



American Samoa Power Authority

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REQUEST FOR PROPOSALS

ENVIRONMENTAL ASSESSMENT & PERMITTING SUPPORT SERVICES FOR AUNU'U DESALINATION PROJECT

PROJECT NO.	ASPA26.011
ISSUANCE DATE	November 3, 2025
CLOSING DATE	November 24, 2025
CLOSING TIME	2:00PM – AS Time

APPROVED FOR ISSUANCE BY:

WALLON YOUNG F.
ASPA EXECUTIVE DIRECTOR

"Work under this contract will be funded with federal grant funds from the American Rescue Plan Act"

PROPOSAL INVITATION

The American Samoa Power Authority is soliciting proposals from qualified firms to provide an environmental assessment and permitting support services for its Aunu'u Desalination Project.

Sealed bids will be accepted by Renee Leotele Togafau, ASPA Procurement Manager or its designee at the ASPA Procurement Office, Utu Abe Malae Operations Building, Tafuna, American Samoa until **2:00PM on Monday, November 24, 2025** (the "Closing"), at which time and place bidding will be closed. No bids will be received after the closing. Each bidder is required to submit cost proposals in a separately sealed envelope.

Plans, specifications, addenda and notifications of bid results for this project may be viewed, and printed online at www.aspower.com. Bidders are responsible for checking online for the issuance of any addenda prior to submitting a bid. Each contractor is responsible for all addenda/changes to the documents. A bid will be considered non-responsive if the bid does not reflect applicable addenda/changes.

If a bidder discovers any ambiguity, conflict, discrepancy, omission or other error in the RFP, the bidder shall notify ASPA immediately with written notice of the problem. If prior to closing date for submissions, a bidder knows or should have known of an error in the RFP but fails to notify ASPA of the error, the bidder shall at its own risk, and if awarded the contract, shall not be entitled to additional compensation or time by reason of the error or its later correction.

Technical questions regarding the project, or requests for clarification or change must be directed to Renee Leotele Togafau, procurement@aspower.com, with the subject line: **ASP26.011 – Environmental Assessment & Permitting Support Services for Aunu'u Desalination Project.**

The project is a public works project subject to the prevailing wage rates of the Fair Minimum Wage Act of 2007 (Public Law 110-28), the federal prevailing wage rates under the Davis Bacon Act. Current wage rates may be found at <https://www.dol.gov/sites/dolgov/files/WHd/legacy/files/ASminwagePoster.pdf>, and information on Davis Bacon and wage determinations can be found at <https://sam.gov/content/wage-determinations>.

ASPA may reject any bid not in compliance with all prescribed public bidding procedures and requirements, including, without limitation, the requirement to demonstrate the bidder's responsibility, and may reject for good cause any and all bids upon a finding that is in ASPA's best interest to do so.

No bid for this contract will be received or considered by ASPA unless:

1. The Bidder certifies that it will comply with the provisions of the Davis Bacon Act and American Samoa Prevailing Wage Rates (see Attachment K)
2. The Bidder certifies that it is not debarred, suspended, proposed for debarment, declared ineligible, or otherwise excluded from participating in receiving contracts paid for with federal funds.

GENERAL TERMS AND CONDITIONS

Bid documents are provided to bidder only for the purpose of obtaining bids on the work and do not confer a license or grant for any other use. Each bidder assumes full responsibility for errors, omissions or misinterpretations resulting from the use of incomplete sets of bid documents. Bidders shall use complete sets of bid documents in preparing bids.

The bid proposal documents include:

- Attachment A – Proposal Transmittal Form
- Attachment B – Bid Form
- Attachment C – Offeror's Qualification Form
- Attachment D – Disclosure Statements
- Attachment E – Non Collusion Affidavit of Prime Offeror
- Attachment F – Debarment or Suspension Certification Form
- Attachment G – Prevailing Wage Rate Compliance Statement
- Attachment H – Scope of Work

Bid Submission. The following minimum requirements as the form and manner of submitting bids must be strictly observed; variance from these requirements will result in rejection of the bid as unresponsive.

1. Bids must be submitted on forms furnished by ASPA.
2. Each bidder and/or its representative must sign its bid.
3. Bid security, in the required form and amount, must accompany each bid.
4. Each blank in the bid must be filled in unless an alternative is provided.
5. Each bid must be submitted in a separate sealed envelope, marked as specified
6. A bid shall contain no modifications, deletions, exceptions, reservations, and/or conditions, which in any way conflict with or purport to alter any provision in the bid documents.

Preparation of Bids. Bid form must be used without alteration. All blank spaces in the bid form must be filled in, in ink, or typed, in both words and figures where required. No changes shall be made in phraseology of the forms. Amounts shall be in US currency.

Bid Security. Not required for this tender.

Conditions of Work. Each bidder must inform themselves of the conditions relating to the execution of the work. The bidder acknowledges and represents that it has made allowances for normal inclement weather indigenous to the project site, in its estimating, planning and scheduling of work.

By submitting a bid, the bidder represents and warrants that the (a) the bidder has compared the site with the bid documents and has satisfied themselves as to the actual conditions of the site, existing construction, subsurface conditions, the actual elevations, and any other conditions affecting the carrying out of their work, and (b) the bid is based upon the materials, systems, and equipment required by the bidding documents without exception.

Contract and Payment Terms. The term for this contract is not to exceed **3 months**. Bidders may propose a timeline according to the SOW. The contract term shall be initiated by the issuance of a Notice to Proceed by ASPA at which time a contract completion date will be established. ASPA will retain the sole option to renew or extend the contract after its initial term.

Successful bidder shall agree to have ASPA **retain 5% of the contract amount**, which will be retained by ASPA from each monthly invoice/pay application submitted by the contractor for the approval of payment, for a period of 30 days after the successful completion of the project.

Type of Contract. The successful bidder will provide services to ASPA under a firm fixed-price, itemized contract agreement. The successful bidder shall be an independent contractor and not an agent or employee of the American Samoa Power Authority.

The contractor (successful bidder) shall at all times comply with all applicable workman's compensation, occupational disease, occupational health & safety laws, statutes, and regulations to the full extent applicable. ASPA will not be held responsible in any way for claims filed by the successful bidder or its employees for services employed under the terms of this RFP or the contract.

ASPA's Option to Award. While ASPA has every intention to award a contract resulting from this RFP, issuance of the RFP in no way constitutes a commitment by ASPA to award and execute a contract. Upon a determination such actions would be in its best interest, ASPA, in its sole discretion, reserves the right to:

- Cancel or terminate this RFP;
- Reject any or all proposal received in response to this RFP;
- Meet and/or correspond with individual vendors at any time to gather additional information;
- Not award a contract, if it is in ASPA's best interest not to proceed with contract execution;
- If awarded, terminate any contract if ASPA determines adequate funds are not available
- Award certain portions of a proposal

Business License. Bidders must be appropriately licensed in accordance with the state and/or country of the bidder's origin, and shall be skilled and regularly engaged in the general type and size of work called for under this RFP.

Insurance. The successful bidder shall be required to obtain the insurance coverage designated herein and pay all costs associated herewith. Such insurance shall be for the coverage, amounts and limits as set forth below. Successful bidder shall furnish ASPA with certificates of insurance showing the type, amount, class of operations covered, effective dates and date of expiration of policies. The insurance shall be maintained for the full period of the Agreement.

In the case of a breach of any provision of this section, ASPA, at its option, may take out and maintain, at the expense of the Contractor, such insurance as ASPA may deem proper and may charge the Contractor with such amounts due. Nothing contained in these insurance

requirements is to be construed as limiting the extent of the Contractor's responsibility for payment of damages resulting from its operation under the Agreement.

During the term of the Agreement, the contractor shall maintain such public liability and property damage insurance, and automobile public liability and property damage insurance that shall protect the Contractor from claims for damages for personal injury, including accidental death, as well as from claims for direct property damage, which may arise from negligent operations under the Agreement, whether such operations are by itself or by a subcontractor or by anyone directly or indirectly employed by either of them. The amounts of such shall be as follows:

- Workmen's Compensation. The contractor shall maintain such statutory amounts of workmen's compensation insurance as are set forth in the American Samoa Code Annotated and American Samoa Administrative Code.
- Employer's Liability. The contractor shall maintain employer liability insurance in the amount of Two Million Dollars (\$2,000,000 USD).
- Public General Liability. Public/General liability shall include coverage for wrongful death claims, and shall not exclude coverage for explosion, collapse, or underground exposure. Contractor shall maintain public/general liability insurance covering third party bodily/personal injury in the amount of Five Hundred Thousand Dollars (\$500,000 USD) per person/per occurrence with an aggregate of One Million Dollars (\$1,000,000 USD). Contractor shall maintain public/general liability insurance covering property damage in the amount of Five Hundred Thousand Dollars (\$500,000 USD) per person/per occurrence or coverage that is equivalent as currently available.
- Automobile Liability. Bodily/personal injury – Contractor shall maintain automobile liability insurance covering third party bodily/personal injury in the amount of Five Hundred Thousand Dollars (\$500,000 USD) per person/per occurrence with an aggregate of One Million Dollars (\$1,000,000 USD). Property damage – the Contractor shall maintain automobile liability insurance covering third party bodily/personal injury in the amount of Five Hundred Thousand Dollars (\$500,000 USD) per person/per occurrence with an aggregate of One Million Dollars (\$1,000,000 USD).
- Builder's Risk Insurance. Unless otherwise modified, Contractor shall secure and maintain during the life of the Agreement, builder's risk insurance coverage for one hundred percent (100%) of the Agreement amount. Such insurance shall include coverage for earthquake, landslide, flood, windstorm, collapse or loss due to results of faulty workmanship, and shall provide for losses to be paid to the Contractor and ASPA as their interests may appear.

Equipment and Project Warranty and Maintenance Requirements. All bids should include the cost of a one-year equipment and workmanship warranty, or length of warranty specified in the project specifications. Warranties shall include the cost of all parts, labor, equipment, shipping and onsite visits to repair or replace any deficient equipment, material, or workmanship and include, at a minimum at least one site visit by the contractor within one year of substantial completion ordered at ASPA's sole discretion.

Time Is Of the Essence. Time is of the essence in completing the work to be performed under the contract. Delays and extensions of time will not be allowed, and a penalty fee of \$1,000 per

calendar day shall be assessed for not meeting any of the milestones agreed upon between ASPA project engineer and the contractor based on the project schedule and shall consist of (at a minimum) pre-construction submittals, equipment shipping, construction of major projects components, commissioning and final training and start up services.

Incurred Costs. Those submitting proposals do so entirely at their own expense. There is no expressed or implied obligation by ASPA to reimburse any individual or firm for any costs incurred in preparing or submitting proposals, for providing additional information when requested by ASPA or for participating in any selection demonstration or interviews, including contract negotiation.

Multiple Proposals – Collusion. If more than one proposal is submitted by any one party or in the name of its clerk, partner or other person, all Proposals submitted by said party may be rejected by ASPA. If requested by ASPA to do so, an Offeror may submit an alternate proposal.

If ASPA believes that collusion exists amongst any Offerors, the participants in such collusion will be disqualified from contract award consideration.

Proposals in which the proposed costs and fees are unreasonably high, or unrealistically low may be rejected at ASPA's sole discretion.

BASIS FOR SELECTION

Source Evaluation Board. Proposals will be reviewed by a Source Evaluation Board (SEB) and scored against the stated criteria. The SEB may review references, request interviews/presentation, etc...These discussions shall only be conducted for the purpose of obtaining clarification from the bidder on its proposal, and do not in any way commit ASPA to a contract. Discussions shall be conducted individually with each bidder and care shall be exercised to ensure that no information derived from competing bidders' proposal is disclosed.

Bidders may be afforded an opportunity to revise their proposals in response to specific clarifications based on discussions. Unless the Procurement Manager determines that satisfactory evidence exists that a "mistake" has been made as set forth in Procurement Rules §3-114, bidders will not be permitted to revise their proposals after proposal opening.

Evaluation Criteria. The following criteria shall be used by the SEB to determine the responsiveness of proposals received. It shall be at the SEB's discretion to reject any and all proposals which do not meet the minimum technical (non-priced) criteria.

CATEGORY	DESCRIPTION	POINTS
Price		40
TECHNICAL APPROACH		
Proposal Clarity/Overview	The proposal shall include a description of the Offeror's understanding of the Project. The Proposal shall include a statement acknowledging the Scope of Work. To demonstrate an understanding of the SOW,	

	the Offeror shall develop an outline description of project deliverables and include it as an appendix to the Proposal. At a minimum, this should include a description of proposed technical design, technical memoranda, report deliverables, and preliminary list of drawings.	5
Project Approach	The Proposal shall provide a detailed description of the proposed approach to the Project as described above. The description shall include details to implement the tasks described in the Scope of Work. The Offeror is encouraged to provide comments and enhancements to the scope provided in the RFP. The Proposal shall include a discussion regarding the Project's technical issues and the Offeror's approach to handling these issues. Emphasis should be placed on how the Offeror's technical approach will promote the Project's success.	5
Management Approach	The Proposal shall include a discussion regarding the Offeror's management approach, including coordination and monitoring of project schedule, cost, risk, scope, communications, quality, resources, and other management issues that the Offeror feels should be addressed. The Offeror's approach to quality control shall be clearly described in this section as well.	5
Staff Qualifications	The company must have a registered driller in the United States. The Offeror must possess the necessary expertise and with 20years experience in well drilling. The driller must be familiar with drilling through volcanic formations and mitigate issues when circulation is lost due to lava tubes and subsurface fractures, this must be demonstrated in the proposal.	10
Related Project Experience	The Proposal shall include profiles of similar projects that the firm(s) and proposed team members have completed the last ten (10) years including project name, date, description and capacity of project, location, construction cost, and client reference including phone number. Do not include unrelated past projects.	15
Project Schedule/Work Plan	The Offeror shall prepare a schedule conforming to the Project Specifications with no exceptions, showing all major project tasks, milestones, and deliverables required to complete all work and must work with the ASPA Project Engineer when awarded to organize tasks according to schedule.	10
[ASPA] Past Project Performance	Refer to Contractor's Evaluation Rating (from Project Engineer) or Vendor's Recommendation (from	10

	Engineers that have worked with this Vendor) - related past project only. (Should also include past history of completing projects on time and within budget)	
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COMPLIANCE WITH FEDERAL REGULATIONS

The Work will be funded by one or more federal agencies. As such, all bidders must agree to comply with applicable federal laws and regulations, including, but not limited to (i) Executive Order 11246 of September 24, 1965, entitled "Equal Employment Opportunity," as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor Regulations (41 CFR chapter 60); (ii) the Copeland "Anti-Kickback" Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR part 3); (iii) the Davis-Bacon Act (40 U.S.C. 276a to 276a-7) as supplemented by Department of Labor regulations (29 CFR part 5); (iv) Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330) as supplemented by Department of Labor regulations (29 CFR part 5); and (v) applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency Regulations (40 CFR part 15).

Use of Small and Minority Firms, Women's Business Enterprise & Labor Surplus Area Firms. All bidders must commit to taking affirmative steps to assure that minority firms, women's business enterprises, and labor surplus area firm are used when possible. Affirmative steps include:

- Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
- Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority business, and women's business enterprises;
- Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority business, and women's business enterprises; and
- Using the services and assistance of the Small Business Administration, and the Minority Business Development Agency of the Department of Commerce.

Bidders shall make itself thoroughly familiar with all the contract documents prior to execution of the Agreement. Each Offeror shall inform itself of, and the Offeror awarded the Contract shall comply with, federal and territorial statutes and ordinances relative to the execution of the work, including but not limited to, applicable regulations which concern the following:

1. Wage rates;
2. Non-discrimination in the employment of labor;
3. Protection of public and employee safety and health;
4. Environmental protection;
5. Historic preservation;
6. Protection of natural resources;

7. Fire protection;
8. Burning and non-burning requirements;
9. Permits and fees;
10. Similar subjects.

The Offeror agrees to a proposal by the requirements under Executive Order No. 11246, as amended, including specifically the provisions of the equal opportunity clause.

ATTACHMENT A – PROPOSAL TRANSMITTAL FORM

Date:

AMERICAN SAMOA POWER AUTHORITY

To Whom It May Concern:

The undersigned (hereafter referred to as the Offeror) hereby proposes and agrees to furnish all of the requested submittal and proposal information pertaining to

RFP NO. ASPA26.011

ENVIRONMENTAL ASSESSMENT & PERMITTING SUPPORT SERVICES FOR AUNU’U DESALINATION PROJECT

In accordance with the Scope of Work, General Terms and Conditions, and other procurement requirements specified in this document for the prices stated in the itemized proposal form(s) attached hereto, plus any and all sums to be added and/or deducted resulting from all extra and/or omitted work in accordance with the unit and/or lump sum prices stated in the itemized proposal form attached hereto.

The undersigned has read and understands the proposal requirements, and is familiar with and knowledgeable of the local conditions at location(s) where the work is to be performed. The Offeror has read the Request for Proposal Instructions and General Terms and Conditions attached to ascertain that all of the requirements (see check boxes) of the cost proposal are submitted in the proposal envelope, with five copies, at the date and time for proposal opening. (See the RFP Submission Checklist to ensure that all these documents have been submitted with your proposal).

Signed Seal

Date

ATTACHMENT B – BID FORM

TO: American Samoa Power Authority, Attn: Procurement Manager.
 TITLE: **Environmental Assessment & Permitting Support Services for Aunu'u Desalination Project**
 RFP#: ASPA26.011
 BIDDER: _____

DATE: _____, 2025

Scope of Services (to be read in conjunction with the Scope of Work)

1. Environmental assessment (EA) preparation
2. PNRS, AS-EPA, NEPA, ESA, NHPA regulatory coordination
3. NPDES/UIC permit preparation and submission
4. Environmental data compilation and analysis
5. Public and stakeholder engagement
6. Deliverables as detailed in the scope of work (SOW)

#	DESCRIPTION	Labor Hours	Rate	Total
1	Baseline Environmental Assessment			
2	Impact Assessment & Analysis			
3	Alternatives & Mitigation Measures			
4	Stakeholder & Agency Consultation			
5	Documentation & Deliverables			
6	Schedule & Reporting			
TOTAL				

IN WITNESS THEREOF, the undersigned has caused this instrument to be executed by its duly authorized officers on this day of _____, 2025

BIDDER:

By: _____

Name: _____

Title: _____

ATTACHMENT C – OFFEROR’S QUALIFICATION FORM

1. NAME OF ORGANIZATION	
2. BUSINESS ADDRESS	
3. TELEPHONE	
-EMAIL ADDRESS	
-FAX NUMBER	
-TAX IDENTIFICATION NUMBER	
4. PRIMARY & SECONDARY CONTACT PERSON	
5. TYPE OF BUSINESS (Please check one)	<div>Corporation Partnership</div> <div>Proprietorship Joint Venture</div>
<i>Note: For Corporations – Articles of Incorporation Certification must be on record with the Treasurer of American Sāmoa. Copies of partnership agreements and articles of incorporation must be submitted to the revenue branch with application form and relevant documents. Aliens cannot operate sole ownership enterprises and partnerships with aliens are subject to immigration board review.</i>	
6. PLACE OF ORGANIZATION OR STATE OF INCORPORATION	
7. OWNER’S NAMES & ADDRESSES (IF NOT A CORPORATION)	

8. FOR CORPORATIONS: Names & Addresses of Directors, Officers, and Stockholders with 20% or greater interest in the company	
9. US STATES & TERRITORIES WHERE COMPANY IS REGISTERED AS A FOREIGN CORPORATION	
10. List all projects of similar scope and extent to which the Offeror has conducted within the past five-years; provide the dollar value contract amount for each project. And list project owner contact information for reference inquiries.	
-Location and Date of Project	
-Nature and Scope of Contract (provide brief description)	
-Name and Address of awarding agency or owner for which work was performed	
-Name, Address and Phone Number of contact Person for the agency	
-Contract Amount	
-Start and End Date	
-Date of Completion	

-Was project completed within schedule and Budget? If not, why?	
-If project was not completed, please explain Why	
-Was contract performed under joint venture, if so, with whom and under what arrangement?	
11. List the names of supervisory personnel to be employed on the work under this contract, including the qualifications and experience record for each. Personnel resumes may be included with the Offeror's proposal submittal.	
-Name / Position	
-Qualifications/Experience	
12. List the names and addresses of at least three (3) references from agencies with projects of similar Nature. Each reference shall contain: (1) Client name and contact information; (2) project description; and (3) role of key project team members. Only references of the prime offeror shall be considered, or references from project teams that have completed at least three (3) projects together.	
Reference # 1	
Reference # 2	
Reference # 3	

ATTACHMENT D – DISCLOSURE STATEMENTS

This form must be completed by all offerors and submitted with the proposal.

I _____, (Name of owner or partner-
all partners must complete a form)

of _____ the Offeror, that has submitted the attached
(Name of Company)

proposal:

(Complete one of the two following statements)

1. I **have no** immediate relatives (parents, children or siblings) who are currently employed by the American Samoa Power Authority (ASPA) or the American Samoa Government (ASG)

(Signed)

(Title)

2. I **have** immediate relatives (parents, children or siblings) who are currently employed by ASPA or the ASG.

Their names and positions in are as follows.

Name	Relationship to Offeror	Position in ASPA
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

(Signed)

(Title)

Note: It is not against ASPA procurement rules for the relatives of government employees to bid on and receive government contracts provided they disclose such relationships at the time of bidding.

ATTACHMENT E – NON-COLLUSION AFFIDAVIT OF PRIME OFFEROR

I, _____, being first duly sworn
deposes and says that:

1. He/She is _____
(Owner, Partner, Representative or Agent)
of _____ (Company Name
of Offeror that has submitted the attached
bid.
2. He is fully informed regarding the preparation and contents of the attached bid and of all
pertinent circumstances regarding such bid.
3. Such bid is genuine and is not a collusive or false
bid.
4. Neither the said Offeror nor any of its officers, partners, owner, agents, representatives,
employees or parties in interest, including this affiant, has in any way colluded, conspired,
connived or agreed, directly or indirectly with any other Offeror, firm or person to submit a
collusive or false bid in connection with the Contract for which the attached bid has been
submitted or to refrain from bidding in connection with such Contract, or has in any manner,
directly or indirectly, sought by agreement or collusion or communication or conference with any
other Offeror, or to secure through any collusion, conspiracy, connivance or unlawful agreement
any advantage against American Samoa Power Authority or any person interested in the proposed
Contract; and
5. The price or prices quoted in the attached bid are fair and proper, and are not tainted by any
collusion, conspiracy, connivance or unlawful agreement on the part of the Offeror or any of its
agent's representatives, owners, employees, or parties in interest, including this affiant.

(Signed)

(Title)

Subscribed and sworn to before me this ____ day of _____, 20__

(Signed)

(Title

)

My Commission expires _____, 20__

ATTACHMENT F – PREVAILING WAGE RATE COMPLIANCE STATEMENT

Contracts may be subject to both the Fair Minimum Wage Act of 2007 (Public Law 110-28), the federal prevailing wage rates under the Davis Bacon Act. Contractor is responsible for adhering to the local Territorial and Federal wage payment requirements.

The Bidder certifies that the provisions of the Fair Minimum Wage Act of 2007 (Public Law 110-28) and the Federal Davis-Bacon Act will be complied with throughout the duration of
**ENVIRONMENTAL ASSESSMENT & PERMITTING SUPPORT SERVICES FOR 2MGD FAGAALU
DESALINATION PROJECT**

Company Name _____

Signature _____

Title _____

Date _____

(Enclosures – General Decision Number AS20240001, January 5, 2024; Fair Minimum Wage Act of 2007- FLSA American Samoa)

ATTACHMENT G – DEBARMENT OR SUSPENSION CERTIFICATION FORM

By submitting this offer and signing this certificate, the bidder certifies that company and principals:

1. Are not presently debarred, suspended, proposed for disbarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency
2. Have not, within a three-year period, preceding this bid has been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or Local) transaction of contract under a public transaction, violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
3. Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or Local) with commission of any of the offenses enumerated in paragraph (2) of this certification;
4. Have not, within a three-year period, preceding this bid had one or more public transactions (Federal, State or Local) terminated for cause or default; and
5. Are not presently listed on the Federal Government Terrorism Watch List as described in Executive Order 13224.

The inability of a bidder to provide the certification required will not necessarily result in denial of participation in this covered transaction. The bidder shall submit an explanation of why it cannot provide the certification. The certification or explanation will be considered in connection with ASPA's determination whether to enter into this transaction. However, failure of the bidder to furnish a certification or an explanation shall be reason for disqualification from participation in this transaction. The bidder shall provide immediate written notice to ASPA if at any time the bidder learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstance.

Bidder's Name:			
Bidder's Address:			
Bidder's Telephone & Email Address:			
Authorized Company Official's Name (Printed:			
Signature of Company Official:			
EIN:		DUNS #:	

Environmental Assessment (EA) Services – Aunu'u Desalination 62 Gpm Output Project

1. PROJECT BACKGROUND:

The American Samoa Power Authority (ASPA) is initiating the Aunu'u Desalination Project to provide a sustainable and reliable potable water source for the island community of Aunu'u. The existing Public Water System (PWS) relies on aging dug wells that have been compromised by chloride intrusion, fecal contamination, and repeated king tide impacts, leading to unsafe water quality and supply interruptions.

To address these challenges, ASPA plans to construct a seawater desalination facility utilizing a beach well- a shallow coastal intake system located near the shoreline that draws seawater through natural subsurface filtration before it enters the desalination plant. Brine disposal will be managed through underground injection into unused wells designated for concentrate disposal. This long-term solution will ensure compliance with drinking water standards and enhance the system's resilience against environmental and climatic factors.

The project is funded through the American Rescue Plan Act (ARPA) and has been presented to the Project Notification and Review System (PNRS) Board, which has requested completion of an Environmental Assessment (EA) as part of the permitting process. The EA will identify, evaluate, and mitigate potential environmental and social impacts associated with the construction and operation of the desalination system.

