



**COUNTY OF HUMBOLDT**  
**PLANNING AND BUILDING DEPARTMENT**

3015 H Street • Eureka CA 95501  
Phone: (707) 445-7541 • Fax: (707) 268-3792

Hearing Date: June 18, 2020

To: Humboldt County Planning Commission

From: John H. Ford, Director of Planning and Building Department

Subject: **Weott Community Service District Water Tank Replacement and Water Treatment Improvements**  
Case Number PLN-2019-16007  
Assessor's Parcel Numbers 095-161-004; 095-171-001  
123 Spring St, Weott Area

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Please contact Zsafia Odry, Planner, at (707) 268-3727 or email at [zodry1@co.humboldt.ca.us](mailto:zodry1@co.humboldt.ca.us) if you have any questions about the scheduled public hearing item.

## AGENDA ITEM TRANSMITTAL

Hearing Date	Subject	Contact
June 18, 2020	General Plan Conformance	Zsafia Odry

**Project Description:** An application for a General Plan Conformance (GPC) review for the Weott Community Services District (CSD) CSD for replacing a water tank on APN 095-161-004 and for water treatment plant improvements on APN 095-171-001. The project includes replacing an existing 76,000-gallon concrete block water tank with two [2] new steel tanks with combined capacity of up to 365,282 gallons, replacing interior treatment plant components and replace or add exterior piping and valving at existing developed sites, make improvements to the existing manmade backwash discharge pond, and replace and/or add storage sheds and generator containment. The proposed work will increase water storage capacity but does not propose an increase in the service area, water withdrawals, or water entitlements.

**Project Location:** The project is located in Humboldt County, in the Weott area, on the northwest side of Newton Road, approximately 3,500 feet east from the intersection of Newton Road and Highway 101, on the property known to be in Section 2 of Township 02 South, Range 02 East, Humboldt Base & Meridian.

The project is also located in Humboldt County, in the Weott area, on the east side of Spring Street, approximately 140 feet east from the intersection of Newton Road and Spring Street, on the property known as 123 Spring Street.

**Present Plan Land Use Designations:** Public Facilities (PF); and Residential Low Density (RL); Slope Stability: Moderate Instability (2)

**Present Zoning:** Weott Community Service; and Residential One-Family (R-1)

**Case Number:** PLN-2019-16007

**Assessor's Parcel Number:** 095-161-004; 095-171-001

**Applicant**

Attn: Gary Neumann  
Weott Community Service District  
P.O. Box 218  
Weott, CA 95571-0218

**Owner**

Same as applicant

**Agent**

Stein Coriell, AICP  
SHN Engineering  
1062 G st., Suite I  
Arcata, CA 95521

**Environmental Review:** General Plan conformance review pursuant to Government Code Section 65402(a) is not a project pursuant to the California Environmental Quality Act.

**Major Issues:** None

**State Appeal Status:** Project is NOT appealable to the California Coastal Commission

## WEOTT COMMUNITY SERVICE DISTRICT GENERAL PLAN CONFORMANCE REVIEW

Case No. 2019-PLN-16007

Assessor's Parcel Number 095-161-004; 095-171-001

A report on conformance with the general plan is required under California Government Code Section 65402 when a local agency acts to acquire or dispose of real property or intends to construct a new public building or structure. The applicable code is included as Attachment 3 to this staff report.

**Executive Summary:** The Weott Community Services District (CSD) has requested a general plan conformance review for their intent to replace the existing water storage tank on APN 095-161-004, and replace the existing water treatment plant and associated infrastructure, as well as make improvements to the existing manmade backwash discharge pond on APN 095-171-001.

The proposed work on APN 095-161-004 includes the removal of the existing 76,000-gallon rectangle concrete masonry block water storage tank and replacement with two new steel tanks with a combined capacity of up to 365,282 gallons. The proposed increase in water storage capacity is to meet 3-day demand recommendations and does not include an increase in the District's service area, water withdrawals, or customer water entitlements. The District's water services are expected to be available during the proposed construction, with the potential of up to 3 brief interruptions of up to 4 hours long, to facilitate updating transmission and distribution lines from the new storage tank to the active water system.

Materials and equipment will be staged within the existing developed cut/fill pad. Construction equipment for tank replacement and associated site work will include excavator, loader, dump truck, roller, hand tamper, concrete truck, fork lift, mobile crane, and hand tools. Access will be from the existing site access off Newton Road. Materials and equipment will be staged within the existing developed cut/fill pads.

The proposed work on APN 095-171-001 includes completely replacing the existing water treatment system that is within the existing water treatment building facility as well as replacing the associated piping/valving/control/electrical components for both "A" and "B" trains. The existing water treatment building will remain as is. The proposed developments also include the replacement and relocation of the generator outside of the building to a new weatherproof sound attenuation enclosure and removal of an existing storage shed, and/or installation of two new storage sheds. The new water treatment system is expected to be similar to the existing system, however combining the two trains into a single train may be considered. Proposed work outside of the existing building includes minor piping modifications, which may include valve installation and replacement minor raw water and treated water piping replacement to facilitate tie-in with the new treatment system, replacement of backwash pipes that convey backwash water to the pond adjacent to the treatment plant building, relocation of the backwash pond overflow and/or replacement of the existing pond liner.

Construction equipment for the water treatment upgrades will include a fork lift, backhoe, dump truck, concrete truck, and hand tools. Access will be from the existing access off of Spring Street. Materials and equipment will be staged onsite at the facility and-or on the paved road shoulder on Spring Street.

A biological and wetland assessment was completed in October 2019 which found no special status species within the project area or within a 50-foot buffer around the project area. The operation plan has incorporated the recommendation of the report, including precautions for avoiding impacts to nesting birds and nearby wetland species and utilizing Best Management Practices (Attachment 5). Comments received from CDFW (Attachment 6) concur with the recommendations of the biological report, with additional recommendations for invasive species removal. The project will be required to conduct invasive plant species removal maintenance as described in the biological assessment dated October of 2019, to occur twice a year until those species are eliminated.

A Cultural Resources Survey was completed in November 2019 and found no historic properties or resources within the project area. Consultation with the Bear River Band THPO determined that the inadvertent discovery protocol would be sufficient for the described project.

**General Plan Designation:** All of the subject properties are located outside of the coastal zone. APN 095-161-004 is located on the north side of Newton Road in the town of Weott. The parcel is approximately one acre in size and is located in an area of moderate slope instability. The Humboldt County General Plan classifies the subject property with a land use designation of Public Facilities (PF). The applicable community plan is the Avenue of the Giants Community Plan. The Avenue of the Giants Community Plan also designates the subject parcel as Public Facilities (PF). The Humboldt County General Plan discusses the character of the PF land use designation as land that is appropriate for use by a government agency or public agency, which has the purpose of serving the public health, safety, convenience or welfare. The use of the subject parcel as a water storage, transmission and distribution facility is listed as a "Principal Permitted Use" consistent with the Public Facility Zone District in the Humboldt County Zoning Regulations Chapter 4, Section 314-4.2. Primary uses of this Zone District include essential services, minor utilities, and administrative services.

APN 095-171-001 is located on the east side of Spring Street, approximately 140 feet east from the intersection of Newton Road and Spring Street, in the Town of Weott. The Humboldt County General Plan and the Avenue of the Giants Community Plan classifies the subject property with a land use designation of Residential Low Density (RL). Table 4-B within Chapter 4 of the General Plan designates essential services as a permissible use on RL designated areas. The existing water treatment plant on APN 095-171-001 provides essential services to the surrounding residents of the town of Weott.

The Weott Community Services District, acting as lead agency for this project filed for CEQA NOE Class 1,2,4 Sec 15301; 15302; 15304.

**RECORD OF ACTION OF THE PLANNING COMMISSION  
OF THE COUNTY OF HUMBOLDT**

**Case Number PLN-2019-16007**

**Assessor's Parcel Number: 095-161-004; 095-171-001**

**Weott Community Services District, Weott Area.** A General Plan Conformance Review pursuant to Government Code Section 65402 involving the Weott Community Services District's intent to replace the existing 76,000-gallon water storage tank with a larger tank with a maximum capacity of 365,282 gallons, replacement of the existing water treatment plant and associated infrastructure, and improvements to the existing manmade backwash discharge.

**Recommendation**

- ☒ Find project to be in conformance with the General Plan based on findings in the staff report.
- ☐ Adopt finding that project does not conform with the General Plan for the reasons specified in the staff report.

**Record of Action**

- ☒ Adopt Planning Division's recommendation.
- ☐ Adopt Planning Division's recommendation with revisions as made by the Planning Commission.

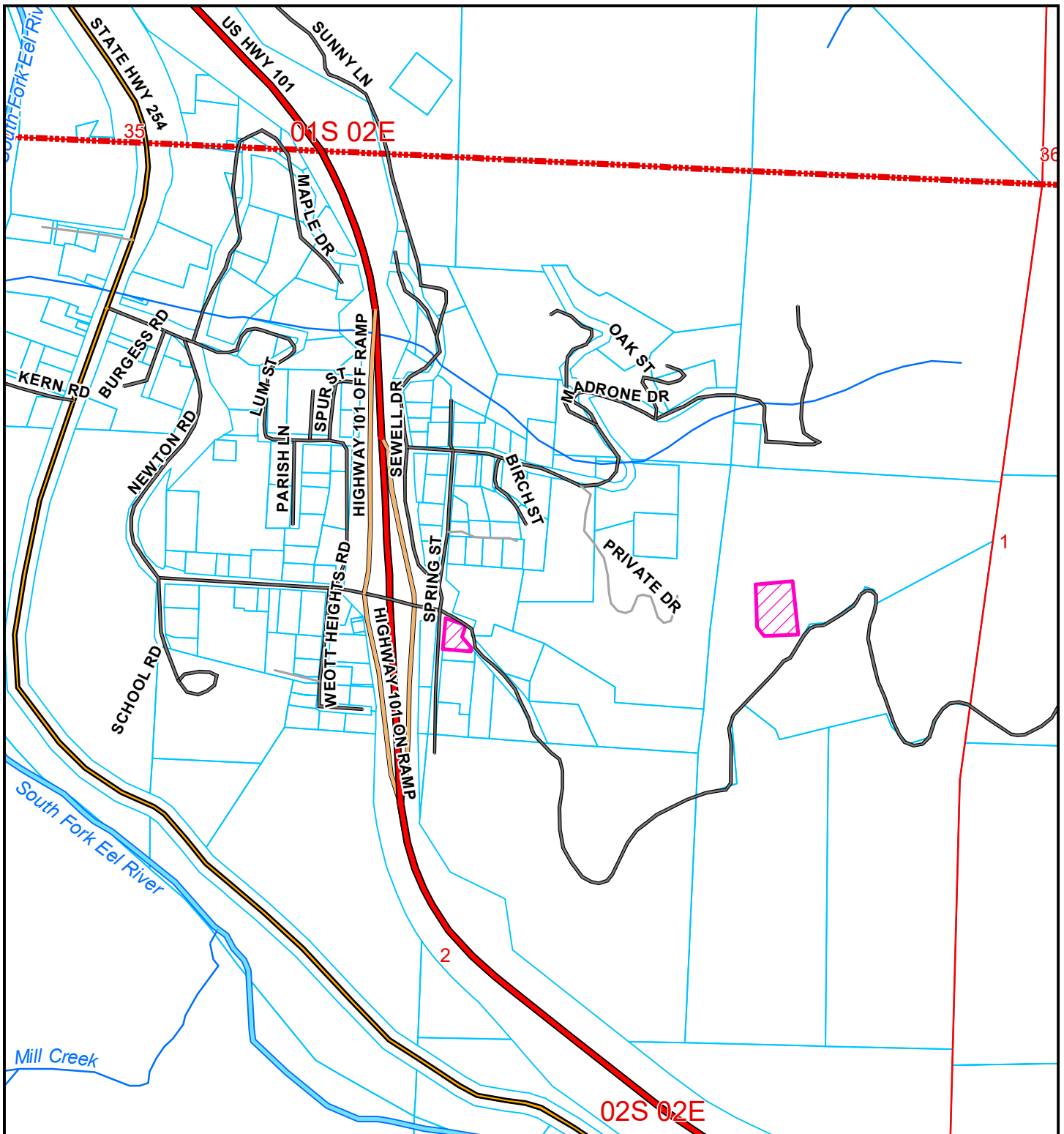
Adopted after review and consideration of all the evidence on June 18, 2020.

The motion was made by Commissioner \_\_\_\_\_ and seconded by Commissioner \_\_\_\_\_.

AYES:           Commissioners:  
NOES:           Commissioners:  
ABSTAIN:       Commissioners:  
ABSENT:        Commissioners:  
DECISION:

I, John H. Ford, Secretary to the Planning Commission of the County of Humboldt, do hereby certify the foregoing to be a true and correct record of the action taken on the above entitled matter by said Commission at a meeting held on the date noted above.

\_\_\_\_\_  
John H. Ford, Director  
Planning and Building Department



## LOCATION MAP

### PROPOSED WEOTT COMMUNITY SERVICES DISTRICT GENERAL PLAN CONFORMANCE REVIEW

WEOTT AREA

PLN-2019-16007

APN: 095-161-004 & 095-171-001

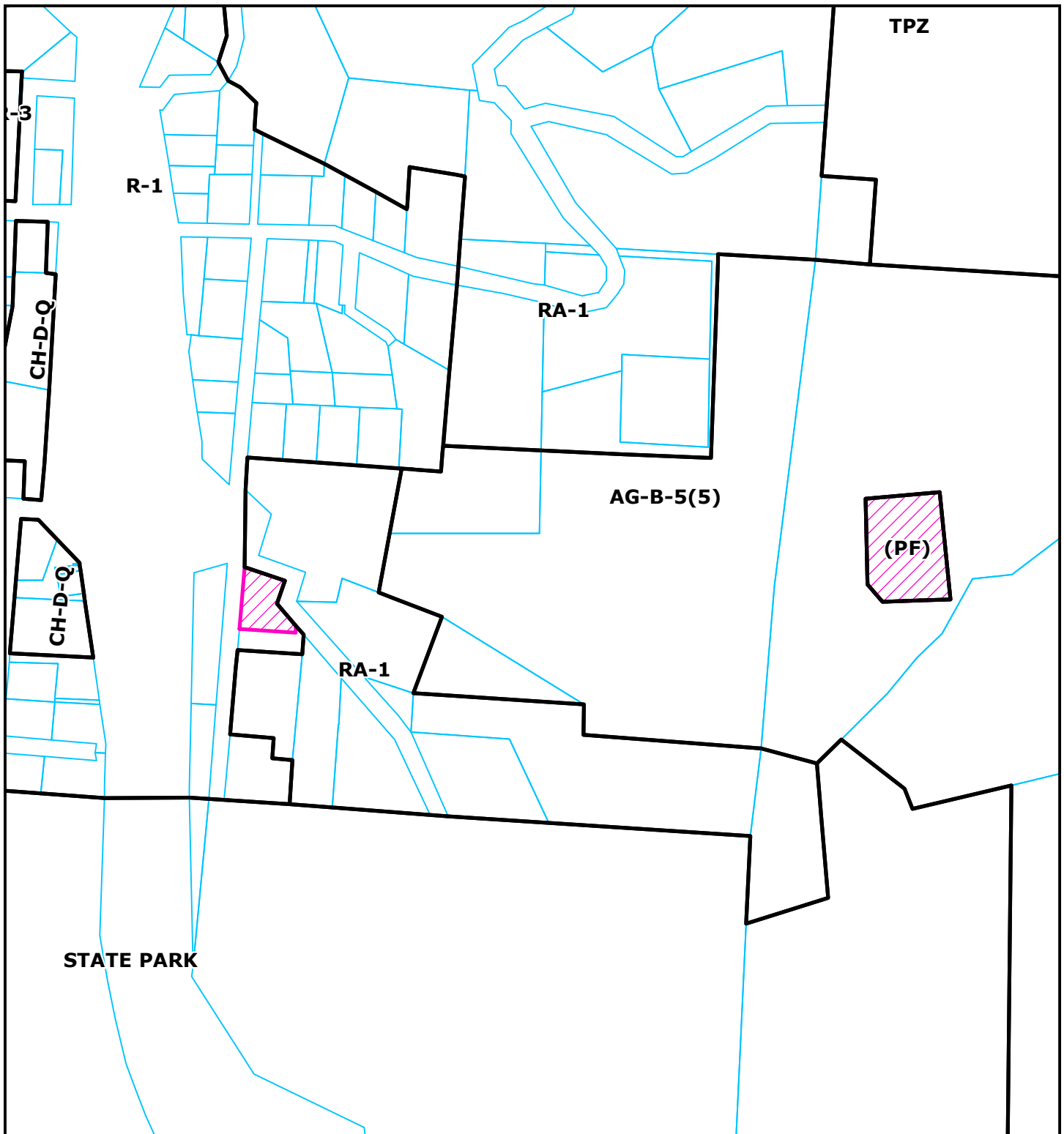
T02S R02E S02 HB&M (Weott)

Project Area = 

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.



0 250 500 750  
Feet



# **ZONING MAP**

## **PROPOSED WEOTT COMMUNITY SERVICES DISTRICT GENERAL PLAN CONFORMANCE REVIEW**

**WEOTT AREA**

**PLN-2019-16007**


**APN: 095-161-004 & 095-171-001**

**T02S R02E S02 HB&M (Weott)**

**Project Area =** 

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.

