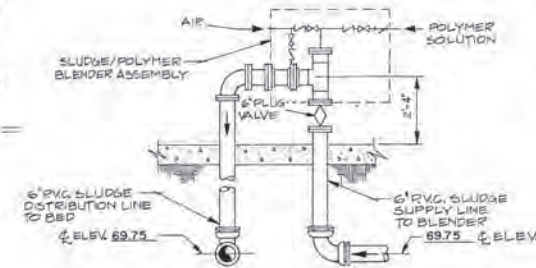
**CONTROL BUILDING PIPING PLAN**  
SCALE: 1/4" = 1'-0"

**NOTE:**  
1. EXACT DIMENSIONS OF EQUIPMENT WILL VARY WITH SIZE OF EQUIPMENT NEEDED. EQUIPMENT SHOWN IS AVERAGE SIZE. CLEARANCES MUST BE ADJUSTED FOR PROPER OPERATION AND MAINTENANCE OF LARGER EQUIPMENT.  
2. MANUFACTURER/SYSTEM SUPPLIER TO VERIFY LAYOUT AND BUILDING DIMENSIONS WILL ACCOMMODATE EQUIPMENT AND FACILITIES SHOWN AND REQUIRED. IF LARGER BUILDING REQUIRED, CONTRACTOR TO PROVIDE AT NO EXTRA COST.

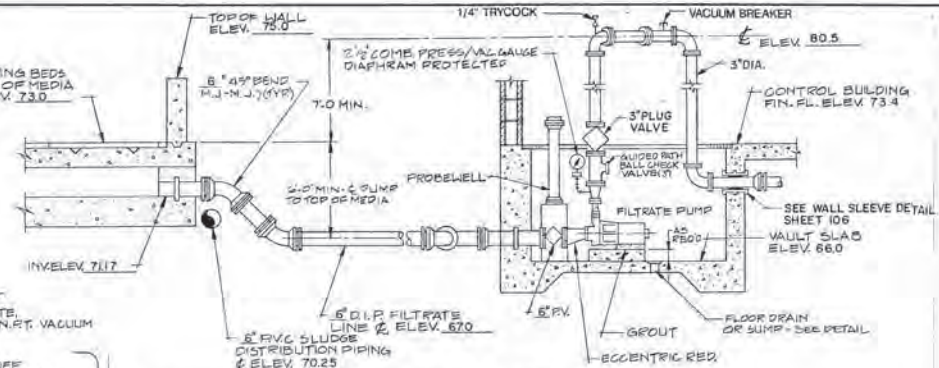


**PROBEWELL DETAIL**  
N.T.S.

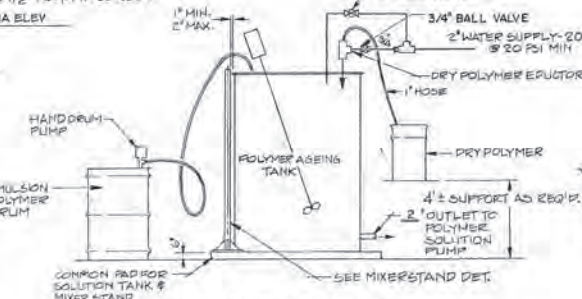
⚠ Clarification: Regarding the note on each of these drawings in reference to providing signed and sealed electrical and structural drawings: The Contractor, via the system supplier, shall submit as a submittal, signed and sealed drawings for the electrical and structural portions of the Vacuum Assisted Sludge Drying System. Reproducible copies of sheets 101 through 108 will be provided for this purpose.



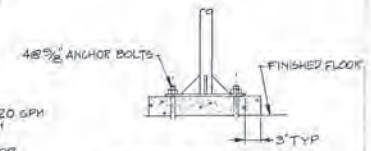
**SLUDGE BLENDER DETAIL**  
SCALE: 1/2" = 1'-0"



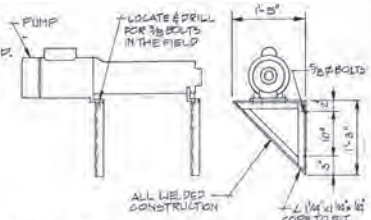
**FILTRATE PUMP DETAIL**  
SCALE: 1/2" = 1'-0"



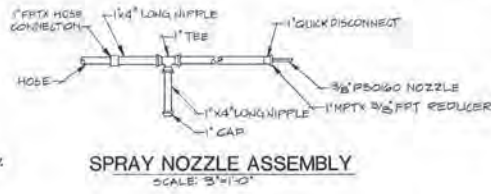
**NEAT POLYMER FEED EQUIPMENT ELEVATION**  
N.T.S.



**MIXER STAND DETAIL**  
N.T.S.

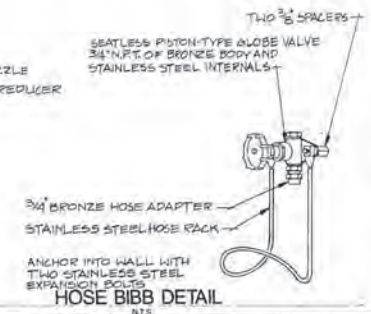


**BOOSTER PUMP WALL BRACKET**  
SCALE: 1" = 1'-0"



**SPRAY NOZZLE ASSEMBLY**  
SCALE: 3/4" = 1'-0"

This drawing provided by U.S. Environmental Products. It is provided to assist planners in determining the scope of work provided. Supplier of Vacuum Assisted Sludge Dewatering Facility shall submit final drawings in accordance with the contract documents. All structural and electrical drawings shall be signed and sealed by an appropriate engineer registered in the State of Florida.