2. SCOPE OF WORK:

The Consultant shall prepare a comprehensive Environmental Assessment (EA) in accordance with applicable local and federal environmental regulations and ASPA's design objectives. The EA shall support PNRS and AS-EPA permitting and include the following major tasks:

1. Baseline Environmental Assessment

- Conduct field investigations and literature review to document existing environmental conditions of Aunu'u, including geology, hydrogeology, marine ecology, terrestrial resources, and land use.
- Characterize baseline groundwater and coastal water quality, vegetation, wildlife, and cultural or archaeological resources in the project area.

2. Impact Assessment and Analysis

- Evaluate potential environmental impacts resulting from desalination operations, including brine discharge, underground injection, and energy consumption.
- Assess potential effects on land-based activities, including taro farms, plantations, and freshwater resources.
- Analyze potential offshore or near shore brine plume dispersion and its implications for marine ecosystems.
- Identify potential noise, air quality, and construction-related disturbances.

- Evaluate potential socio-economic and cultural impacts on the Aunu'u community.

3. Alternatives and Mitigation Measures

- Develop and evaluate reasonable alternatives to the proposed design and operation approach.
- Propose avoidance, minimization, and mitigation strategies to reduce identified adverse effects.
- Recommend environmental management and monitoring measures for both construction and operation phases.

4. Stakeholder and Agency Consultation

- Support ASPA in coordinating with AS-EPA, PNRS Board, and relevant territorial and federal agencies.
- Facilitate stakeholder engagement with local residents, landowners, and community representatives to gather input and incorporate feedback into the EA process.

5. Documentation and Deliverables

- Prepare a Draft Environmental Assessment Report including all findings, analysis, maps, and appendices.
- Incorporate stakeholder and regulatory comments into the Final Environmental Assessment Report.
- Provide digital and hard copies of the final deliverables suitable for submission to the AS-EPA and PNRS Board.

6. Schedule and Reporting

- The consultant shall submit a proposed work schedule and milestones, identifying data collection, draft review, public consultation, and final submission timelines.
- Regular progress updates shall be submitted to the ASPA project team throughout the assessment period.

3. PROPOSAL SUBMISSION REQUIREMENTS:

Interested and qualified firms are invited to submit proposals including:

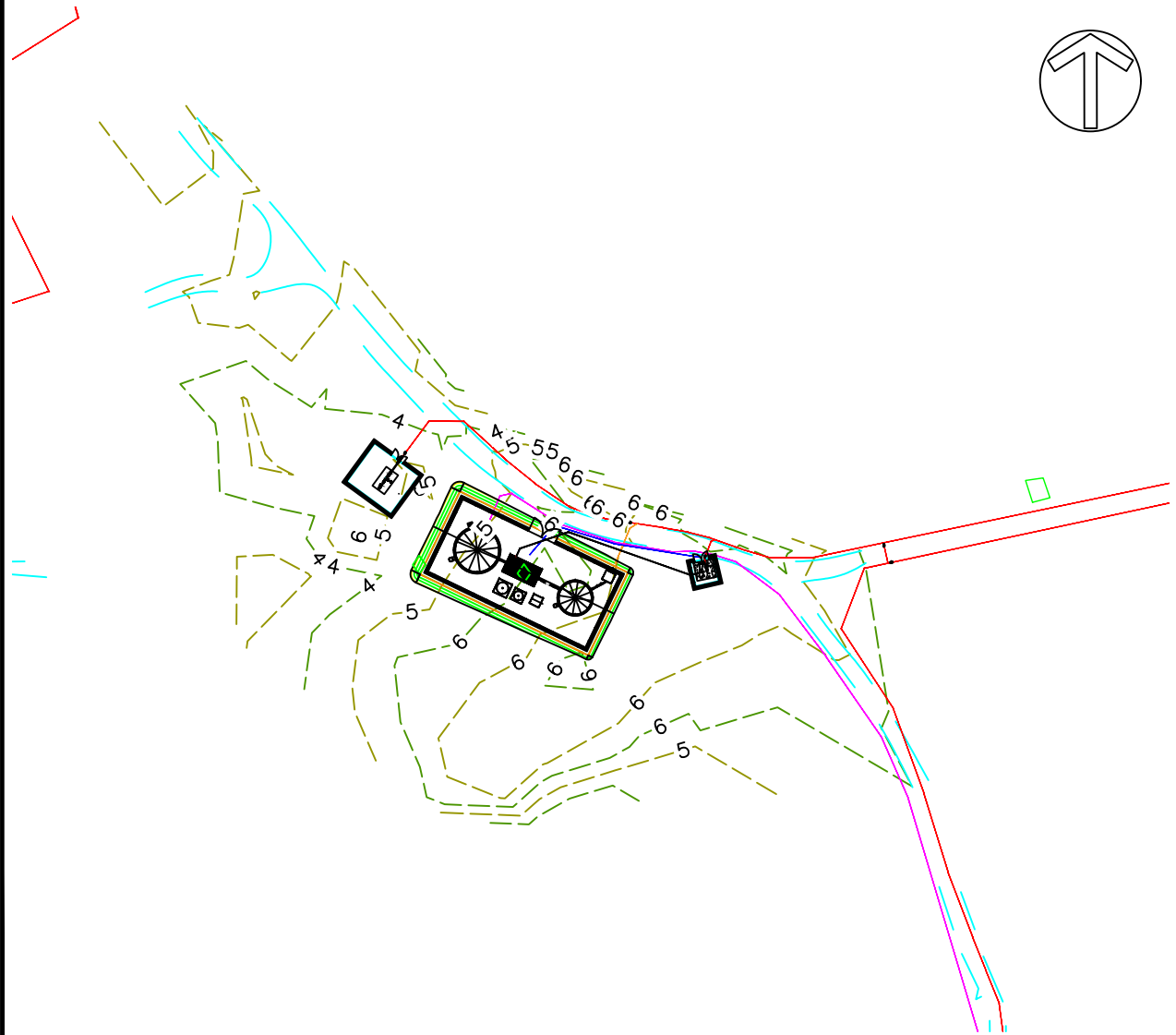
- Proposed methodology and scope of services
- Team qualifications and relevant project experience
- Project schedule and deliverables timeline
- Detailed cost proposal

4. PROJECT DEADLINE:

Time is of the essence due to ARPA funding requirements, and all Environmental Assessment (EA) work must be completed early enough to allow permitting, procurement, and construction to be completed before the ARPA deadline of July 2026. To ensure construction starts on time

and is finished by this deadline, the EA shall be completed within a maximum of three (3) months from the date of Notice to Proceed (NTP).

AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT




DRAWING INDEX		DRAWING INDEX	
SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
T1	PROJECT TITLE, TABLE OF CONTENTS	-	-
G1	LEGEND ABBREVIATIONS	-	-
G2	UTILITY GENERAL NOTES	-	-
G3	CONSTRUCTION NOTES	-	-
G4	EROSION CONTROL PLAN	-	-
C1	VICINITY, LOCATION MAP	-	-
C2	SITE DEVELOPMENT PLAN	-	-
C3	GENERAL SITE LAYOUT	-	-
C4	SITE FRONT ELEVATION	-	-
C5	SITE REAR ELEVATION	-	-
C6	SITE 3D VIEW	-	-
C7	SITE DEVELOPMENT SECTION	-	-
C8	RAW & PERMEATE TANKS	-	-
C9	DESALINATION UNIT, PLAN-FLUSH & INTERMEDIATE PERMEATE TANK	-	-
C10	BOOSTER 1&2 BUILDING TYP.	-	-
C11	BS FOUNDATION, GRADE SLAB, ROOF SLAB, WALL FOOTING PLAN	-	-
C12	TANK FOUNDATION & SUPPORT DETAIL	-	-
C13	ROOF SLAB, BEAM, INTERMEDIATE PERMEATE TANK SUPPORT SECTION	-	-
C13-1	LINTEL BEAM DETAIL	-	-
C13-2	BUILDING FINISH SCHEDULE	-	-
C13-3	GENERAL NOTES	-	-
C13-4	DOOR AND WINDOW SCHEDULE	-	-
C14	FENCE LAYOUT	-	-
C15	FENCE SPECIFICATIONS	-	-
C16	FENCE DETAILS	-	-
C17	FENCE DETAILS	-	-
-	-	-	-
BR1	BRINE DISPOSAL PLAN	-	-
BR2	BRINE DISCHARGE PIPING PLAN AND PROFILE	-	-
BR3	BRINE DISPOSAL NOTES	-	-
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REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: PROJECT TITLE, TABLE OF CONTENTS		
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. T1
APPROVED BY:	ISSUE FOR: CONSTRUCTION				SIGNATURE: DATE:
DATE:					

LEGEND:


WATER MAIN C909 DR18




EXISTING WATER MAIN




GATE VALVE




FIRE HYDRANT




ELBOW




TEE




PRV

 PRV


EXISTING WELL




BENCH MARK




POWER POLE




WATER METER WITH BOX




GATE VALVE WITH BOX




PAVED ROAD




UNPAVED ROAD




SIGN POST




DIAMETER



PRESSURE GAUGE



CONTOUR LINE



ABBREVIATIONS:			
@	AT	PVC	POLYVINYL CHLORIDE PIPE
AFF	ABOVE FINISHED FLOOR	PE	POLYETHYLENE PIPE
AFG	ABOVE FINISHED GRADE	ACP	ASBESTOS CEMENT PIPE
AGG	AGGREGATE	GA	GAUGE
ARV	AIR/VAC RELEASE VALVE	GALV	GALVANIZED
BLDG	BUILDING	GR	GRADE
CB	CATCH BASIN	GV	GATEVALVE
CI	CAST IRON	HB	HOSE BIB
CL	CENTER LINE	HWY	HIGHWAY
CMP	CORRUGATED METAL PIPE	ID	INSIDE DIAMETER
CO	CLEAN OUT	INSUL	INSULATION
CONC	CONCRETE	INV	INVERT
CP	CONTROL POINT	IR	IRON ROD
DET	DETAIL	JT	JOINT
DIA	DIAMETER	LT	LEFT
DIM	DIMENSION	M	METER
DIP	DUCTILE IRON PIPE	MANUF	MANUFACTURED
DW	DRIVEWAY	MAX	MAXIMUM
E	EAST	MFR	MANUFACTURER
ELEV	ELEVATION	MH	MANHOLE
ELEC	ELECTRICAL	MIN	MINIMUM
EOL	END OF LINE	MISC	MISCELLANEOUS
EOP	EDGE OF PAYMENT	(N)	NEW
EQ	EQUAL	N	NORTH
(E)	EXISTING	NIC	NOT IN CONTRACT
EXT	EXTERIOR	NO	NOT OPEN
FD	FLOOR DRAIN	NC	NORMALLY CLOSED
FH	FIRE HYDRANT	NTS	NOT TO SCALE
FIN	FINISHED	OC	ON CENTER
FLR	FLOOR	OD	OUTSIDE DIAMETER
FND	FOUND	OH	OVERHEAD
FT	FEET	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
FTG	FOOTING	AS-EPA	AMERICAN SAMOA ENVIRONMENTAL PROTECTION AGENCY
PL	PROPERTY LINE		
PROP	PROPOSED		

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CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. G1	SIGNATURE:
APPROVED BY:	ISSUE FOR: CONSTRUCTION					DATE:
DATE:						

UTILITY GENERAL NOTES:

EXISTING WATERLINE LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE LOCATING EXISTING UTILITY WITH ASPA OR OWNERS OF UTILITY LINES PRIOR TO EXCAVATION WITH APPROPRIATE ADVANCE NOTIFICATION.

ABANDON EXISTING WATER MAIN AND SERVICES IN PLACE ONLY AFTER THE NEW WATER MAIN HAS BEEN DISINFECTED AND APPROVED BY THE AMERICAN SAMOA POWER AUTHORITY (ASPA) AND THE AMERICAN SAMOA ENVIRONMENTAL PROTECTION AGENCY.

ALL GATE VALVES ARE TO BE INSTALLED WITH VALVE BOXES PER DRAWINGS AND SPECIFICATIONS.

ALL FLUSH VALVES ARE TO BE INSTALLED IN VALVE BOXES PER DRAWINGS AND SPECIFICATIONS.

ALL STATION LOCATIONS ARE APPROXIMATE.

CONTRACTOR IS RESPONSIBLE FOR MEETING CONDITIONS OF THE PNRS LAND-USE PERMIT.

FOR CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS, PNRS PERMIT REQUIREMENTS AND CONDITIONS SHALL APPLY, THEN SPECIFICATIONS, THEN DRAWINGS.

CONTRACTOR MUST CONFORM WITH ALL REQUIREMENTS OF THE OSHA STANDARD FOR EXCAVATION SAFETY (29 CFR 1926 SUBPART P). INCLUDED AMONG THE OSHA STANDARDS IS THE REQUIREMENT FOR PROTECTION OF WORKERS IN EXCAVATIONS 4 FEET OR GREATER IN DEPTH. PROTECTIVE SYSTEMS CAN BE SLOPING/BENCHING OF EXCAVATION WALLS, OR INSTALLATION OF SUPPORT/SHIELDING DEVICES. DESIGN OF PROTECTIVE SYSTEMS MUST BE BASED ON FIELD CLASSIFICATION OF THE SOIL BY A COMPETENT PERSON. PROTECTIVE SYSTEMS MUST BE IN ACCORDANCE WITH THE TABLES AND FIGURES SHOWN IN THE OSHA STANDARDS, OR MUST BE A MANUFACTURED PROTECTION SYSTEM USED IN STRICT CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS, OR MUST BE A PROTECTION SYSTEM DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. THE CONTRACTOR SHOULD STUDY THE OSHA STANDARD FOR FURTHER DETAIL.

CONTRACTOR SHALL PROVIDE BOTH CONC. ANCHORS & CLAY DIKES AS REQUIRED BY THE ENGINEER AS FOLLOWS: 10% < SLOPE < 15%: ONE EVERY 200 LINEAR FEET CLAY DIKES ONLY 15% OR GREATER SLOPES: EVERY 100 LINEAR FEET-CONC. ANCHORS & CLAY DIKES. A.) CLAY DIKES SHALL EXTEND FOR THE FULL TRENCH WIDTH (USED FOR PIPE BEDDING AND COVER) AND HAVE A LENGTH OF 5 FEET. LOCATED IN THE MIDDLE OF PIPE LENGTH, AT LEAST 2 FEET FROM A PIPE JOINT. MATERIALS SHALL BE CLAY AS DESIGNATED "CL" AND DEFINED UNDER THE UNIFIED SOIL CLASSIFICATION B.) CONC. ANCHORS SHALL BE LOCATED AT THE DOWNSTREAM SIDE OF JOINTS, SHALL BE UN-REINFORCED AND SHALL BE MINIMUM OF TRENCH WIDTH, 3 FEET HIGH (REPLACING PIPE BEDDING AND COVER) AND 2 FEET THICK.

LEVEL SURVEY & TOPOGRAPHIC MAPS USED FOR PLAN SHEETS ARE DATED FEB. 2006, CONDUCTED BY ASG/SURVEY DEPT. BUILDINGS AND ROADWAYS WERE UPDATED BY AERIAL PHOTOGRAPHY DURING AUGUST/SEPTEMBER 1990. LOCATIONS, BUILDING LOCATIONS, AND OTHER FEATURES MAY HAVE CHANGED SINCE THE LAST MAP UPDATE.

UTILITIES KNOWN TO EXIST BY THE ENGINEER FROM RESEARCH OF THE AVAILABLE RECORDS ARE SHOWN ON THE DRAWINGS. NO RESPONSIBILITY IS CLAIMED FOR COMPLETENESS OR ACCURACY. PRIOR TO STARTING

CONSTRUCTION, VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE FACILITIES INSTALLED UNDER THIS CONTRACT.

ELEVATIONS USED IN THE DRAWINGS ARE BASED ON 0.00 AT THE MEAN SEA LEVEL, HORIZONTAL COORDINATES ARE BASED ON THE AMERICAN SAMOA COORDINATE SYSTEM GRID. 13. PROVIDE, INSTALL, AND MAINTAIN SIGNS BARRICADES, MARKERS, CONES AND PROTECTIVE FACILITIES AND TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC DURING THE CONSTRUCTION OPERATIONS, CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF PUBLIC SAFETY AND THE DEPARTMENT OF PUBLIC WORKS IN REGARD TO TRAFFIC SAFETY WHILE WORKING IN THE PUBLIC RIGHT-OF-WAY. ALL TRAFFIC CONTROL PLANS MUST BE APPROVED BY DPS AND PUBLIC WORKS PRIOR TO start construction.

MAINTAIN TWO-WAY TRAFFIC ON HIGHWAY AT ALL TIMES UNLESS PRIOR PERMISSION TO CLOSE ONE LANE IS OBTAINED FROM THE DEPARTMENT OF PUBLIC SAFETY. IF THE LANE CLOSURE IS REQUIRED, PROPER ADVANCE NOTICE TO PUBLIC VIA NORMAL PUBLICATION OR RADIO ANNOUNCEMENTS IS required prior to start of construction

KEEP THE WORK SITE AND SURROUNDING AREAS FREE FROM DUST NUISANCE. DUST CONTROL, SEDIMENTATION CONTROL, AND ALL SUCH PLANS MUST BE APPROVED BY THE AMERICAN SAMOA ENVIRONMENTAL PROTECTION AGENCY PRIOR TO

REMOVE ALL SILT AND DEBRIS RESULTING FROM THE WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS, AND OTHER AREAS WHEN NECESSARY. CONSTRUCT SILT FENCES AND OTHER EROSION CONTROL DEVICES AROUND THE WORK TO PREVENT DAMAGE TO STREAMS OR OTHER WATERWAYS.

BARRICADE OPEN EXCAVATIONS AND POST WITH WARNING LIGHTS. KEEP UNATTENDED EXCAVATIONS FREE OF WATER AND MAINTAIN SLOPING AND STABLE WALLS WHEN OVER 4 FEET DEEP. LEAVE A LADDER OR OTHER DEVICE TO ALLOW ESCAPE FROM EXCAVATION. WHEN PERSONNEL ARE IN THE EXCAVATION, AT LEAST 2 MEANS OF EGRESS ARE REQUIRED. LADDERS ARE REQUIRED TO ALLOW NOT MORE THAN 25 FEET OF LATERAL TRAVEL FOR TRENCH EGRESS.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY EQUIPMENT AND MATERIALS FOR TESTING WATERLINES.

ROADS AND PROPERTIES AFFECTED BY EXCAVATION MUST BE REFURBISHED TO ORIGINAL STATUS OR BETTER AT COMPLETION OF PROJECT.

CONTRACTOR TO PROVIDE ELECTRONIC AS-BUILT DRAWINGS IN AUTODESK LAND DEVELOPMENT 2006 OR A RECENT VERSION THEREOF, OF ALL APPURTENANCES AND SURVEY REFERENCE POINTS TO ACCEPTABLE LOCATIONS. MINIMAL REQUIREMENT OF 2 POINTS FOR MINOR AND 3 POINTS FOR MAJOR APPURTANCES.

MAINTAIN WATER AND SEWER LINE SEPARATION IN ACCORDANCE WITH REGULATIONS.

INSTALL DETECTABLE WARNING TAPE AND CONDUCTOR TAPE ON TOP OF ALL PIPE.

ALL REBARS SHOULD BE EPOXY COATED. UNLESS DIRECTED BY ENGINEER CONSTRUCT SWALES AS SHOWN IN DETAILS WHENEVER SLOPE EXCEEDS 8%.

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CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. G2	SIGNATURE:
APPROVED BY:	ISSUE FOR: CONSTRUCTION					DATE:
DATE:						

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL COORDINATE HIS HAUL ROUTE STAGING AREA AND ALL ASSOCIATED REQUIREMENTS, SUCH AS, LAND USE PERMIT, WITH THE PNRS, CONTRACTING OFFICER, AND AFFECTED LANDOWNER.
2. A SEPARATE LAND USE PERMIT MUST BE OBTAINED BY THE CONTRACTOR IF THE CONTRACTOR'S STAGING AREA OR ANY WORK IS OUTSIDE THE LIMITS OF THE CONTRACT. THE EXISTING LAND USE PERMIT IS CONDITIONED ON A DIVISION OF MARINE AND WILDLIFE RESOURCES REVIEW PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING AND REMOVAL OF ALL SILT AND DEBRIS GENERATED BY HIS GRADING AND CONSTRUCTION WORK AND DEPOSITED AND ACCUMULATED ON ROADWAYS AND OTHER AREAS.
4. ALL EXISTING UTILITIES, CONCRETE WALKWAYS, STEPS AND WALLS, WHETHER OR NOT SHOWN ON THE DRAWINGS, EXCEPT THOSE DESIGNATED TO BE REMOVED, SHALL BE PROTECTED.PROTECTED FROM DAMAGED AT ALL TIMES DURING CONSTRUCTION AND GRADING WORK. ANY DAMAGES TO THEM SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
5. THE CONTRACTOR SHALL VERIFY DIMENSIONS, LOCATIONS, ELEVATIONS, ETC. THAT ARE INDICATED FOR VERIFICATION AND INFORM THE CONTRACTING OFFICER IN WRITING OF ANY DIFFERENCES PRIOR TO INSTALLATION OF NEW FACILITIES.
6. THE CONTRACTOR SHALL TONE AND PROBE THE AREA PRIOR TO ALL EXCAVATION AND TRENCHING TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF SAME IN THE EVENT OF DAMAGES DUE TO CONTRACTORS CONSTRUCTION PRACTICES. WHENEVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS, DEPTHS AND ASSURE THAT CONNECTIONS CAN BE MADE PRIOR TO EXCAVATION FOR THE NEW LINES AT NO COST TO THE OWNER. ANY NECESSARY ADJUSTMENTS FOR THE NEW LINES TO ENSURE PROPER CONNECTIONS TO THE EXISTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL ALSO CONTACT ASPA, BLUESKY AND ASTCA TO PROPERLY LOCATE THE UNDERGROUND UTILITIES AND CABLES THAT LIE IN AND ADJACENT TO THE WORK AREA.
7. WORK SHALL BE DONE BETWEEN 7:30AM AND 4:00PM SAMOA STANDARD TIME. NO WORK SHALL BE DONE ON SATURDAYS, SUNDAYS, FEDERAL HOLIDAYS OR AFTER NORMAL WORK HOURS AT ANY TIME, WITHOUT SPECIAL ARRANGEMENT AND PRIOR APPROVAL BY THE CONTRACTING OFFICER. PROJECT WORK SHALL BE IN CONFORMANCE WITH APPLICABLE FEDERAL AND LOCAL LAWS AND REGULATIONS REGARDING COMMUNITY NOISE CONTROL.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL WATERLINES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE ESPECIALLY CAREFUL WHEN EXCAVATING BEHIND WATERLINE TEES AND BENDS WHEREVER THERE IS POSSIBILITY OF WATERLINE MOVEMENT DUE TO REMOVAL OF THE SUPPORTING EARTH BEYOND THE EXISTING REACTION BLOCKS. THE CONTRACTOR SHALL TAKE WHATEVER MEASURE TO PROTECT THE WATERLINE

- SUCH AS CONSTRUCTING SPECIAL REACTION BLOCKS AND/OR MODIFYING HIS CONSTRUCTION METHODS.
10. NO BLASTING WILL BE ALLOWED ON THIS PROJECT.
11. THE CONTRACTOR SHALL PROTECT EXISTING PUBLIC AND PRIVATE FACILITIES AND UTILITIES, AND PROVIDE SHORING DURING EXCAVATION. THE CONTRACTOR SHALL REPAIR, AT HIS COST, ALL DAMAGES DUE TO EXCAVATION.
12. THE CONTRACTOR SHALL COORDINATE WITH ASPA, ASC, BLUESKY COMMUNICATIONS AND ASTCA FOR ALL NEW POLE INSTALLATION, POWER, TELEVISION AND COMMUNICATIONS RELOCATIONS, AND REMOVAL OF EXISTING POLES. IF THE CONTRACTOR SHALL PROVIDE RELOCATIONS, REMOVAL OF EXISTING POLES. THE CONTRACTOR SHALL PROVIDE SUPPORTS FOR THE EXISTING POLES AFFECTED BY EXCAVATION. THE CONTRACTOR SHALL NOTIFY AFFECTED VILLAGES AND THE UTILITY COMPANIES SEVEN (7) DAYS PRIOR TO SERVICE INTERRUPTIONS. THESE NOTIFICATIONS SHALL BE AT THE CONVENIENCE OF ASPA, ASC, BLUESKY COMMUNICATION AND ASTCA.
13. THE CONTRACTOR SHALL PROVIDE ALL LAND SURVEY CONSTRUCTION STAKEOUT SERVICES, SOIL AGGREGATE, CONCRETE AND PAVEMENT MONITORING, AND SAMPLING AND TESTING SERVICES.
14. WASTE MATERIAL WILL BE DISPOSED OF AT AN APPROVED, PNRS-COMPLIANT, OFF-SITE DISPOSAL AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING DISPOSAL AREA.
15. THE CONTRACTOR SHALL TAKE EXTREME CARE IN PERFORMING WORK NEAR EXISTING CONCRETE ELECTRICAL/COMMUNICATION DUCTS. APPROPRIATE PROTECTION SHALL BE IMPLEMENTED AS REQUIRED TO PREVENT DAMAGE TO THIS LINE.
16. THE CONTRACTOR SHALL VERIFY, BASED ON THE SITE CONDITIONS AND CONTRACT BASELINE DATA, WITH OVERVIEW AND APPROVAL BY AN AUTHORIZED REPRESENTATIVE OF AMERICAN SAMOA POWER AUTHORITY, THE LOCATION OF ALL EXISTING POLES WHICH IMPACT THE CONSTRUCTION AND ULTIMATE USE OF THE PROPOSED ROAD.
17. THE CONTRACTOR SHALL VERIFY, BASED ON OVERVIEW AND APPROVAL BY AUTHORIZED REPRESENTATIVE OF AMERICAN SAMOA GOVERNMENT OFFICE OF COMMUNICATIONS, THE LOCATIONS AND DEPTH OF EXISTING UNDERGROUND TELEPHONE CABLES. RELOCATE EXISTING DIRECT BURIED CABLES WHICH IMPACT THE CONSTRUCTION AND FINAL USE OF THE PROPOSED ROAD. EITHER INTO A NEW TRENCH AWAY FROM THE ROAD OR IN PVC SCHEDULE80 SLEEVES THROUGH THE ROAD AT A MINIMUM DEPTH OF 3' BELOW FINISHED GRADE IF THE CABLES CANNOT BE RELOCATED. TO EXPOSE THE CABLE, THE CONTRACTOR SHALL TONE FOR THE CABLE AND HAND EXCAVATE THE CABLE TAKING CARE NOT TO DAMAGE THE JACKET AND INSULATION. BASIS OF BID SHALL BE 100 LINEAR FEET OF DIRECT BURIED CABLE.
18. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT AND CROSSING ALONG THE NEW ROADWAY. ALL DEMOLITION AND REMOVAL OF EXISTING PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO ROADWAY CONSTRUCTION.
19. ALL TRAFFIC SIGN AND PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH

- THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2003 EDITION, AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.
20. AT THE END OF THE WORKDAY OR AS SOON AS WORK IS COMPLETED, THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO ENSURE THAT PUBLIC TRAFFIC HAS SAFE PASSAGE AND THAT ALL OPEN HOLES ARE PROPERLY COVERED AND MAINTAINED DURING THE DURATION OF THE PROJECT.
21. IF THE CONTRACTOR UNCOVERS ANY CULTURAL REMAINS, DURING EXCAVATION WORK, THE CONTRACTOR SHALL STOP WORK IN THE AREA OF THE FINDINGS AND NOTIFY THE CONTRACTING OFFICER AND THE AMERICAN SAMOA GOVERNMENT (ASHPO AND ASPA)

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REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: CONSTRUCTION NOTES			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. G3	SIGNATURE:
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EROSION AND TEMPORARY DUST CONTROL

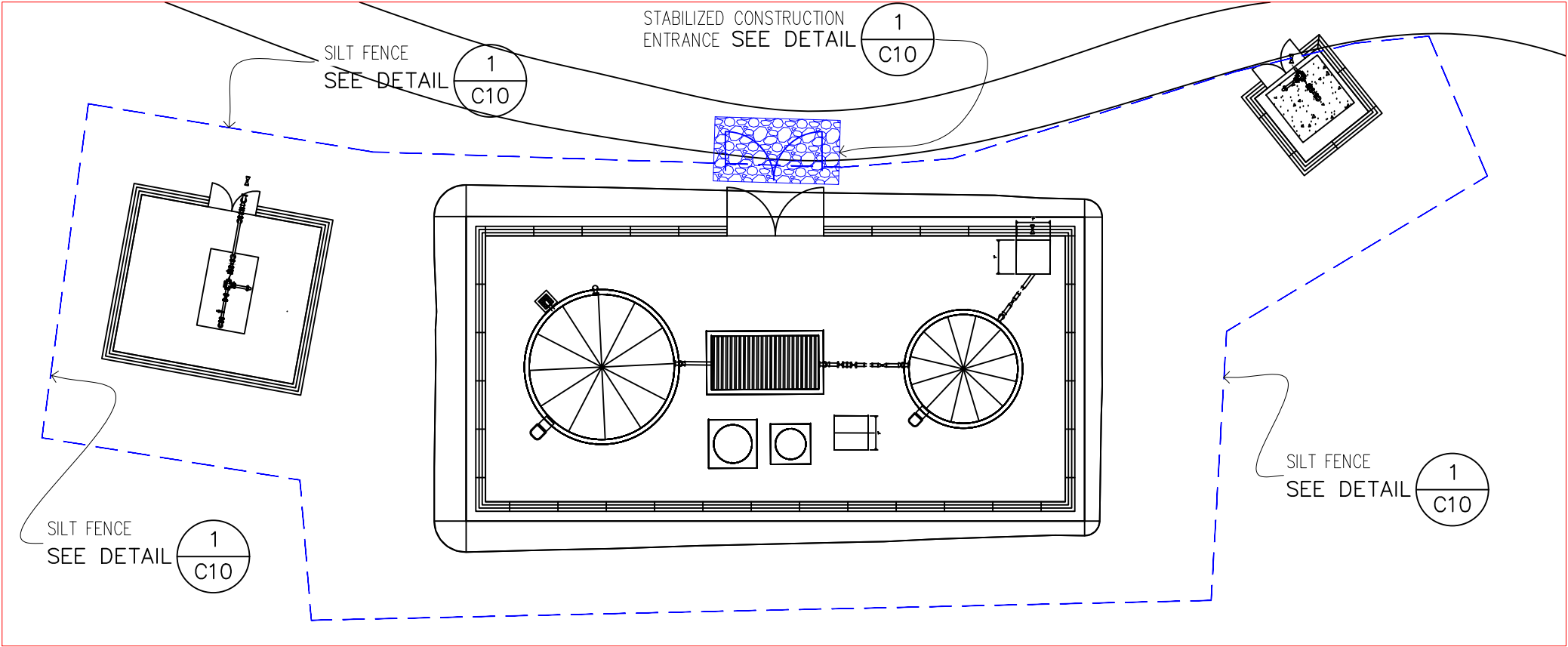
1. DURING CONSTRUCTION, PREVENTIVE MAINTENANCE MEASURES SHALL BE USED TO CONTROL FORESEEABLE DUST, EROSION OR SEDIMENTATION PROBLEMS WHICH MAY ARISE AS THE JOB PROGRESSES.
2. FUGITIVE DUST AND SOLID WASTE DISPOSAL DURING GRUBBING ACTIVITIES SHALL MEET REQUIREMENTS OF ADMINISTRATIVE RULES, TITLE II, CHAPTER 60, AIR POLLUTION CONTROL AND CHAPTER 58, SOLID WASTE MANAGEMENT CONTROL.
3. THE CONTRACTOR AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.
4. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARILY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE. ALL EXPOSED AREAS TO BE LEFT EXPOSED FOR LONGER THAN FOURTEEN (14) DAYS SHALL BE HYDROMULCH SEEDED WITH RYE GRASS.
5. ALL SLOPES AND EXPOSED AREAS SHALL BE SODDED OR PLANTED AS SOON AS FINAL GRADES HAVE BEEN ESTABLISHED. PLANTING SHALL NOT BE DELAYED UNTIL ALL GRADING WORKS HAS BEEN COMPLETED. GRADING TO FINAL GRADE SHALL BE CONTINUOUS, AND ANY AREA WITHIN WHICH WORK HAS BEEN INTERRUPTED OR DELAYED SHALL BE PLANTED.

BEST MANAGEMENT PRACTICE NOTES

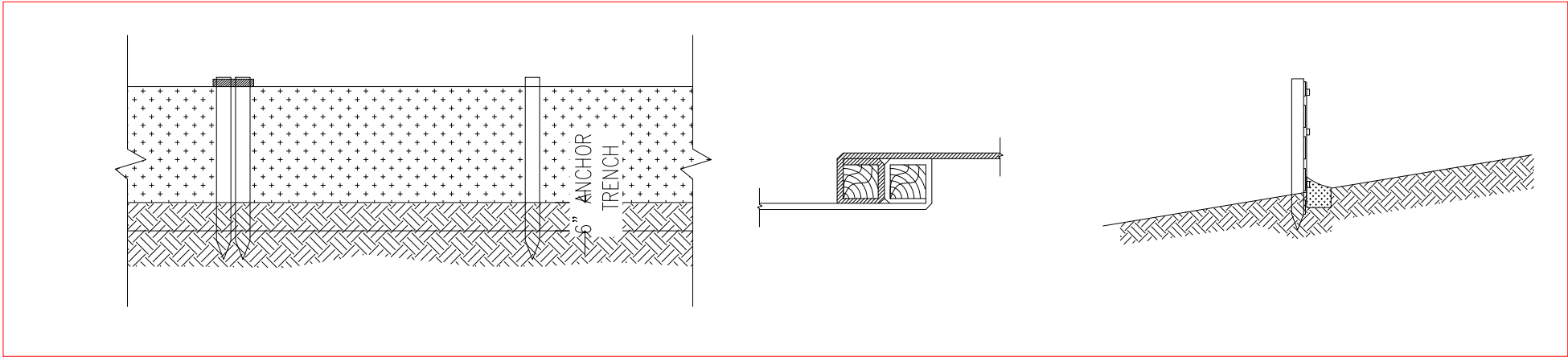
1. MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY WORK IS INITIATED. THESE MEASURES SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
2. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY.
3. GRASSING OR MULCHING OF EXPOSED AREAS TO BE DONE AS FINISH GRADES ARE ESTABLISHED.
4. DIVERSION OF STORM RUNOFF AWAY FROM THE FILL SLOPES UNTIL GRASSING ON THE FILL SLOPES ARE ESTABLISHED.
5. PROVIDE STABILIZED CONSTRUCTION ENTRANCE.

NOTES:

1. STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED AT THE EGRESS AND INGRESS TO THE SITE. TIRE WASH MAY BE USED IN LIEU OF STABILIZED CONSTRUCTION ENTRANCE. CONTRACTOR IS RESPONSIBLE TO KEEP ROADWAYS CLEAN FROM SOIL AND CONSTRUCTION DEBRIS.
2. DUST CONTROL SHOULD BE APPLIED TO REDUCE DUST EMISSIONS. WATER THE AREA DURING CONSTRUCTION TO CONTROL DUST.
3. ALL STORM DRAIN INLETS ON SITE AND THOSE OFF SITE WHICH MAY RECEIVED RUN OFF FROM THE SITE SHALL USE AN INLET PROTECTION DEVICE.
4. NO STAGING AREA OR STOCKPILING OF MATERIALS/SPOILS IS ALLOWED WITHIN THE FLOODWAYS NEAR PROPOSED FILTRATION PLANT OR WELL 33

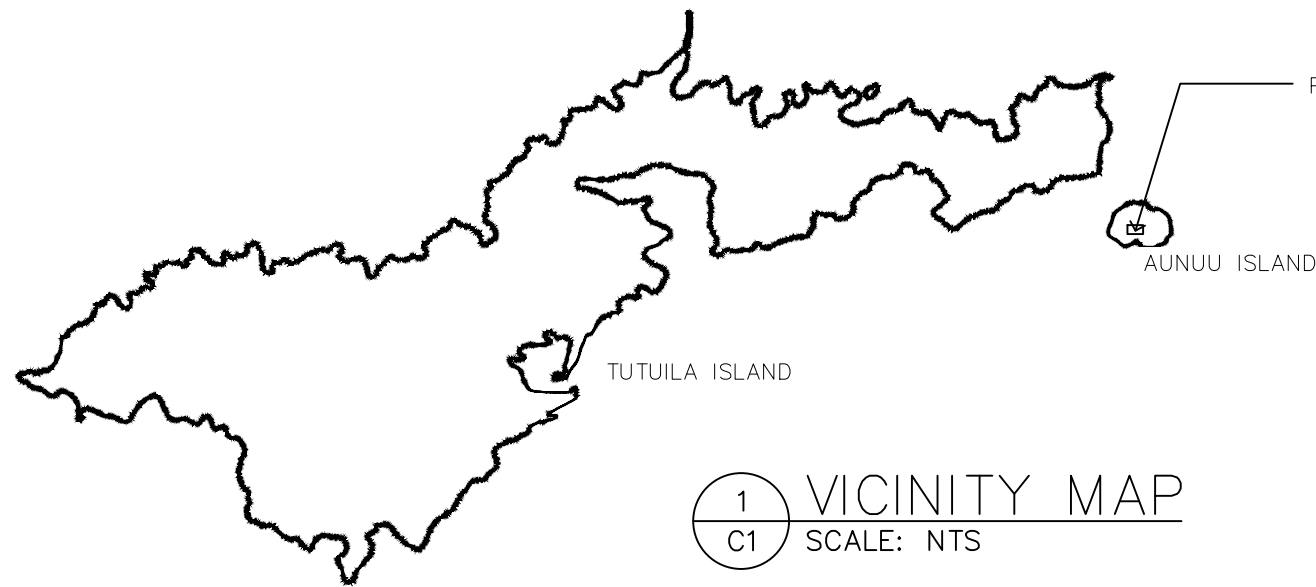
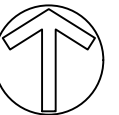
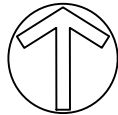


1 EROSION CONTROL PLAN
G4 SCALE: 1: 30

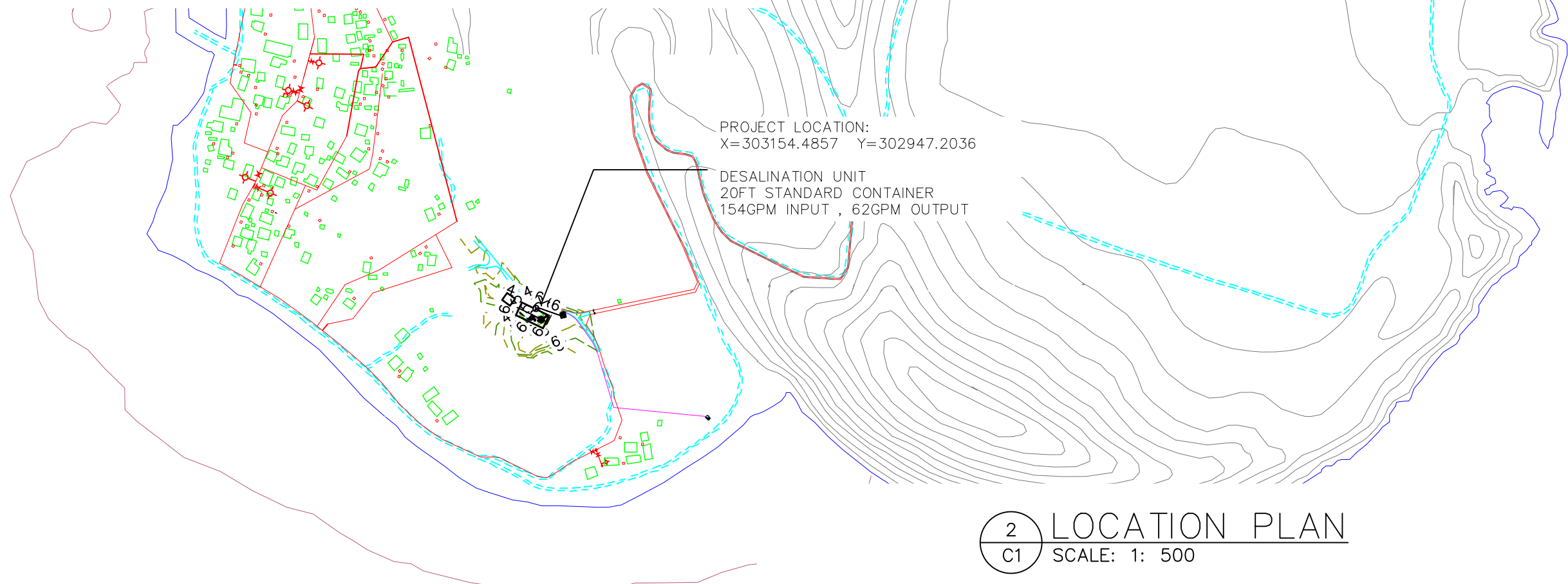


1 SILT FENCE DETAILS
G4 SCALE: 1: NTS

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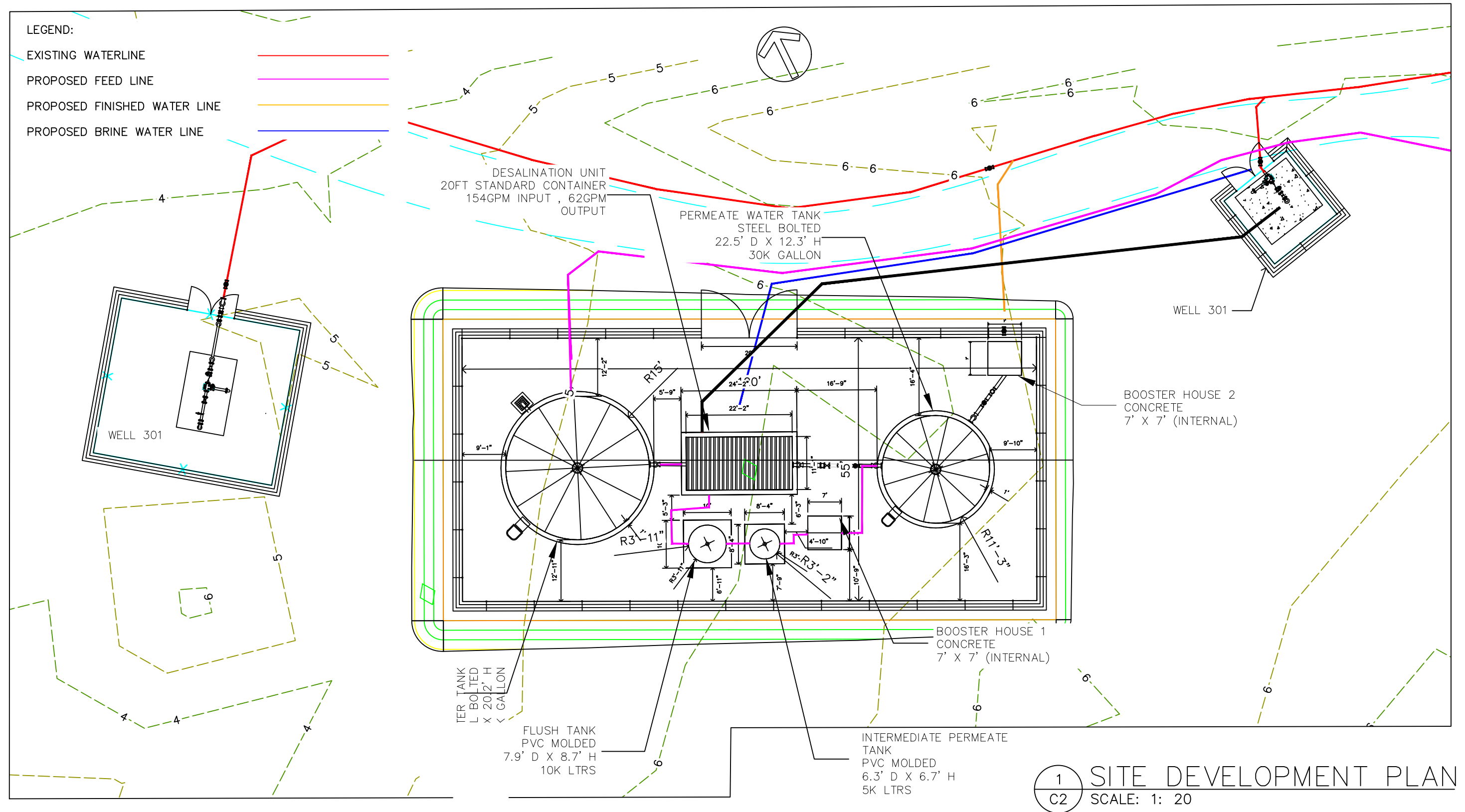


1 VICINITY MAP
C1 SCALE: NTS



2 LOCATION PLAN
C1 SCALE: 1: 500

REV. NO.:	PREPARED BY: WATER ENGINEERING	 ENGINEERING SERVICES DIVISION TAFUNA, AMERICAN SAMOA P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675 AMERICAN SAMOA POWER AUTHORITY	PROJECT NAME: AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT	SCALE: AS SHOWN	PROJECT NO.:	
REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: VICINITY, LOCATION MAP			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C1	SIGNATURE:
APPROVED BY:	ISSUE FOR: CONSTRUCTION					DATE:
DATE:						



REV. NO.:	PREPARED BY: WATER ENGINEERING	 <p>ENGINEERING SERVICES DIVISION TAFUNA, AMERICAN SAMOA P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675 AMERICAN SAMOA POWER AUTHORITY</p>	PROJECT NAME: AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT	SCALE: AS SHOWN	PROJECT NO.:
REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: SITE DEVELOPMENT PLAN		
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C2
APPROVED BY:	ISSUE FOR: CONSTRUCTION			SIGNATURE:	DATE:
DATE:					

LEGEND:

EXISTING WATERLINE

PROPOSED FEED LINE

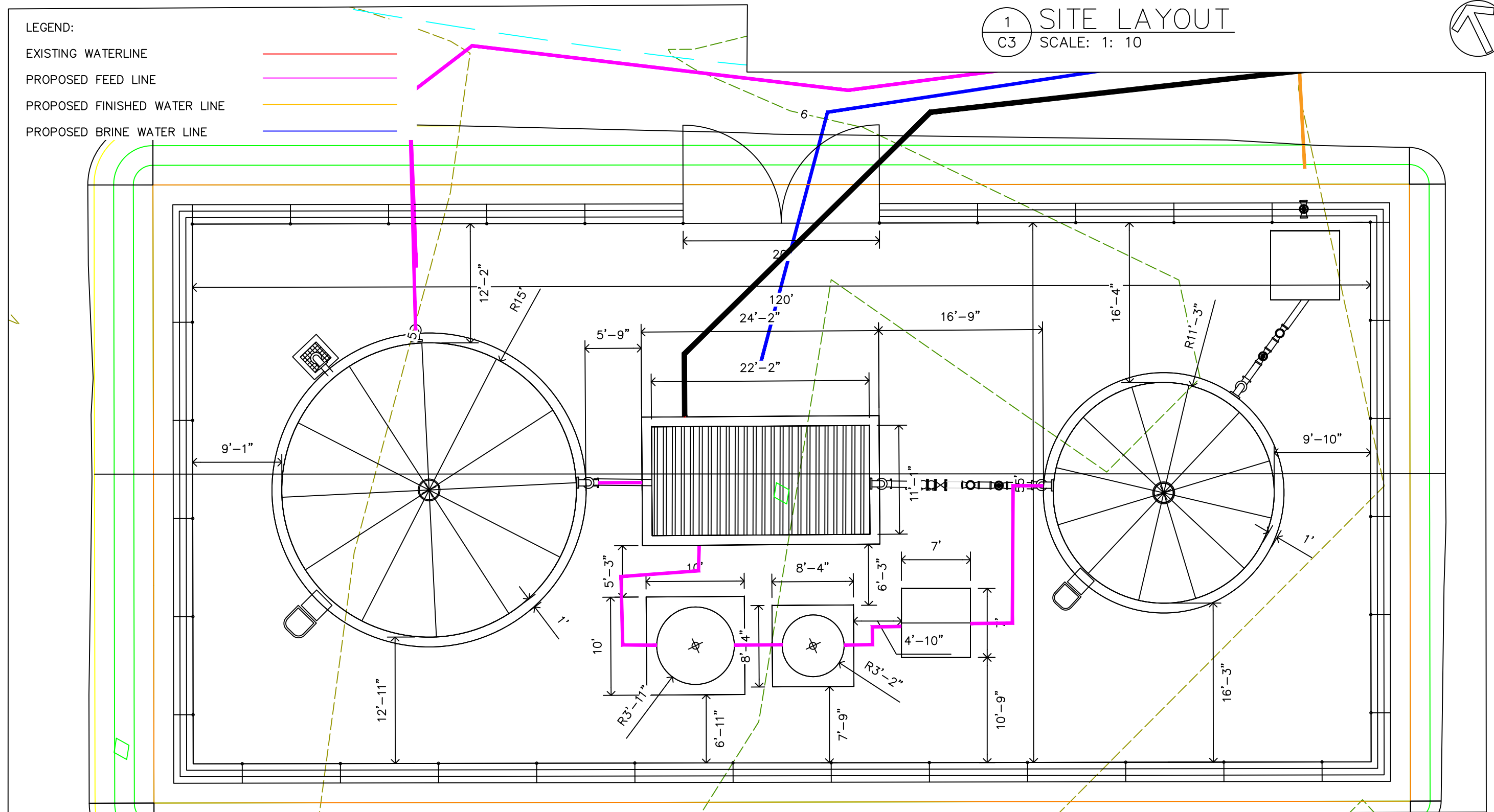
PROPOSED FINISHED WATER LINE

PROPOSED BRINE WATER LINE

1
C3

SITE LAYOUT

SCALE: 1: 10



REV. NO.:

REVISION:

CHECKED BY:

APPROVED BY:

DATE:

PREPARED BY:
WATER ENGINEERING

CHECKED BY:
WATER ENGINEERING

APPROVED BY:
W SWORD P.E.