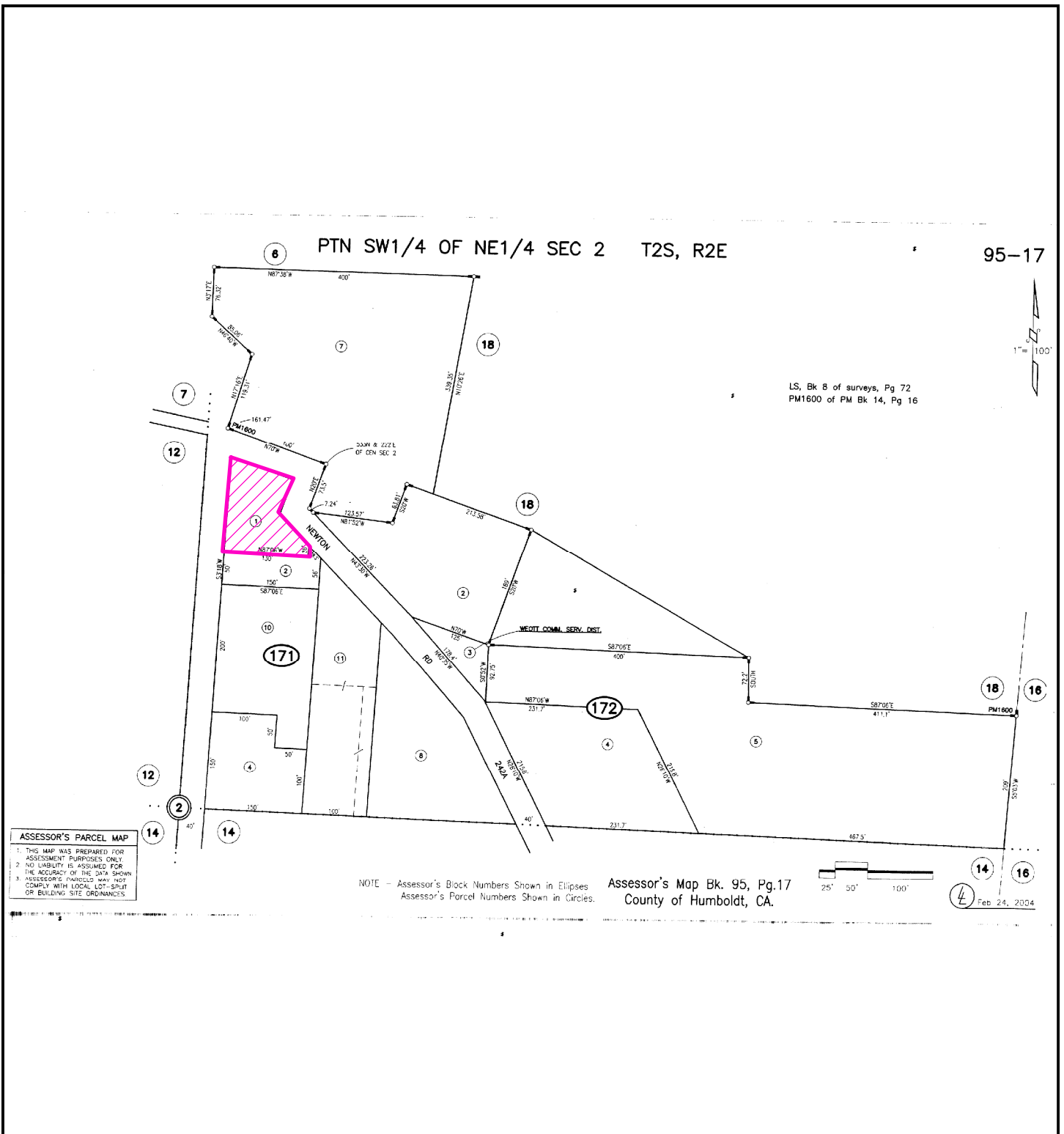


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95-16







## ASSESSOR PARCEL MAP

### PROPOSED WEOTT COMMUNITY SERVICES DISTRICT GENERAL PLAN CONFORMANCE REVIEW WEOTT AREA

PLN-2019-16007

APN: 095-161-004 & 095-171-001

T02S R02E S02 HB&M (Weott)

Project Area = 

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.

MAP NOT TO SCALE



# **AERIAL MAP**

## **PROPOSED WEOTT COMMUNITY SERVICES DISTRICT GENERAL PLAN CONFORMANCE REVIEW**

**WEOTT AREA**

**PLN-2019-16007**

**APN: 095-161-004 & 095-171-001**

**T02S R02E S02 HB&M (Weott)**

**Project Area =**



This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.



0 50 100 150  
Feet



# **AERIAL MAP**

## **PROPOSED WEOTT COMMUNITY SERVICES DISTRICT GENERAL PLAN CONFORMANCE REVIEW**

**WEOTT AREA**

**PLN-2019-16007**


**APN: 095-161-004 & 095-171-001**

**T02S R02E S02 HB&M (Weott)**

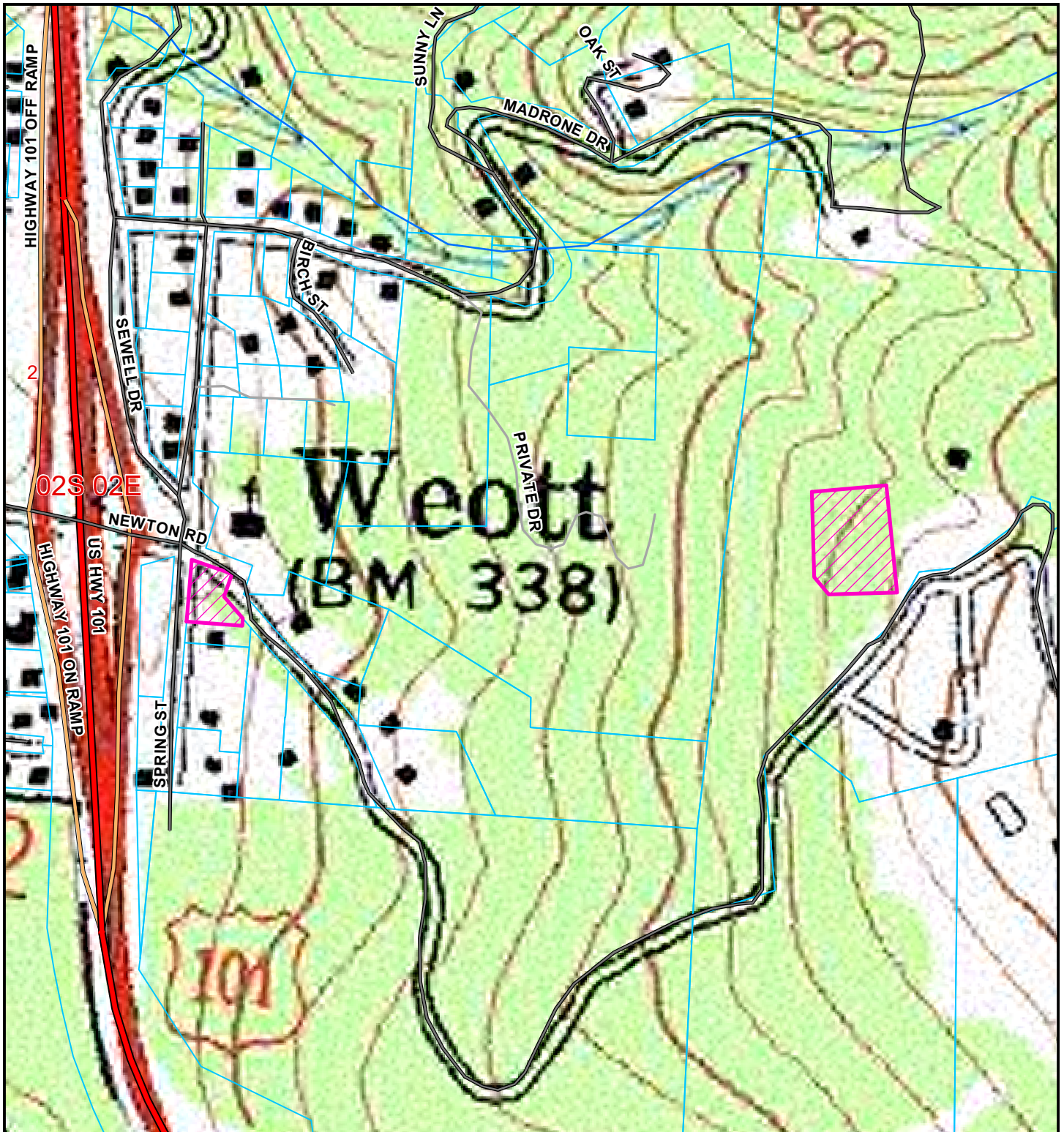
**Project Area =** 

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.



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 Feet





# TOPO MAP

## PROPOSED WEOTT COMMUNITY SERVICES DISTRICT GENERAL PLAN CONFORMANCE REVIEW

WEOTT AREA

PLN-2019-16007

APN: 095-161-004 & 095-171-001

T02S R02E S02 HB&M (Weott)

Project Area = 

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.



0 100 200 300 400  
Feet

## ATTACHMENT 1

### STAFF ANALYSIS OF THE EVIDENCE SUPPORTING THE REQUIRED FINDINGS

Staff believes that the Planning Commission can find that the proposed project is consistent with the 2017 Humboldt County General Plan based on the following:

- A. The proposed project is an existing public use, and the proposed developments are for upgrading existing infrastructure for continued use. Both parcels are owned and operated by the Weott Community Services District. The Weott CSD has been in possession of APN 095-161-004 since 1972 and of APN 095-171-001 since 1987.
- B. The proposed replacement of the 76,000-gallon storage tank, replacement of the existing water treatment plant and associated infrastructure, and improvements to the existing manmade backwash discharge pond will allow the Weott Community Services District to achieve goals and policies specified in Chapter 5, Community Infrastructure and Services Element as well as Chapter 11, Water Resources Element specified in the Humboldt County General Plan. Specifically, Chapter 5, Policy IS-P16, Water and Wastewater System Capital Improvements, which is 'Support the efforts of service providers to develop and maintain capital improvement programs for construction of water and wastewater systems.' Additionally, the proposed tank replacement supports Policy WR-P27 Sufficient Water Supply, 'Support the actions and facilities needed by public water systems to supply the demands projected in this plan.'
- C. All applicable policies of the General Plan remain in full force.
- D. The applicant will be responsible for obtaining all necessary Federal, State, and local permits, as applicable.

The following table identifies the evidence which supports findings that the proposed construction of a replacement water storage tank, replacement of the existing water treatment plant and associated infrastructure, and improvements to the existing manmade backwash discharge pond by the Weott Community Service District's is in conformance with all applicable policies and standards in the Humboldt County General Plan (GP) and the Avenue of the Giants Community Plan (AVES).

Relevant Plan Section(s)	Summary of Applicable Goal, Policy or Standard	Evidence Which Supports Making the General Plan Conformance Finding
Land Use  Chapter 4  Residential Low Density (GP) §4.8	The RL designation is used for areas suitable for residential use where urban services are available or are anticipated to be available. Single family units on individual lots are the dominant use, but the designation can accommodate a mix of housing types including townhouses and common-wall clustered units.	Table 4-B within Chapter 4 of the General Plan designates essential services as a permissible use on RL designated areas. The existing water treatment plant on APN 095-171-001 provides essential services to the surrounding residents of the town of Weott.
Land Use  Chapter 4  Public Facility (GP) §4.8	Utilized to classify land appropriate for use by a governmental agency or public agency, which has the purpose of serving the public health, safety, convenience, or welfare.	Community wells, water storage tanks and treatment facilities are specifically listed among the allowable uses permitted in the Public Facilities land use designation. .
Community Infrastructure and Services  Chapter 5	Goals and Policies contained in this chapter relate to adequate public infrastructure and services as a foundation for growth and area essential for community health, safety and quality of life.  Related policies: IS-P6 Infrastructure and Services Capacity, IS-P16 Water and Wastewater System Capital Improvements.	The replacement of the existing water treatment plant and associated infrastructure and improvements to the existing manmade backwash discharge pond will allow the Weott CSD to achieve the goals and policies specified in Chapter 5 and IS-P16 by improving public infrastructure and capital improvements.  The replacement of the existing water storage tank will facilitate adequate storage for the Weott Community Service District. The replacement of the current water storage tank will not expand the District's service area, water withdraws or customer entitlements, but will allow the Weott CSD to meet the recommended 3-day maximum demand.

Conservation and Open Space  Chapter 10  Biological Resources Section 10.3  Cultural Resources Section 10.6	Goals and Policies contained in this Chapter guides the use and protection of all the natural resources and open space assets of the county.  Goals and Policies contained in this Section relate to the protection of cultural heritage, including historic, prehistoric, and archaeological resources.	<p>A biological and wetland assessment was completed in October 2019 which found no special status species within the project area or within a 50-foot buffer around the project area. The operation plan has incorporated the recommendation of the report, including precautions for avoiding impacts to nesting birds and nearby wetland species and utilizing Best Management Practices (Attachment 5). Comments received from CDFW (Attachment 6) concur with the recommendations of the biological report, with additional recommendations for invasive species removal. The project will be required to conduct invasive plant species removal maintenance as described in the biological assessment dated October of 2019, to occur twice a year until those species are eliminated.</p> <p>A Cultural Resources Survey was completed in November 2019 and found no historic properties or resources within the project area. Consultation with the Bear River Band THPO determined that the inadvertent discovery protocol would be sufficient for the described project. Adherence to the protocol as set forth in CU-S4.E will achieve conformance with the General Plan.</p>
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Safety Element	Goals and Policies contained in this Chapter identify hazards and hazard risk reduction policies to guide local decisions related to airport, geologic, flooding, and fire hazards.	<p>The parcels are not within an Airport Land Use Compatibility Zone.</p> <p>The site is rated "2" Moderate Instability and "2" Moderate Instability and does not fall within the Alquist-Priolo Fault Hazard Zone. The project does not involve the construction of a habitable structure. The project involves minimal grading activities to facilitate the larger tank. Unsuitable fill will have to be removed from the existing pad and replaced with engineered fill in order to provide a suitable foundation for the new tank.</p> <p>The proposed project is not located within a mapped FEMA Flood Zone. Therefore, flood hazards are not of concern in regard to the proposed project.</p> <p>095-171-001 lies within the fire response service jurisdiction of the Weott Community Service District, and APN 095-161-004 lies just outside of the Weott CSD fire response service jurisdiction and is within the State Responsibility Area (SRA). The additional storage capacity of the tanks will increase the capability of the community to respond to future emergency fire situations.</p>
Chapter 14		
Airport Safety		
Geologic and Seismic		
Flooding		
Fire Hazards		

## Recommendation

Planning Staff recommends the Planning Commission find the proposed work on APN 095-161-004 to replace the existing water storage tank and the proposed work on APN 095-171-001 to replace the existing water treatment plant, associated infrastructure, and improvements to the existing manmade backwash discharge pond to be in conformance with the General Plan.



**ATTACHMENT 2**  
**APPLICATION REQUESTING GENERAL PLAN CONFORMANCE REVIEW**



**APPLICATION FORM**  
**Humboldt County Planning and Building Department**  
Current Planning Division 3015 H Street Eureka, CA 95501-4484  
Phone (707) 445-7541 Fax (707) 268-3792

**INSTRUCTIONS:**

1. Applicant/Agent complete Sections I, II and III below.
2. It is recommended that the Applicant/Agent schedule an Application Assistance meeting with the Assigned Planner. Meeting with the Assigned Planner will answer questions regarding application submittal requirements and help avoid processing delays. A small fee is required for this meeting.
3. Applicant/Agent needs to submit all items marked on the reverse side of this form.

**SECTION I**

**APPLICANT** (Project will be processed under Business name, if applicable.)

Business Name: Weott Community Services District  
Contact Person: Gary Neumann, Operations Manager  
Mailing Address: P.O. Box 218  
City, St, Zip: Weott, CA 95571-0218  
Telephone: 707-946-2367 Fax: 707-382-8917  
Email: gary.weottcsd@gmail.com

**AGENT** (Communications from Department will be directed to agent)

Business Name: SHN  
Contact Person: Stein Coriell  
Mailing Address: 1062 G Street, Suite I  
City, St, Zip: Arcata, CA 95521  
Telephone: 707-822-5785 Fax: 707-822-5786  
Email: scoriell@shn-enqr.com

**OWNER(S) OF RECORD** (If different from applicant)

Owner's Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City, St, Zip: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

Owner's Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City, St, Zip: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

**LOCATION OF PROJECT**

Tank on Newton Rd 0.6 mile east of Spring St Tank is APN 095-161-004  
Site Address: WTP site is at Newton Rd/Spring St Assessor's Parcel No(s): WTP is APN 095-171-001  
Community Area: Weott Parcel Size (acres or sq. ft.): Tank is 1.05 acres  
WTP is 0.32 acres  
Is the proposed building or structure designed to be used for designing, producing, launching, maintaining, or storing nuclear weapons or the components of nuclear weapons? ☐ YES ☒ NO

**SECTION II**

**PROJECT DESCRIPTION**

Describe the proposed project (attach additional sheets as necessary): Please see attached Project Description.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SECTION III**

**OWNER'S AUTHORIZATION & ACKNOWLEDGEMENT**

I hereby authorize the County of Humboldt to process this application for a development permit and further authorize the County of Humboldt and employees of the California Department of Fish and Wildlife to enter upon the property described above as reasonably necessary to evaluate the project. I also acknowledge that processing of applications that are **not** complete or do not contain truthful and accurate information will be delayed, and may result in denial or revocation of approvals.

Gary John Neumann  
Applicant's Signature

26 November 2019  
Date

**If the applicant is not the owner of record:** I authorize the applicant/agent to file this application for a development permit and to represent me in all matters concerning the application.

\_\_\_\_\_  
Owner of Record Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Owner of Record Signature

\_\_\_\_\_  
Date



## Notice of Exemption

## Appendix E

**To:** Office of Planning and Research  
P.O. Box 3044, Room 113  
Sacramento, CA 95812-3044

County Clerk

County of: Humboldt

825 5th Street #5

Eureka CA 95501

**From:** (Public Agency): Weott Community Svcs District  
202 Lum Street

Weott CA 95571 gary.weottcsd@gmail.com

(Address)

**Project Title:** Weott CSD Water Tank Replacement and Water Treatment Improvements Project

**Project Applicant:** Weott Community Services District

**Project Location - Specific:**

Tank site is on APN 095-161-004. The parcel is accessible from Newton Road but there is no street address. 40.321°N, -123.915°W. Water treatment site is on APN 095-171-001 at 123 Spring Street. 40.321°N, -123.920°W.

**Project Location - City:** Weott

**Project Location - County:** Humboldt

**Description of Nature, Purpose and Beneficiaries of Project:**

To benefit District water users, replace existing concrete block water tank with 2 new steel tanks; replace interior treatment plant components and replace/add exterior piping/valving; at existing developed sites. Will increase water storage capacity but not increase service area, water withdrawals, or water entitlements.