**HOSE BIBB DETAIL**  
SCALE: 1" = 1'-0"

DATE	REV.	BY	APP.	REVISION
7-10-91	B.A.W.	G.E.H.	16848	ADDENDUM NO. 2

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**RECORD DRAWINGS**

History graphically indicates "Record Drawings" consist of all original drawings and all amendments thereto during the construction period. They are issued upon receipt of payment, drawings and other information furnished to the Engineer by the Contractor, and show the completed construction as well as the "As-Built" conditions.

FIELD ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
P. E. No. \_\_\_\_\_

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ENGINEERING • PLANNING  
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966 CANDLELIGHT BOULEVARD  
BROOKSVILLE, FLORIDA 34601  
TEL. (813) 798-8423 FAX (813) 798-8888  
FIRM NO. CEA FORM NO. MRS.1 REVISED 06/88

SOURCE: VACUUM ASSISTED SLUDGE DRYING AS SUPPLIED BY VACUUM ASSISTED SLUDGE DRYING SYSTEMS, INC.
---

**VACUUM ASSISTED DEWATERING BED GENERAL DETAILS**

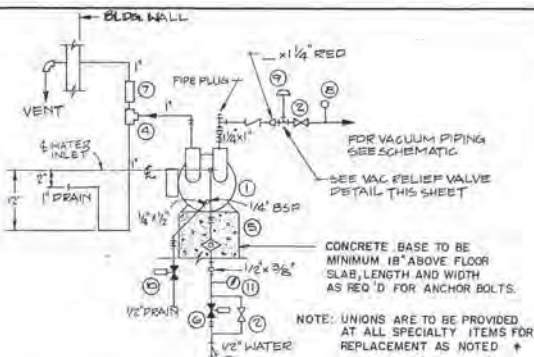
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

317

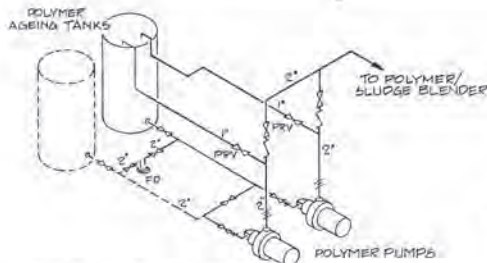
SH-SHEET  
**104**  
OF 108 SHEETS  
8977

**LEGEND**

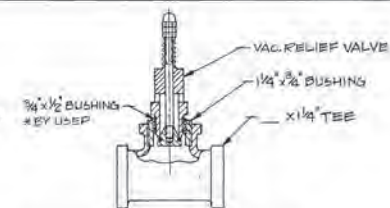
- ① LIQ. RING VAC. PUMP MODEL\*
- ② ISOLATION VALVE
- ③ 1/4" CHECK VALVE
- ④ 2" WATER/AIR SEPAR. TEE
- ⑤ 3/8" FLOW CONTROL ORIFICE
- ⑥ 1/2" N.O. SOLENOID VALVE
- ⑦ MUFFLER
- ⑧ VACUUM GAUGE
- ⑨ VACUUM RELIEF VALVE
- ⑩ 1/2" N.O. SOLENOID VALVE (I)
- ⑪ WATER PRESSURE GAUGE
- ⑫ 1/2" WYE STRAINER



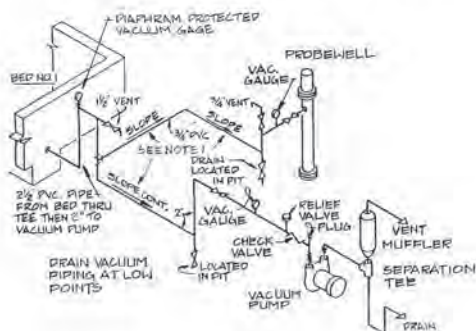
**VACUUM PUMP INSTALLATION SCHEMATIC**  
N.T.S.



**POLYMER PIPING SCHEMATIC**  
N.T.S.

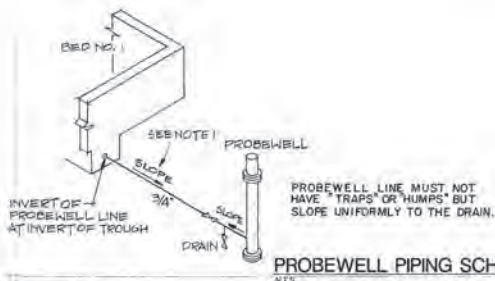


**VACUUM RELIEF VALVE DETAIL**  
N.T.S.

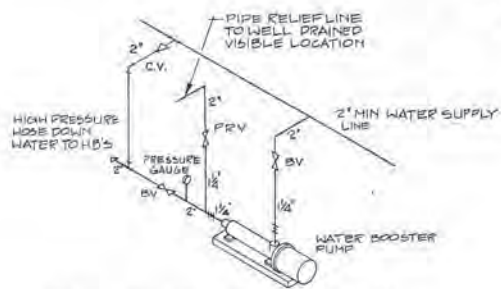


**VACUUM PIPING SCHEMATIC**  
N.T.S.

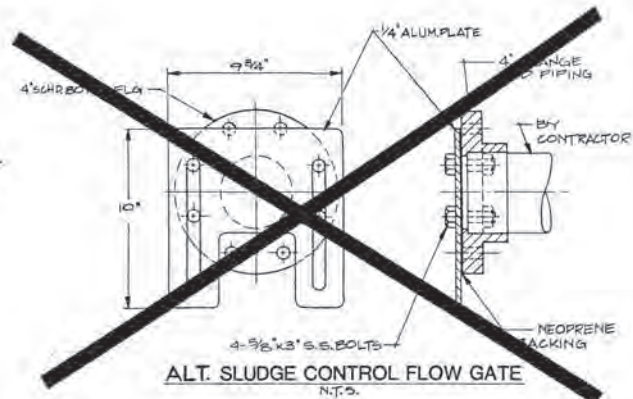
NOTE: PROBEWELL & VAC. LINES MUST SLOPE UPWARD TO VENTS OR DOWNWARD TO DRAINS AS SHOWN ON OUR DRAWINGS.