ISSUE FOR:
CONSTRUCTION



AMERICAN SAMOA POWER AUTHORITY

ENGINEERING SERVICES DIVISION
TAFUNA, AMERICAN SAMOA

P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675

PROJECT NAME:

AUNUU DESALINATION 154GPM
INPUT 62GPM OUTPUT

DRAWING TITLE:

SITE LAYOUT

PROJECT LOCATION:

AUNUU VILLAGE, AMERICAN SAMOA

SCALE:

AS SHOWN

PROJECT NO.:

DATE:

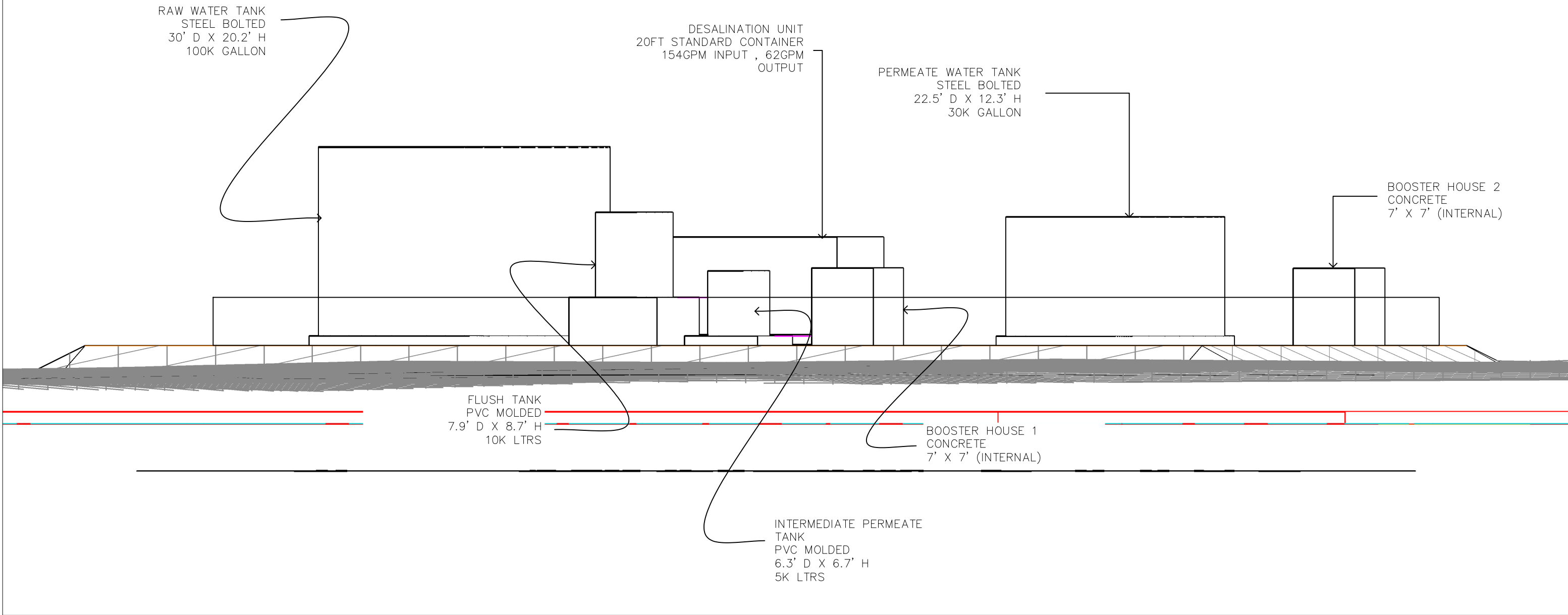
SEPT2025

SHEET NO.

C3

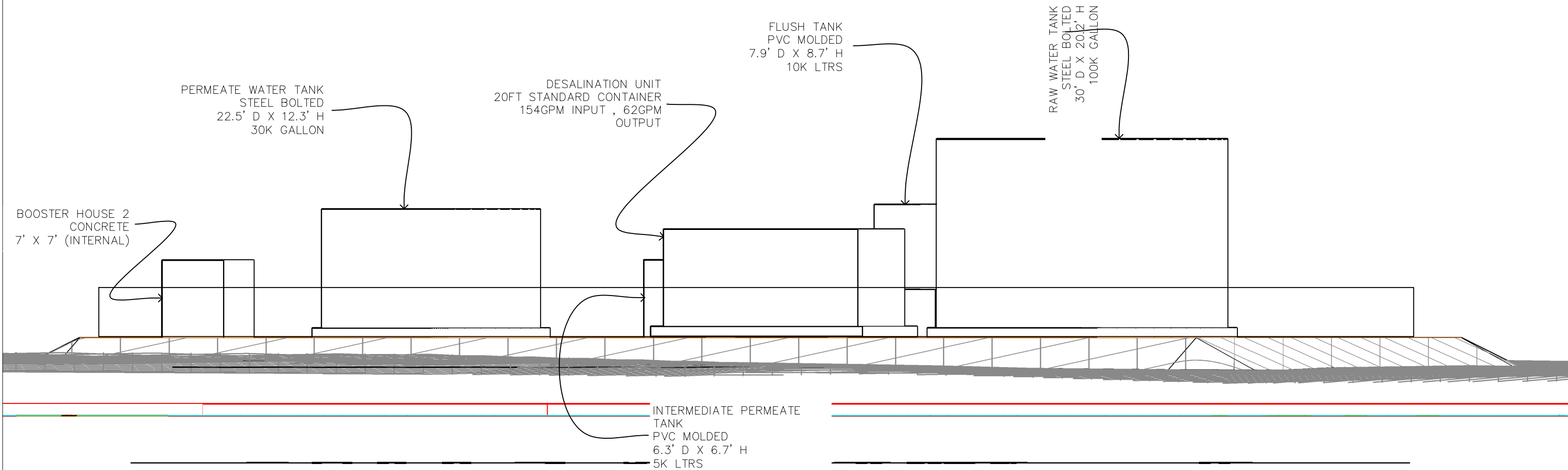
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DATE:



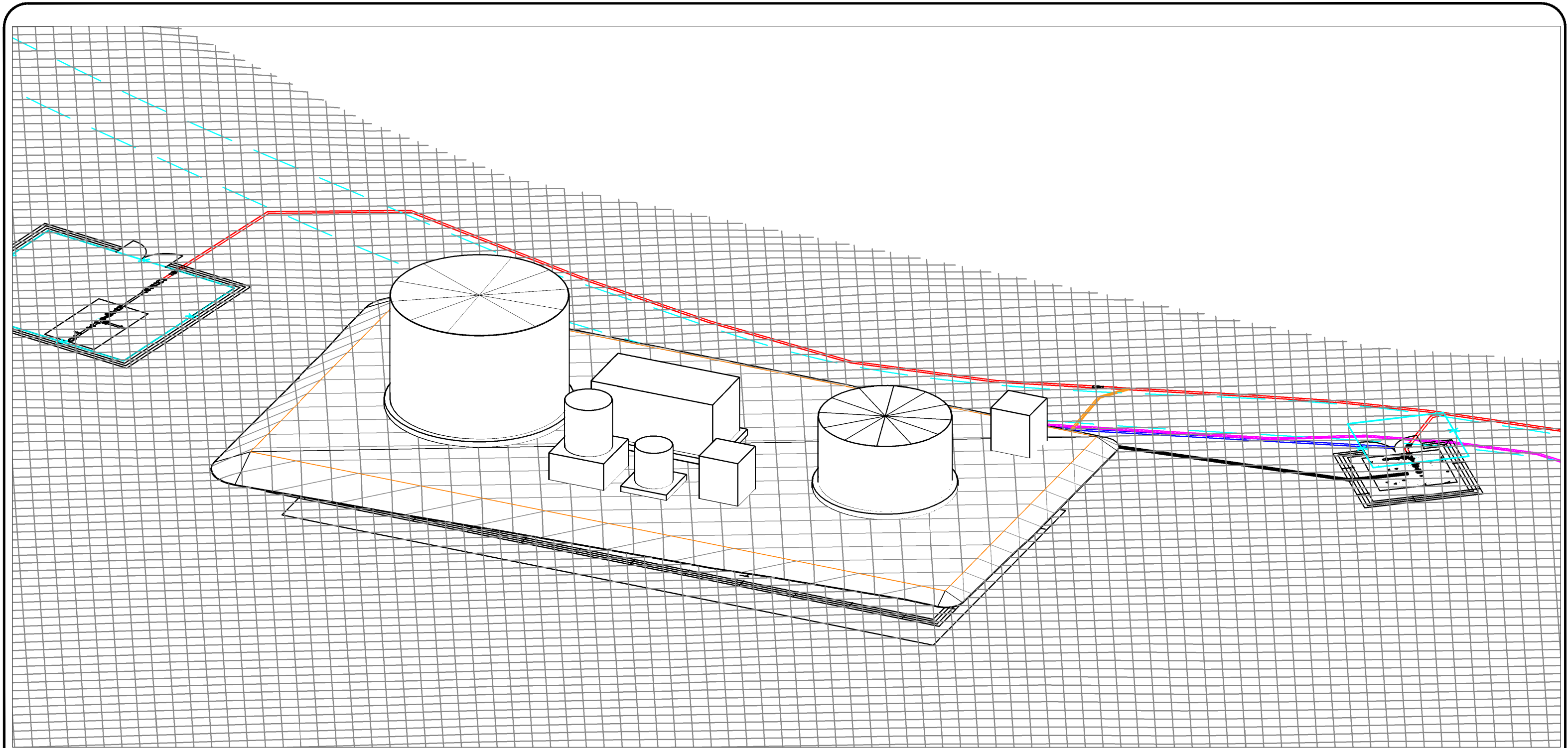
1 SITE FRONT ELEVATION
C4 SCALE: 1: 500

REV. NO.:	PREPARED BY: WATER ENGINEERING	 <div>ENGINEERING SERVICES DIVISION TAFUNA, AMERICAN SAMOA P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675 AMERICAN SAMOA POWER AUTHORITY</div>	PROJECT NAME: AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT	SCALE: AS SHOWN	PROJECT NO.:	
REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: SITE FRONT ELEVATION			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C4	SIGNATURE: DATE:
APPROVED BY:	ISSUE FOR: CONSTRUCTION					
DATE:						



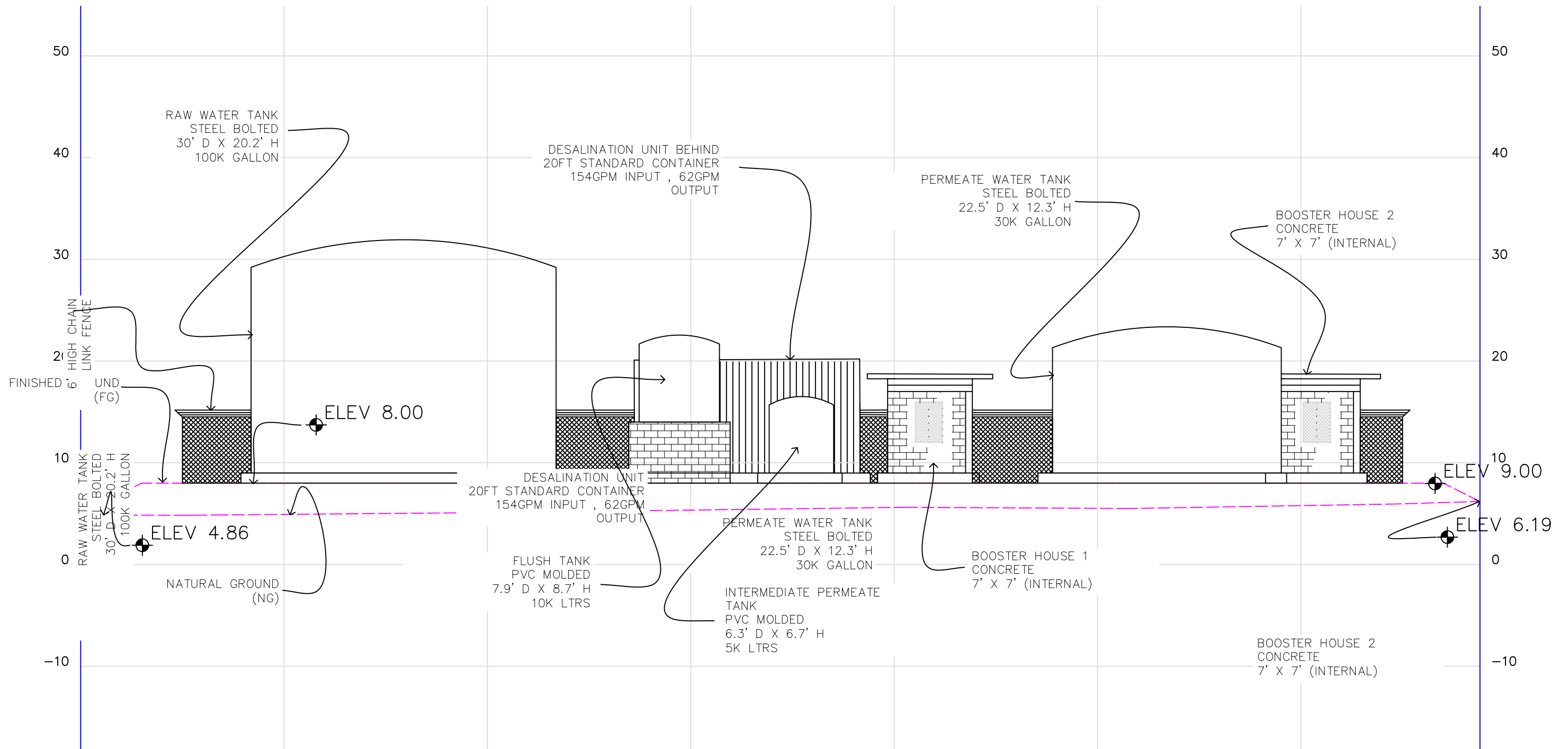
1 SITE REAR ELEVATION
C5 SCALE: 1: NTS

REV. NO.:	PREPARED BY: WATER ENGINEERING	<div><p>ENGINEERING SERVICES DIVISION TAFUNA, AMERICAN SAMOA P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675</p><p>AMERICAN SAMOA POWER AUTHORITY</p></div>	PROJECT NAME: AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT	SCALE: AS SHOWN	PROJECT NO.:	
REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: SITE REAR ELEVATION			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C5	SIGNATURE:
APPROVED BY:	ISSUE FOR: CONSTRUCTION					DATE:
DATE:						




1 SITE 3D VIEW
C6 SCALE: NTS

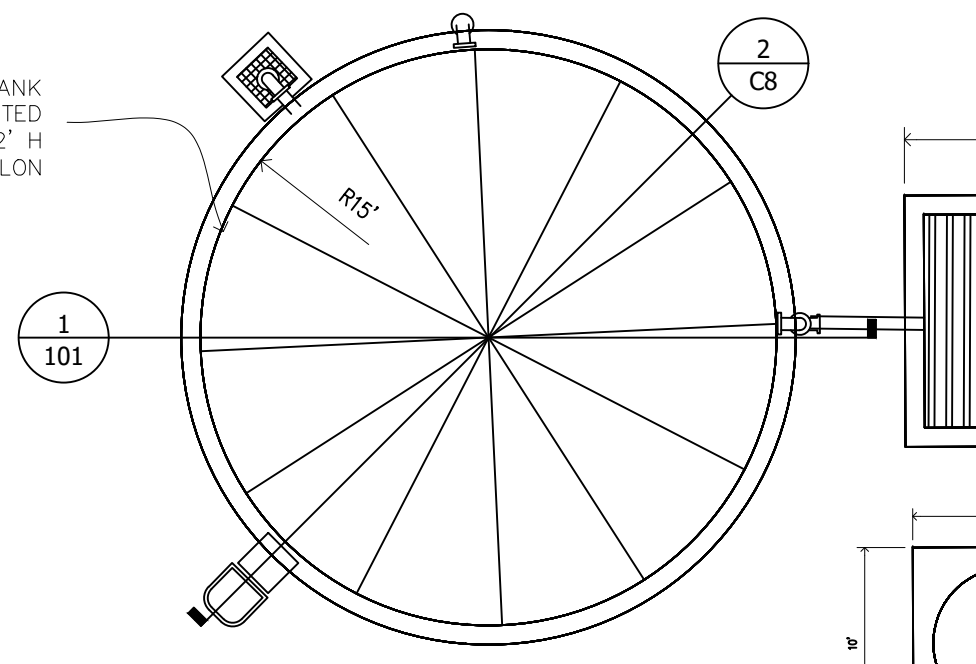
REV. NO.:	PREPARED BY: WATER ENGINEERING	 <p>ENGINEERING SERVICES DIVISION TAFUNA, AMERICAN SAMOA P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675</p> <p>AMERICAN SAMOA POWER AUTHORITY</p>	PROJECT NAME: AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT	SCALE: AS SHOWN	PROJECT NO.:	
REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: SITE 3D VIEW			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C6	SIGNATURE: DATE:
APPROVED BY:	ISSUE FOR: CONSTRUCTION					
DATE:						



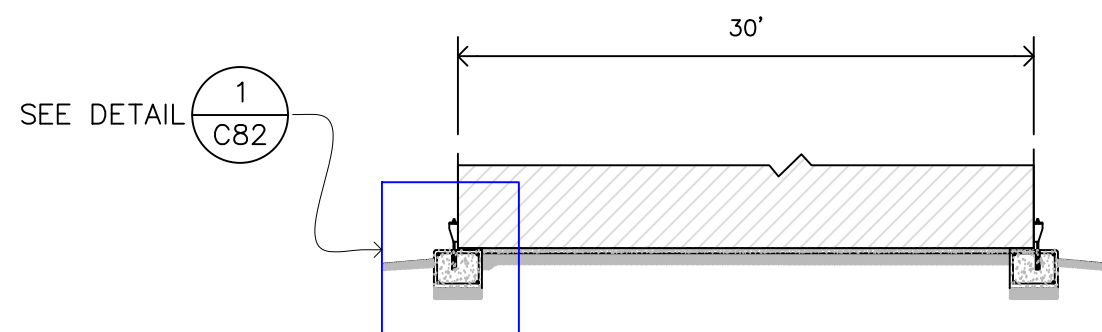
1 SITE DEVELOPMENT SECTION
C7 SCALE: 1: 10

REV. NO.:	PREPARED BY: WATER ENGINEERING	 <div>ENGINEERING SERVICES DIVISION TAFUNA, AMERICAN SAMOA P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675</div> <div>INTERMEDIATE PERMEATE TANK PVC MOLDED 6.3' D X 6.7' H 5K LTRS</div>	PROJECT NAME: AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT	SCALE: AS SHOWN	PROJECT NO.:	
REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: SITE DEVELOPMENT SECTION			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C7	SIGNATURE: DATE:
APPROVED BY:	ISSUE FOR: CONSTRUCTION					
DATE:						

RAW WATER TANK
STEEL BOLTED
30' D X 20.2' H
100K GALLON

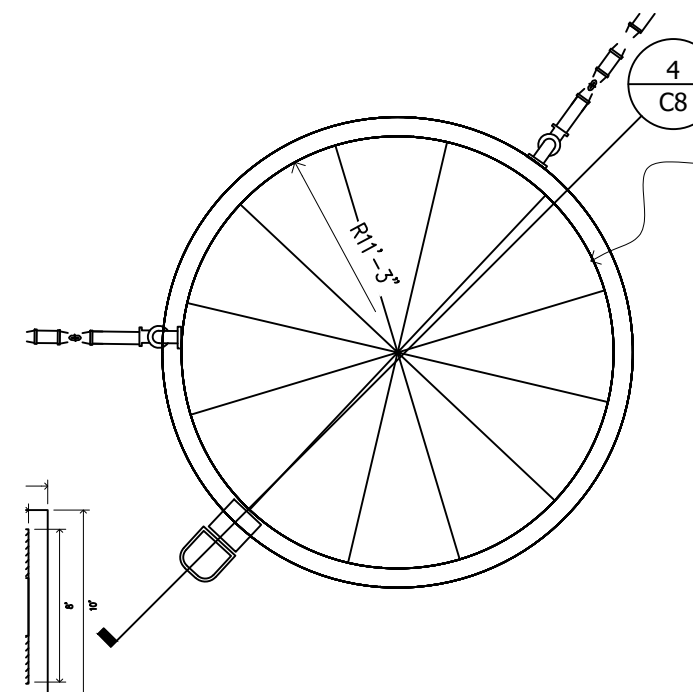


1 TANK 1 PLAN
C8 SCALE: 1: 10



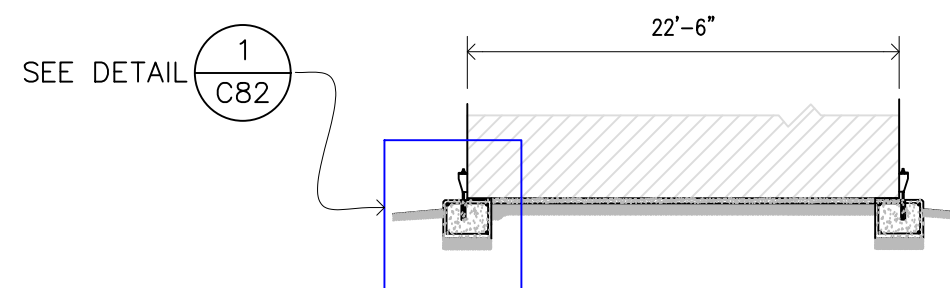
2 TANK-1 FOUNDATION SECTION
C8 SCALE: 1: 10

AA



PERMEATE WATER TANK
STEEL BOLTED
22.5' D X 12.3' H
30K GALLON

3 TANK 2 PLAN
C8 SCALE: 1: 10



4 TANK-2 FOUNDATION SECTION
C8 SCALE: 1: 10

REV. NO.:

REVISION:

CHECKED BY:

APPROVED BY:

DATE:

PREPARED BY:
WATER ENGINEERING

CHECKED BY:
WATER ENGINEERING

APPROVED BY:
W SWORD P.E.

ISSUE FOR:
CONSTRUCTION



AMERICAN SAMOA POWER AUTHORITY

ENGINEERING SERVICES DIVISION
TAFUNA, AMERICAN SAMOA

P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675

PROJECT NAME:

AUNUU DESALINATION 154GPM
INPUT 62GPM OUTPUT

DRAWING TITLE:

RAW & PERMEATE TANKS

PROJECT LOCATION:

AUNUU VILLAGE, AMERICAN SAMOA

SCALE:

AS SHOWN

PROJECT NO.:

DATE:

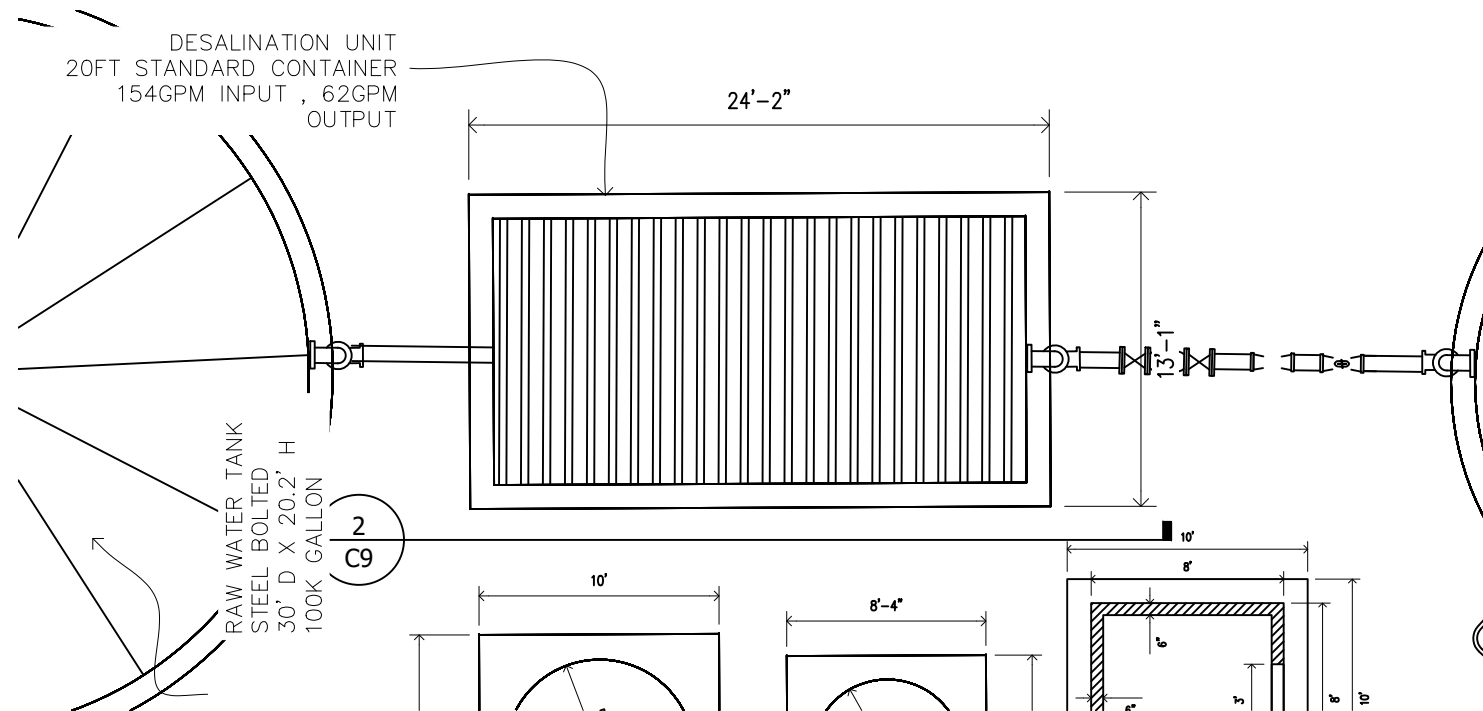
SEPT2025

SHEET NO.