**Name of Public Agency Approving Project:** Weott Community Services District

**Name of Person or Agency Carrying Out Project:** Weott Community Services District

**Exempt Status: (check one):**

- ☐ Ministerial (Sec. 21080(b)(1); 15268);
- ☐ Declared Emergency (Sec. 21080(b)(3); 15269(a));
- ☐ Emergency Project (Sec. 21080(b)(4); 15269(b)(c));
- ☒ Categorical Exemption. State type and section number: Class 1, 2, 4 (sec 15301, 15302, 15304)
- ☐ Statutory Exemptions. State code number: \_\_\_\_\_

**Reasons why project is exempt:**

Although the project proposes to replace the existing municipal water tank with new larger tanks, the project will not involve an expansion of water use or water service capacity. The project will not increase the District's water service area, water supply commitment, or water volume provided. It merely increases the District's water storage volume and improves its water storage and treatment to meet current engineering standards.

**Lead Agency**

Contact Person: Gary Neumann Area Code/Telephone/Extension: 707-382-8917

**If filed by applicant:**

1. Attach certified document of exemption finding.
2. Has a Notice of Exemption been filed by the public agency approving the project? ☐ Yes ☐ No

Signature: Gary Neumann Date: 26 Nov 2019 Title: General Manager

☒ Signed by Lead Agency ☐ Signed by Applicant

Authority cited: Sections 21083 and 21110, Public Resources Code.  
Reference: Sections 21108, 21152, and 21152.1, Public Resources Code.

Date Received for filing at OPR: \_\_\_\_\_



Revised 2011

**ATTACHMENT 3**  
**GOVERNMENT CODE SECTION 65402**

- (a) If a general plan or part thereof has been adopted, no real property shall be acquired by dedication or otherwise for street, square, park or other public purposes, and no real property shall be disposed of, no street shall be vacated or abandoned, and no public building or structure shall be constructed or authorized, if the adopted general plan or part thereof applies thereto, until the location, purpose and extent of such acquisition or disposition, such street vacation or abandonment, or such public building or structure have been submitted to and reported upon by the planning agency as to conformity with said adopted general plan or part thereof. The planning agency shall render its report as to conformity with said adopted general plan or part thereof within forty (40) days after the matter was submitted to it, or such longer period of time as may be designated by the legislative body. If the legislative body so provides, by ordinance or resolution, the provisions of this subdivision shall not apply to: (1) the disposition of the remainder of a larger parcel which was acquired and used in part for street purposes; (2) acquisitions, dispositions, or abandonment for street widening; or (3) alignment projects, provided such dispositions for street purposes, acquisitions, dispositions, or abandonment for street widening, or alignment projects are of a minor nature.
- (b) A county shall not acquire real property for any of the purposes specified in paragraph (a), nor dispose of any real property, nor construct or authorize a public building or structure, in another county or within the corporate limits of a city, if such city or other county has adopted a general plan or part thereof and such general plan or part thereof is applicable thereto, and a city shall not acquire real property for any of the purposes specified in paragraph (a), nor dispose of any real property, nor construct or authorize a public building or structure, in another city or in unincorporated territory, if such other city or the county in which such unincorporated territory is situated has adopted a general plan or part thereof and such general plan or part thereof is applicable thereto, until the location, purpose and extent of such acquisition, disposition, or such public building or structure have been submitted to and reported upon by the planning agency having jurisdiction, as to conformity with said adopted general plan or part thereof. Failure of the planning agency to report within forty (40) days after the matter has been submitted to it shall be conclusively deemed a finding that the proposed acquisition, disposition, or public building or structure is in conformity with said adopted general plan or part thereof. The provisions of this paragraph (b) shall not apply to acquisition or abandonment for street widening or alignment projects of a minor nature if the legislative body having the real property within its boundaries so provides by ordinance or resolution.
- (c) A local agency shall not acquire real property for any of the purposes specified in paragraph (a) nor dispose of any real property, nor construct or authorize a public building or structure, in any county or city, if such county or city has adopted a general plan or part thereof and such general plan or part thereof is applicable thereto, until the location, purpose and extent of such acquisition, disposition, or such public building or structure have been submitted to and reported upon by the planning agency having jurisdiction, as to conformity with said adopted general plan or part thereof. Failure of the planning agency to report within forty (40) days after the matter has been submitted to it shall be conclusively deemed a finding that the proposed acquisition, disposition, or public building or structure is in conformity with said adopted general plan or part thereof. If the planning agency disapproves the location, purpose or extent of such acquisition, disposition, or the public building or structure, the disapproval may be overruled by the local agency. Local agency as used in this paragraph (c) means an agency of the state for the local performance of governmental or proprietary functions within limited boundaries. Local agency does not include the state, or county, or a city.

**ATTACHMENT 4  
CONCEPTUAL SITE PLAN**

# WEOTT COMMUNITY SERVICES DISTRICT

## "A" TANK REPLACEMENT

### WEOTT, CALIFORNIA



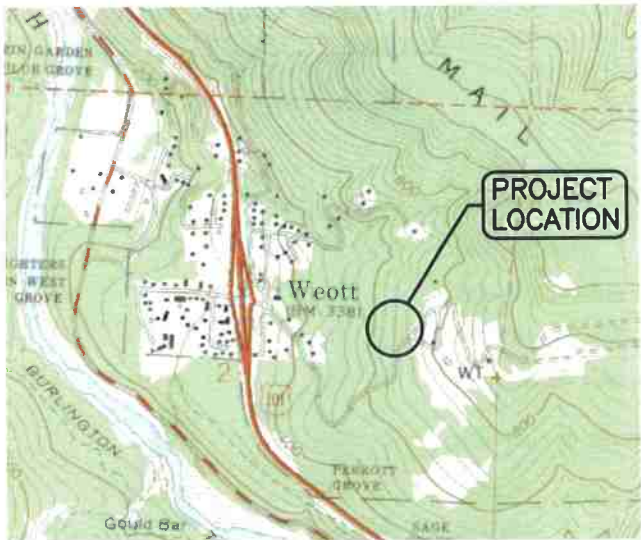
PREPARED BY:



NOVEMBER 2019

#### INDEX OF SHEETS

SHT	DWG	TITLE
1	G-1	COVER
2	G-2	STANDARD ABBREVIATIONS AND LEGENDS
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9	C-6	A1 TANK DETAILS
10	C-7	A2 TANK DETAILS
11	C-8	DETAILS
12	C-9	DETAILS
13	C-10	DETAILS



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CONSULTING ENGINEERS & GEOLOGISTS, INC. WWW.SHN-ENGR.COM 812 W. WABASH AVE. EUREKA, CA 95501 707-441-8855			
BY		REVISION	
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WEOTT COMMUNITY SERVICES DISTRICT "A" TANK REPLACEMENT WEOTT, CALIFORNIA COVER			
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DATE		11/2019	
PROJ. NO.		016272	

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ABBREVIATIONS		UTILITIES LEGEND		TOPOGRAPHIC LEGEND	
A	ABN	ABANDON	R	RC	RADIUS
	ABS	ACRYLONITRILE-BUTADIENE-STYRENE		RCP	REINFORCED CONCRETE PIPE
AB	AB	ANCHOR BOLT, AGGREGATE BASE		RD	ROAD
	AC	ASPHALTIC CONCRETE		RDCR	REDUCER
ACP	ACP	ASBESTOS CEMENT PIPE		RWD	REDWOOD
	ACI	AMERICAN CONCRETE INSTITUTE		REF	REFER OR REFERENCE
ADJ	ADJ	ADJUSTABLE		REINF	REINFORCED, REINFORCING
	AGGR	AGGREGATE		REQD	REQUIRED
ASC	ASC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION		RET	RETURN
	AL	ALUMINUM		RH	RIGHT HAND
ALT	ALT	ALTERNATE		RM	ROOM
	AP	ANGLE POINT		RO	ROUGH OPENING
APPROX	APPROX	APPROXIMATELY		RSP	ROCK SLOPE PROTECTION
	ARCH	ARCHITECTURAL		RT	RIGHT OR RING TIGHT
ASTM	ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS		R/W	RIGHT OF WAY
	AUTO	AUTOMATIC		RWL	RAIN WATER LEADER
AUX	AUX	AUXILIARY	S	S	SEWER
	AT	AT		SL	SLOPE
B	BC	BEGIN CURVE		SCHED	SCHEDULE
	BCR	BEGIN CURB RETURN		SCSD	SCOTIA COMMUNITY SERVICES DISTRICT
BD	BD	BOARD		SD	STORM DRAIN
	BF	BLIND FLANGE		SDMH	STORM DRAIN MANHOLE
BFV	BFV	BUTTERFLY VALVE		SECT	SECTION
	BK	BOOK OR BACK		SF	SQUARE FOOT/FEET
BLDG	BLDG	BUILDING		SHT	SHEET
	BM	BENCH MARK, BEAM		SIM	SIMILAR
BMP	BMP	BEST MANAGEMENT PRACTICE		SP	SPACE OR SPACES
	BO	BLOW OFF		SPEC	SPECIFICATIONS
BOT	BOT	BOTTOM		SO	SQUARE
	BPG	BEARING		SO FT	SQUARE FOOT
BTWN	BTWN	BETWEEN		SO IN	SQUARE INCH
	BV	BALL VALVE		SS	SANITARY SEWER
BVC	BVC	BEGINNING OF VERTICAL CURVE		SSCO	SANITARY SEWER CLEAN OUT
	BW	BACK OF WALK		SSMH	SANITARY SEWER MANHOLE
BWV	BWV	BACKWATER VALVE		SST	STAINLESS STEEL
	C	CHANNEL (STRUCTURAL SHAPE)	T	STA	STATION
CARV	CARV	COMBINATION AIR AND VACUUM RELEASE VALVE		STD	STANDARD
	CATV	CABLE TELEVISION		STL	STEEL
CB	CB	CATCH BASIN		STR	STRUCTURAL
	CEL	CEILING		STRUCT	STRUCTURE
CFM	CFM	CUBIC FEET PER MINUTE		SUSP	SUSPENDED
	CFS	CUBIC FEET PER SECOND		SW	SEWAGE
CHEM	CHEM	CHEMICAL		SWPPP	SEWAGE WATER POLLUTION PREVENTION PLAN
	CIP	CAST IRON PIPE	SYMM	SYMM	SYMMETRICAL
C.I.P.	C.I.P.	CAST IN PLACE		TAN	TANGENT
	CJ	CONSTRUCTION JOINT		T&B	TOP AND BOTTOM
CLR	CLR	CLEAR		T&G	TONGUE AND GROOVE
	CMP	CORRUGATED METAL PIPE		TBC	TOP BACK CURB
CMU	CMU	CONCRETE MASONRY UNIT		TBM	TEMPORARY BENCH MARK
	CTSK	COUNTERSINK		TBW	TOP BACK WALK
CO	CO	CLEANOUT		TCE	TEMPORARY CONSTRUCTION EASEMENT
	COL	COLUMN		TEL	TELEPHONE
CONC	CONC	CONCRETE		TELEM	TELEMETRY
	CONT	CONTINUOUS OR CONTINUED		TEMP	TEMPERATURE OR TEMPORARY
COORD	COORD	COORDINATE		TFC	TOP FACE CURB
	CPLG	COLD ROLLED STEEL		THD	THREAD
CRS	CRS	COLD ROLLED STEEL		TOC	TOP OF CONCRETE
	CTR	COPPER TUBE SIZE		TOG	TOP OF GATE
CU	CU	CUBIC		TOS	TOWN OF SCOTIA
	CU FT	CUBIC FEET		TOW	TOP OF WALL
CV	CV	CHECK VALVE		TP	TURNING POINT, TOP OF PAVEMENT OR TELEPHONE POLE
	CW	COLD WATER	U	UBC	UNIFORM BUILDING CODE
CY	CY	CUBIC YARD		UOS	UNLESS OTHERWISE SPECIFIED
	D	DEGREE (ANGLE)	UG	UG	UNDERGROUND
d	d	PENNY (NAIL SIZE)		UTIL	UTILITY
	DB	DISTRIBUTION BOX	V	V	VOLT
DBL	DBL	DOUBLE		VAC	VACUUM
	DF	DOUGLAS FIR	VAR	VAR	VARIABLE
DI	DI	DRAIN INLET OR DUCTILE IRON		VC	VERTICAL CURVE
	DIA	DIAMETER	VCP	VCP	VERTICAL CLAY PIPE
DIAG	DIAG	DIAGONAL		VERT	VERTICAL
	DIM	DIMENSION	VPI	VPI	VERTICAL POINT OF INTERSECTION
DIMJ	DIMJ	DUCTILE IRON MECHANICAL JOINT		W	WATER OR WIDE FLANGE
	DIP	DUCTILE IRON PIPE	W	W	WATER
DET	DET	DETAIL		W/O	WITHOUT
	DWG	DRAWING	WM	WM	WATER METER
	DW	DRIVEWAY		WP	WORK POINT
E	E	EXISTING	WS	WS	WATER SURFACE, WATER STOP
	E	EASTING OR EAST		WWF	WELDED WIRE FABRIC
E.A.	E.A.	EACH	X	XFMR	TRANSFORMER
	ECR	END CURB RETURN		Y	YARD
EFL	EFL	EACH FACE		YD 2	SQUARE YARD
	EFL	EFFLUENT		YD 3	CUBIC YARD
EG	EG	EXISTING GRADE/GROUND	YD 2	YD 2	SQUARE YARD
	ELB	ELBOW		YD 3	CUBIC YARD
ELEC	ELEC	ELECTRIC OR ELECTRICAL	YD 3	YD 3	CUBIC YARD
	ELEV	ELEVATION		YD 3	CUBIC YARD
ENGR	ENGR	ENGINEER	YD 3	YD 3	CUBIC YARD
	EP	EDGE OF PAVING		YD 3	CUBIC YARD
EQ	EQ	EQUAL		YD 3	CUBIC YARD
	EQUIP	EQUIPMENT	YD 3	YD 3	CUBIC YARD
ER	ER	EDGE OF ROAD		YD 3	CUBIC YARD
	EVC	END OF VERTICAL CURVE	YD 3	YD 3	CUBIC YARD
EW	EW	EACH WAY		YD 3	CUBIC YARD
	EWFL	EACH WAY, EACH FACE	YD 3	YD 3	CUBIC YARD
EXC	EXC	EXCAVATE		YD 3	CUBIC YARD
	EXP	EXPOSED OR EXPANSION	YD 3	YD 3	CUBIC YARD
EXP JT	EXP JT	EXPANSION JOINT		YD 3	CUBIC YARD
	EXT	EXISTING	YD 3	YD 3	CUBIC YARD
EXT	EXT	EXTERIOR		YD 3	CUBIC YARD
	F	FLANGE	YD 3	YD 3	CUBIC YARD
FC	FC	FLEXIBLE COUPLING		YD 3	CUBIC YARD
	FCA	FLANGED COUPLING ADAPTER	YD 3	YD 3	CUBIC YARD
FDC	FDC	FIRE DEPARTMENT CONNECTION		YD 3	CUBIC YARD
	FDM	FOUNDATION	YD 3	YD 3	CUBIC YARD
FF	FF	FINISH FLOOR		YD 3	CUBIC YARD
	FG	FINISH GRADE	YD 3	YD 3	CUBIC YARD
FH	FH	FIRE HYDRANT		YD 3	CUBIC YARD
	FIG	FIGURE	YD 3	YD 3	CUBIC YARD
FIN	FIN	FINISH		YD 3	CUBIC YARD
	FIP	FEMALE IRON PIPE	YD 3	YD 3	CUBIC YARD
FL	FL	FLOW LINE		YD 3	CUBIC YARD
	FLG	FLANGE	YD 3	YD 3	CUBIC YARD
FLR	FLR	FLOOR		YD 3	CUBIC YARD
	FLTR	FILTER	YD 3	YD 3	CUBIC YARD
FO	FO	FIBER OPTIC		YD 3	CUBIC YARD
	FDC	FACE OF CONCRETE	YD 3	YD 3	CUBIC YARD
FT	FT	FOOT OR FEET		YD 3	CUBIC YARD
	FT2	SQUARE FEET	YD 3	YD 3	CUBIC YARD
FT3	FT3	CUBIC FEET		YD 3	CUBIC YARD
	FTG	FOOTING	YD 3	YD 3	CUBIC YARD
FUT	FUT	FUTURE		YD 3	CUBIC YARD
	FUT	FUTURE		YD 3	CUBIC YARD

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EUREKA, CA. 95501  
707-441-8855

BY  
REVISION  
DATE  
NO.