**PROBEWELL PIPING SCHEMATIC**  
N.T.S.



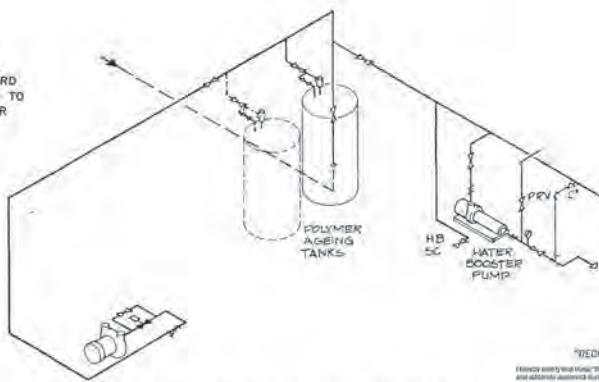
**WATER BOOSTER PUMP SCHEMATIC**  
N.T.S.



**ALT. SLUDGE CONTROL FLOW GATE**  
N.T.S.

Clarification: Regarding the note on each of these drawings in reference to providing signed and sealed electrical and structural drawings: The Contractor, via the system supplier, shall submit as a submittal, signed and sealed drawings for the electrical and structural portions of the Vacuum Assisted Sludge Drying System. Reproducible copies of sheets 101 through 106 will be provided for this purpose.

NOTE:  
1- ALL LINES LEADING TO PROBEWELL & VAC. PUMPS TO BE SLOPED CONTINUOUSLY TO DRAINOR HIGH POINT PER MFR'S INSTRUCTIONS. THEY SHALL BE A MIN. OF 2" WHERE BURIED & SHALL BE BEDDED IN STONE. A CARPENTER'S LEVEL SHALL BE USED TO ASSURE A CONTINUOUS GRADE.



**WATER SUPPLY SCHEMATIC**  
N.T.S.

This drawing provided by U.S. Environmental Products. It is provided to assist bidders in determining the scope of work involved. Supplier of Vacuum Assisted Sludge Dewatering Facility shall submit final drawings in accordance with the contract documents. All structural and electrical drawings shall be signed and sealed by an appropriate engineer registered in the State of Florida.

"RECORD DRAWINGS"  
These drawings and their "Record Drawings" shall be signed, sealed and otherwise approved during the construction process. They are based upon the data and drawings provided and other information furnished to the Engineer by the Contractor and shall be the responsibility of the Contractor.  
FIELD ENGINEER: \_\_\_\_\_  
P. E. No. \_\_\_\_\_

DATE	REV.	BY	FOR	REV.	REVISION
7-10-91	B.A.W.	G.E.H.	1994B	Δ	ADDENDUM NO. 2

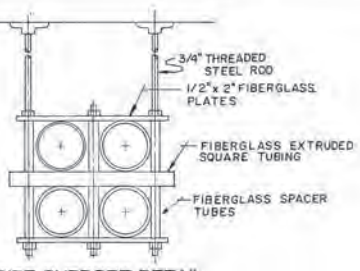
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TEL. (804) 768-8425 FAX (804) 768-8256  
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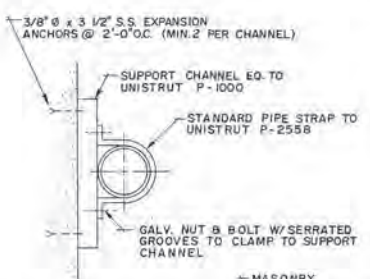
**VACUUM ASSISTED DEWATERING BED SCHEMATICS**

**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**

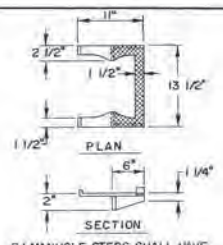
SHEET  
**105**  
OF 108 SHEETS  
8977



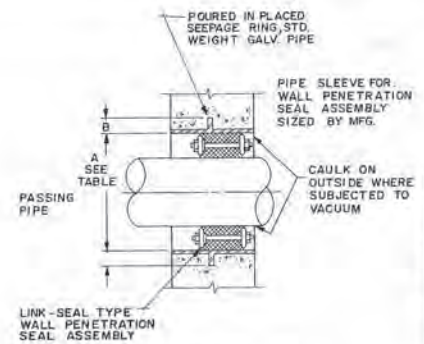
PIPE SUPPORT DETAIL



PIPE SUPPORT DETAIL  
N.T.S.

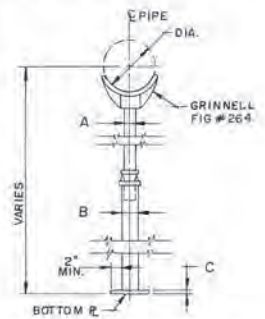


STD. M.H. STEPS  
N.T.S.



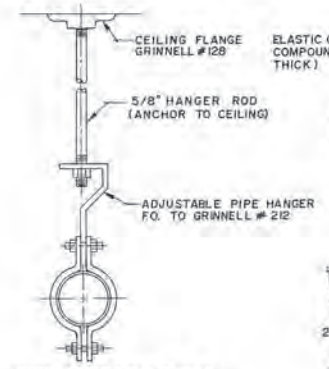
WALL SLEEVE DETAIL  
USE ON NON VACUUM AND ABOVE WATER LOCATION  
N.T.S.