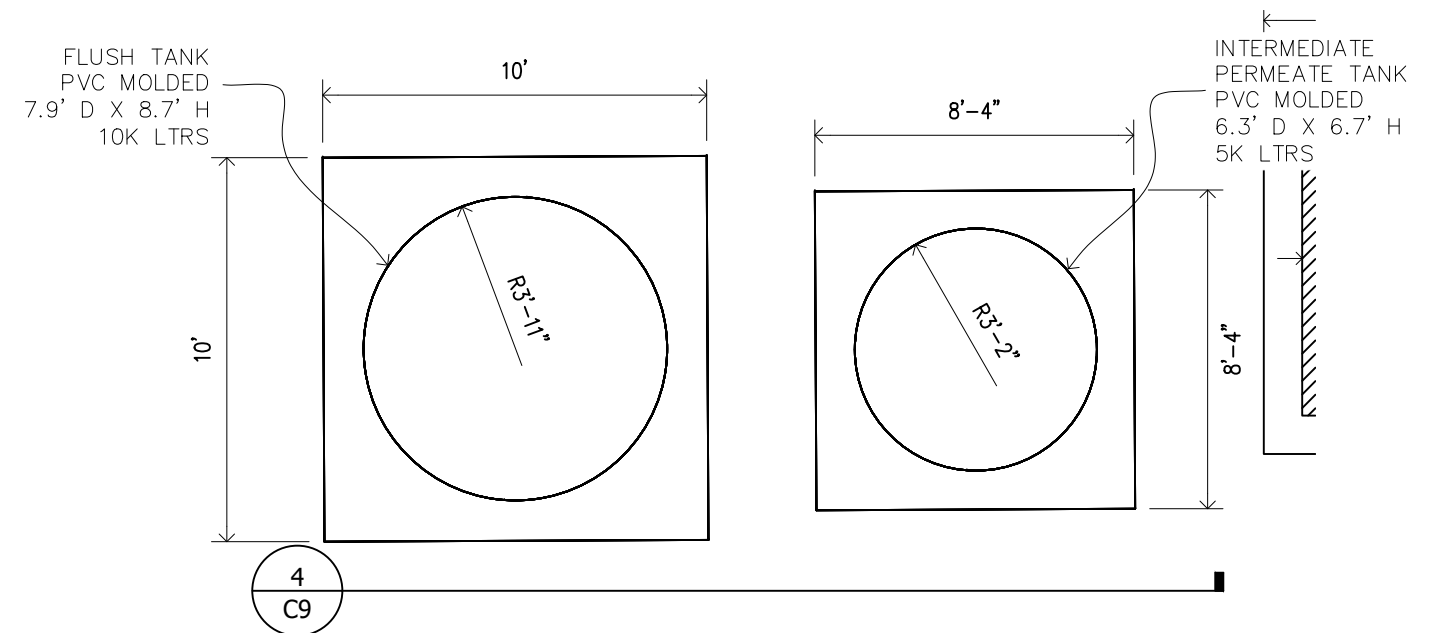
C8

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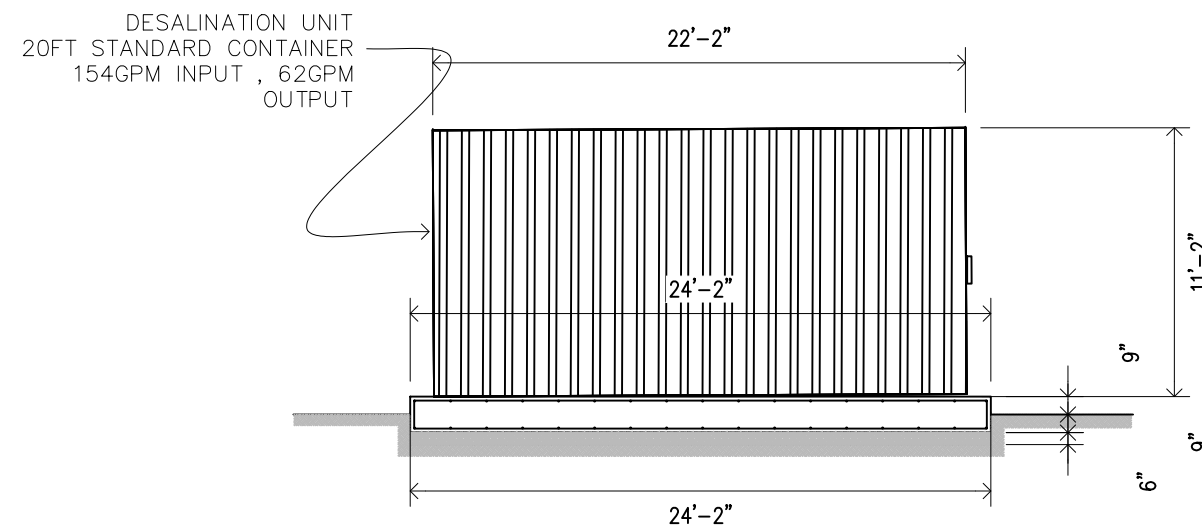
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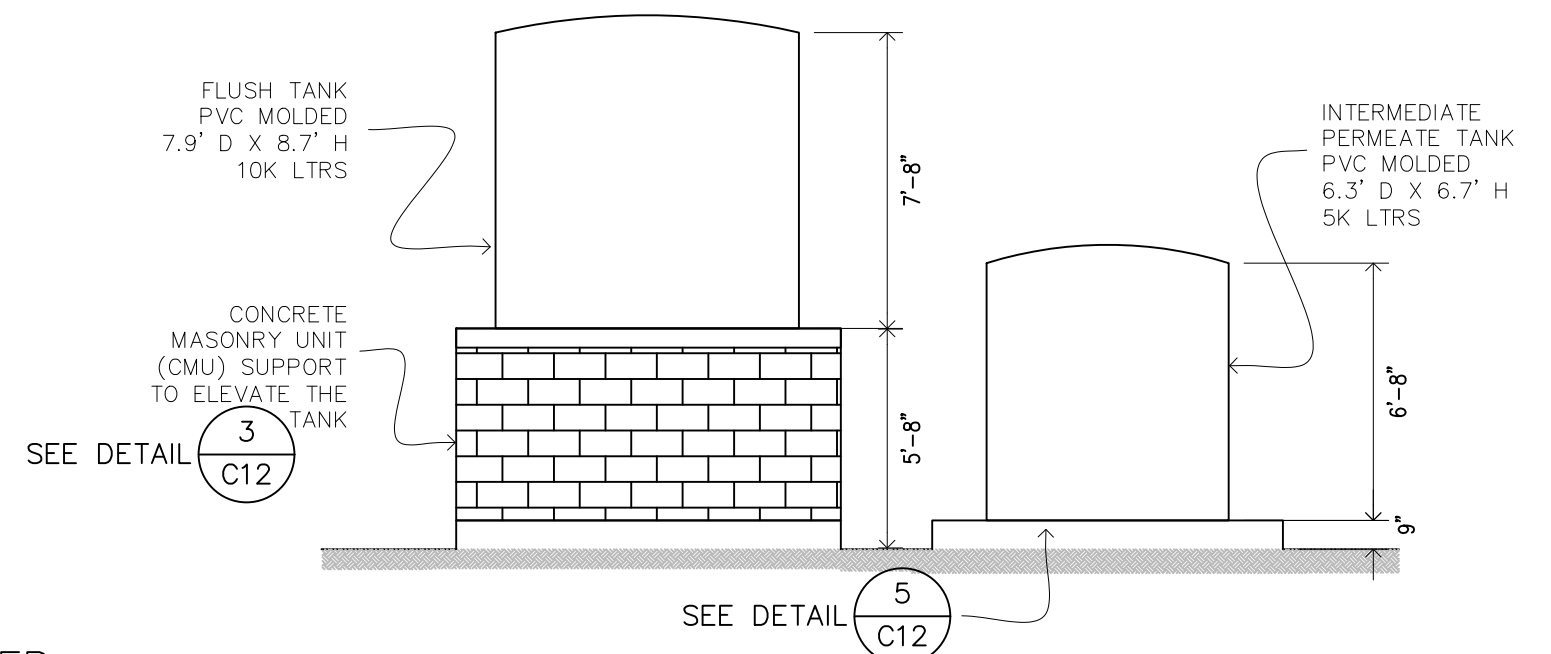
1 PLAN-DESALINATION UNIT 20FT STANDARD CONTAINER
C9 SCALE: 1: 8



3 PLAN-FLUSH TANK PVC MOLDED INTERMEDIATE PERMEATE TANK PVC MOLDED
C9 SCALE: 1: 5

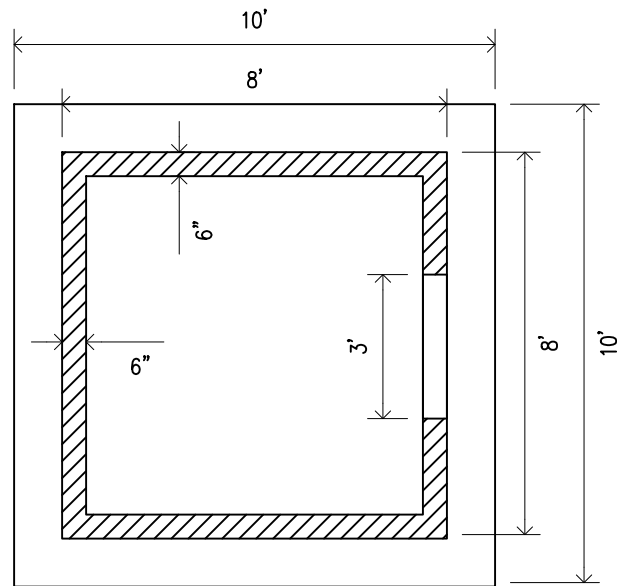


2 SIDE VIEW-DESALINATION UNIT 20FT STANDARD CONTAINER
C9 SCALE: 1: 5

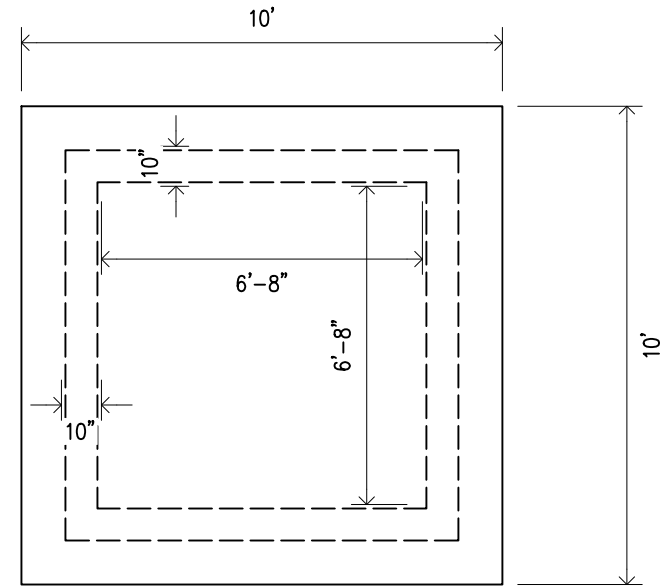


4 SIDE VIEW -FLUSH TANK PVC MOLDED INTERMEDIATE PERMEATE TANK PVC MOLDED
C9 SCALE: 1: 5

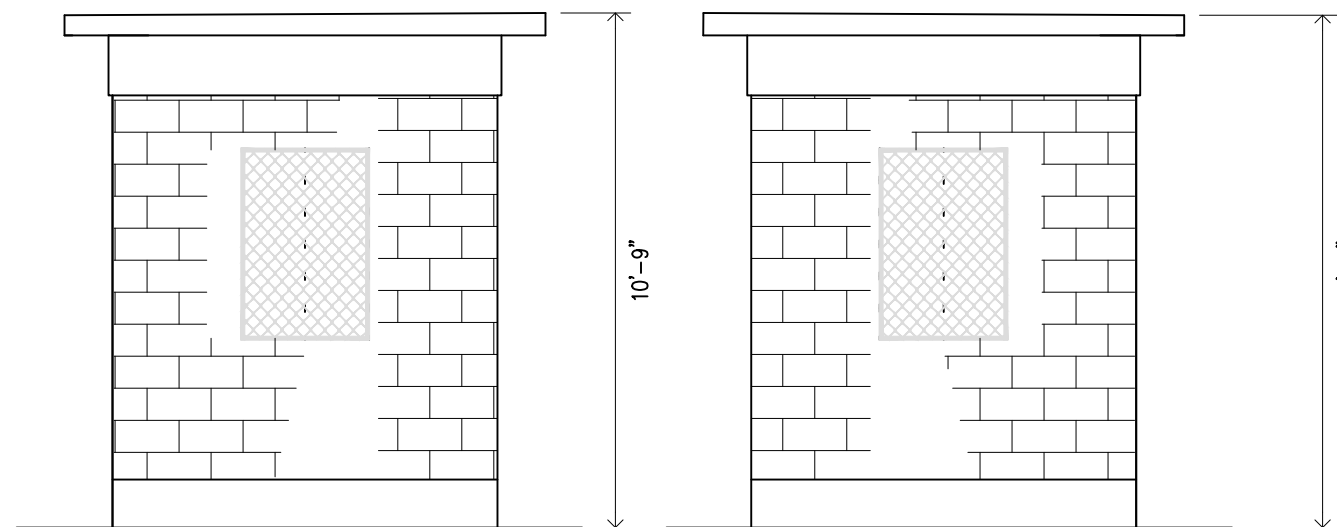
REV. NO.:	PREPARED BY: WATER ENGINEERING	 <p>ENGINEERING SERVICES DIVISION TAFUNA, AMERICAN SAMOA P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675 AMERICAN SAMOA POWER AUTHORITY</p>	PROJECT NAME: AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT	SCALE: AS SHOWN	PROJECT NO.:	
REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: DESALINATION UNIT, PLAN-FLUSH & INTERMEDIATE PERMEATE TANK			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C9	SIGNATURE: DATE:
APPROVED BY:	ISSUE FOR: CONSTRUCTION					
DATE:						



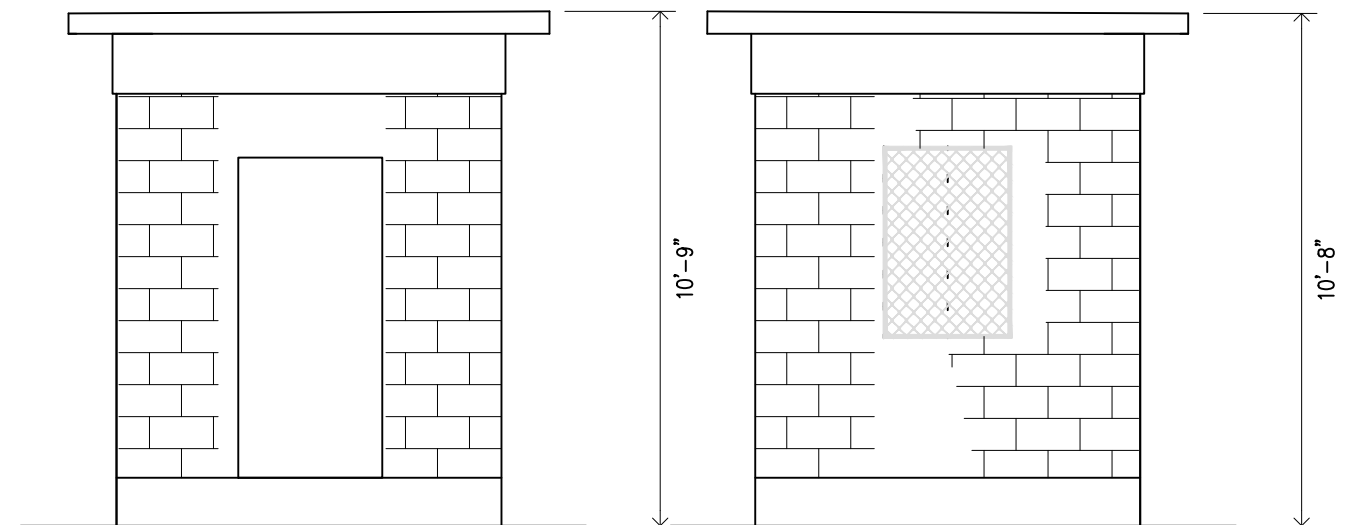
1 BS— FLOOR PLAN
C10 SCALE: 1: 4



2 BS— ROOF PLAN
C10 SCALE: 1: 4

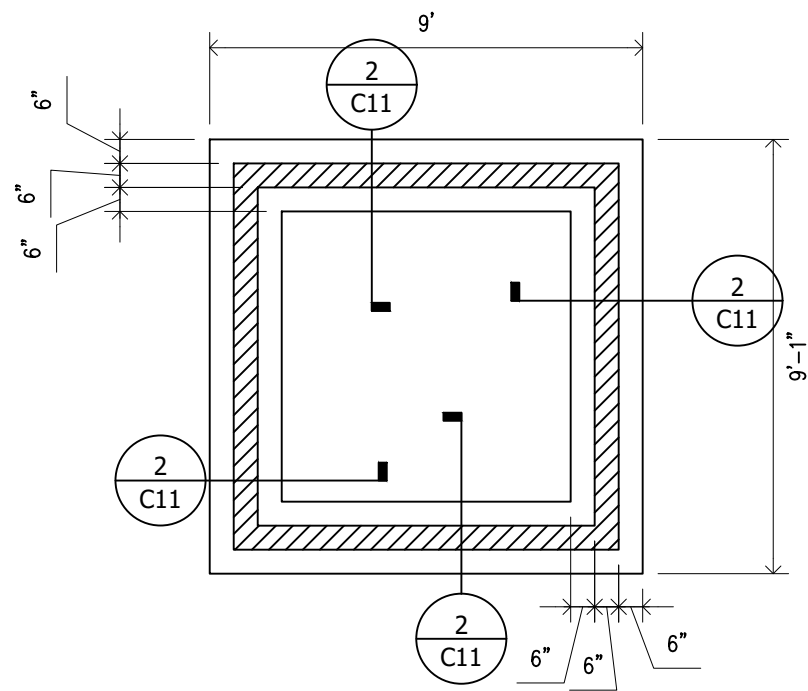


3 BS— RIGHT & LEFT SIDE ELEVATIONS
C10 SCALE: 1: 4

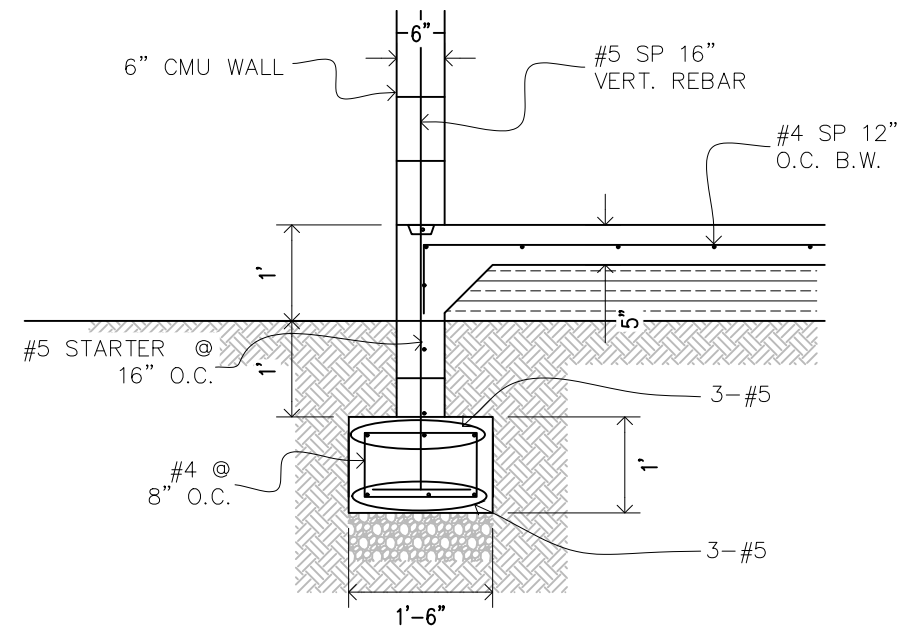


4 FRONT & REAR ELEVATIONS
C10 SCALE: 1: 4

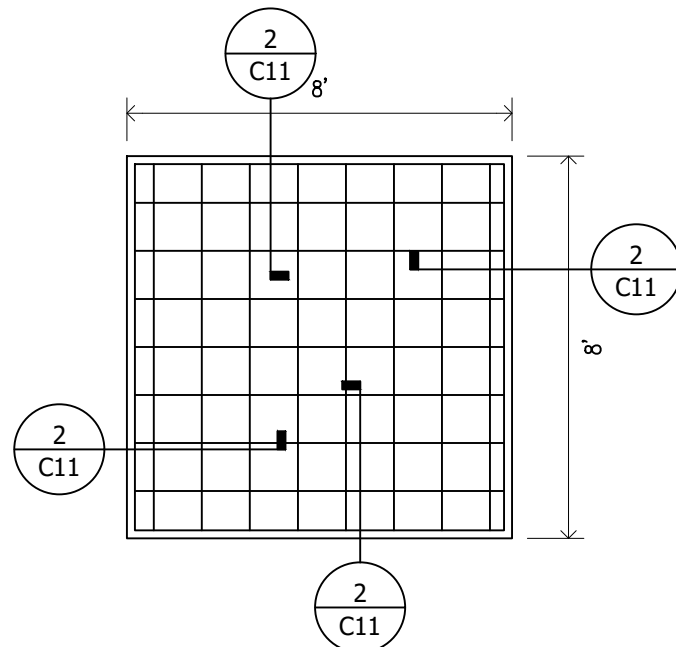
REV. NO.:	PREPARED BY: WATER ENGINEERING	 <p>ENGINEERING SERVICES DIVISION TAFUNA, AMERICAN SAMOA P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675</p> <p>AMERICAN SAMOA POWER AUTHORITY</p>	PROJECT NAME: AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT	SCALE: AS SHOWN	PROJECT NO.:	
REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: BOOSTER 1&2 BUILDING TYP.			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C10	SIGNATURE: DATE:
APPROVED BY:	ISSUE FOR: CONSTRUCTION					
DATE:						



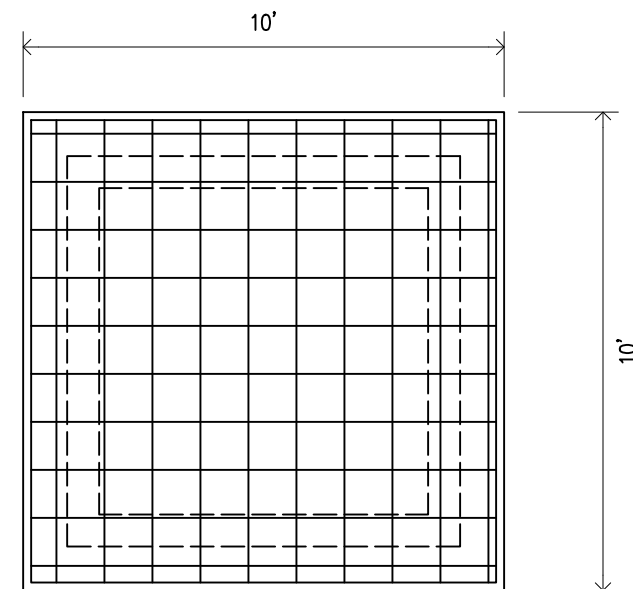
1 BS FOUNDATION PLAN
C11 SCALE: 1: 4



2 BS WALL FOOTING SECTION
C11 SCALE: 1: 2



3 BS FLOOR ON GRADE PLAN
C11 SCALE: 1: 4



4 BS ROOF SLAB PLAN
C11 SCALE: 1: 4

REV. NO.:

REVISION:

CHECKED BY:

APPROVED BY:

DATE:

PREPARED BY:
WATER ENGINEERING

CHECKED BY:
WATER ENGINEERING

APPROVED BY:
W SWORD P.E.

ISSUE FOR:
CONSTRUCTION



AMERICAN SAMOA POWER AUTHORITY

ENGINEERING SERVICES DIVISION
TAFUNA, AMERICAN SAMOA

P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675

PROJECT NAME:

AUNUU DESALINATION 154GPM
INPUT 62GPM OUTPUT

DRAWING TITLE:

BS FOUNDATION, GRADE SLAB,
ROOF SLAB, WALL FOOTING PLAN

PROJECT LOCATION:

AUNUU VILLAGE, AMERICAN SAMOA

SCALE:

AS SHOWN

PROJECT NO:

DATE:

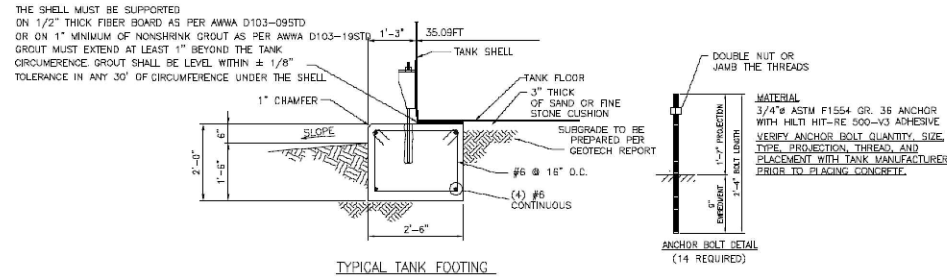
SEPT2025

SHEET NO.