DSGN JSD  
DR CON  
CHK KUN  
APVD

WEOTT COMMUNITY SERVICES DISTRICT  
"A" TANK REPLACEMENT  
WEOTT, CALIFORNIA  
STANDARD ABBREVIATIONS AND LEGENDS

SHEET  
G-2  
SEQ  
DATE 11/2019  
PROJ. NO. 016272



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GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO CURRENT CALIFORNIA BUILDING CODE.
2. THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, SECTION, JOINT OR FITTING REQUIRED TO COMPLETE THE PROJECT. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION. EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF EXCAVATION SHALL BE VERIFIED AS TO CONDITION, SIZE AND LOCATION BY UNCOVERING, PROVIDED SUCH IS PERMITTED BY LOCAL PUBLIC AUTHORITIES WITH JURISDICTION, BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.
3. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
4. THE CONTRACTOR SHALL PROVIDE A COPY OF THE TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE EXCAVATION OF ANY TRENCH OVER FIVE FEET IN DEPTH.
5. CONTRACTOR SHALL PERFORM TRENCH WORK IN CONFORMANCE WITH THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY REQUIREMENTS AND SHALL CONFORM TO ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH STANDARDS, RULES, REGULATIONS AND ORDERS ESTABLISHED BY THE STATE OF CALIFORNIA AND OTHER APPLICABLE AGENCIES.
6. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, GENERAL CONTRACTOR WILL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. ALL WORK AND EQUIPMENT SHALL COMPLY WITH THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY REQUIREMENTS. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY, AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER, THE ENGINEER AND HIS/HER CONSULTANTS.
7. THE CONTRACTOR SHALL INDEPENDENTLY REVIEW GROUND, TOPOGRAPHY AND TREE CONDITIONS THROUGHOUT THE SITE, AND ASSUME THE RISK OF COMPLETING THE WORK SET OUT ON THESE PLANS, REGARDLESS OF ROCK, WATER TABLE OR OTHER CONDITIONS WHICH MAY BE ENCOUNTERED IN THE COURSE OF THE WORK.
8. ANY DISCREPANCY DISCOVERED BY THE CONTRACTOR IN THESE PLANS, OR ANY FIELD CONDITIONS DISCOVERED BY THE CONTRACTOR THAT MAY DELAY OR OBSTRUCT THE PROPER COMPLETION OF THE WORK SHOWN HEREIN SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE ENGINEER IMMEDIATELY UPON DISCOVERY. SAID NOTIFICATION SHALL BE IN WRITING.
9. THE CONTRACTOR SHALL NOT BEGIN EXCAVATING UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD. THE CONTRACTOR SHALL NOTIFY EACH APPLICABLE ENTITY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) TWO WORKING DAYS BEFORE DIGGING AT (800) 227-2600 FOR LOCATES.
10. GRADING AND CONSTRUCTION CONTRACTORS SHALL STOP WORK AND NOTIFY THE OWNER AND THE ENGINEER IF CULTURAL RESOURCES ARE DISCOVERED DURING CONSTRUCTION.
13. THE CONTRACTOR SHALL GIVE THE INSPECTOR 48 HOURS ADVANCE NOTICE OF ANY CONSTRUCTION OR REQUIRED TESTING OR INSPECTION.
14. SHOULD THE CONTRACTOR OR ANY OF HIS AGENTS OR EMPLOYEES ENCOUNTER OR DISCOVER MATERIALS WHICH APPEAR TO BE HAZARDOUS DURING THE PERFORMANCE OF THE WORK, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY AND SUSPEND WORK IN THE AFFECTED AREA UNTIL THE ENGINEER HAS INSPECTED THE LOCATION AND MATERIALS IN QUESTION. SHOULD IT BE NECESSARY TO UNDERTAKE REMEDIATION, THE ENGINEER WILL GIVE WRITTEN NOTICE TO SUSPEND WORK IN THE AFFECTED AREA UNTIL THE PROPER COURSE OF ACTION HAS BEEN DETERMINED. OPERATIONS IN THE AFFECTED AREA SHALL BE RESUMED ONLY UPON WRITTEN NOTICE BY THE ENGINEER.
15. NO CHANGES OR MODIFICATIONS SHALL BE MADE TO THESE PLANS WITHOUT WRITTEN APPROVAL BY THE ENGINEER.
16. CONSTRUCTION TO COMPLY WITH TECHNICAL REPORTS COMPLETED FOR THE PROJECT.
17. NO POWER IS AVAILABLE AT THE PROJECT SITE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ELECTRIC SERVICE NECESSARY TO FACILITATE CONSTRUCTION.

TECHNICAL NOTES:

EARTHWORK, TESTING, AND INSPECTION

1. REFER TO THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY SHN ENGINEERING & GEOLOGISTS, DATED APRIL 12, 2017 FOR DETAILED GUIDELINES ON SITE PREPARATION, EXCAVATION, ENGINEERED FILL, AND OTHER GENERAL RECOMMENDATIONS.
2. GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE EARTHWORK EXCAVATIONS PRIOR TO PLACEMENT OF ENGINEERED FILL.
3. GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE FOOTING EXCAVATIONS PRIOR TO PLACEMENT OF FORMS AND REBAR.
4. ALL SITE GRADING, SUBGRADE, AND BACKFILLING WILL BE INSPECTED BY THE ENGINEER. CONTRACTOR TO PROVIDE 48 HOUR NOTICE IN ADVANCE OF REQUIRED INSPECTION. FAILURE TO GIVE ADEQUATE NOTICE MAY RESULT IN TESTING DELAYS WHICH WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE ENGINEER WILL MAKE ALL COMPACTION TESTS WHEN ADVISED BY THE CONTRACTOR THAT IN THE OPINION OF THE CONTRACTOR, SUFFICIENT DENSITIES HAVE BEEN ACHIEVED. THE CONTRACTOR SHALL FURNISH A BACKHOE AND OPERATOR UPON REQUEST AT NO COST TO OWNER.
6. THE CONTRACTOR SHALL MAKE ALL NECESSARY EXCAVATIONS FOR COMPACTION TESTS. COSTS OF EXCAVATION, BACKFILLING, AND COMPACTION IN CONNECTION WITH COMPACTION TESTING SHALL BE BORNE BY THE CONTRACTOR. A FAILING COMPACTION TEST INDICATES THAT THE REQUIRED COMPACTION STANDARDS HAVE NOT BEEN ACHIEVED. ANY FILL MATERIAL OR PORTION OF FILL MATERIAL THAT DOES NOT MEET THE SPECIFIED REQUIREMENTS SHALL BE REMOVED AND RECOMPACTED UNTIL THE REQUIREMENTS ARE SATISFIED AT NO ADDITIONAL COST TO THE OWNER. COSTS ASSOCIATED WITH RETESTING PREVIOUSLY FAILED AREAS SHALL BE PAID BY OWNER AND BACK-CHARGED TO THE CONTRACTOR.
7. COMPACTION REQUIREMENTS AS SPECIFIED WILL BE BY PERCENT OF THE MAXIMUM DRY DENSITY AND AS DETERMINED PER ASTM D 1557.
8. PLACE BACKFILL AND FILL SOIL MATERIAL IN LOOSE LIFTS OF NOT MORE THAN 8 INCHES FOR MATERIAL COMPACTED BY HEAVY EQUIPMENT, AND NOT MORE THAN 6 INCHES FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
9. EXCAVATIONS FOR COMPACTION TESTS SHALL BE BACKFILLED WITH MATERIAL SIMILAR TO THAT EXCAVATED, AND BE COMPACTED TO THE SPECIFIED DENSITY.
10. ALL COSTS ASSOCIATED WITH ACHIEVING COMPACTION STANDARDS SHALL BE INCLUDED IN THE BID PRICES PAID FOR THE BID ITEM INVOLVED AND THEREFORE NO ADDITIONAL COMPENSATION SHALL BE MADE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM THE GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY SHN CONSULTING ENGINEERS AT 707-441-8855 IMMEDIATELY, AND PROVIDE WRITTEN DESCRIPTION OF ANY DIFFERENCES IN TOPOGRAPHY FROM THAT SHOWN ON THESE PLANS WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR AFFECT EARTHWORK QUANTITY.
12. TOPSOIL SHALL BE REMOVED FROM ALL CUT AND FILL AREAS AND SHALL NOT BE USED FOR ENGINEERED FILL.
13. FILL MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE GEOTECHNICAL INVESTIGATION REPORT AND THE PROJECT SPECIFICATIONS UNLESS OTHERWISE NOTED ON THESE PLANS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR COMPLYING WITH THE FILL MATERIAL REQUIREMENTS OF THE SOILS REPORT.
14. COMPACTION IN TRENCHES SHALL BE TESTED EVERY ONE FOOT LIFT AT 50-75 FOOT LENGTHS WITH A MINIMUM OF TWO TESTS PER ANY LENGTH OF TRENCHING. THE ENGINEER WILL BE PERMITTED TO COMPLETE TESTING AT ANY BACKFILL ELEVATION DURING THE BACKFILLING PROCESS. THE CONTRACTOR SHALL PROVIDE EQUIPMENT AND AN OPERATOR, FREE OF CHARGE TO FACILITATE THE TESTING REQUIRED BY THE ENGINEER.
15. ENGINEERED FILL SHALL BE TESTED FOR COMPACTION EVERY ONE FOOT LIFT OF COMPACTED MATERIAL.

WATER TANK AND PIPING NOTES

1. SEE PROJECT SPECIFICATIONS FOR DESIGN, MANUFACTURING, INSTALLATION, TESTING, AND DISINFECTION REQUIREMENTS FOR WATER TANK, PIPING, AND APPURTENANCES.
2. DISINFECTION OF WATER LINES WILL ONLY BE ACCEPTED AFTER PRESSURE TEST IS COMPLETED.
3. CHLORINATION, TESTING, AND FLUSHING OF WATER TANKS, TEMPORARY PIPING, AND PERMANENT PIPING SHALL BE ACCOMPLISHED PRIOR TO TIE-IN TO EXISTING WATER SYSTEM.
4. ALL WATER LINES SHALL HAVE A MINIMUM OF 36" COVER UNLESS NOTED OTHERWISE.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL WATER MAIN SHUTDOWNS WITH THE DISTRICT A MINIMUM OF THREE WORKING DAYS IN ADVANCE. ONLY THE DISTRICT'S CREW SHALL BE ALLOWED TO OPERATE WATER SYSTEM VALVES.
6. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING WATER FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE NEW WATER IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
7. THE MAXIMUM LENGTH OF WATER SHUTDOWN TIME SHALL BE LIMITED TO FOUR HOURS.
8. ALL VALVES SHALL HAVE BRONZE STEMS.
9. INSTALL NO. 10 COPPER WIRE WITH BLUE INSULATION ALONG TOP OF PIPE. WIRE SHALL EXTEND TO SURFACE AT ALL VALVES AND METERS. ALL WIRE CONNECTIONS SHALL BE INSULATED AND WATERTIGHT, COPPERHEAD SNAKEBITE OR APPROVED EQUAL.
10. ALL TEMPORARY WATER SYSTEM FACILITIES SHALL BE TESTED, DISINFECTED, AND APPROVED BY THE OWNER AND THE ENGINEER PRIOR TO BEING PUT INTO SERVICE.

SURVEY NOTES:

HORIZONTAL DATUM: ASSUMED.

VERTICAL DATUM: ELEVATIONS ARE ASSUMED BASED ON CONTROL POINT NUMBER 1 (EL. 3000.00'). CONTROL POINT NUMBER 1 IS LOCATED IN THE ACCESS ROAD LEADING UP TO THE TANK SITE.

UNDERGROUND UTILITY NOTE:  
UNDERGROUND UTILITY INFORMATION SHOWN IS BASED ON VISIBLE EVIDENCE. SHN MAKES NO GUARANTEE REGARDING LOCATION, TYPE, SIZE, NOR PRESENCE OR ABSENCE OF UNDERGROUND UTILITIES. IRRIGATION SYSTEM NOT MAPPED.

OVERHEAD UTILITY NOTE:  
OVERHEAD LINES OFF OF THE PROJECT SITE ARE NOT FULLY MAPPED. INFORMATION SHOWN IS BASED ON VISIBLE EVIDENCE. NO MAPPING OBTAINED FOR PHONE AND CABLE TELEVISION FACILITIES. PHONE AND CABLE TELEVISION LINE LOCATIONS NOT VERIFIED.

BOUNDARY NOTE:  
THE BOUNDARY AND EASEMENTS SHOWN HEREON ARE BASED UPON FOUND PROPERTY CORNER MONUMENTS SHOWN ON PARCEL MAP NO. 2750 RECORDED IN BOOK 25 OF PARCEL MAPS, PAGE 3.

EROSION CONTROL NOTES:

1. BMP'S SHALL BE INSTALLED PRIOR TO ANY SITE DISTURBANCE AND MAINTAINED SUCH THAT NO VISIBLE SEDIMENT LEAVES THE SITE.
2. PAVED AREAS AT THE ACCESS POINTS SHALL BE SWEEPED OR VACUUMED AS OFTEN AS EACH DAY TO ELIMINATE TRACKING SOIL AND DEBRIS BEYOND THE LIMITS OF THE PROJECT SITE. ANY SOILS AND/OR DEBRIS, ROCK, GRAVEL, ETC. TRACKED BEYOND THE LIMITS OF THE PROJECT SITE AS A RESULT OF THIS PROJECT SHALL BE REMOVED IMMEDIATELY.
3. DISTURBED AREAS SHALL BE STABILIZED AND PROTECTED TO EXTENT PRACTICAL DURING CONSTRUCTION.
4. STOCKPILE MANAGEMENT TO BE IMPLEMENTED.
5. SEE DETAIL SHEETS FOR MORE EROSION CONTROL NOTES.
6. THE CONTRACTOR SHALL NOT ALLOW ANY CONSTRUCTION DEBRIS TO ENTER THE STORM DRAIN OR SANITARY SEWER SYSTEMS. THE CONTRACTOR SHALL INSTALL APPROVED PHYSICAL BARRIERS TO ENSURE THAT ALL DEBRIS IS CAPTURED AND REMOVED FROM SURFACE RUNOFF PRIOR TO RELEASING SITE RUNOFF.



VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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707-441-8855

SHN

BY  
REVISION  
DATE  
NO.

DESIGN  
DR  
CHK  
KUN  
APPROVED

WEOTT COMMUNITY SERVICES DISTRICT  
"A" TANK REPLACEMENT  
WEOTT, CALIFORNIA

PROJECT NOTES

SHEET  
G-3  
SEC  
DATE 11/2019  
PROJ. NO. 016272

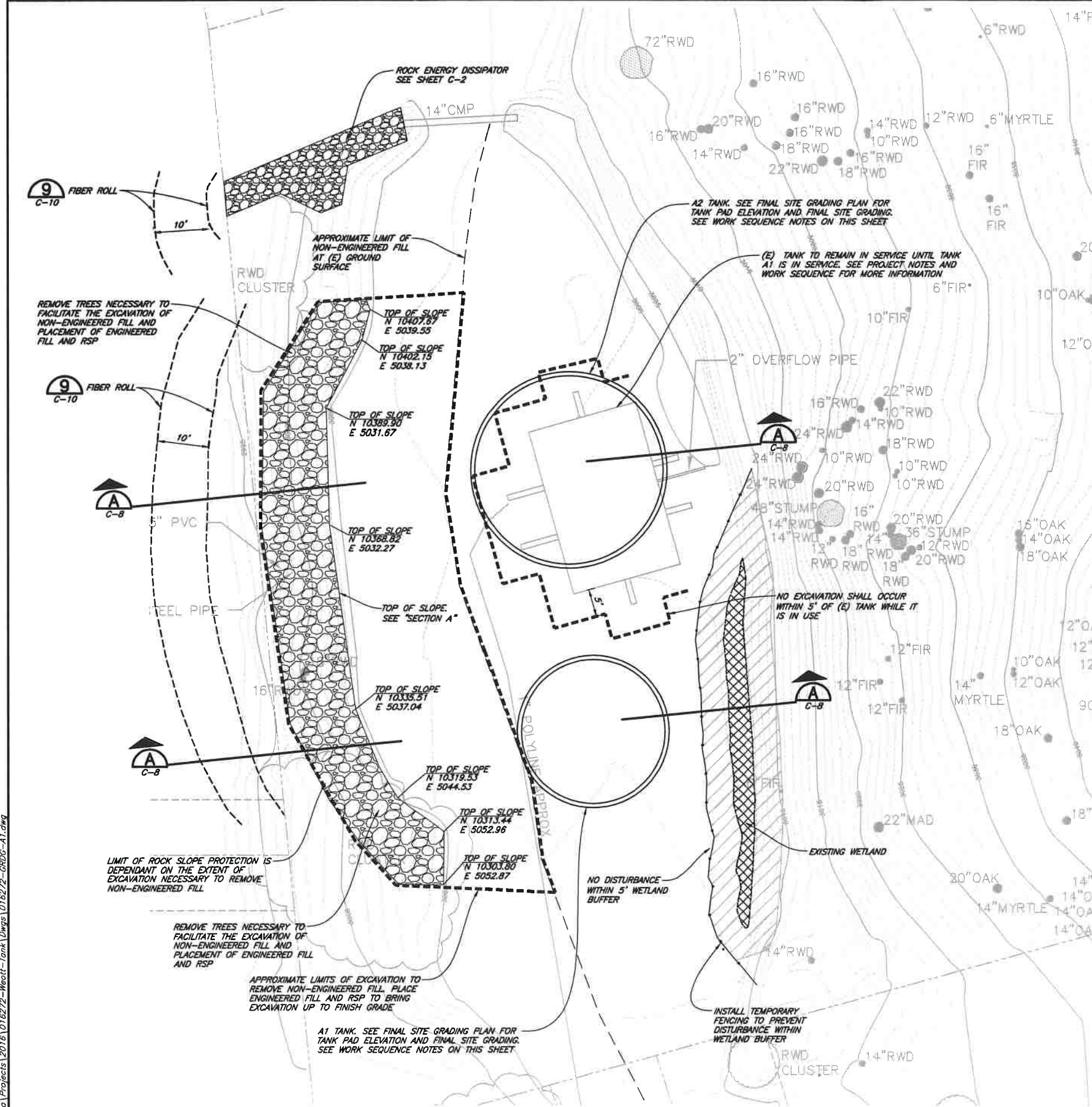


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PLN-2019-16007 Weott CSD - GPC

June 18, 2020

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NOTES:

1. SEE PROJECT GEOTECHNICAL INVESTIGATION REPORT PREPARED BY SHN, DATED APRIL, 2017.
2. EXCAVATION SHALL BE INSPECTED BY PROJECT GEOLOGIST TO CONFIRM THAT ENGINEERED FILL IS BEING PLACED ON COMPETENT NATIVE SOILS.
3. PLACEMENT OF ENGINEERED FILL SHALL BE TESTED FOR COMPACTION AT EVERY 1 FOOT INTERVAL OF COMPACTED FILL DEPTH.
4. CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL TEMPORARY FACILITIES (PIPING, VALVING, ETC) NECESSARY TO MAINTAIN A CONSTANT WATER SUPPLY FOR THE DURATION OF THE PROJECT. SEE SHEET C-2 FOR THE LAYOUT OF THE NEW PERMANENT FACILITIES. SEE SHEET C-2 FOR MORE INFORMATION REGARDING TEMPORARY PIPING.
5. SEE FINAL SITE GRADING PLAN FOR FINISH GRADE DETAILS.

PROJECT WORK SEQUENCE:

1. EXCAVATE NON-ENGINEERED FILL AND RE-BUILD SITE WITH ENGINEERED FILL AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH THE SPECIFICATIONS AND THE PROJECT GEOTECHNICAL INVESTIGATION REPORT.
2. OVER-EXCAVATE GROUND BELOW A1 TANK SITE AND PLACE ENGINEERED FILL IN ACCORDANCE WITH THESE PLANS AND THE PROJECT GEOTECHNICAL INVESTIGATION REPORT.
3. CONSTRUCT NEW A1 TANK AND YARD PIPING. TEST AND DISINFECT NEW FACILITIES.
4. ONCE A1 TANK IS APPROVED BY THE OWNER AND ENGINEER AND IS IN FULL OPERATION, DEMOLISH (E) TANK.
5. OVER-EXCAVATE GROUND BELOW A2 TANK SITE AND PLACE ENGINEERED FILL IN ACCORDANCE WITH THESE PLANS AND THE PROJECT GEOTECHNICAL INVESTIGATION REPORT.
6. CONSTRUCT NEW A2 TANK AND YARD PIPING. TEST AND DISINFECT NEW FACILITIES.
7. CONDUCT FINAL SITE GRADING AND INSTALL SECURITY FENCING.