PIPE SIZE	A	B
3/4"	2"	2"
1"	2 1/2"	2"
1 1/2"	4"	2"
2"	4"	2"
2 1/2"	4"	2"
3"	5"	2"
4"	6"	2 1/2"
6"	10"	2 1/2"
8"	12"	2 3/4"

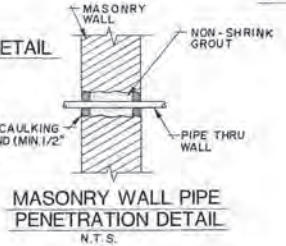


PIPE DIA.	A	B	C
2" - 3 1/2"	1 1/2"	2 1/2"	3/8"
4" - 12"	2 1/2"	3"	3/8"
14" - 16"	3"	4"	3/8"
18" - 20"	3 1/2"	6"	1/2"
24" - 36"	4"	6"	1/2"

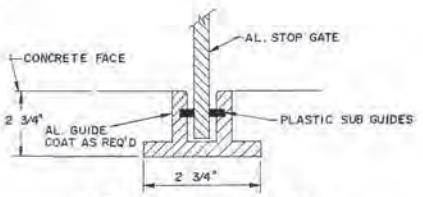
PIPE SUPPORT DETAIL  
N.T.S.



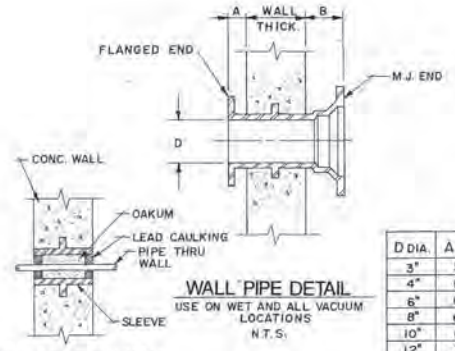
PIPE SUPPORT DETAIL  
N.T.S.



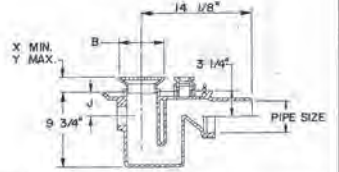
MASONRY WALL PIPE PENETRATION DETAIL  
N.T.S.



STOPGATE GUIDE DETAIL  
N.T.S.

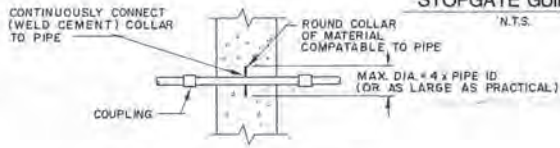


WALL PIPE DETAIL  
USE ON WET AND ALL VACUUM LOCATIONS  
N.T.S.

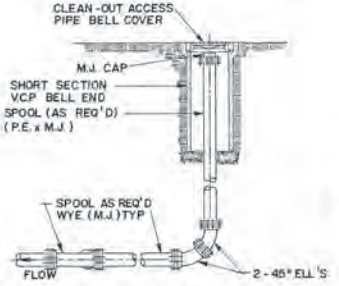


PIPE SIZE	B	J	X	Y
2"	5"	3"	1 3/8"	2 1/8"
3"	6"	3 1/2"	1 5/8"	2 3/8"
4"	7"	4 1/8"	1 5/8"	2 3/8"

FLOOR DRAIN DETAIL  
N.T.S.



WALL PENETRATION DETAIL  
USE AT ALL VACUUM LOCATIONS, PIPE LESS THAN 3" DIA.  
N.T.S.



PRESSURE PIPING CLEAN-OUT DETAIL  
N.T.S.

This drawing provided by U.S. Environmental Products. It is provided to assist bidders in determining the scope of work provided. Supplier of Vacuum Assisted Sludge Dewatering Facility shall submit final drawings in accordance with the contract documents. All structural and electrical drawings shall be signed and sealed by an appropriate engineer registered in the State of Florida.

Clarification: Regarding the notes on each of these drawings in reference to providing signed and sealed electrical and structural drawings: the Contractor, via the system supplier, shall submit as a submittal, signed and sealed drawings for the electrical and structural portions of the Vacuum Assisted Sludge Drying System. Reproducible copies of sheets 101 through 104 will be provided for this purpose.

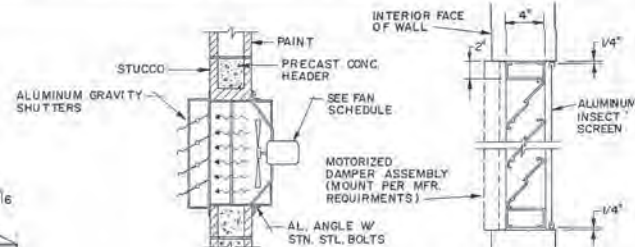
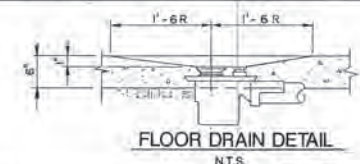
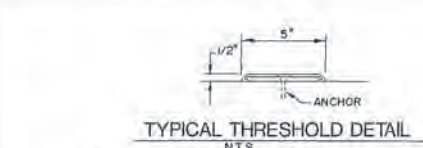
"RECORD DRAWINGS"  
I hereby certify that these "Record Drawings" reflect all approved changes and additions incorporated during the construction process. They are based upon the most recent drawings and other information furnished to the Engineer by the Contractor and show the work as executed to the best of my knowledge and belief.  
FIELD ENGINEER: \_\_\_\_\_ Date: \_\_\_\_\_  
P.E. No. \_\_\_\_\_