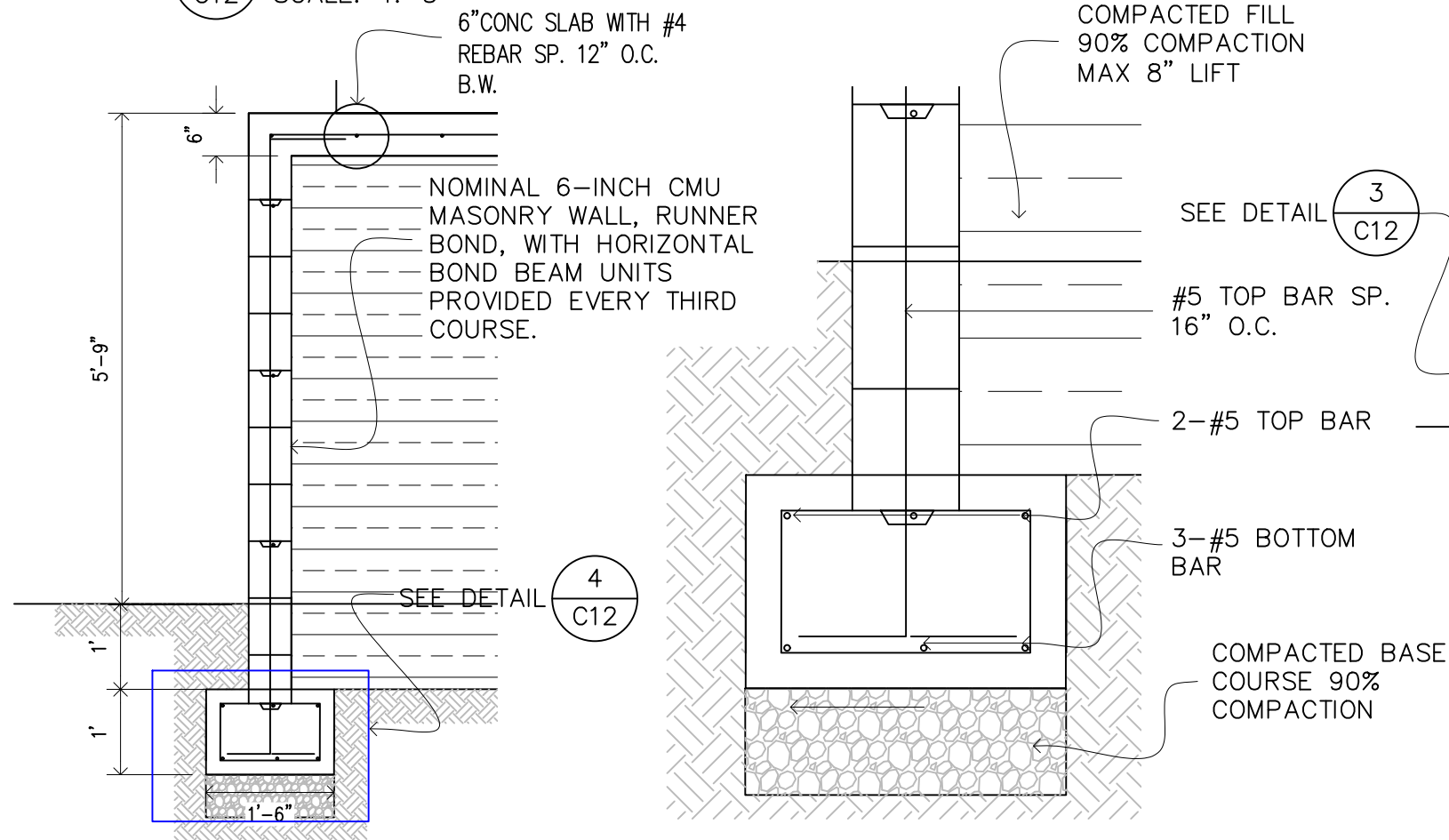
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SIGNATURE:

DATE:

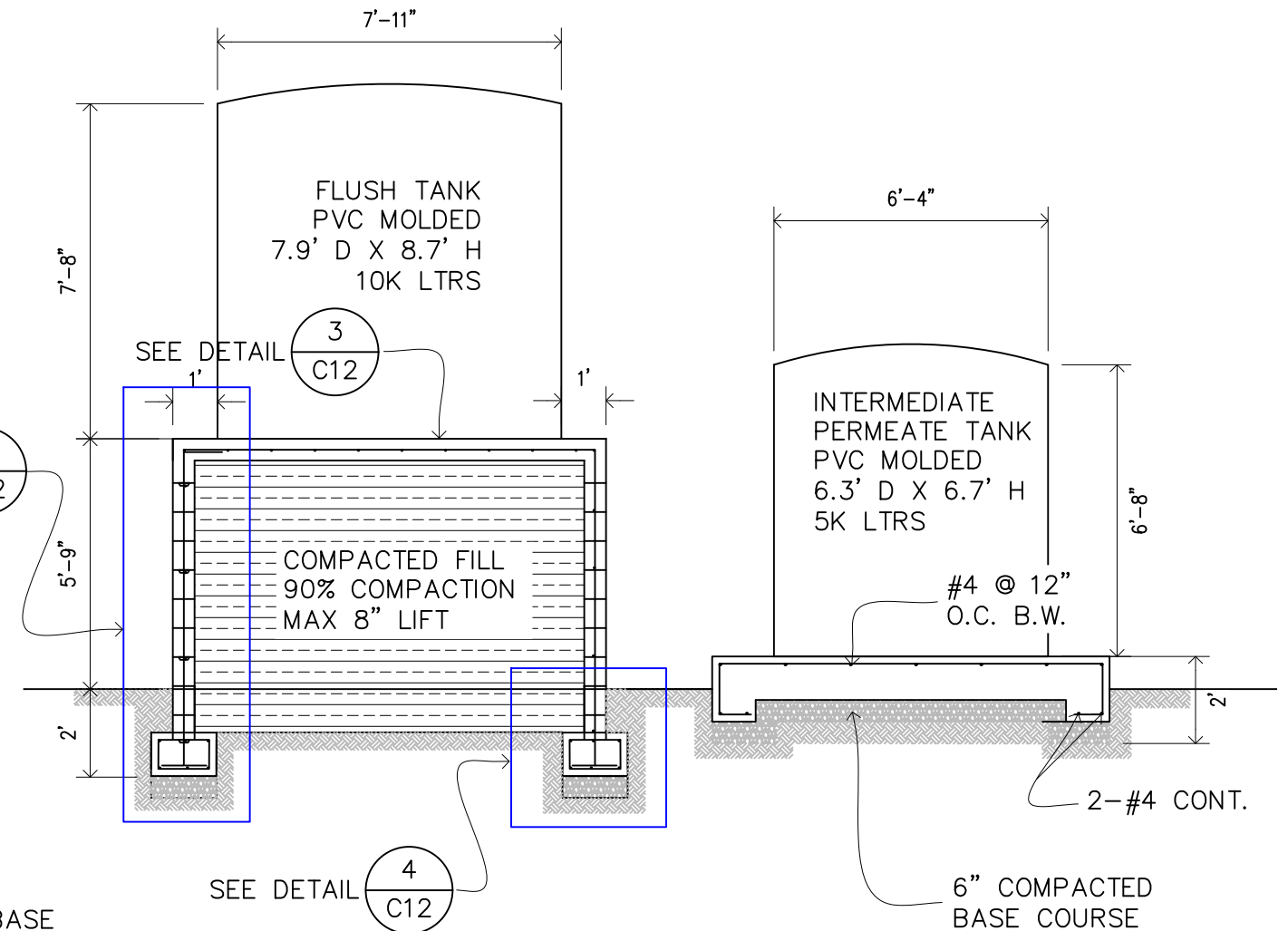


1 TANK RING FOUNDATION SECTION C12 SCALE: 1: 5



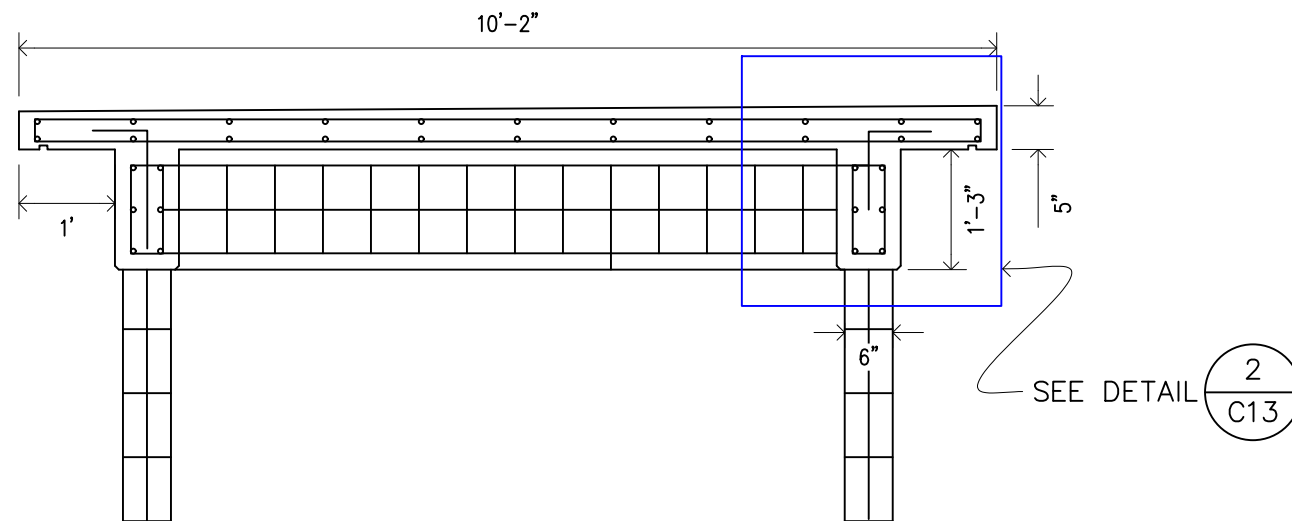
3 WALL DETAILS C12 SCALE: 1: 2

4 WALL FOOTING DETAILS C12 SCALE: NTS



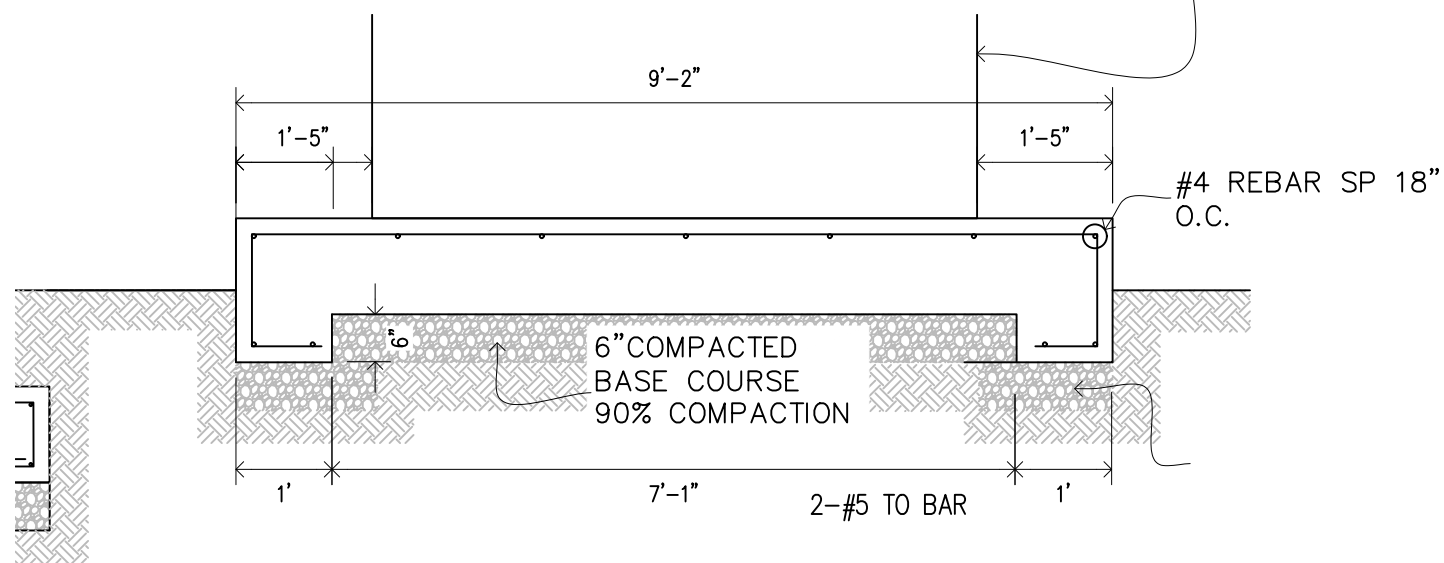
5 TANK RING FOUNDATION SECTION C12 SCALE: 1: 4

REV. NO.:	PREPARED BY: WATER ENGINEERING	 <p>ENGINEERING SERVICES DIVISION TAFUNA, AMERICAN SAMOA P.O. BOX PPB, PAGO PAGO AM SAMOA 96799. TEL (684) 699-7198, FAX (684) 699-9675 AMERICAN SAMOA POWER AUTHORITY</p>	PROJECT NAME: AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT	SCALE: AS SHOWN	PROJECT NO.:	
REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: TANK FOUNDATION & SUPPORT DETAIL			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C12	SIGNATURE: DATE:
APPROVED BY:	ISSUE FOR: CONSTRUCTION					
DATE:						

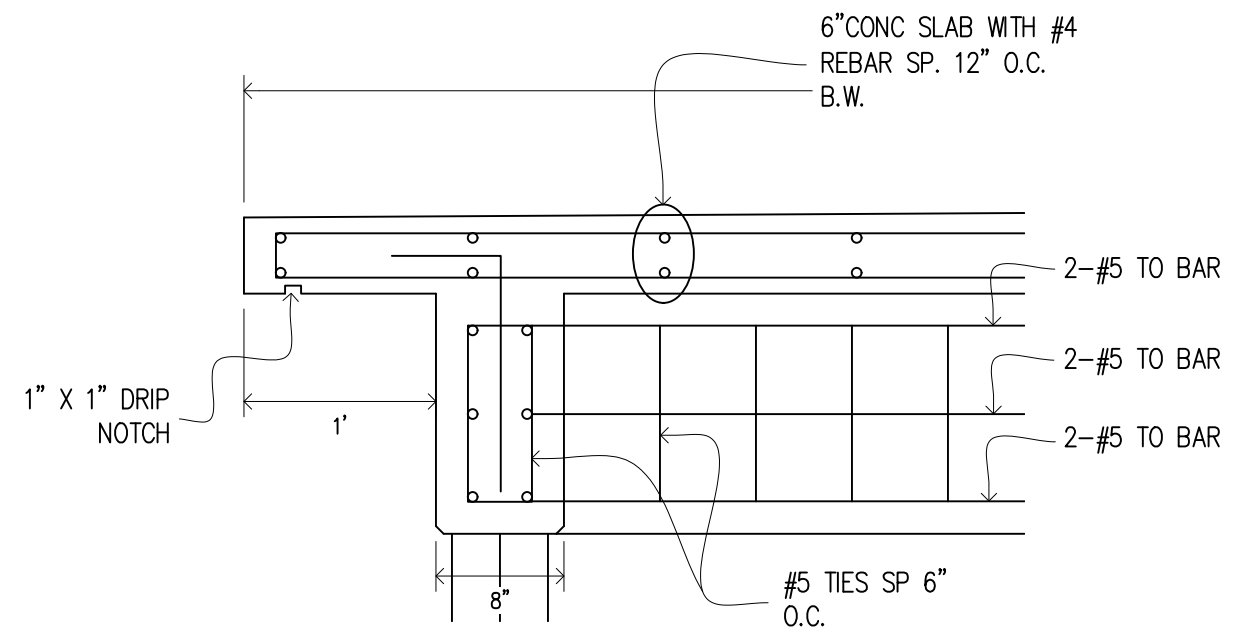


1 BS ROOF SLAB SECTION
C13 SCALE: 1: 2

INTERMEDIATE
PERMEATE TANK
PVC MOLDED
6.3' D X 6.7' H
5K LTRS



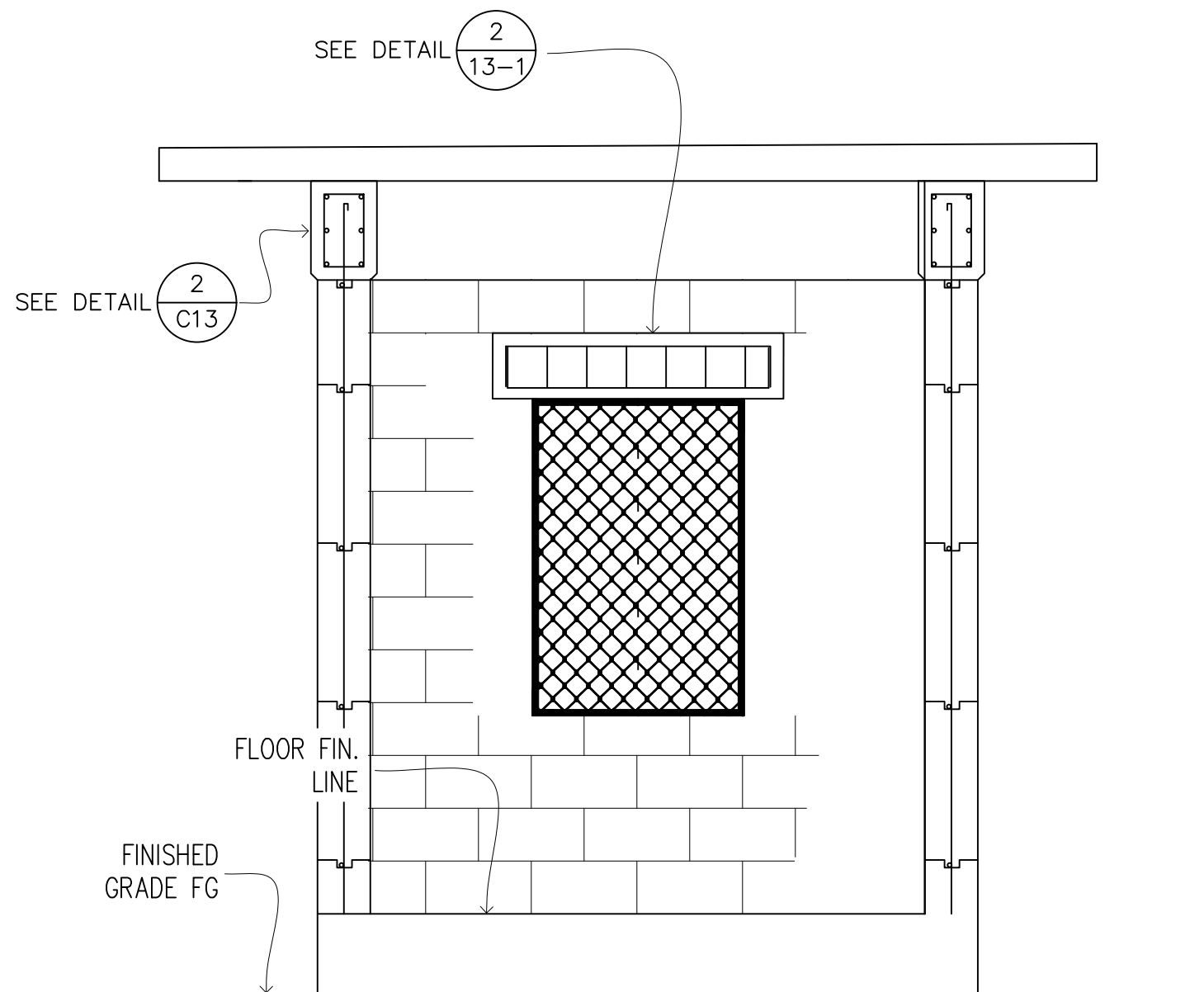
3 BS ROOF SLAB SECTION
C13 SCALE: 1: 2



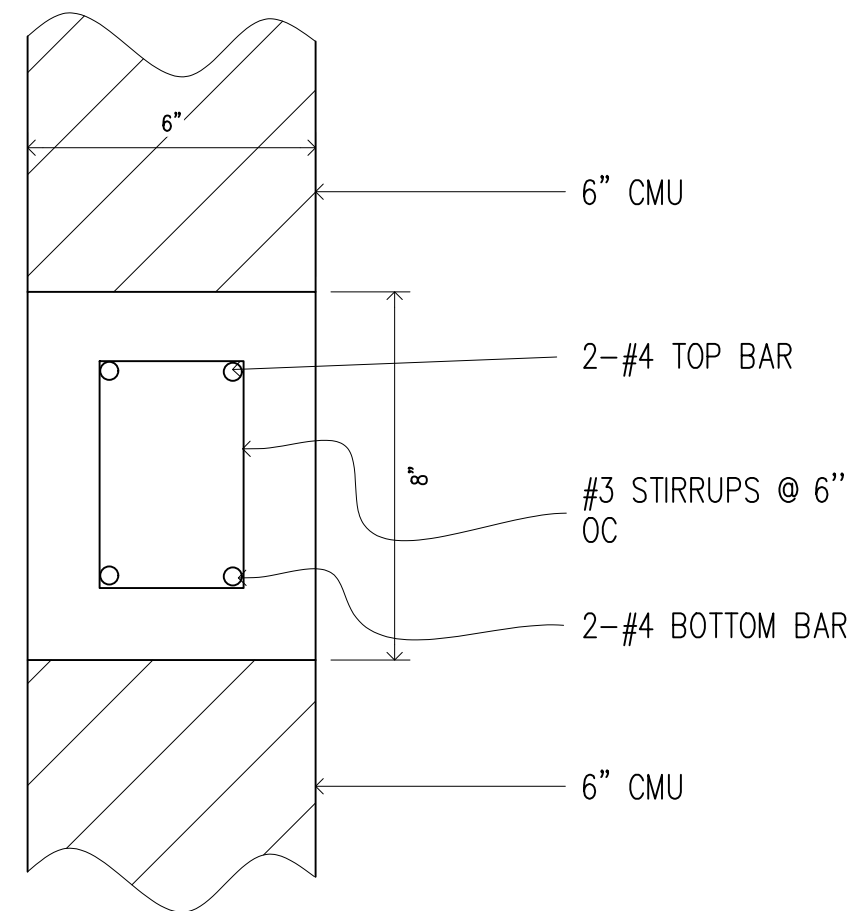
2 BS ROOF SLAB SECTION
C13 SCALE: 1: 1

1 BS ROOF SLAB SECTION
C13 SCALE: 1: 2

REV. NO.:	PREPARED BY: WATER ENGINEERING	 <p>ENGINEERING SERVICES DIVISION TAFUNA, AMERICAN SAMOA P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675 AMERICAN SAMOA POWER AUTHORITY</p>	PROJECT NAME: AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT	SCALE: AS SHOWN	PROJECT NO.:	
REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: ROOF SLAB, BEAM, INTERMEDIATE PERMEATE TANK SUPPORT SECTION			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C13	SIGNATURE: DATE:
APPROVED BY:	ISSUE FOR: CONSTRUCTION					
DATE:						



1 LINTEL BEAM TYP.
C13-1 SCALE: 1: 2



2 LINTEL BEAM SECTION
C13-1 SCALE: 3: 1

REV. NO.:	PREPARED BY: WATER ENGINEERING	 <p>ENGINEERING SERVICES DIVISION TAFUNA, AMERICAN SAMOA P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675</p>	PROJECT NAME: AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT	SCALE: AS SHOWN	PROJECT NO.:	
REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: LINTEL BEAM DETAIL			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C13-1	SIGNATURE: DATE:
APPROVED BY:	ISSUE FOR: CONSTRUCTION					
DATE:						

FINISH SCHEDULE

1. EXTERIOR FINISH

- 1.1. FLOOR SLAB OUTSIDE: – CEMENT BROOM FINISH
- 1.2. EXTERIOR WALL: BLOCK WALL TOOLED FINISHED, 1– COAT PRIMER, 2– COATS FINISH PAINT
- 1.3. SOFFIT CEILING: CEMENT SMOOTH FINISH PAINT FINISH, 1–COAT PRIMER 2– COATS FINISH PAINT INTERIOR

2. INTERIOR FINISH

- 2.1. FLOOR: CEMENT SMOOTH FINISH, PAINTED WITH 2–COATS EPOXY PAINT
- 2.2. WALL: CMU WALL TOOLED FINISHED, 1– COAT PRIMER, 2– COATS FINISH PAINT
- 2.3. BASE: 1–FOOT HIGH BASE PAINTED WITH 2–COATS EPOXY PAINT
- 2.4. CEILING: CEMENT SMOOTH FINISH PAINT FINISH, 1–COAT PRIMER 2– COATS FINISH PAINT INTERIOR. COLOR TO BE SELECTED BY PROJECT MANAGER

3.

REV. NO.:	PREPARED BY: WATER ENGINEERING	 <div>ENGINEERING SERVICES DIVISION TAFUNA, AMERICAN SAMOA P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675</div> <div>AMERICAN SAMOA POWER AUTHORITY</div>	PROJECT NAME: AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT	SCALE: AS SHOWN	PROJECT NO:	
REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: BUILDING FINISH SCHEDULE			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C13-2	SIGNATURE: DATE:
APPROVED BY:	ISSUE FOR: CONSTRUCTION					
DATE:						

GENERAL NOTES:

CONCRETE:

1. THE ENGINEER SHALL BE GIVEN 24 HRS NOTICE FOR REINFORCEMENT INSPECTION. CONCRETE SHALL NOT BE DELIVERED UNTIL FINAL APPROVAL HAS BEEN OBTAINED FOR THE REINFORCEMENT.
2. ALL CONCRETE SHALL HAVE THE WORKABILITY AND CONSISTENCY TO BE DEPOSITED INTO FORMS AND WORKED AROUND REINFORCEMENT WITHOUT AGGREGATION AND EXCESSIVE BLEEDING. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTING SHALL BE COMPACTED WITH MECHANICAL VIBRATION.
3. A MINIMUM OF THREE SAMPLES SHALL BE TAKEN FROM EACH DAY OF POUR FOR TESTING. TESTING SHALL BE CARRIED OUT AT 7 DAYS AND 28 DAYS. SLUMP NOT TO EXCEED 4".
4. INTERNAL FLOOR SHALL RECEIVE A STEEL TROWELED FINISH. EXTERNAL FOOTPATH SHALL HAVE BROOM FINISH TRANSVERSAL.
5. THE FINISH TOLERANCE OF CONCRETE FLOOR SLAB SHALL BE 1/4" IN 10 FT.
6. CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACE CONTINUOUSLY WET FOR A PERIOD OF SEVEN (7) DAYS. APPROVED CURING COMPOUND MAY BE USED WHERE NO FLOOR FINISH IS REQUIRED. POLYETHYLENE SHEETING MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.

FORMWORKS CONSTRUCTIONS:

1. FORMS SHALL CONFORM TO LINES AND DIMENSION OF THE MEMBER AS REQUIRED BY DESIGN DRAWING AND SPECIFICATION.

2. FORMS SHALL BE CONSTRUCTED BY THE FOLLOWING MATERIALS:
- | | |
|------------------|-----------------------------------|
| HIDDEN SURFACE | ROUGH SAWN OR BETTER TIMBER |
| EXPOSED SURFACES | PLYWOOD, DRESSED T & G, OR STEEL. |

DETAIL OF REINFORCEMENT:

1. ALL REINFORCEMENT SHALL BE BENT COLD. BENDING SHALL BE AS IN DESIGN.
2. ALL SPLICES SHALL BE MADE ONLY IN POSITION SHOWN ON THE DESIGN. MIN LAP LENGTH SHALL BE AS FOLLOWS:

#3	2 FEET
#4	2 FEET
#5	2'-1"
#6	2'-8"
#7	2'-11"
#8	3'-4"
MESH	6"

3. WELDING OF REINFORCEMENT IS NOT PERMITTED.

MASONRY:

1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF INTERNATIONAL BUILDING CODE (IBC) AND ACI 117-06.