1"=10'

REGISTERED PROFESSIONAL ENGINEER  
NAME: S. O'BARR  
No. 78125  
CIVIL  
STATE OF CALIFORNIA  
11/4/19

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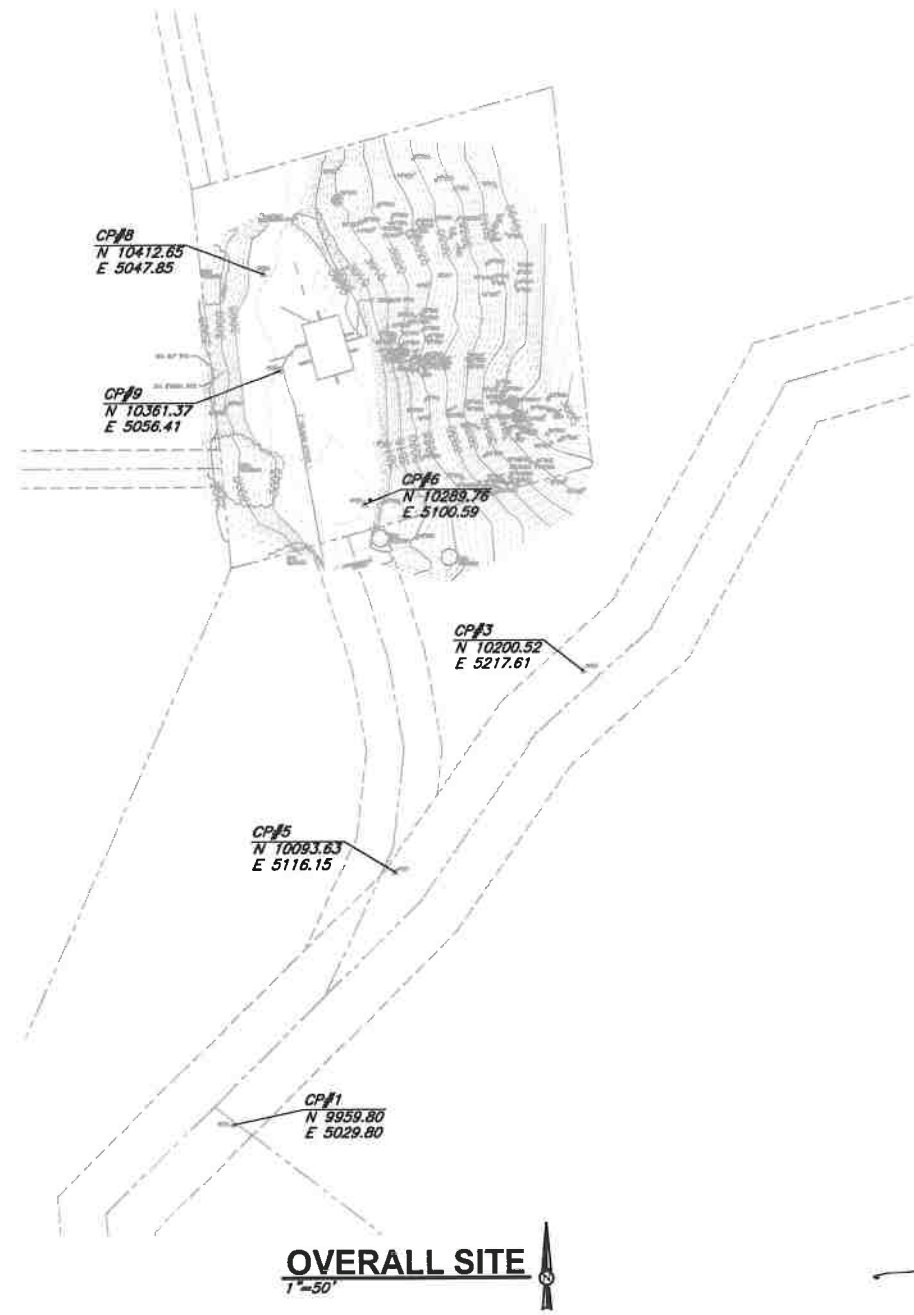
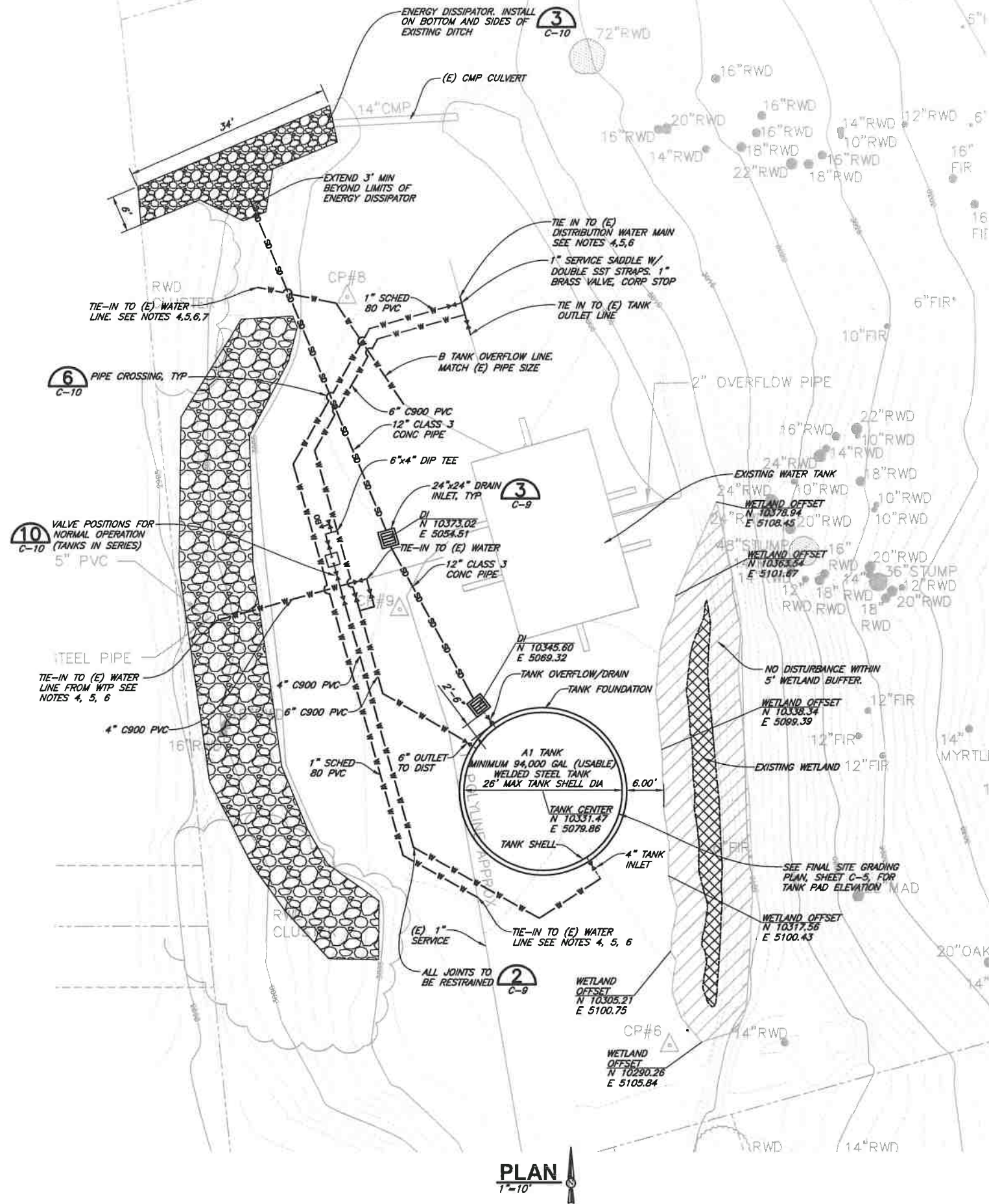
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CHECK: KUN  
APPROVED: APVD

WEOTT COMMUNITY SERVICES DISTRICT  
"A" TANK REPLACEMENT  
WEOTT, CALIFORNIA

INITIAL SITE GRADING AND EROSION CONTROL PLAN

SHEET: C-1  
SEQ: C-1  
DATE: 11/2019  
PROJ. NO.: 016272





### NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT AND VALVING FOR ALL TEMPORARY FACILITIES (PIPING, VALVING, ETC) NECESSARY TO MAINTAIN A CONSTANT WATER SUPPLY FOR THE DURATION OF THE PROJECT.
2. CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING, TESTING, AND DISINFECTING TEMPORARY WATER SYSTEM COMPONENTS. TEMPORARY FACILITIES MUST BE APPROVED BY THE OWNER AND THE ENGINEER PRIOR TO PUTTING THEM IN USE.
3. CONTRACTOR SHALL SUBMIT A THOROUGH AND COMPLETE TEMPORARY FACILITIES PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO CONTRACTOR ARRIVING ON SITE.
4. CONTRACTOR SHALL POTHOLE TO CONFIRM LOCATION AND SIZE OF BURIED UTILITIES. TIE-IN LOCATIONS SHOWN ARE APPROXIMATE.
5. RESTRAINED TRANSITION COUPLERS TO BE USED AT ALL TIE-IN LOCATIONS.
6. CONSIDER FINAL GRADES FOR ENTIRE PROJECT WHEN INSTALLING UTILITIES TO ENSURE THAT FINAL INSTALL HAS ADEQUATE COVER.
7. THE INLET ON THE EXISTING "B TANK" THAT RECEIVES OVERFLOW WATER FROM THE "A TANK" SHALL BE MODIFIED. THE CURRENT "B TANK" INLET FROM THE "A TANK" IS AT MID-TANK HEIGHT. THE EXISTING TANK INLET SHALL BE REMOVED AND CAPPED. A NEW TANK INLET SHALL BE INSTALLED NEAR THE TOP OF THE "B TANK" AND A FLOAT VALVE SHALL BE INSTALLED IN THE "B TANK" TO SHUTOFF THE FLOW OF WATER FROM THE "A TANK" WHEN THE "B TANK" IS FULL.
8. ALL VALVE BOXES, VAULTS, AND DRAIN INLET GRATES SHALL BE RATED FOR TRAFFIC LOADING.
9. ALL PIPE JOINTS TO BE RESTRAINED IN ACCORDANCE WITH DETAIL 2 ON SHEET C-9.

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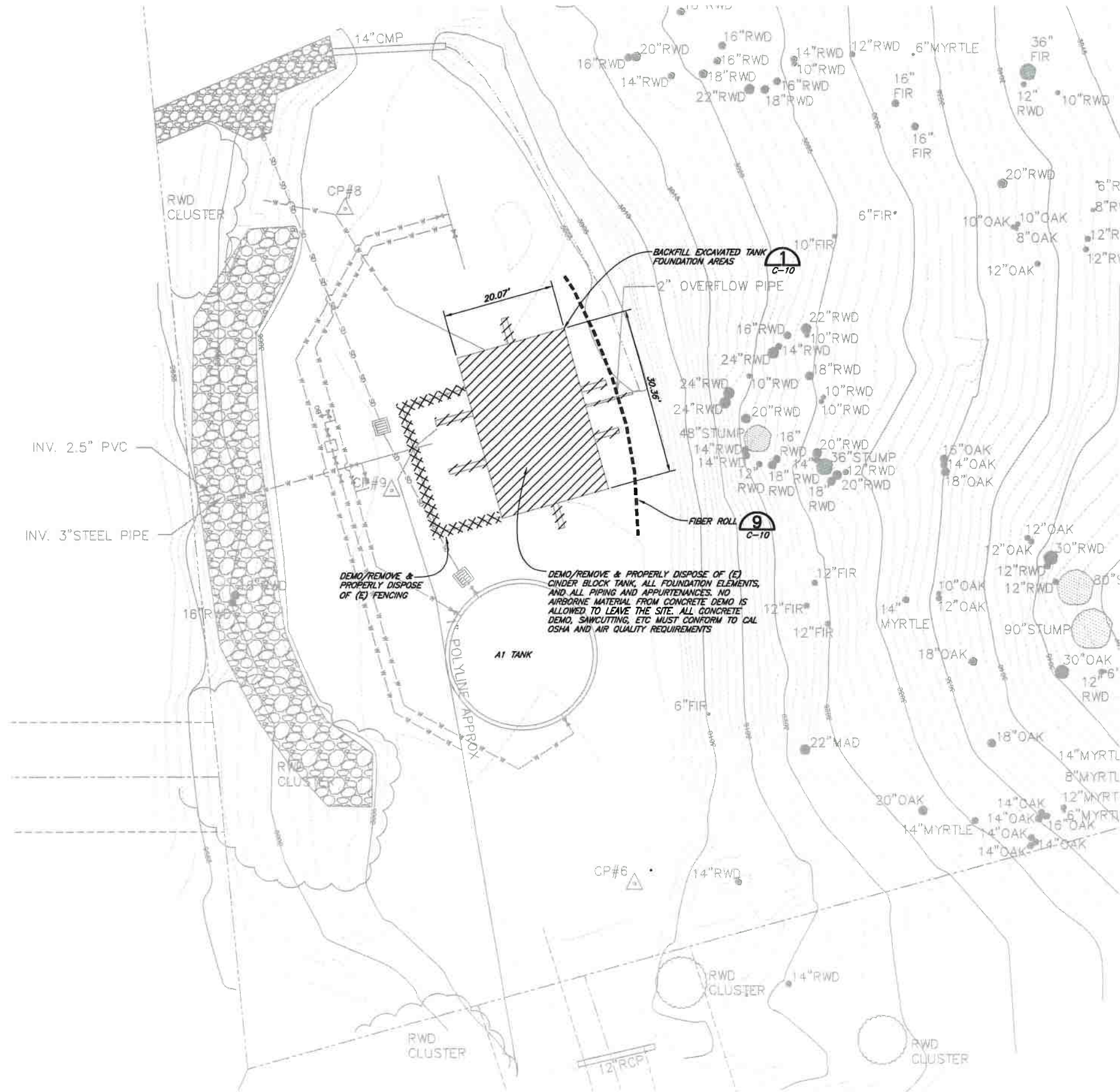
WEOTT COMMUNITY SERVICES DISTRICT  
"A" TANK REPLACEMENT  
WEOTT, CALIFORNIA  
**A1 TANK LAYOUT AND  
YARD PIPING PLAN**

SHEET  
**C-2**  
SEQ  
DATE 11/2019  
PROJ. NO.  
016272



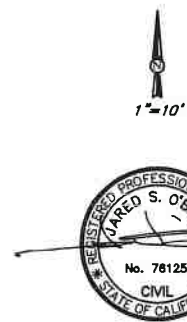


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### NOTES:

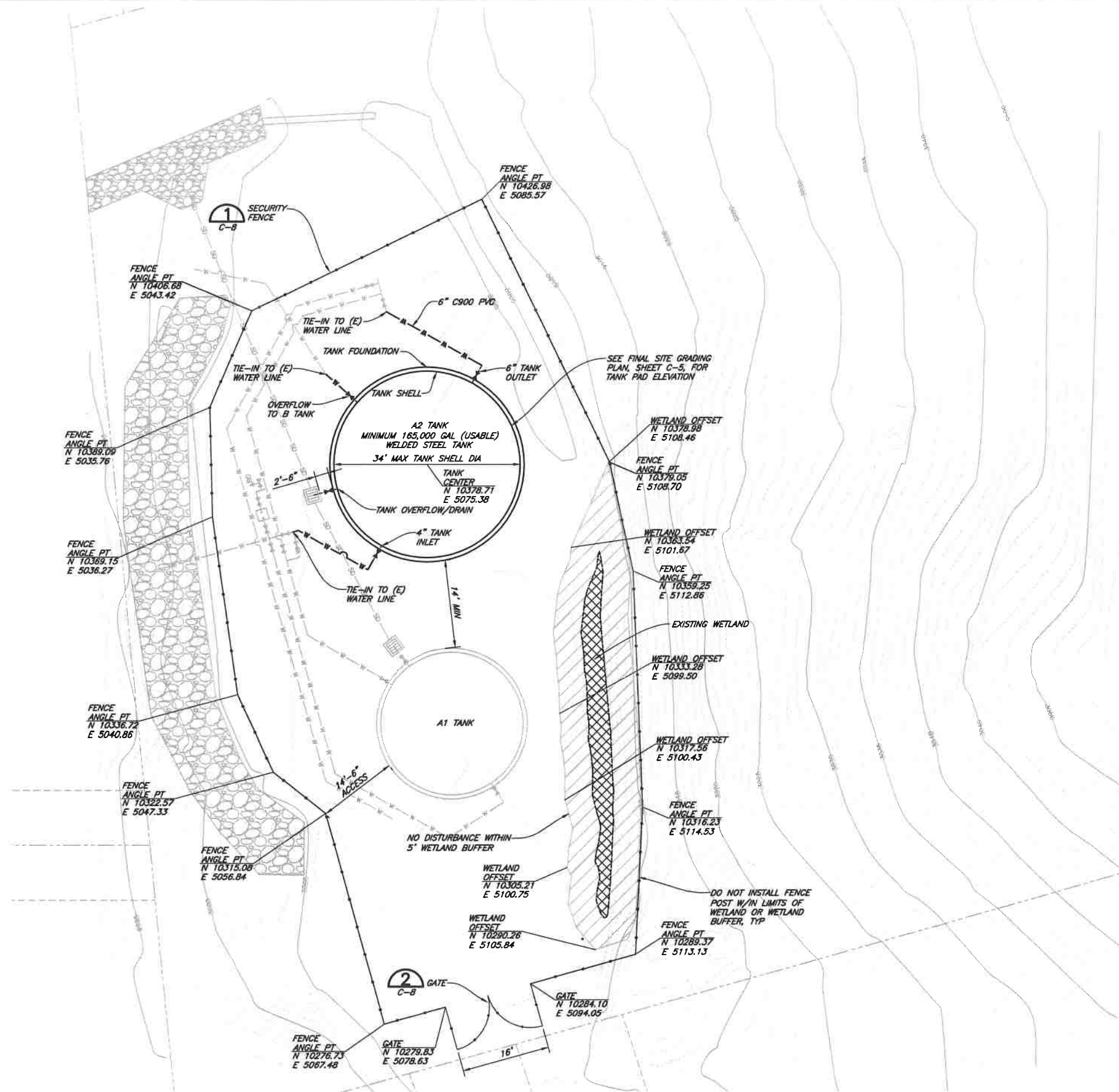
1. DEMOLITION OF THE EXISTING TANK SHALL NOT BEGIN UNTIL THE A1 TANK AND ALL VALVING AND COMPONENTS HAVE BEEN TESTED, DISINFECTED, AND APPROVED BY THE OWNER AND THE PROJECT ENGINEER, AND PLACED INTO SERVICE.
2. ALL EXISTING PIPES AND INFRASTRUCTURE LOCATED WITHIN THE ZONE OF INFLUENCE OF THE NEW TANK FOUNDATIONS SHALL BE REMOVED AND REPLACED WITH ENGINEERED FILL IN ACCORDANCE WITH THESE PLANS.
3. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY OF THE NEWLY CONSTRUCTED FACILITIES DURING THE DEMOLITION PROCESS.