DATE	REV. BY	APP. BY	P.L. No.	REV. No.	REVISION
7-10-91	B.A.W.	G.E.H.	16948	1	ADDENDUM NO.2

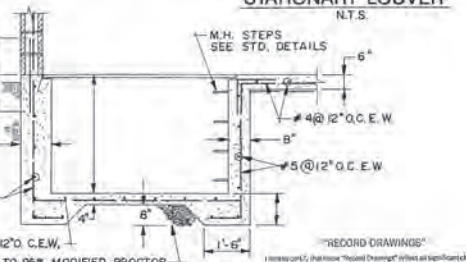
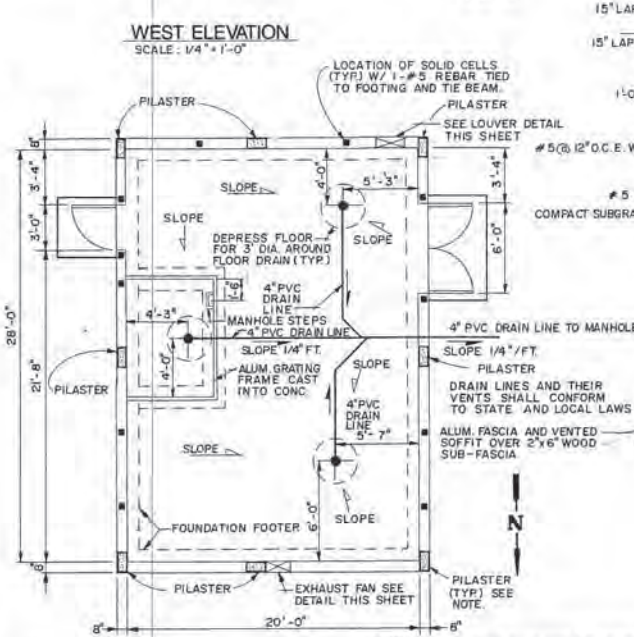
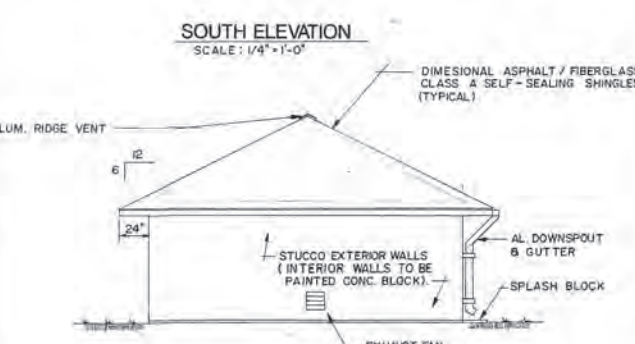
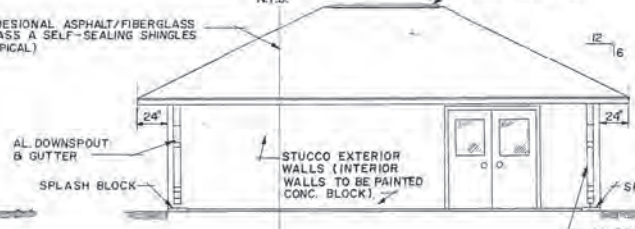
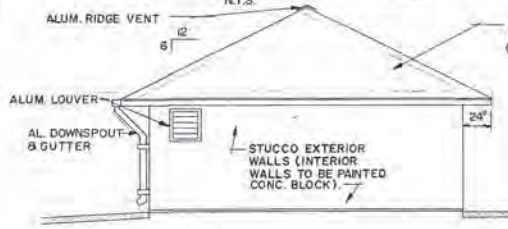
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TEL: (904) 798-8423 FAX: (904) 798-8339  
OWNER: F.C.A. DRAWN BY: M.R.U. CHECKED BY: G.E.H. DATE: 07/10/91

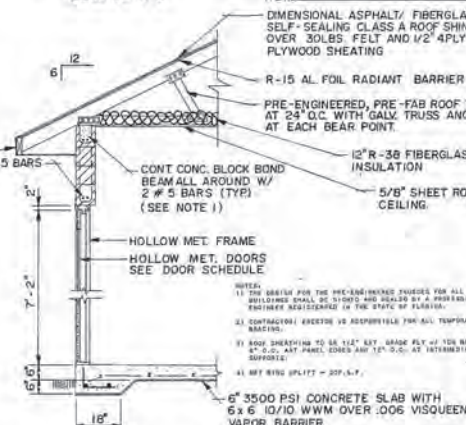
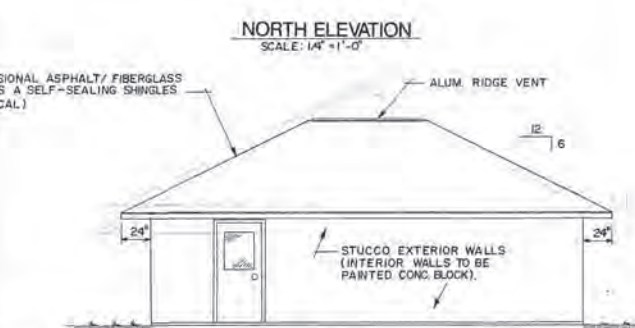
VACUUM ASSISTED DEWATERING BEDS  
GENERAL DETAILS  
RIDGE MANOR WEST SUBREGIONAL  
WASTEWATER TREATMENT PLANT  
SHEET  
**106**  
OF 108 SHEETS  
8977



FRAME SHALL BE 1/2" AND BLADES .031" THICK ANODIZED ALUMINUM SCREWED TOGETHER.  
NOTE: COVER SHALL BE 400'S EXTRACT ALUMINUM HELL FROM PAINTED TO MATCH BUILDING EXTERIOR WALL THICKNESS. WITH THIS SCREEN, LOUVER SHALL BE 20" WIDE BY 14" HIGH.  
STATIONARY LOUVER N.T.S.