2. MATERIALS:

MASONRY UNIT SHALL HAVE A MIN COMPRESSIVE STRENGTH AT 28 DAYS OF 1500 PSI. MORTAR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2,400 PSI in 48 hours. GROUT IN MASONRY CELL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI IN 28 DAYS. COLUMNS SHALL BE FILLED WITH STRUCTURAL CONCRETE SHALL BE CARRIED IN LIFTS NOT EXCEEDING 4 FEET HAVING A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. REINFORCING STEEL BAR SHALL CONFORM TO ASTM 615 GRADE 60.

3. HANDLING:

MASONRY MATERIALS SHALL BE STORED SO THAT AT TIME OF USE, THEY ARE CLEAN AND STRUCTURALLY SUITABLE FOR THE INTENDED USE.

ALL METAL REINFORCEMENT SHALL BE FREE FROM RUST AND OTHER COATING THAT WOULD AFFECT REINFORCING BOND. MORTAR AND GROUT MIXED AT THE JOBSITE SHALL BE MIXED FOR NOT LESS THAN 3 MINUTES AND NOT MORE THAN 10 MINUTES IN CONCRETE MIXER.

4. PLACING MASONRY UNIT:

MASONRY SHALL BE CONSTRUCTED IN RUNNING BOND PATTERNS THROUGHOUT. CONCRETE MASONRY UNIT SHALL BE WETTED DURING PLACEMENT. THE INITIAL BED JOINT SHALL NOT BE LESS THAN 1/4" IN THICKNESS OR MORE THAN 1" IN THICKNESS. SUBSEQUENT JOINT SHALL NOT BE LESS THAN 1/4" OR MORE THAN 1/2" IN THICKNESS.

5. GROUTED MASONRY:

REINFORCEMENT SHALL BE PLACED PRIOR TO GROUTING AND SECURED AGAINST DISPLACEMENT BY WIRE POSITIONERS OR OTHER SUITABLE MEANS. BOLTS SHALL BE ACCURATELY SET WITH TEMPLATE TO PREVENT DISLOCATION DURING GROUTING. CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE OF EVERY VERTICAL BAR AND SHALL BE SEALED BEFORE GROUTING. GROUTING SHALL BE CARRIED OUT IN LIFTS NOT EXCEEDING 4 FEET. ALL CELLS ARE TO BE GROUTED SOLID. GROUTING SHALL BE DONE BY MECHANICAL VIBRATION DURING PLACEMENT.

WOODS:

ALL WORKMANSHIP AND MATERIAL SHALL CONFORM WITH THE 2006 INTERNATIONAL BUILDING CODE.

MATERIAL

1. UNLESS OTHERWISE NOTED, TIMBER SHALL BE DOUGLAS FIR NO1 GRADE.

ALL TIMBER SHALL BE CCA TREATED TO 0.25 LBS/FT. IN ACCORDANCE WITH RELEVANT AWWA STANDARDS. A CERTIFICATE OF INSPECTION FROM A RECOGNIZED TIMBER INSPECTION BUREAU SHALL BE SUBMITTED WITH EACH SHIPMENT OF TIMBER.

2. PLYWOOD USED FOR STRUCTURAL SHALL BE CD PANEL GRADE IN ACCORDANCE WITH THE STANDARDS GRADING RULE OF WWPA. ALL PLYWOOD SHALL BE TREATED.

3. BOLTS SHALL BE ALL GENERAL PURPOSE BOLTS ASTM 307.
4. ALL NAILS, NAIL PLATES, BOLTS AND WASHERS SHALL BE HOT DIPPED GALVANIZED.

STORAGE OF MATERIAL:

TIMBER STORED ON THE WORK SITE SHALL BE KEPT IN ORDERLY STACKS ON SUPPORT AT LEAST 12" ABOVE THE GROUND SURFACE. THE MATERIAL SHALL BE PROTECTED FROM THE WEATHER BY A SUITABLE COVERING.

WORKMANSHIP:

the work should meet the highest level of quality THROUGHOUT. ALL TIMBER SHALL BE ACCURATELY CUT AND FRAMED TO FIT CLOSE IN SUCH A MANNER THAT THE JOINT SHALL HAVE BEARING

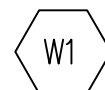
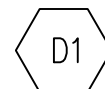
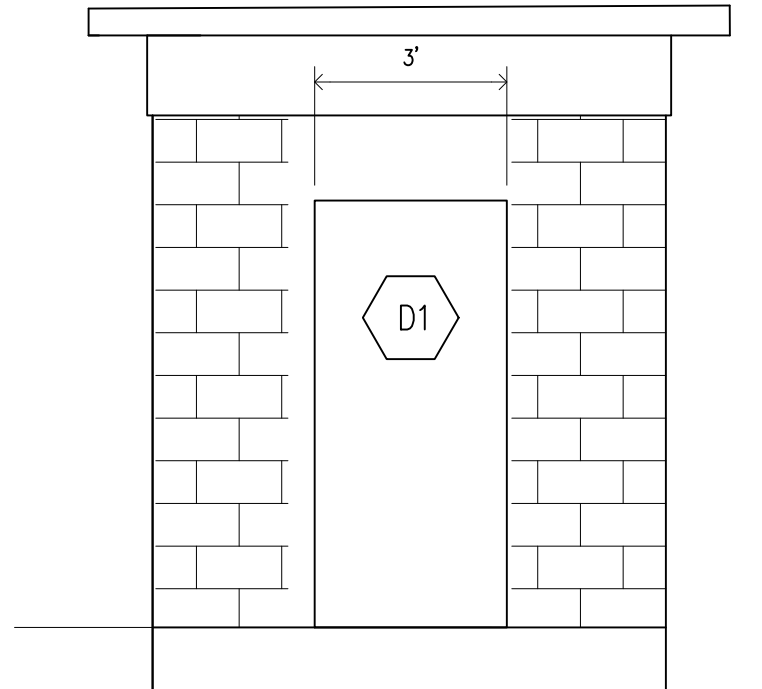
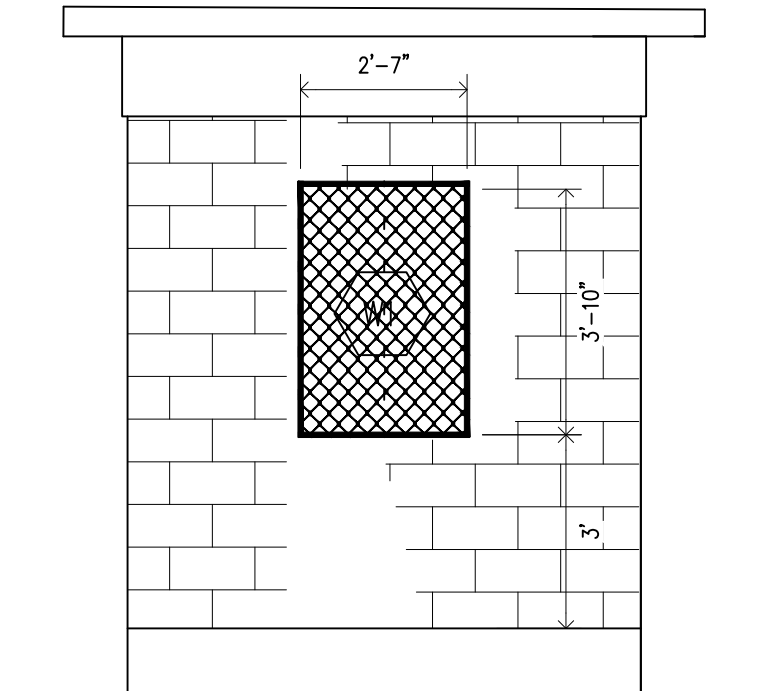
OVER THE CONTACT SURFACE. MORTISES SHALL BE TRUE TO SIZE FROM THEIR FULL DEPTH AND TENONS SHALL FIT SNUGLY. NO SHIMMING WILL BE PERMITTED IN MAKING JOINTS, NO OPEN JOINTS WILL BE ACCEPTED. UNLESS OTHERWISE SPECIFIED, NAILS SHALL BE DRIVEN WITH HEAD SET FLUSH WITH THE SURFACE OF THE WOOD.

BOLTS AND LAG SCREW:

1. HOLES AND BOLTS SHALL BE BORED WITH A BIT THE SAME DIAMETER AS THE BOLTS. HOLES FOR LAG SCREW SHALL BE BORED WITH A BIT NOT LARGER THAN THE BODY OF THE SCREW AT THE BASE OF THE THREAD.


2. WASHERS OF THE SIZE AND TYPE SPECIFIED SHALL BE USED UNDER ALL BOLTS HEADS AND NUTS.

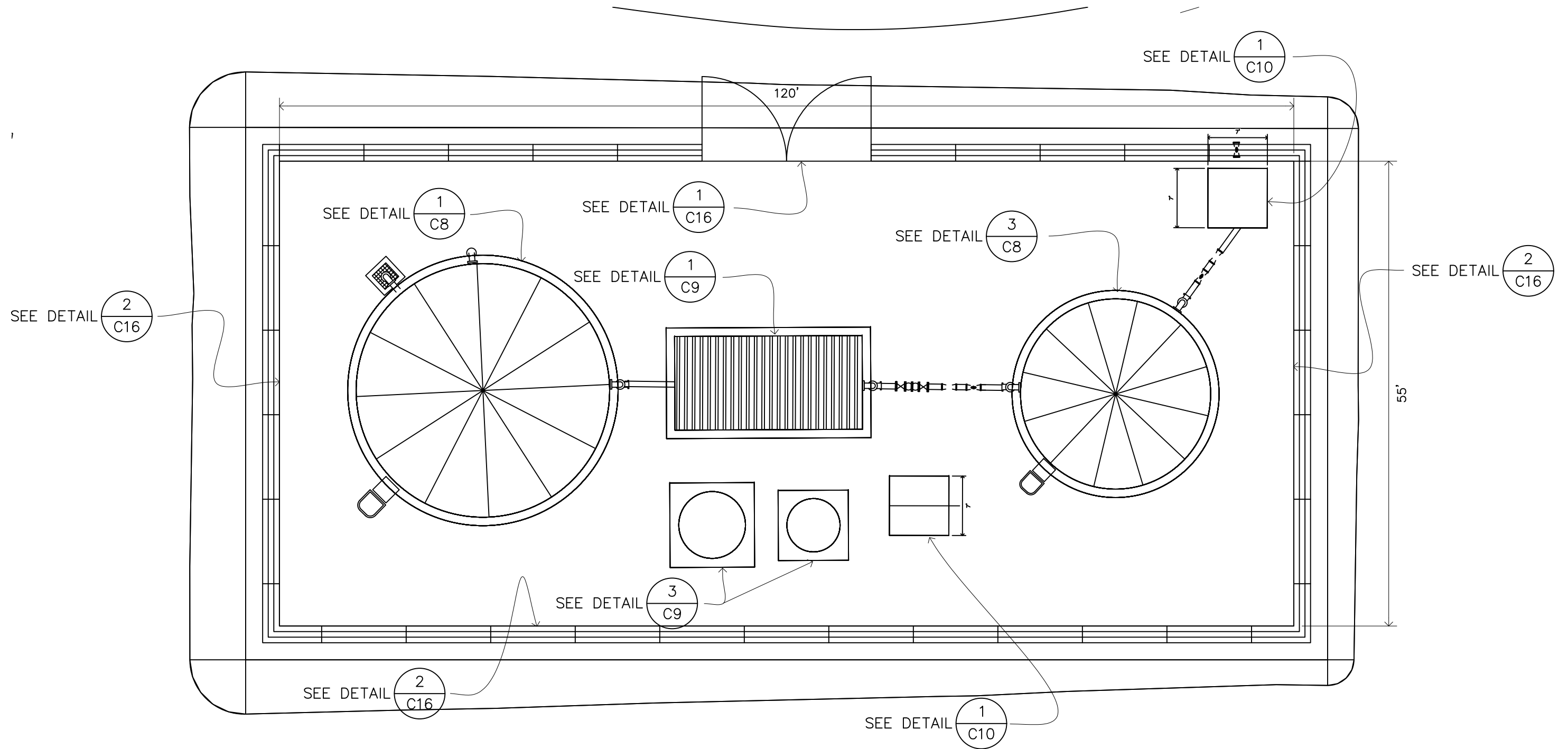
REV. NO.:	PREPARED BY: WATER ENGINEERING	 <p>ENGINEERING SERVICES DIVISION TAFUNA, AMERICAN SAMOA P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675</p> <p>AMERICAN SAMOA POWER AUTHORITY</p>	PROJECT NAME: AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT	SCALE: AS SHOWN	PROJECT NO:	
REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: GENERAL NOTES			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C13-3	SIGNATURE:
APPROVED BY:	ISSUE FOR: CONSTRUCTION					DATE:
DATE:						



- a. TYPE: FIXED CMU LAY HORIZONTALLY
b. COLOR: SAME AS WALL
c. SIZE: AS SHOWN
d. MOUNTING HEIGHT: AS SHOWN
e. GLASS: NO GLASS
f. OTHER: COMPLETE WITH ALUMINUM SECURITY GRILL (AMPLEMESH) WITH ALUMINUM INSECT SCREEN

- a. TYPE: ALUMINUM SWING DOOR
b. COLOR: BRONZE ANODIZED
c. SIZE: AS SHOWN
d. FRAME: ALUMINUM TO MATCH DOOR SYSTEM
e. LOCKS: AS SUPPLIED BY ALUMINUM FABRICATOR TO BE APPROVED BY THE PROJECT ENGINEER
f. CLOSER: AS SUPPLIED BY ALUMINUM FABRICATOR TO BE APPROVED BY THE PROJECT ENGINEER
g. HINGES: HEAVY DUTY, CONTINUES AS RECOMMENDED BY ALUMINUM FABRICATOR TO BE APPROVED BY THE PROJECT ENGINEER
h. GLASS- NO GLASS. DOOR MUST BE MADE TO RESIST 160MPH WIND VELOCITY

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REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: DOOR AND WINDOW SCHEDULE			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C13-4	SIGNATURE:
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1 FENCE PLAN LAYOUT
C14 SCALE: 1: 12

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REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: FENCE PLAN LAYOUT				
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APPROVED BY:	ISSUE FOR: CONSTRUCTION						
DATE:							

SPECIFICATIONS

1. CHAIN LINK FENCING:

(A) GENERAL.

UNLESS STATED OTHERWISE, ALL MATERIALS FOR CHAIN LINK FENCING AND GATES, ABOVE AND BELOW GROUND, SHALL BE PVC COATED AS SPECIFIED IN THE CURRENT ASTM F 668.

(B) POSTS

ALL POSTS SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A 36-INCH MINIMUM SETTING IN CONCRETE FOOTINGS, AT A DEPTH AND SPACING SPECIFIED ON THE PLANS. POSTS SHALL BE SET AT A MINIMUM SPACING OF 10' O.C. POSTS SHALL BE IN PROPER ALIGNMENT SO THAT THERE IS A MINIMUM OF 4" ON ALL SIDES OF THE POST. NO MATERIAL SHALL BE INSTALLED ON THE POST NOR SHALL THE POST BE DISTURBED IN ANY MANNER WITHIN 7 DAYS AFTER THE INDIVIDUAL POST FOOTING IS COMPLETED. SHOULD ROCK BE ENCOUNTERED AT A DEPTH LESS THAN THE PLANNED FOOTING DEPTH A HOLE 2" LARGER THAN GREATEST DIMENSION OF THE POST SHALL BE DRILLED TO A DEPTH OF 12". NO EXTRA COMPENSATION SHALL BE MADE FOR ROCK EXCAVATION.

(1) ALL POSTS SHALL BE PVC COATED STEEL, 35 PERCENT MINIMUM CARBON CONTENT, 60,000 POUNDS PER SQUARE INCH MINIMUM TENSILE STRENGTH (SCHEDULE 40).

(2) LINE POSTS SHALL BE 2-3/8 INCH O.D. PIPE WEIGHING 3.65 POUNDS PER LINEAR FOOT OR 2 INCH X 2-1/4 INCH H SECTION WEIGHING 4.10 POUNDS PER LINEAR FOOT UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

(3) END, CORNER AND PULL POSTS SHALL BE 2-7/8 INCH O.D. PIPE WEIGHING 5.79 POUNDS PER LINEAR FOOT UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

(4) GATE POSTS. FOR SINGLE GATE OR ONE LEAF OF DOUBLE GATES:

(AA) UP TO 6 FEET WIDE. 3 INCH O.D. PIPE WEIGHT 5.79 POUNDS PER LINEAR FOOT UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

(AB) 6 FEET TO 15 FEET WIDE. 4 O.D. PIPE WEIGHING 9.11 POUND PER LINEAR FOOT.

(5) POST TOPS. TUBULAR POST TOPS DESIGNED TO PREVENT MOISTURE FROM ENTERING POSTS AND TO SUPPORT TOP RAIL.

(C) TOP RAILS.

(1) 1-1/2 INCH I.D. PVC COATED STEEL PIPE WEIGHING 2.27 POUNDS PER LINEAR FOOT.

(2) PROVIDED WITH PVC COATED, OUTSIDE SLEEVE, SELF-CENTERING 7-INCH LONG COUPLINGS APPROXIMATELY EVERY 20 FEET.

(D) HORIZONTAL BRACES.

(1) BRACES SHALL BE 1-1/2 INCH I.D. PVC COATED STEEL PIPE WEIGHING 2.27 POUNDS PER LINEAR FOOT WITH PLAIN ENDS.

(E) DIAGONAL BRACES.

(1) DIAGONAL BRACES SHALL BE 3/8 O.D. INCH DIAMETER GALVANIZED STEEL RODS OR AS SPECIFIED ON DRAWING.

(2) DIAGONAL BRACES SHALL BE PROVIDED WITH HEAVY GALVANIZED IRON TURNBUCKLES TO ADJUST THE TENSION.

(F) FENCE FABRIC.

(1) WIRE. 9 GAUGE GALVANIZED STEEL WIRE, OF MEDIUM HIGH CARBON QUALITY, MINIMUM TENSILE STRENGTH OF 70,000 POUNDS PER SQUARE INCH, INTERWOVEN INTO 2 INCH DIAMOND MESH.

(2) FABRIC. 72 INCHES WIDE, SELVAGE SHALL BE KNUCKLED AT BOTTOM AND TWISTED AND BARBED AT TOP.

(G) BARBED WIRE

GALVANIZED BARBED WIRE SHALL BE 10 GAUGE WITH 10 GAUGE BARBS. ALL BARBS SHALL BE 4 POINTS AND SPACING OF BARBS SHALL BE 4 TO 6 INCHES.

(H) FABRIC CONNECTIONS AND INSTALLATION.

(1) TERMINAL POST SHALL BE FASTENED BY 3/16 INCH X 3/4 INCH STAINLESS STEEL STRECHER BARS WITH 11 GAUGE STAINLESS STEEL OR ALUMINUM BANDS UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

(2) ALL LINE POSTS SHALL BE FASTENED WITH 9 STAINLESS STEEL OR ALUMINUM WIRE CLIPS WIRE CLIPS UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

(3) ALL TOPRAILS SHALL BE FASTENED WITH 9 GAGE STAINLESS STEEL OR ALUMINUM TIE WIRES

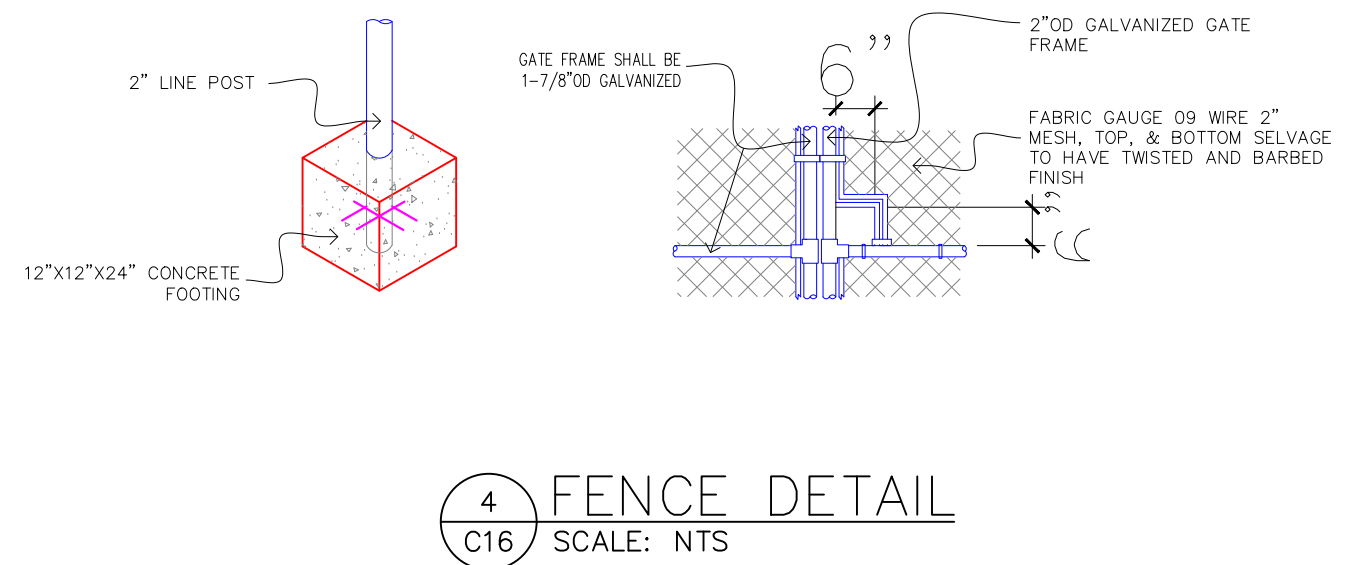
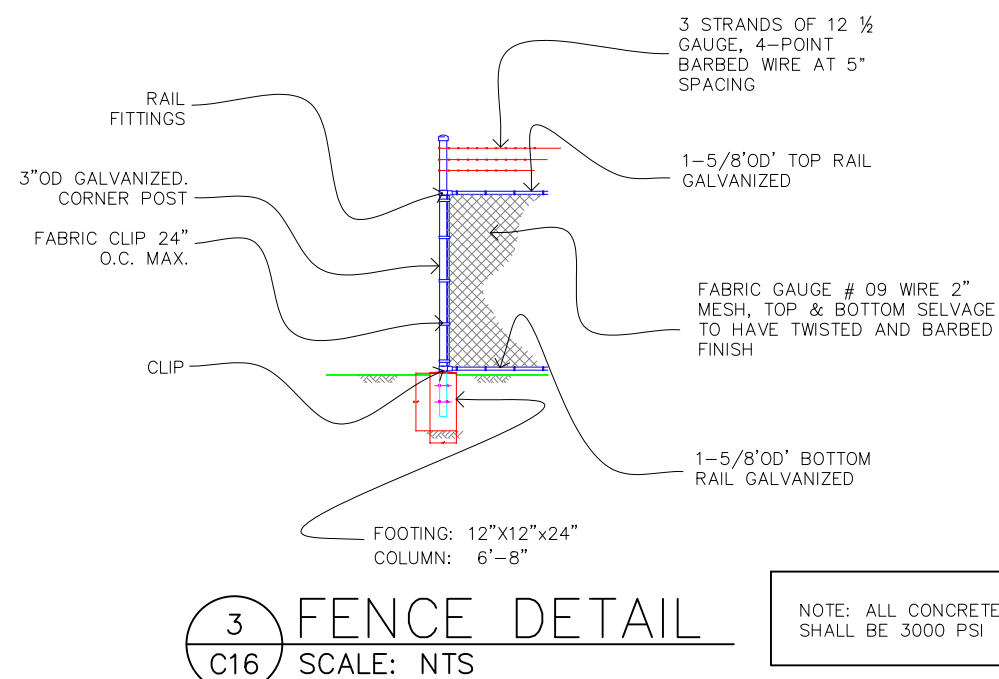
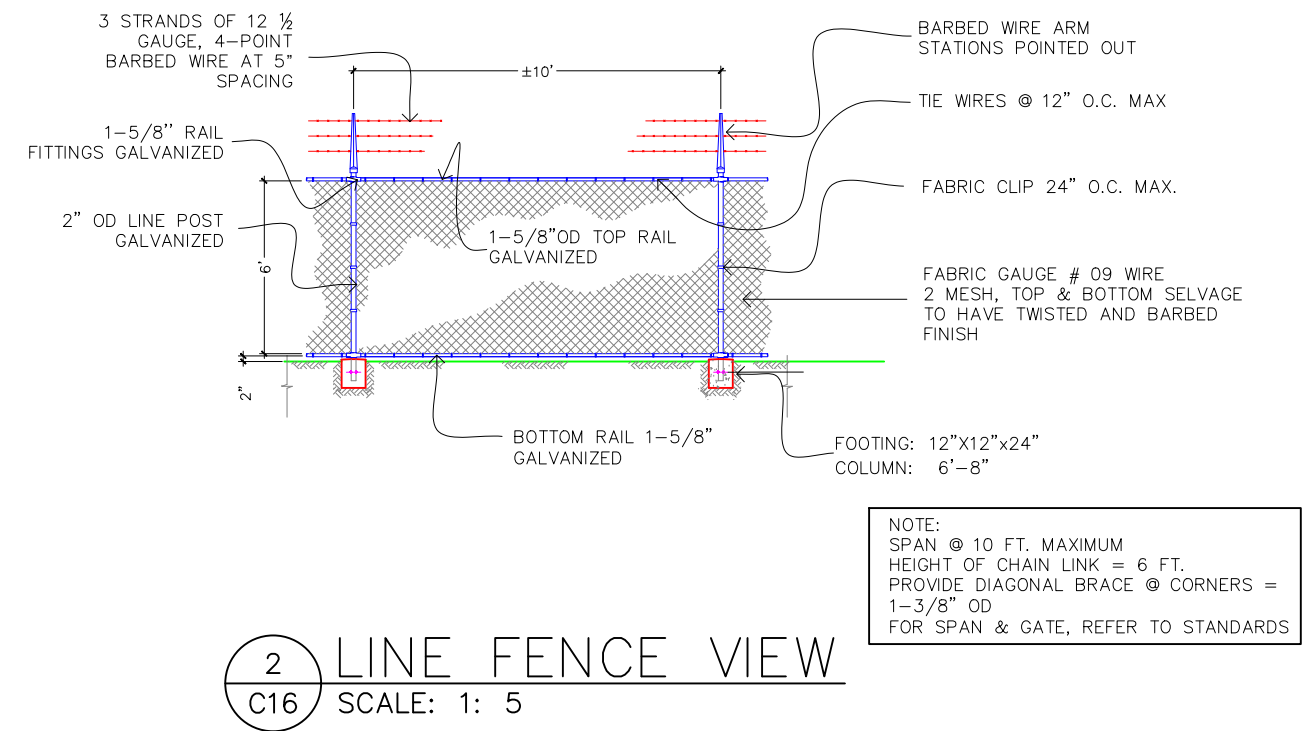
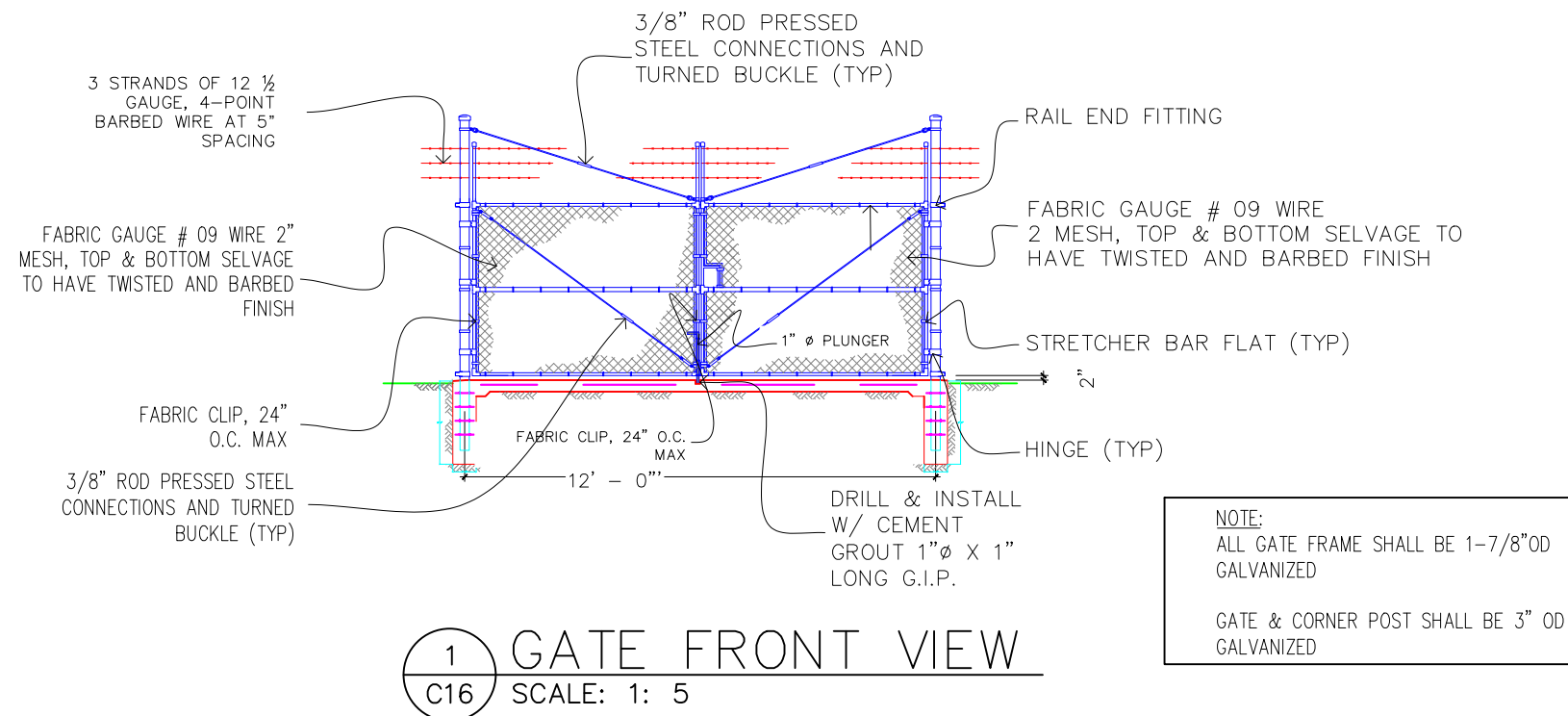
(4) THE BOTTOM EDGE OF THE FABRIC SHALL BE FASTENED BY 1/8 INCH PVC GALVANIZED TENSION BARS WITH 11 GAGE STAINLESS STEEL OR ALUMINUM BANDS UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