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WEOTT COMMUNITY SERVICES DISTRICT "A" TANK REPLACEMENT WEOTT, CALIFORNIA	
DEMOLITION PLAN	
SHEET	C-3
SEQ	
DATE	11/2019
PROJ. NO.	016272



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## NOTES:

1. CONSTRUCTION OF A2 TANK SHALL NOT DISRUPT WATER SERVICE.
2. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY OF THE NEWLY CONSTRUCTED FACILITIES DURING THE CONSTRUCTION OF THE A2 TANK.
3. CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT AND VALVING FOR ALL TEMPORARY FACILITIES (PIPING, VALVING, ETC) NECESSARY TO MAINTAIN A CONSTANT WATER SUPPLY FOR THE DURATION OF THE PROJECT.
4. CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING, TESTING, AND DISINFECTING TEMPORARY WATER SYSTEM COMPONENTS. TEMPORARY FACILITIES MUST BE APPROVED BY THE OWNER AND THE ENGINEER PRIOR TO PUTTING THEM IN USE.
5. CONTRACTOR SHALL SUBMIT A THOROUGH AND COMPLETE TEMPORARY FACILITIES PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO CONTRACTOR ARRIVING ON SITE.
6. CONTRACTOR SHALL POT-HOLE TO CONFIRM LOCATION AND SIZE OF BURIED UTILITIES. TIE-IN LOCATIONS SHOWN ARE APPROXIMATE.
7. RESTRAINED TRANSITION COUPLERS TO BE USED AT ALL TIE-IN LOCATIONS.
8. CONSIDER FINAL GRADES FOR ENTIRE PROJECT WHEN INSTALLING UTILITIES TO ENSURE THAT FINAL INSTALL HAS ADEQUATE COVER.
9. THE INLET ON THE EXISTING "B TANK" THAT RECEIVES OVERFLOW WATER FROM THE "A TANK" SHALL BE MODIFIED. THE CURRENT "B TANK" INLET FROM THE "A TANK" IS AT MID-TANK HEIGHT. THE EXISTING TANK INLET SHALL BE REMOVED AND CAPPED. A NEW TANK INLET SHALL BE INSTALLED NEAR THE TOP OF THE "B TANK" AND A FLOAT VALVE SHALL BE INSTALLED IN THE "B TANK" TO SHUTOFF THE FLOW OF WATER FROM THE "A TANK" WHEN THE "B TANK" IS FULL.
10. ALL VALVE BOXES, VAULTS, AND DRAIN INLET GRATES SHALL BE RATED FOR TRAFFIC LOADING.
11. ALL PIPE JOINTS TO BE RESTRAINED IN ACCORDANCE WITH DETAIL 2 ON SHEET C-9.

1"=10'



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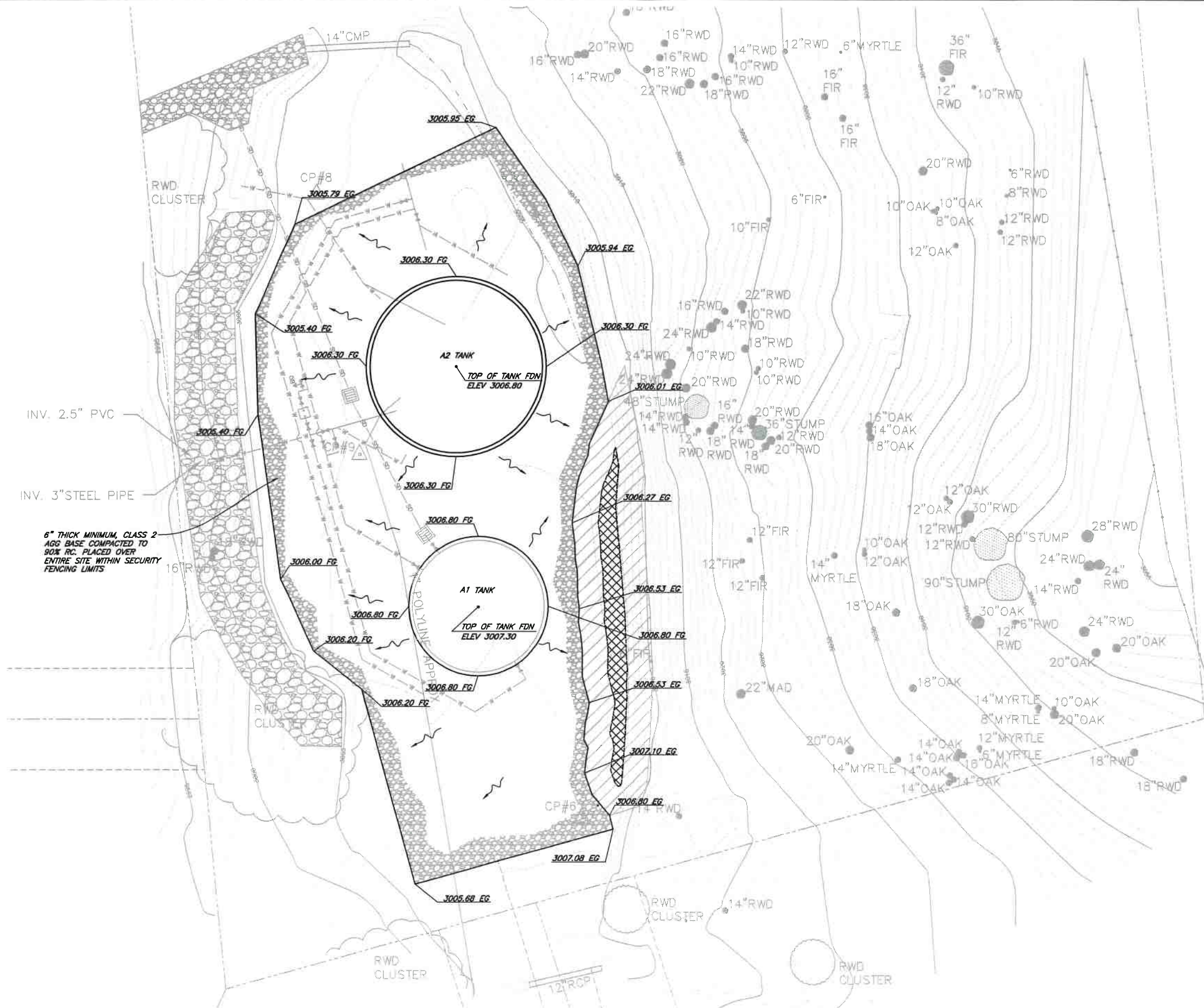
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JSD	CS/CDN	KJN					

WEOTT COMMUNITY SERVICES DISTRICT  
"A" TANK REPLACEMENT  
WEOTT, CALIFORNIA  
**A2 TANK LAYOUT AND YARD  
PIPING PLAN**

SHEET  
**C-4**  
SEQ  
DATE 11/2019  
PROJ. NO. 016272



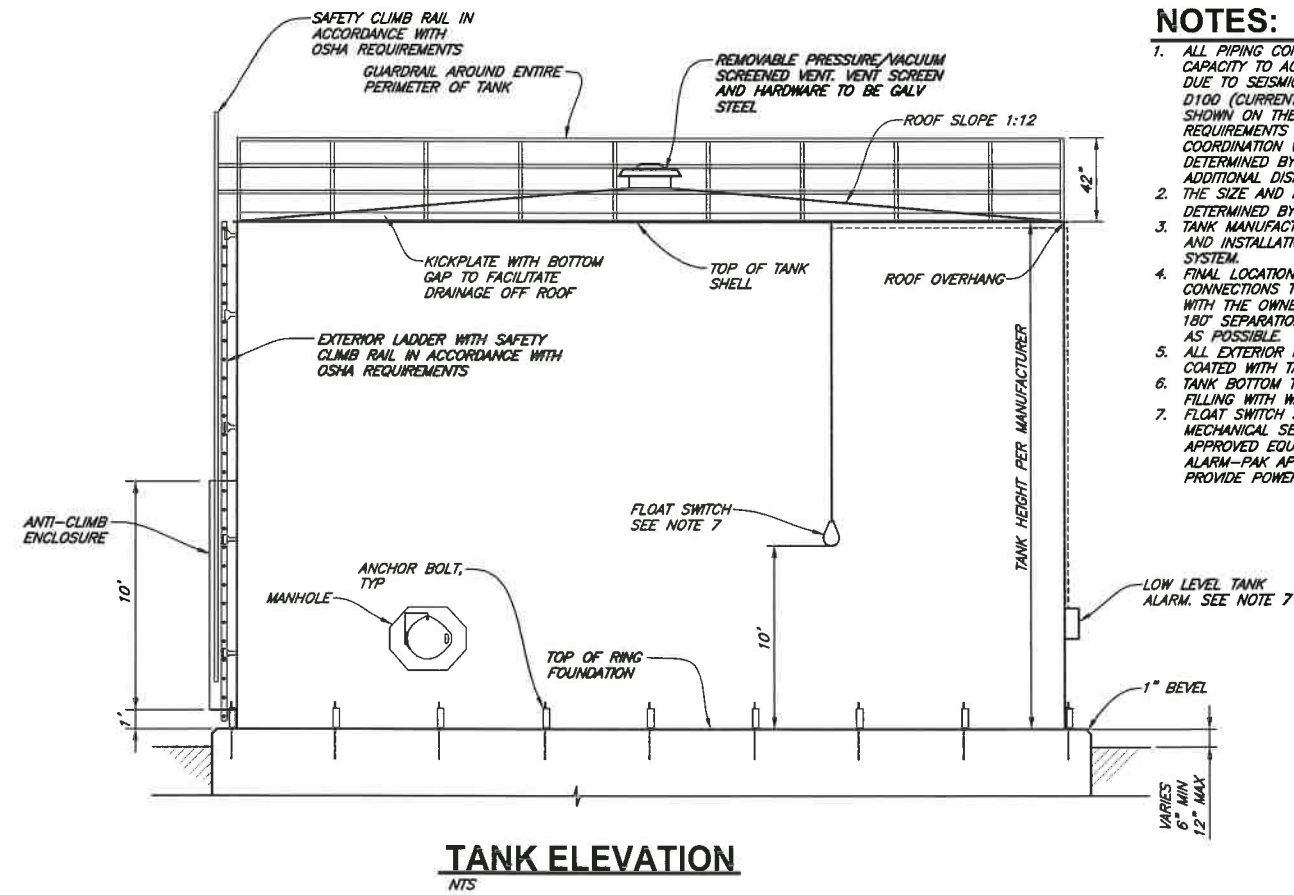
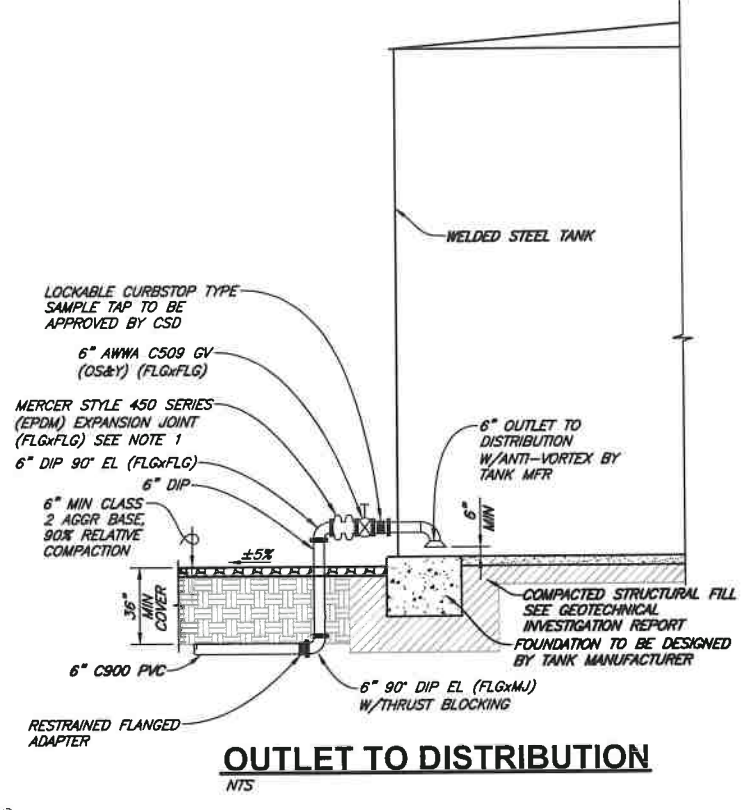
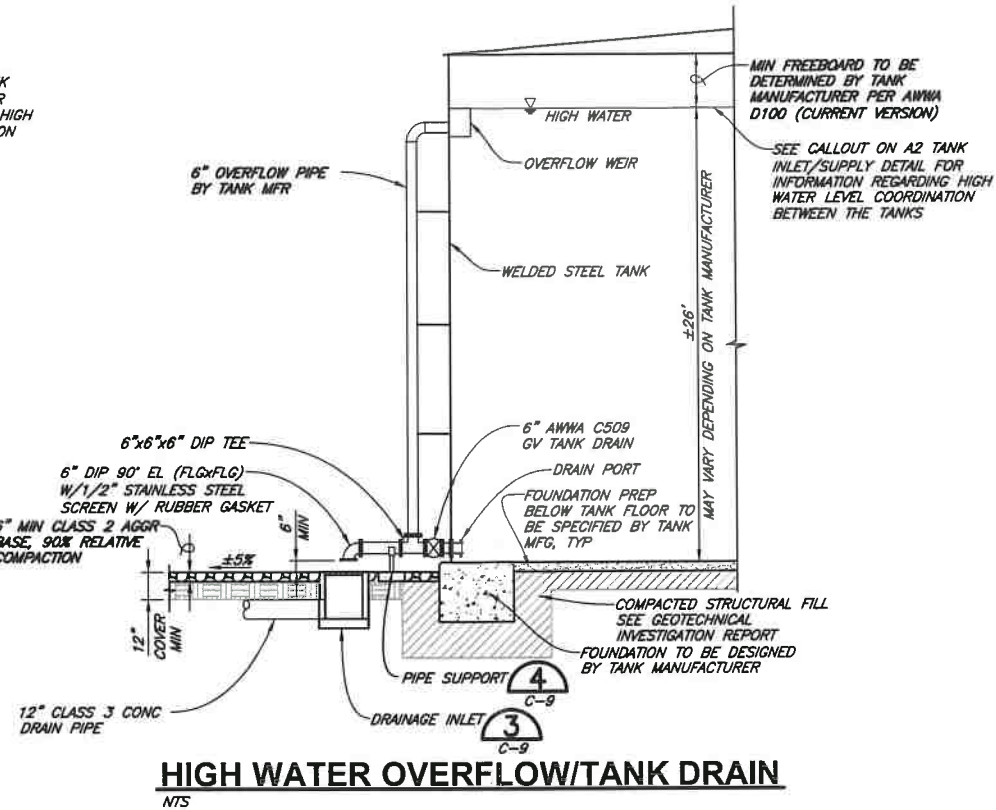
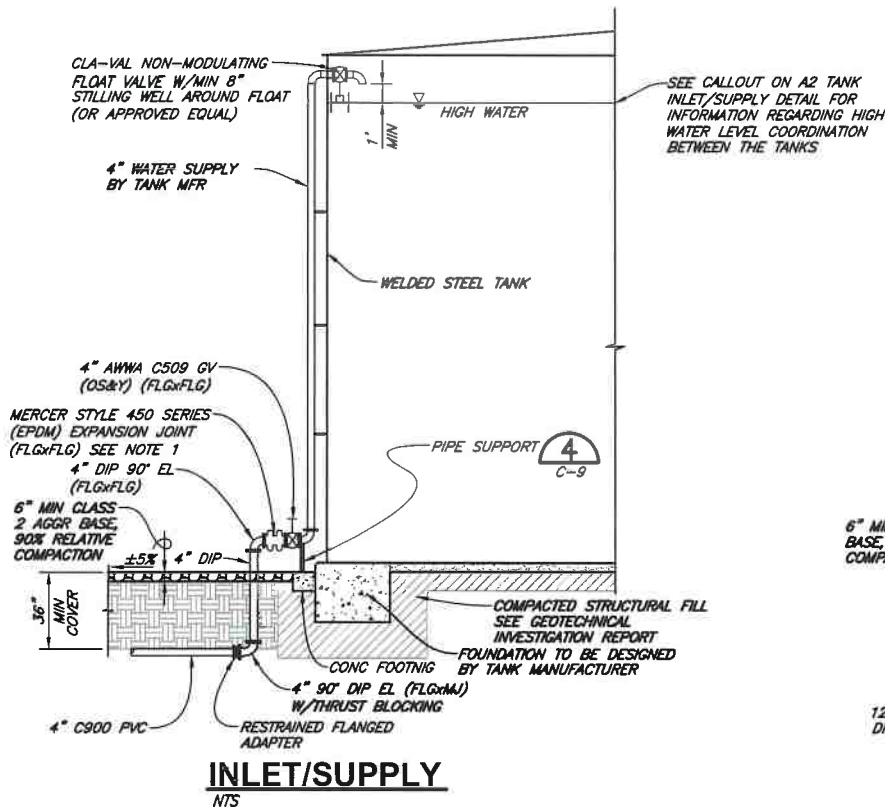
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<b>FINAL SITE GRADING PLAN</b>	
WEOTT COMMUNITY SERVICES DISTRICT "A" TANK REPLACEMENT WEOTT, CALIFORNIA	DSGN JSD DR CDN CHK KUN APVD
SHEET <b>C-5</b>	SEQ
DATE 11/2019	PROJ. NO. 016272