RECORD DRAWINGS  
FIELD ENGINEER  
F. E. No.



NOTE: SOIL UNDER SLAB SHALL BE TERMITE PROTECTED PER HERNDON COUNTY ORDINANCE # 87-29, SECTION 17.03.1.2

Clarification: Regarding the note on each of these drawings in reference to providing signed and sealed electrical and structural drawings: the Contractor, via the system supplier, shall submit as a submittal, signed and sealed drawings for the electrical and structural portions of the Vacuum Assisted Sludge Drying System. Reproducible copies of sheets 101 through 103 will be provided for this purpose.

This drawing provided by U.S. Environmental Products, it is provided to assist engineer in determining the slope of each pipe, location, height of Vacuum Assisted Sludge Dewatering Facility shall include three drawings in accordance with the contract documents. All structural and electrical drawings shall be signed and sealed by an appropriate engineer registered in the State of Florida.

DATE	REV.	BY	APP.	REVISION
11-11-81	GEN	GEH	16948	ADDENDUM NO. 1
7-10-81	BLAW	GEH	16948	ADDENDUM NO. 2

EAST ELEVATION SCALE: 1/4" = 1'-0"

FLOOR PLAN SCALE: 1/4" = 1'-0"

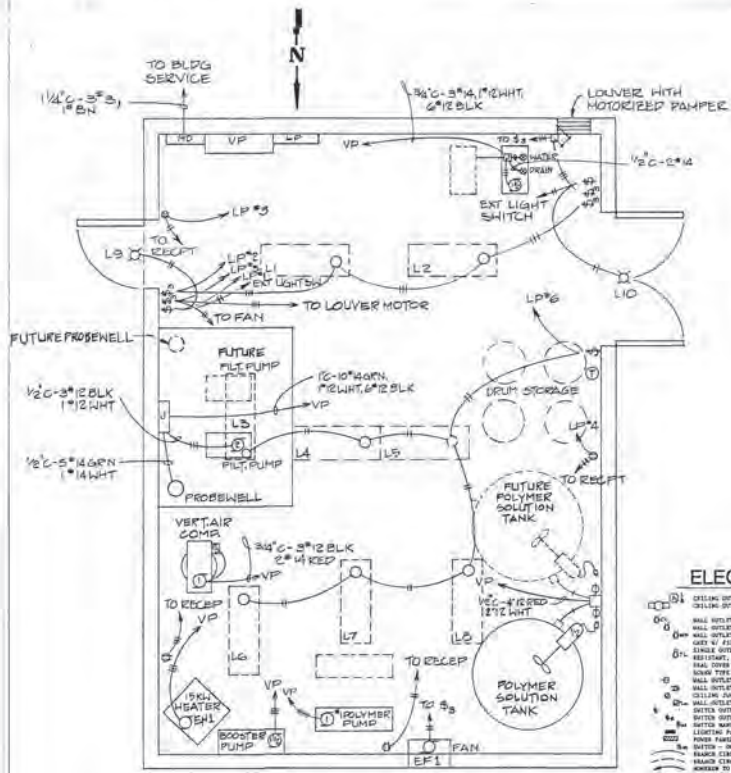
TYP WALL SECTION SCALE: 1/2" = 1'-0"

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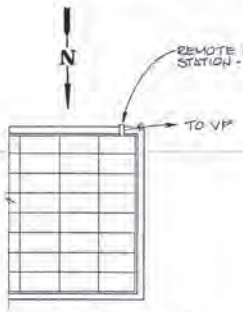


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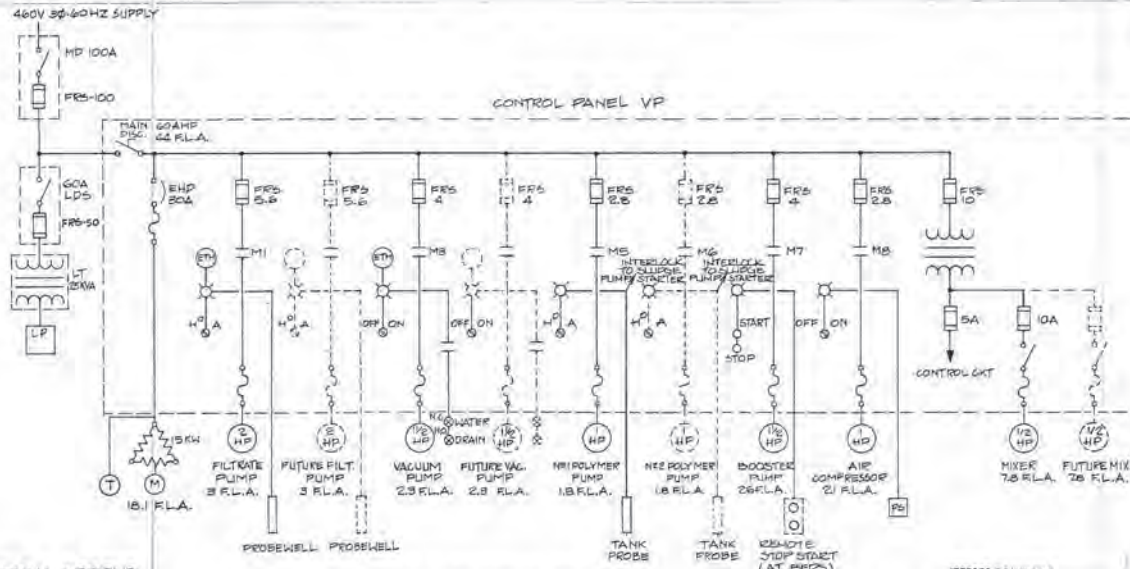
VACUUM ASSISTED DEWATERING BEDS CONTROL BUILDING ARCHITECTURAL	SHEET
RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT	107
	OF 108 SHEETS
	8977