(5) THE FENCE SHALL GENERALLY FOLLOW THE CONTOUR OF THE GROUND, WITH THE BOTTOM OF THE FENCE NO MORE THAN 2" FROM GROUND SURFACE. AT LOCATIONS OF SMALL NATURAL SWALES AND WHERE IT IS NOT PRACTICAL TO HAVE THE FENCE CONFORM TO THE GENERAL CONTOUR OF GROUND SURFACE, LONGER POST MAY BE USED AND MULTIPLE STRANDS OF BARBED WIRE STRETCHED THEREON TO SPAN THE OPENING BELOW FENCE. VERTICAL CLEARANCE BETWEEN STRANDS OF BARBED WIRE SHALL BE 4" OR LESS.

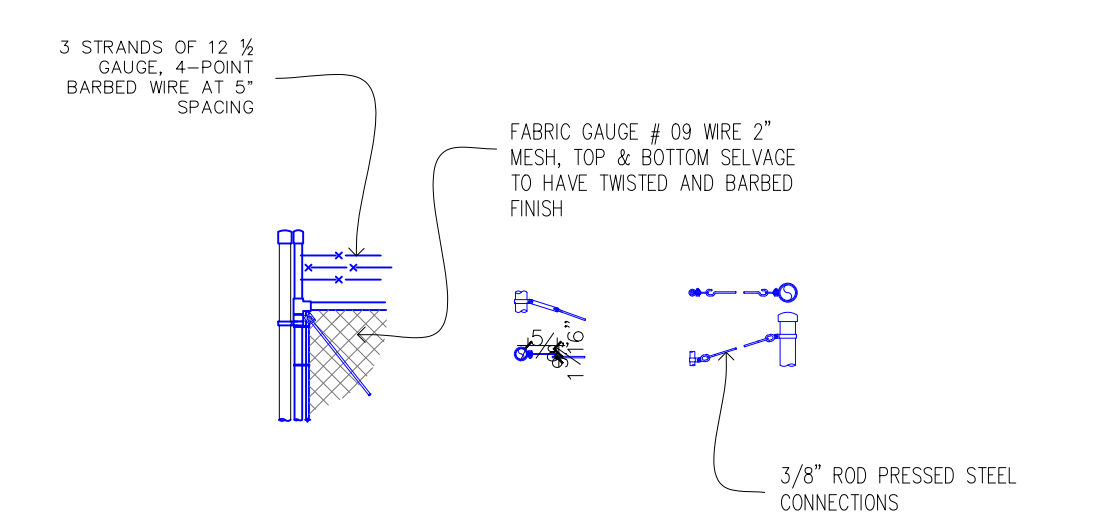
(I) CONCRETE.

CONCRETE SHALL BE OF A COMMERCIAL GRADE WITH A MIN 28-DAY COMPRESSION STRENGTH OF 2500PSI. ALL CONCRETE SHALL BE PLACED AGAINST SOLID, UNDISTURBED OR RE-COMPACTED 95% FILL MATERIALS. ALL AGGREGATES SHALL COMPLY WITH LATEST ACI REQUIREMENTS. CEMENT SHALL BE TYPE II PORTLAND. CONCRETE MIX DESIGN (PROPORTION) SHALL BE SUBMITTED TO ASPA FOR APPROVAL PRIOR TO ANY CONCRETE PLACEMENT.

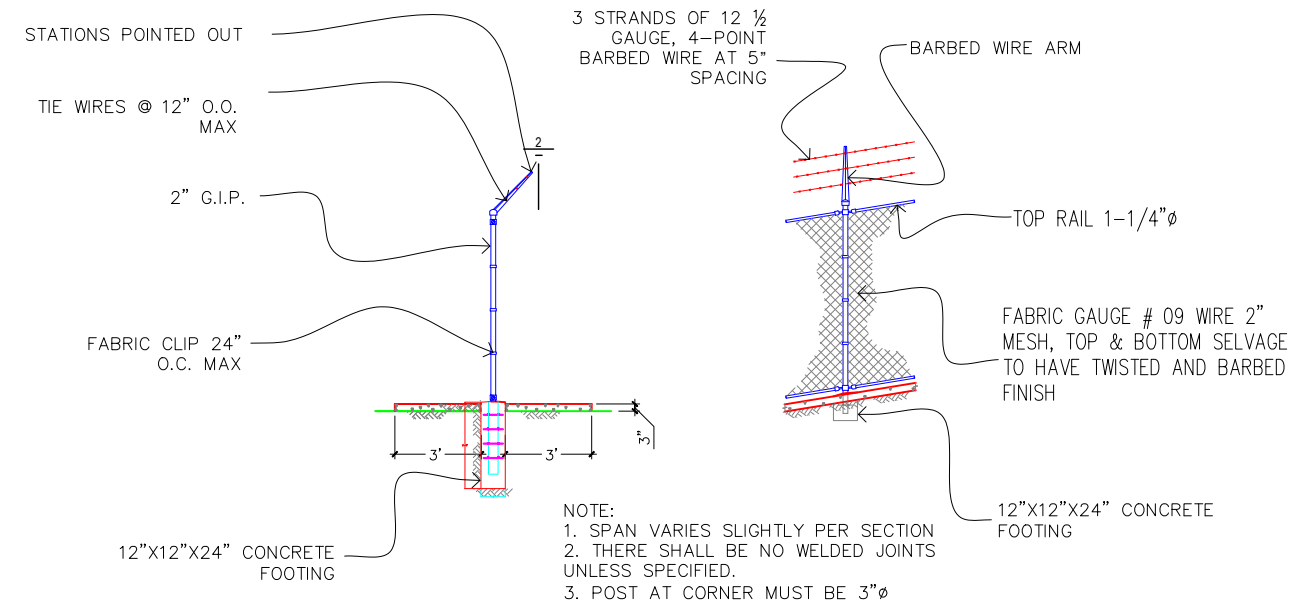
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REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: FENCE SPECIFICATIONS			
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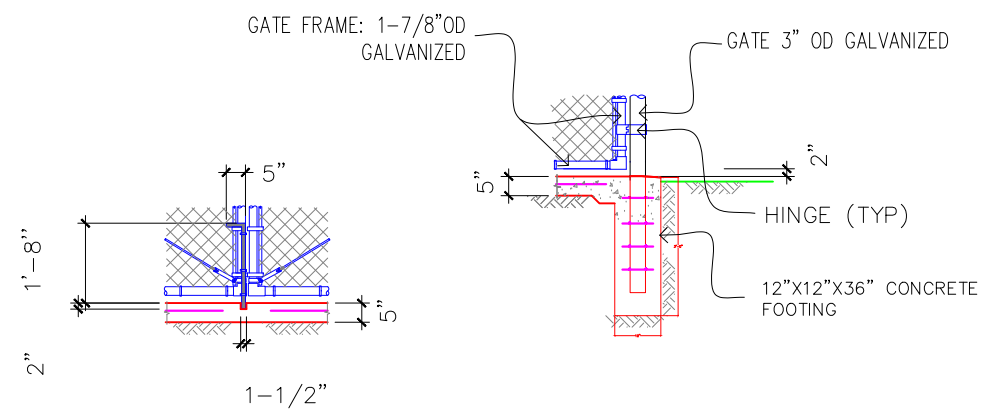
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REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: FENCE MISCELLANEOUS DETAIL			
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1 FENCE DETAIL
C17 SCALE: NTS



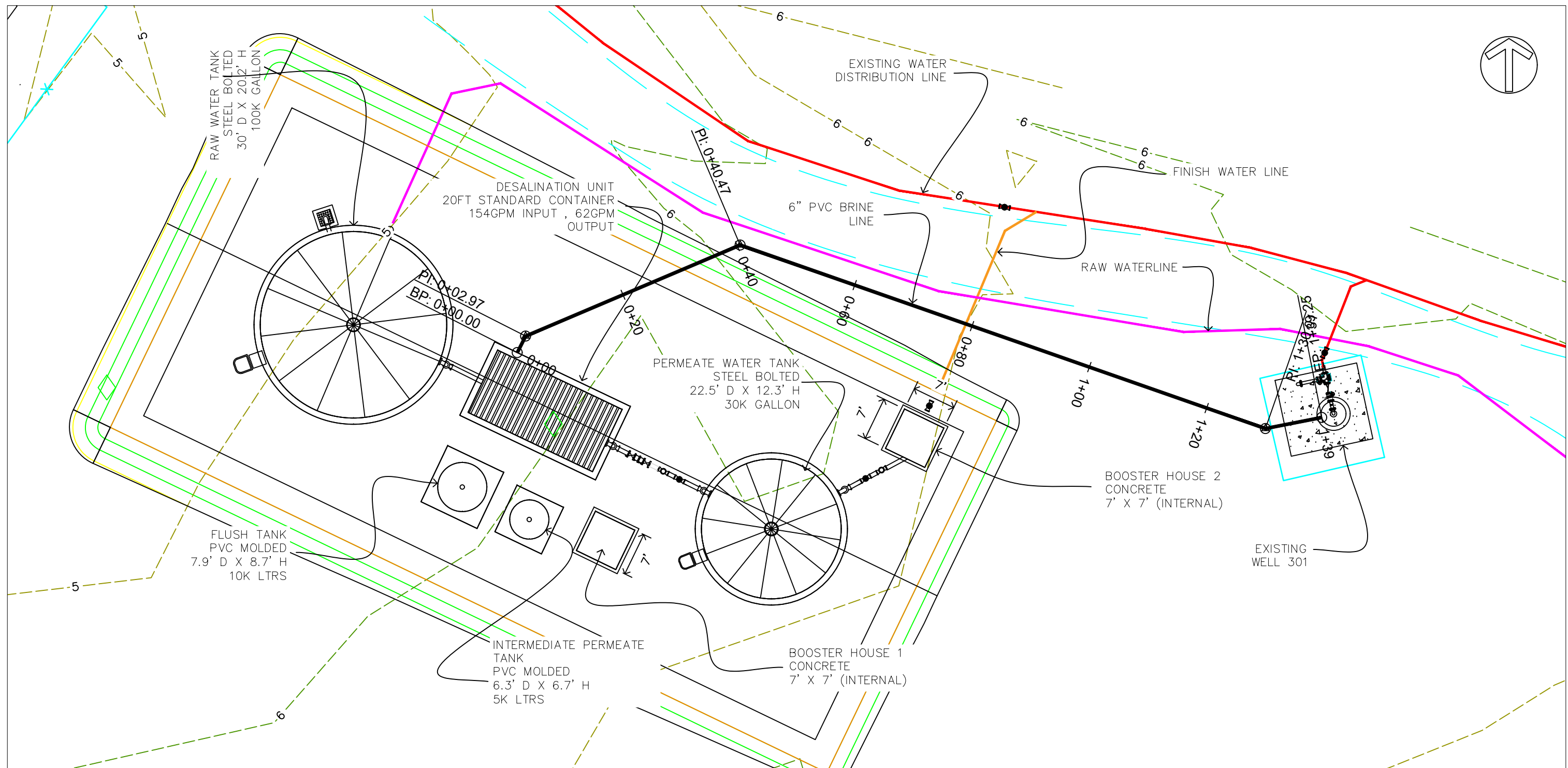
2 FENCE DETAIL
C17 SCALE: 1: 5



3 FENCE DETAIL
C17 SCALE: NTS

1 VIEW TITLE
Scale: 1:50

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REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: FENCE MISCELLANEOUS DETAIL			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. C17	SIGNATURE: DATE:
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1 BRINE WATER DISPOSAL PLAN
BR1 SCALE: 1: 16

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REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: BRINE WATER PIPING PLAN			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION: AUNUU VILLAGE, AMERICAN SAMOA	DATE: SEPT2025	SHEET NO. BR1	SIGNATURE: DATE:
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AUNUU DESALINATION PROJECT – BRINE DISPOSAL
CONSTRUCTION NOTES

1. PURPOSE AND SCOPE

THESE CONSTRUCTION NOTES OUTLINE THE DESIGN INTENT, ENVIRONMENTAL SAFEGUARDS, AND CONSTRUCTION PROCEDURES FOR THE BRINE DISPOSAL SYSTEM ASSOCIATED WITH THE NEW 62 GPM AUNUU DESALINATION PLANT. THE PLAN ENSURES THAT BRINE GENERATED FROM DESALINATION OPERATIONS IS MANAGED SAFELY AND SUSTAINABLY, WITH ALL MEASURES GUIDED BY FINDINGS AND MITIGATION REQUIREMENTS IDENTIFIED THROUGH THE ENVIRONMENTAL ASSESSMENT (EA) CONDUCTED FOR THE PROJECT.

THIS NOTES SERVES AS A TECHNICAL BASIS FOR COMPLIANCE WITH ASEPA, EPA UNDERGROUND INJECTION CONTROL (UIC) STANDARDS, AND ANY CONDITIONS ARISING FROM ENVIRONMENTAL REVIEW PROCESSES.

2. BACKGROUND

THE EXISTING DUG WELLS OF THE AUNUU PUBLIC WATER SYSTEM (PWS) HAVE BEEN COMPROMISED BY:

- ELEVATED CHLORIDE CONCENTRATIONS,
- EVIDENCE OF FECAL CONTAMINATION, AND
- KING TIDE IMPACTS RENDERING WATER UNPALATABLE AND NON–POTABLE.

GIVEN THESE PERSISTENT WATER QUALITY CHALLENGES, ASPA INTENDS TO PERMANENTLY ABANDON THE EXISTING WELLS AND TRANSITION TO DESALINATION AS THE ISLAND’S SUSTAINABLE AND RESILIENT POTABLE WATER SOURCE.

THE ENVIRONMENTAL ASSESSMENT IDENTIFIED BRINE MANAGEMENT AS A KEY POTENTIAL IMPACT AREA, PARTICULARLY REGARDING GROUNDWATER QUALITY, MARINE DISCHARGE RISK, AND CUMULATIVE HYDROLOGIC EFFECTS. THESE CONSTRUCTION NOTES DIRECTLY INCORPORATE EA MITIGATION MEASURES TO MINIMIZE THOSE RISKS.

3. BRINE DISPOSAL METHOD

THE DESALINATION PROCESS WILL GENERATE CONCENTRATED SALINE EFFLUENT (BRINE) AS A BYPRODUCT. THE SELECTED DISPOSAL METHOD IS SUBSURFACE BRINE DISCHARGE TO THE UNUSED WELL 301 VIA A DEDICATED BRINE INJECTION WELL SYSTEM.

THIS METHOD WAS APPROVED AND SUPPORTED BY THE ENVIRONMENTAL ASSESSMENT, WHICH DETERMINED IT TO BE THE LEAST–IMPACT ALTERNATIVE AMONG EVALUATED OPTIONS (MARINE DISCHARGE, SURFACE INFILTRATION, OR OFF–ISLAND TRANSPORT).

KEY DESIGN FEATURES:

- USE OF EXISTING WELL 301:
 - UTILIZE WELL 301 AS THE DESIGNATED BRINE DISCHARGE POINT TO MINIMIZE NEW GROUND DISTURBANCE.
- CONFIRM WELL INTEGRITY AND SUITABILITY THROUGH INSPECTION AND HYDRAULIC TESTING.
- RETROFIT WELL 301 WITH CORROSION–RESISTANT CASING EXTENSIONS, SEALED JOINTS, AND SAMPLING PORTS FOR PERIODIC MONITORING.
- DISCHARGE ZONE SELECTION:

- UTILIZE THE EXISTING SCREENED INTERVAL OF WELL 301 WHILE ENSURING HYDRAULIC SEPARATION FROM ACTIVE POTABLE WELLS.
- VERIFY THAT INJECTION DEPTH REMAINS BELOW THE FRESHWATER LENS AND ISOLATED FROM THE COMMUNITY WATER SUPPLY ZONE.

• ENVIRONMENTAL SAFEGUARDS:

- ALL CONSTRUCTION AND DISCHARGE ACTIVITIES TO ADHERE TO EA MITIGATION MEASURES, INCLUDING GROUNDWATER PROTECTION, SPILL PREVENTION, AND CONSTRUCTION TIMING TO AVOID ADVERSE TIDAL INFLUENCES.
- GROUNDWATER MONITORING WELLS WILL BE USED TO VERIFY THAT CHLORIDE MIGRATION REMAINS WITHIN MODELED LIMITS.

4. CONSTRUCTION SEQUENCE

1. MOBILIZATION AND ENVIRONMENTAL SETUP
 - ESTABLISH EROSION AND SEDIMENT CONTROLS PER EA MITIGATION CHECKLIST.
 - DESIGNATE ENVIRONMENTAL COMPLIANCE OFFICER TO OVERSEE CONSTRUCTION ACTIVITIES.
2. WELL REHABILITATION AND MODIFICATIONS
 - CONDUCT BOREHOLE LOGGING AND INTEGRITY ASSESSMENT OF WELL 301.
 - CLEAN AND SEAL AS NEEDED TO PREVENT VERTICAL MIGRATION.
 - RETROFIT WITH REQUIRED FITTINGS, VALVES, AND SAMPLING LINES.
3. SYSTEM INTEGRATION AND TESTING
 - CONNECT DESALINATION RO REJECT LINE TO WELL 301 DISCHARGE MANIFOLD.
 - PERFORM CONTROLLED DISCHARGE TESTING WITH REAL–TIME SALINITY AND PRESSURE OBSERVATION.
 - VERIFY NO HYDRAULIC RESPONSE IN NEARBY FRESHWATER WELLS.
4. ENVIRONMENTAL VERIFICATION AND REPORTING
 - CONDUCT PRE–OPERATION GROUNDWATER QUALITY BASELINE TESTING.
 - SUBMIT RESULTS TO ASEPA AND EPA REGION IX IN ACCORDANCE WITH EA AND UIC PERMIT REPORTING REQUIREMENTS.
5. ENVIRONMENTAL ASSESSMENT AND REGULATORY COMPLIANCE

ENVIRONMENTAL PROTECTION IS THE CORNERSTONE OF THIS BRINE DISPOSAL PLAN. THE ENVIRONMENTAL ASSESSMENT FOR THE AUNUU DESALINATION PROJECT IDENTIFIED BRINE DISPOSAL AS A POTENTIAL AREA OF ENVIRONMENTAL SENSITIVITY DUE TO AUNUU’S SMALL ISLAND HYDROGEOLOGY AND LIMITED FRESHWATER LENS.

ENVIRONMENTAL ASSESSMENT COMMITMENTS:

- NO ADVERSE IMPACT TO DRINKING WATER SOURCES: MODELING AND TEST RESULTS CONFIRMED THAT BRINE DENSITY AND VOLUME WILL REMAIN CONFINED BELOW THE FRESHWATER INTERFACE.
- GROUNDWATER QUALITY MONITORING: INSTALLATION OF SENTINEL WELLS AROUND WELL 301 TO TRACK CHLORIDE LEVELS AND ENSURE LONG–TERM AQUIFER PROTECTION.
- AVOIDANCE OF SURFACE OR MARINE DISCHARGE:

BY UTILIZING AN EXISTING WELL, SURFACE AND COASTAL ECOSYSTEMS ARE FULLY PROTECTED FROM SALINE EXPOSURE.

- PERIODIC REPORTING AND TRANSPARENCY: ASPA SHALL PROVIDE QUARTERLY UPDATES TO ASEPA DETAILING DISCHARGE VOLUMES, SALINITY DATA, AND COMPLIANCE FINDINGS.

REGULATORY COMPLIANCE MEASURES:

- ALL DESIGN AND OPERATION OF THE BRINE DISCHARGE SYSTEM WILL COMPLY WITH EPA CLASS V UNDERGROUND INJECTION CONTROL (UIC) REQUIREMENTS.
- CONSTRUCTION AND OPERATION WILL PROCEED ONLY UNDER ASEPA–REVIEWED PLANS AND APPROVALS.
- ANY DEVIATIONS FROM EA MITIGATION CONDITIONS WILL TRIGGER IMMEDIATE REVIEW AND CORRECTIVE ACTION.

6. CONTINUITY OF WATER SERVICE

DURING THE TRANSITION:

- ASPA WILL MAINTAIN LIMITED OPERATION OF EXISTING WELLS (AT CONSUMER’S RISK) UNTIL DESALINATION COMMISSIONING.
- BILLING SUSPENSION FOR WATER FROM ABANDONED WELLS WILL BEGIN UPON OFFICIAL ASEPA ACKNOWLEDGMENT OF ABANDONMENT.

THIS ENSURES UNINTERRUPTED WATER SERVICE TO AUNUU RESIDENTS WHILE PROTECTING PUBLIC HEALTH AND ENVIRONMENTAL INTEGRITY IN FULL ACCORDANCE WITH THE ENVIRONMENTAL ASSESSMENT’S MITIGATION COMMITMENTS.

REV. NO.:	PREPARED BY: WATER ENGINEERING	<div><div>ENGINEERING SERVICES DIVISION TAFUNA, AMERICAN SAMOA P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675</div></div> <div>AMERICAN SAMOA POWER AUTHORITY</div>	PROJECT NAME: AUNUU DESALINATION 154GPM INPUT 62GPM OUTPUT	SCALE: AS SHOWN	PROJECT NO:	
REVISION:	CHECKED BY: WATER ENGINEERING		DRAWING TITLE: BRINE WATER DISPOSAL NOTES			
CHECKED BY:	APPROVED BY: W SWORD P.E.		PROJECT LOCATION:	DATE:	SHEET NO.	SIGNATURE:
APPROVED BY:	ISSUE FOR:		AUNUU VILLAGE, AMERICAN SAMOA	SEPT2025	BR3	DATE:
DATE:	CONSTRUCTION					