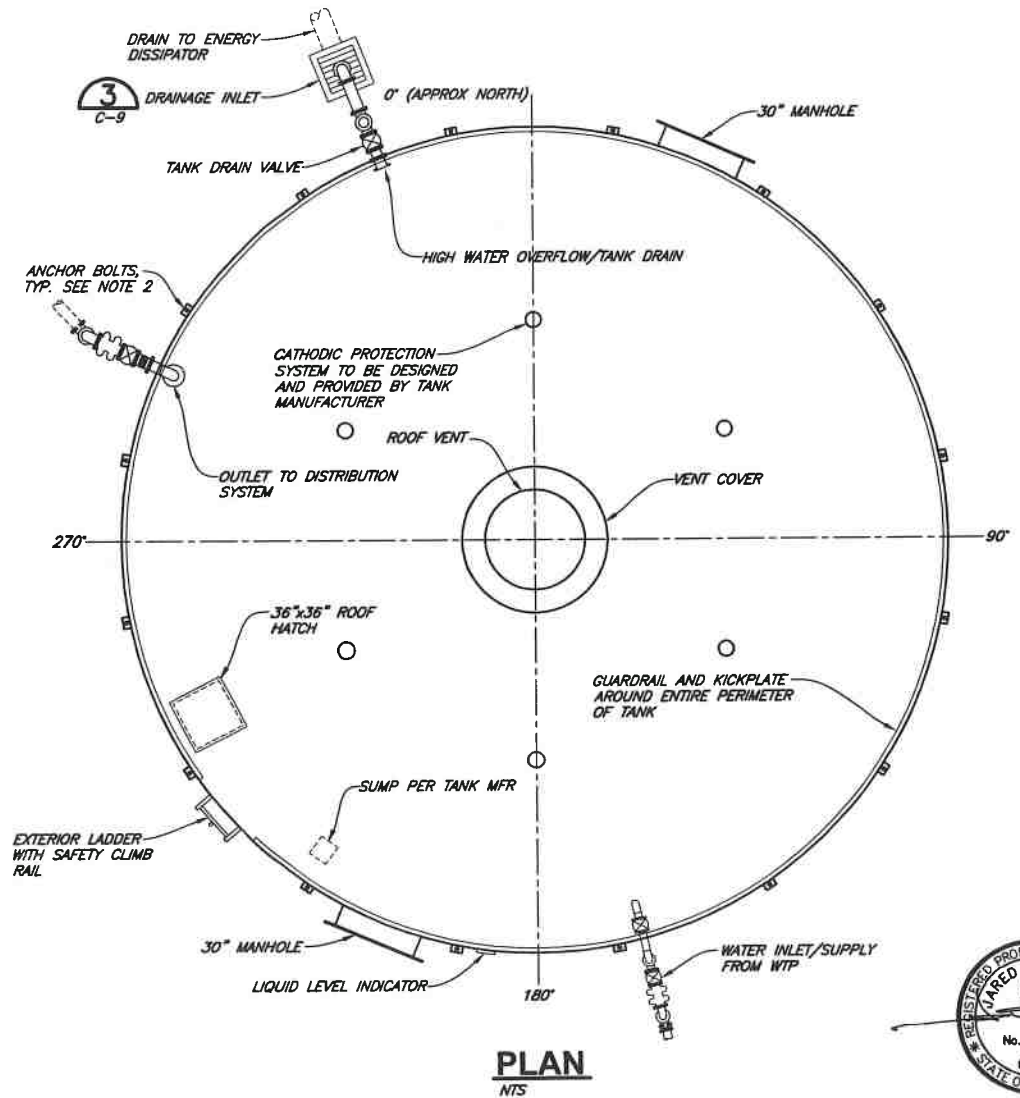



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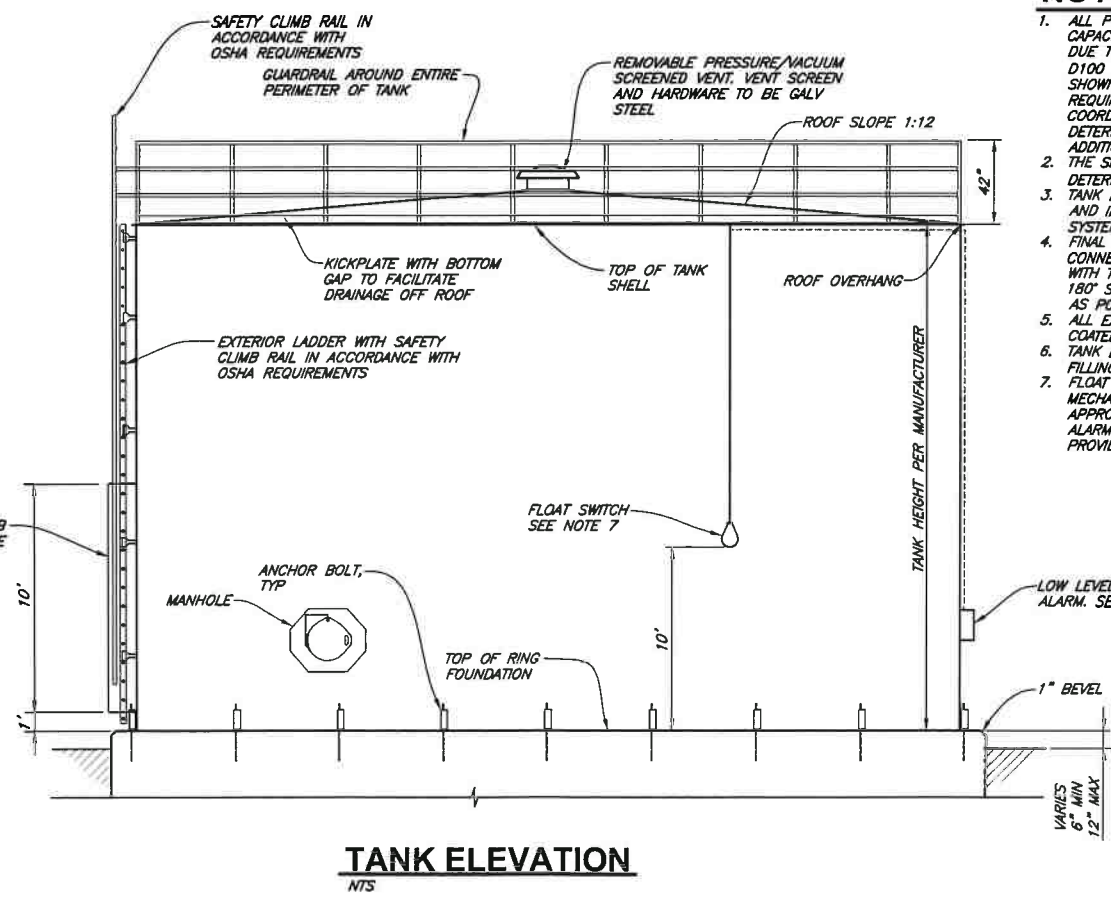
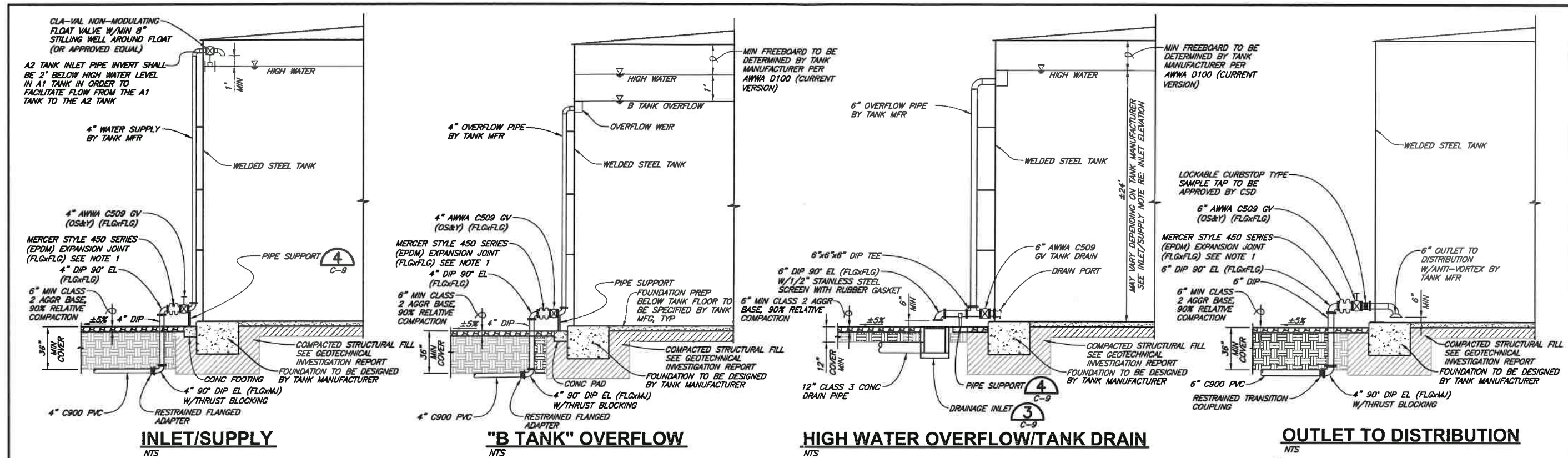
#### NOTES:

1. ALL PIPING CONNECTIONS SHALL HAVE ADEQUATE CAPACITY TO ACCOMMODATE CALCULATED DISPLACEMENTS DUE TO SEISMIC LOADS, IN ACCORDANCE WITH AWWA D100 (CURRENT VERSION). PIPING CONNECTIONS SHOWN ON THESE PLANS REPRESENT MINIMUM REQUIREMENTS AND SHOULD BE MODIFIED IN COORDINATION WITH THE ENGINEER IF IT IS DETERMINED BY THE TANK MANUFACTURER THAT ADDITIONAL DISPLACEMENT CAPACITY IS NEEDED.
2. THE SIZE AND NUMBER OF ANCHOR BOLTS SHALL BE DETERMINED BY TANK MANUFACTURER'S ENGINEER.
3. TANK MANUFACTURER SHALL COORDINATE THE DESIGN AND INSTALLATION OF THE CATHODIC PROTECTION SYSTEM.
4. FINAL LOCATION OF TANK APPURTENANCES AND PIPING CONNECTIONS TO BE DETERMINED IN COORDINATION WITH THE OWNER IN THE FIELD. PROVIDE AS CLOSE TO 180° SEPARATION BETWEEN TANK INLET AND OUTLET AS POSSIBLE.
5. ALL EXTERIOR PIPES AND PIPE SUPPORTS SHALL BE COATED WITH TANK EXTERIOR COATING SYSTEM.
6. TANK BOTTOM TO BE VACUUM TESTED PRIOR TO FILLING WITH WATER.
7. FLOAT SWITCH SHALL BE A CONNERY 2900 MECHANICAL SERIES-NARROW ANGLE FLOAT SWITCH OR APPROVED EQUAL. TANK ALARM TO BE CONNERY ALARM-PAK APK88 OR APPROVED EQUAL. OWNER WILL PROVIDE POWER SUPPLY FOR ALARM.

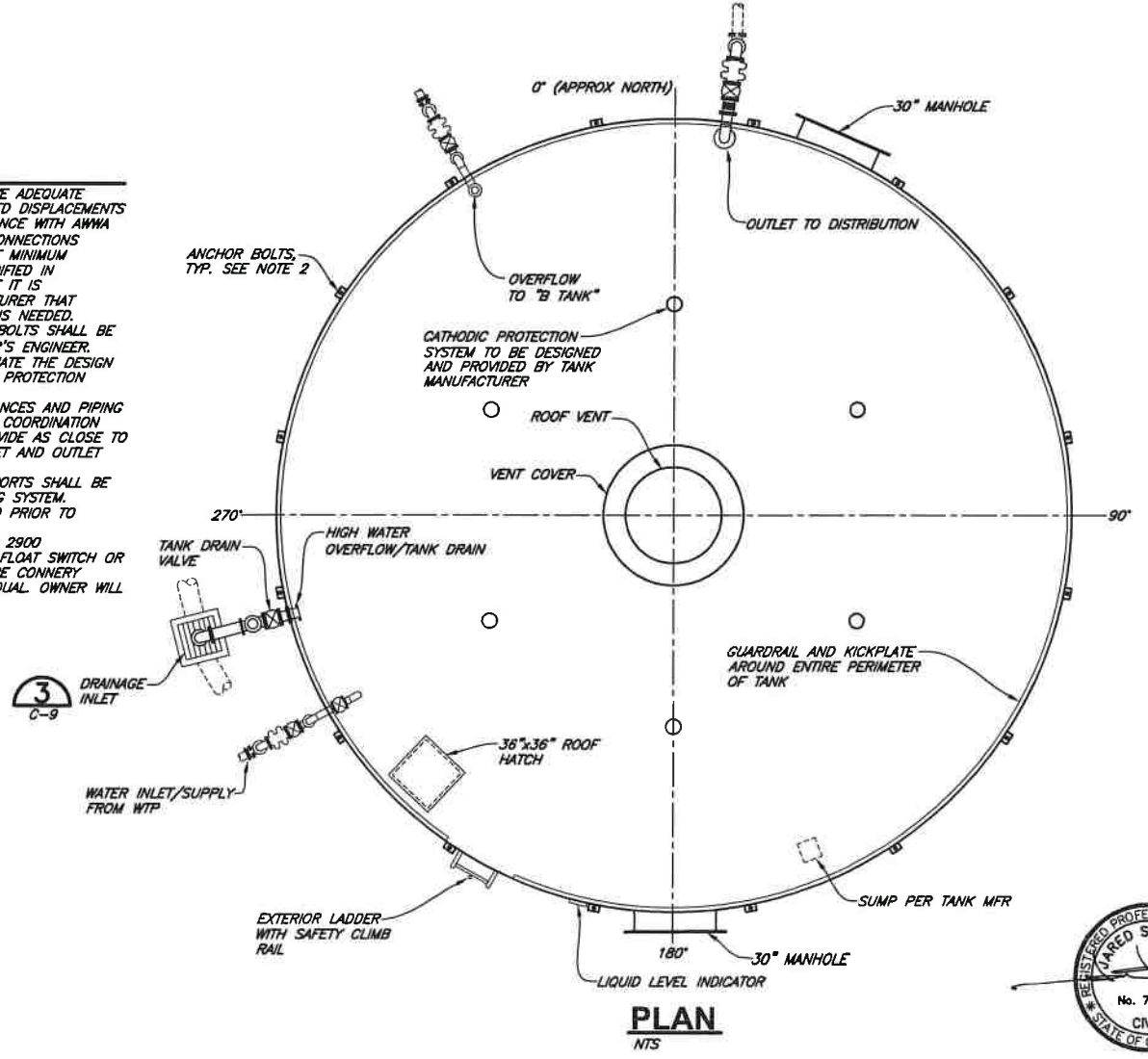


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		DR		CS/CDN	
		USGN		JSD	
WEOTT COMMUNITY SERVICES DISTRICT					
"A" TANK REPLACEMENT					
WEOTT, CALIFORNIA					
A1 TANK DETAILS					
SHEET		C-6			
DATE		11/2019			
PROJ. NO.		016272			





- NOTES:**
1. ALL PIPING CONNECTIONS SHALL HAVE ADEQUATE CAPACITY TO ACCOMMODATE CALCULATED DISPLACEMENTS DUE TO SEISMIC LOADS, IN ACCORDANCE WITH AWWA D100 (CURRENT VERSION). PIPING CONNECTIONS SHOWN ON THESE PLANS REPRESENT MINIMUM REQUIREMENTS AND SHOULD BE MODIFIED IN COORDINATION WITH THE ENGINEER IF IT IS DETERMINED BY THE TANK MANUFACTURER THAT ADDITIONAL DISPLACEMENT CAPACITY IS NEEDED.
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DR CS/CDN  
CHK KJN  
APPD APVD