**CONTROL BUILDING ELECTRICAL PLAN**  
SCALE: 3/8" = 1'-0"



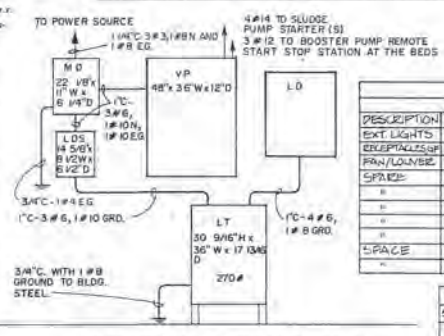
**VACUUM BED ELECTRICAL PLAN**  
N.T.S.



**ELECTRICAL LEGEND**

- 1. CALLING OUTLET - FUTURE VP, LAMP, SWITCH, MOTOR,...
- 2. WALL OUTLET - GROUND OUTLET, 120V, 15AMP, GROUNDING,...
- 3. WALL OUTLET - SINGLE OUTLET, 120V, 15AMP, GROUNDING,...
- 4. WALL OUTLET - DOUBLE OUTLET, 120V, 30AMP, GROUNDING,...
- 5. WALL OUTLET - TRIPLESS AND WITH PLUGGED CONNECTION TO EQUIPMENT,...
- 6. WALL OUTLET - 40 TRIP, SINGLE POLE, 120V, 15AMP, GROUNDING,...
- 7. WALL OUTLET - 40 TRIP, TRIPLE POLE, 120V, 15AMP, GROUNDING,...
- 8. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 9. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 10. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 11. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 12. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 13. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 14. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 15. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 16. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 17. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 18. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 19. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
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- 24. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 25. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
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- 30. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 31. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 32. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
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- 97. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 98. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 99. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...
- 100. WALL OUTLET WITH RECEPTACLE, 120V, 15AMP, GROUNDING,...

**ONE LINE ELECTRICAL SCHEMATIC**



**ELECTRICAL RISER DIAGRAM**

**LIGHTING PANEL**  
200Y/120V, 3Ø, 4 WIRE

DESCRIPTION	WATTS	POLES/AMPS/ET	A	B	C	LET	AMPS/POLES	WATTS	DESCRIPTION
EXT LIGHTS	300	1 20 1				2	20 1	320	INT LIGHTS
EXTRALIGHTS	290	1 20 3				4	20 1	250	EXTRALIGHTS
FRAN/LANSE	120	1 20 15				6	20 1	170	INT LIGHTS
SPARE		1 20 7				8	20 1		SPARE
		1 15 9				10	15 1		
		1 15 11				12	15 1		
		1 15 13				14	15 1		
		1 15 15				16	15 1		
SPACE		1 17				18			SPACE
		1 19				20			

**PARTS LIST**

SYMBOL	DESCRIPTION
VP	VACUUM CONTROL PANEL (SEE ELEC. SCHEMATIC)
MD	MAIN DISCONNECT, ITC #F-353, 100 AMP 600V, 3 POLE WITH BUSS FRS-100 FUSES
LDS	LIGHTING DISCONNECT SWITCH, ITC #F-352, 60AMP 600V, 3 POLE WITH BUSS FRS-50 FUSES
LT	LIGHTING TRANSFORMER, JEFFERSON #23-3164, 25KVA 480V PRIMARY, 200Y/120 SECONDARY, TYPE TFF, 6TAP, 2% (2 FCAN - 4 FCEN), 150°C R155
LP	LIGHTING PANEL, ITC #UBA20-143 WITH 60 AMP MAIN CIRCUIT BREAKER 20 POLE MAX 3PHASE, 4 WIRE 200Y/120VAC 3 #20/015, 1Ø, ONE POLE # 3 #20/020, 20A, ONE POLE BRANCH BREAKERS

**UNIT HEATER SCHEDULE**

DESIGNATION	DESCRIPTION	KW	VOLTS	AMPS	MOUNTING
EH-1	DAYTON HEAVY DUTY	15	480	18.1	HORIZ.

**LIGHT FIXTURE SCHEDULE**

DESIGNATION	DESCRIPTION	N/LAMPS	TYPE	MOUNTING
LI-LD	DAYTON LIGHT FIXTURE, HICAP, ROUND	4-40 W	F40	CEILING
LS-L10	DAYTON LIGHT FIXTURE, SUBCOMPACT, HICAP, HPI	1-150 W		HALL

**EXHAUST FAN SCHEDULE**

DESIGNATION	DESCRIPTION	CFM	WATTS	VOLTS	AMPS	MOUNTING
BF-1	SHAW-WORTH IZMA-2	580	200	120	1.7	HALL

INCLUDE .25" STATIC PRESSURE LOWER WITH BACKDRAFT DAMPER.

**NOTE:**  
WIRE SIZES, AMPS, ETC., ARE FOR HP AND VOLTAGE SHOWN AND ARE FOR ILLUSTRATION ONLY. FOR SPECIFIC PROJECTS REFER TO DETAILED ELECTRICAL DRAWINGS, NEG. STATE AND LOCAL CODES.

DATE	REV	BY	FOR	REV.	REVISION
7-10-98	1	BAW	GEH	16848	ADDENDUM NO.2

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**VACUUM ASSISTED DEWATERING BED ELECTRICAL**  
**RIDGE MANOR WEST SUBREGIONAL WASTEWATER TREATMENT PLANT**  
SHEET **108**  
OF 108 SHEETS  
8977



BOARD OF COUNTY COMMISSIONERS  
HERNANDO COUNTY

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Acknowledged

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for: Toni Brady  
Chief Procurement Officer,  
Hernando County

Issued: June 12, 2023



## PROCUREMENT DEPARTMENT

15470 FLIGHT PATH DRIVE ♦ BROOKSVILLE, FLORIDA 34604  
P 352.754.4020 ♦ F 352.754.4199 ♦ W www.HernandoCounty.us

### ADDENDUM NO. TWO (2)

TO  
THE CONTRACT DOCUMENTS  
FOR THE

**Capacity Expansion Ridge Manor Wastewater Reclamation Facility**

IN  
HERNANDO COUNTY, FLORIDA  
**SOLICITATION NO. 22-RG0128/AP**

**BID DUE DATE: July 3, 2023 10:00 am**

### NOTICE

BIDDERS ARE REQUIRED TO ACKNOWLEDGE RECEIPT OF  
THIS ADDENDUM BY SIGNATURE AT THE BOTTOM OF  
THIS ADDENDUM IN THE SPACES PROVIDED AND  
RETURNED AT THE TIME OF THE BID DATE.

TO ALL PLAN HOLDERS:

The following changes, additions and/or deletions are hereby made a part of the Contract Documents for the **Capacity Expansion Ridge Manor Wastewater Reclamation Facility**, located in Hernando County, as fully and completely as if the same were fully set forth therein:

#### A. CLARIFICATIONS

1. **Question:** *“Would the County consider allowing a document attachment upload for responses 11.1 – 11.7 vs the text box input? We believe pdf format would allow the respondents to provide an easier-to-read response than the text box response. Is there a character or word limit if the text box response is required?”*

**Answer:** Yes, a document attachment upload versus text input is acceptable. The solicitation is now set up to accept attachments in lieu of text box input.

2. **Question:** *“Would the County be willing to delete RFQ Section 9.2.1 in its entirety and substitute the language shown below? Jobsite safety normally—and rightly—is the primary responsibility of the site’s owner or general contractor, who has actual (physical) control of its employees, the equipment, and of the site, and is usually the overall coordinator of the work at the jobsite. The Consultant’s standard of care regarding site safety is limited to knowing the owner’s or contractor’s safety program and making sure the Consultant’s employees follow it, in addition to following the Consultant’s site safety plan. The Consultant does not supervise the work, cannot control jobsite activities, and has no authority to stop the work. Delegating site safety to the Consultant requires responsibility for something over which the Consultant has no control.*

*9.2.1 For Work that is to be performed on premises that are owned or controlled by the County, Consultant shall exercise precaution for its employees and the County’s property. The Consultant shall comply with all laws, rules, regulations or ordinances related to safety and health and shall take precautionary and prompt action where loss control/safety measures should reasonably be expected. The Consultant shall perform its services in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances.”*

**Answer:**

The Vendor Submissions portion of this solicitation now contains Section 13.1 “Proposer’s Certification” and section 13.2 “Exceptions” and shows a multiple-choice selection. You may select “exception” to add this information into Section 13.2. “Exceptions”.

3. **Question:** *“Would the County clarify the minimum limit for Professional Liability insurance?”*

**Answer:** For the design phase of this project, the Engineer and/or Architect must provide a minimum of \$1,000,000 of Professional Liability Insurance.

4. **Question:** *“Would the County consider deleting the requirement for completion of the “Trench Safety Act Compliance” form and the “Bid Bond Form” since they are not applicable to a professional services agreement?”*

**Answer:** Yes, completion of forms “Trench Safety Act Compliance” and “Bid Bond Form” are not required.

5. **Question:** *“Would the County consider the following change to this Section? Remove the requirement of “the Professional shall furnish acceptable field verified “record drawings” of full-size prints” and replace with the text below. Since the Professional is only providing periodic observation of the work, it will be impossible to provide record documents, particularly involving work which is covered at the time of observation. The proposed language reflects the standard of care normally required of design professionals. a) After the County’s acceptance of final plans and documents, a reproducible form of the Professional’s drawings, tracings, plans, and maps will be provided to the County. Upon completion of construction by the Contractor, the Professional shall compile for and deliver to the County a reproducible set of Record Documents conforming to the marked-up drawings, addenda, change orders, and other data furnished to the Professional by the Contractor or other third parties These Record Documents will show significant changes made during the construction process. Because these Record Drawings are based on unverified information provided by other parties, which the Professional is entitled to assume will be reliable, the Professional cannot warrant their accuracy. The Professional shall signify, by affixing an appropriate endorsement, on every sheet of the record sets, that the work shown on the endorsed sheets was reviewed by the Professional. With the tracings and the record sets of prints, the Professional shall submit three (3) final sets of operation and maintenance manuals.”*

**Answer:**

The Vendor Submissions portion of this solicitation now contains Section 13.1 “Proposer’s Certification” and section 13.2 “Exceptions” and shows a multiple-choice selection. You may select “exception” to add this information into Section 13.2. “Exceptions”.

6. **Question:** *“Section 31.6.6 asks for resumes of a Project Manager and Superintendent. Should any other resumes for key personnel be provided? If yes, should they be included in response 11.1 Project Team?”*

**Answer:** Section 31.6.6 is no longer required and is removed.

BOARD OF COUNTY COMMISSIONERS  
HERNANDO COUNTY

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Acknowledged

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for: Toni Brady  
Chief Procurement Officer,  
Hernando County

Issued: June 14, 2023