WEOTT COMMUNITY SERVICES DISTRICT  
"A" TANK REPLACEMENT  
"A" WEOTT, CALIFORNIA

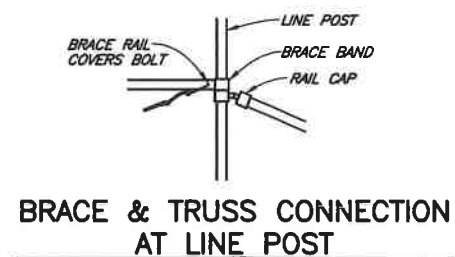
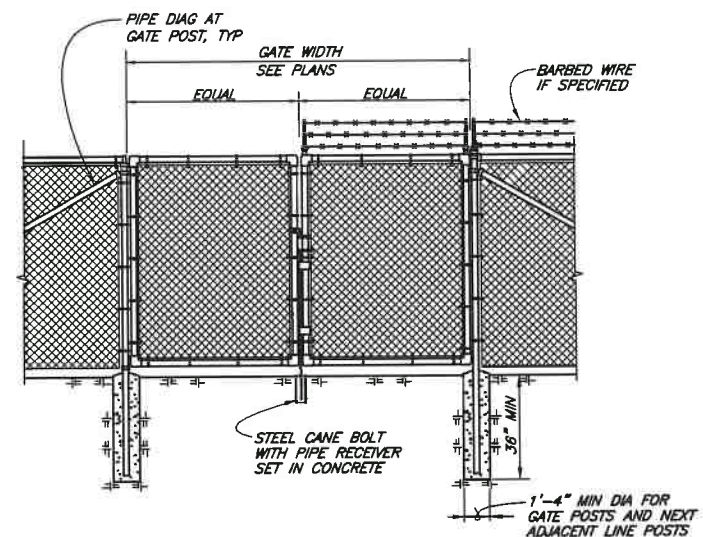
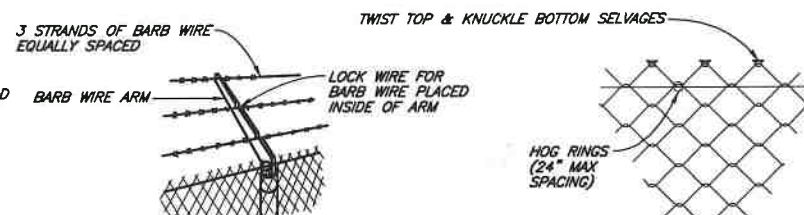
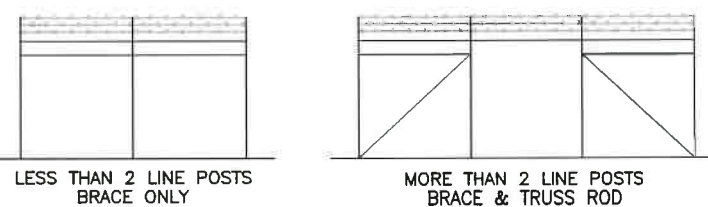
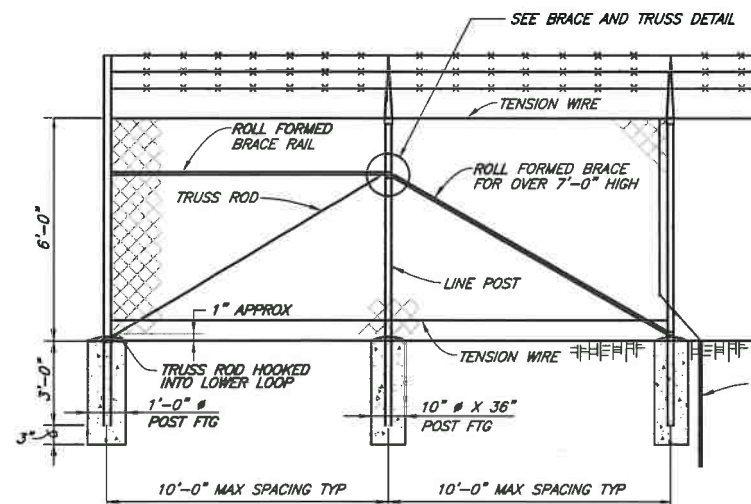
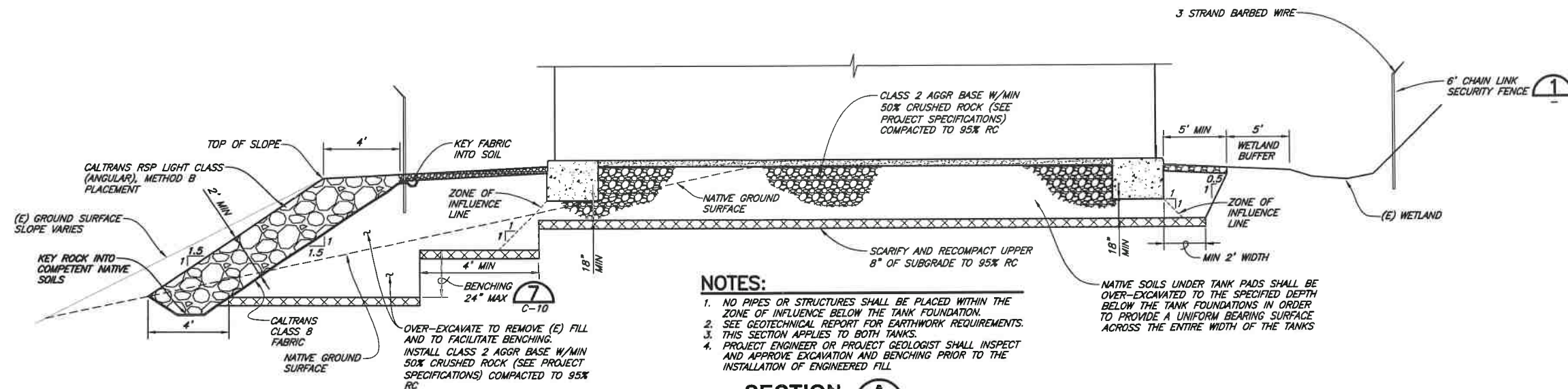
**A2 TANK DETAILS**

SHEET  
**C-7**  
SEQ  
DATE 11/2019  
PROJ. NO. 016272

11/4/19

REGISTERED PROFESSIONAL ENGINEER  
JARED S. OBARA  
No. 78125  
CIVIL  
STATE OF CALIFORNIA





MEMBER DIMENSIONS		
POST TYPE	ROUND PIPE OD	WEIGHT (LB/FT)
LINE POST	1.900"	2.72
END/LATCH/CORNER POSTS	2.375"	3.65
BRACES	1.66"	2.27
GATE POST	4.500"	10.80

WIRE / ROD SIZES	
WIRE TYPE	WIRE SIZE
FENCE FABRIC	9 GAGE
BARBED WIRE	12-1/2 GAGE
TENSION WIRE	6 GAGE
TRUSS ROD	3/8" DIA

NOTE: ALL POSTS, BRACES, WIRE, CHAIN LINK FABRIC, AND ALL OTHER METAL COMPONENTS SHALL BE GALVANIZED STEEL.

**DETAIL**   
*NTS* *C-4*  
**(SECURITY FENCE)**

**NOTE:**

1. LATCH MECHANISM SHALL BE LOCKABLE. FREE END OF GATES SHALL BE EQUIPPED WITH DEVICES TO HOLD BOTH GATES IN THE OPEN POSITION.
2. FENCE AND DOUBLE LEAF SWING GATE PER CALTRANS STANDARD DETAIL A-85.
3. ALL POSTS, BRACES, WIRE, CHAIN LINK FABRIC, AND ALL OTHER METAL COMPONENTS SHALL BE GALVANIZED STEEL.

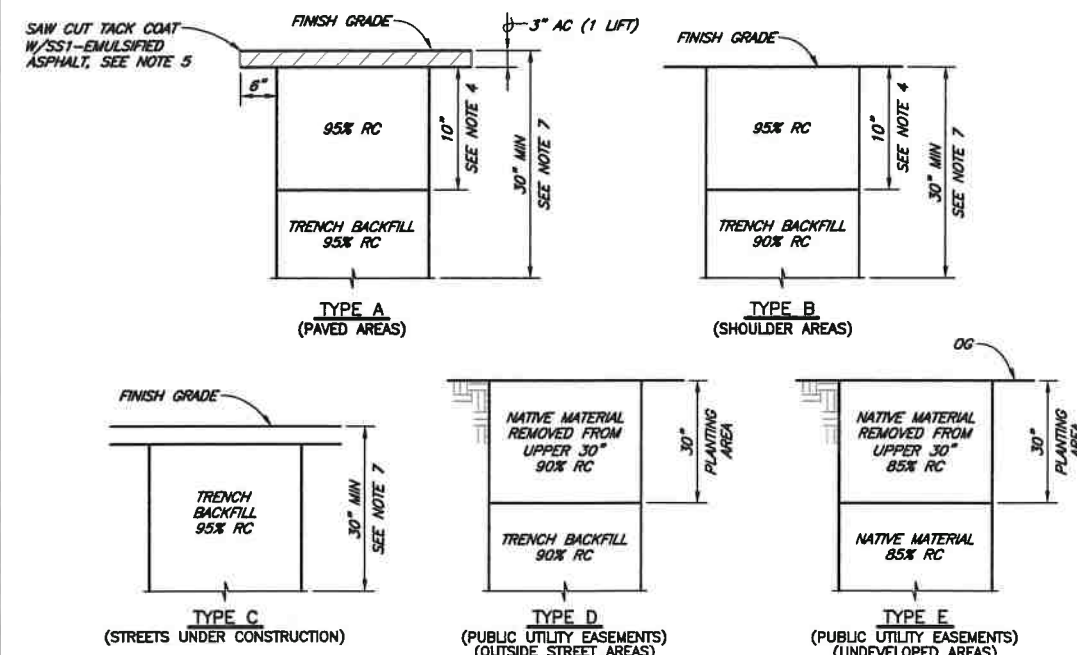
**DETAIL 2**  
*NTS* *C-4*

**(CHAIN LINK DOUBLE-SWING GATE)**

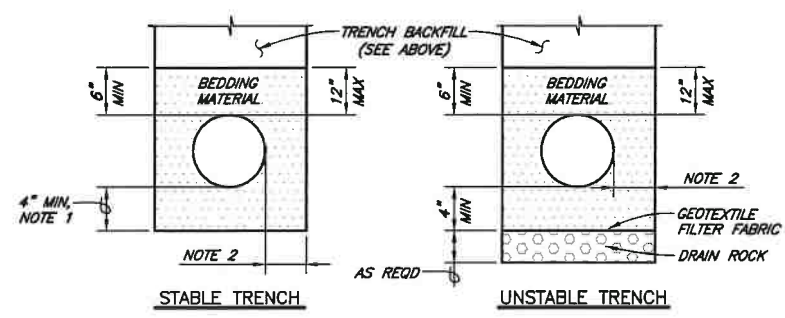




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### TRENCH BACKFILL AND SURFACING



### NOTES:

- 1/4 PIPE OD OR 4" MIN WHEN EXCAVATION IS IN ROCKY GROUND.
- PIPE DIAMETER 18" OR LESS: 6" MIN, 9" MAX/PIPE DIA GREATER THAN 18": 9" MIN, 12" MAX.
- RELATIVE COMPACTION DESIGNATED RC.
- THE MINIMUM STREET STRUCTURAL SECTION SHALL BE 3" AC ON 10" AB OR MATCH EXISTING PAVEMENT, WHICHEVER IS THICKER, SPECIFIED ON PLANS, OR REQUIRED BY ENCROACHMENT PERMIT.
- SAW CUT PAVEMENT SIX INCHES FROM EDGE OF TRENCH AFTER TRENCH IS BACKFILLED.
- MINIMUM PIPE COVER SHALL BE 36" FROM TOP OF PIPE.
- NEW STREETS AND SHOULDER AREAS UNDER CONSTRUCTION SHALL BE COMPACTED TO 95% RELATIVE COMPACTION FOR A MINIMUM DEPTH OF 30" PER CALTRANS SECTION 19-5.0.3.
- INSTALL #12 COPPER COATED TRACER WIRE ON/OVER ALL NON-METALLIC MAINS.

### DETAIL 1 (STANDARD TRENCH)

### PIPE BEDDING

### HORIZONTAL BENDS, DEAD ENDS, AND INLINE VALVES

Pipe Size	11 1/2" Band	22 1/2" Band	40" Band	90" Band	Dead End & Inline Valve
3"	2'	3'	6'	13'	36'
4"	2'	3'	6'	14'	43'
6"	2'	4'	8'	19'	60'
8"	3'	6'	11'	25'	79'
10"	3'	8'	13'	30'	94'
12"	4'	7'	15'	35'	111'
14"	4'	8'	17'	40'	129'
16"	5'	9'	18'	44'	143'
18"	5'	10'	20'	48'	158'

REQUIRED LENGTH (L) OF RESTRAINED PIPE (ON EACH SIDE OF BEND OR VALVE)

### TEES

Run Size	3"	4"	6"	8"	10"	12"	14"	16"	18"
3"	1'	1'	1'	1'	1'	1'	1'	1'	1'
4"	1'	1'	1'	1'	1'	1'	1'	1'	1'
6"	1'	1'	1'	1'	1'	1'	1'	1'	1'
8"	1'	1'	1'	1'	1'	1'	1'	1'	1'
10"	1'	1'	1'	1'	1'	1'	1'	1'	1'
12"	1'	1'	1'	1'	1'	1'	1'	1'	1'
14"	1'	1'	1'	1'	1'	1'	1'	1'	1'
16"	1'	1'	1'	1'	1'	1'	1'	1'	1'
18"	1'	1'	1'	1'	1'	1'	1'	1'	1'

REQUIRED LENGTH (L) OF RESTRAINED PIPE (ON EACH SIDE OF TEE)

NOTE: ALL TEE RUNS SHALL HAVE 10' MINIMUM RESTRAINED RUN LENGTH ON EACH SIDE OF TEE.

### REDUCERS

Run Size	3"	4"	6"	8"	10"	12"	14"	16"	18"
3"	1'	1'	1'	1'	1'	1'	1'	1'	1'
4"	1'	1'	1'	1'	1'	1'	1'	1'	1'
6"	1'	1'	1'	1'	1'	1'	1'	1'	1'
8"	1'	1'	1'	1'	1'	1'	1'	1'	1'
10"	1'	1'	1'	1'	1'	1'	1'	1'	1'
12"	1'	1'	1'	1'	1'	1'	1'	1'	1'
14"	1'	1'	1'	1'	1'	1'	1'	1'	1'
16"	1'	1'	1'	1'	1'	1'	1'	1'	1'
18"	1'	1'	1'	1'	1'	1'	1'	1'	1'

REQUIRED LENGTH (L) OF RESTRAINED PIPE (ON LARGE SIDE OF REDUCER)

### VERTICAL OFFSET

Offset	L1	L2
3"	4'	17'
4"	4'	18'
6"	5'	25'
8"	7'	33'
10"	8'	39'
12"	9'	46'
14"	11'	54'
16"	12'	59'
18"	13'	66'

REQUIRED LENGTH OF RESTRAINED PIPE

NOTE: RESTRAINED JOINT LENGTHS BASED ON 45° FITTINGS.

### NOTES:

- JOINT RESTRAINT DEVICES SHALL BE USED IN LIEU OF THRUST BLOCKING FOR ALL PRESSURE MAIN AND APPURTENANCE INSTALLATIONS UNLESS PROJECT PLANS OR DESIGN CONDITIONS SPECIFICALLY REQUIRE THRUST BLOCKING.
- THE RESTRAINED LENGTHS LISTED IN THE ABOVE TABLES ARE VALID FOR THE FOLLOWING INSTALLATION CONDITIONS:

SOIL CLASSIFICATION: GW (ASTM STD. D2487); INCLUDES CLASS 2 AGGREGATE BASE BACKFILL  
TRENCH TYPE: TYPE 5 (AWWA C805)  
TEST PRESSURE: 150 PSI  
SAFETY FACTOR: 2 TO 1  
DEPTH OF BURY: 36" FROM SURFACE TO TOP OF PIPE  
PIPE TYPE: PVC C900

WHERE INSTALLATION CONDITIONS DO NOT MATCH THOSE LISTED ABOVE, THE RESTRAINED LENGTHS SHALL BE RECALCULATED TO SUIT THE ACTUAL SITE CONDITIONS. ALL REVISED CALCULATIONS SHALL BE MADE WITH A TEST PRESSURE OF 150 PSI MINIMUM AND A SAFETY FACTOR OF 2. REVISED RESTRAINED LENGTHS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PIPE INSTALLATION.

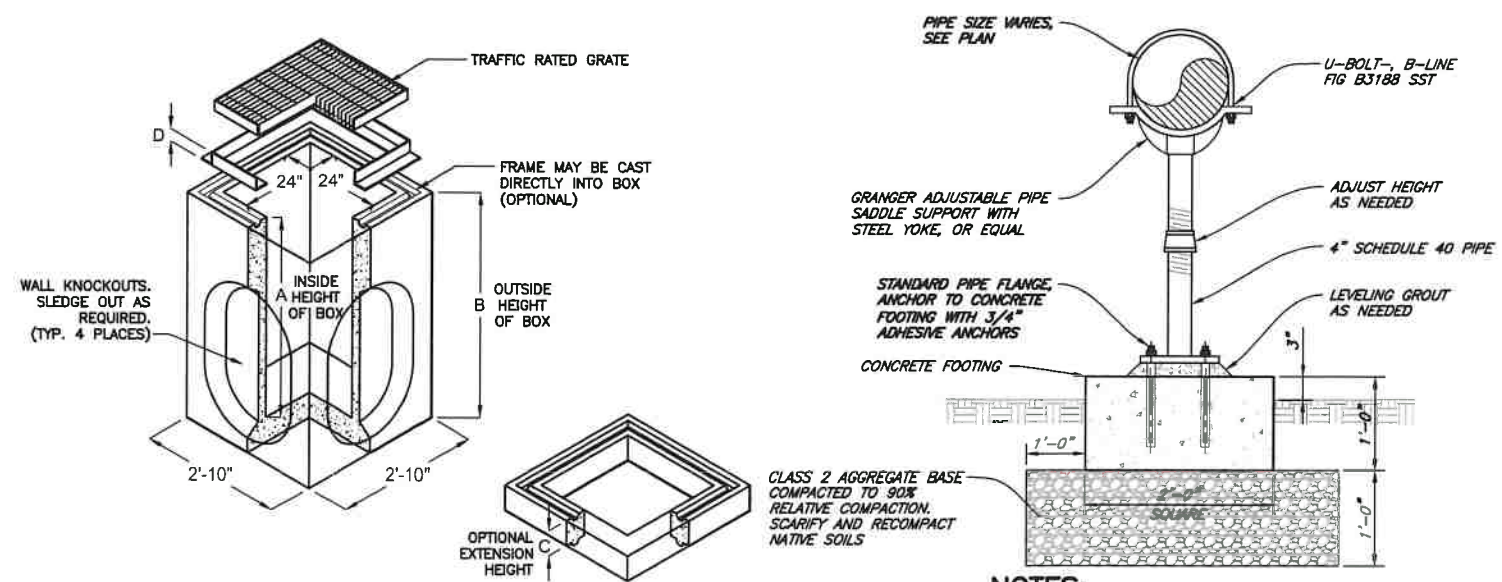
- ALL RESTRAINT FITTINGS SHALL BE FACTORY MANUFACTURED AND APPROVED FOR USE BY THE ENGINEER PRIOR TO PIPE INSTALLATION. THE FOLLOWING RESTRAINT FITTINGS HAVE BEEN PREQUALIFIED FOR USE:

MECHANICAL JOINT GLANDS: ROMAC 'GRIPRING' PIPE RESTRAINER  
EBBA IRON SERIES 2000 PV

BELL AND SPIGOT JOINTS: ROMAC MODEL 611 (4" THROUGH 8")  
EBBA IRON SERIES 1800 (4" THROUGH 12")  
EBBA IRON SERIES 2800 (14" THROUGH 36")

- ALL MECHANICAL JOINT CONNECTIONS AT FITTINGS SHALL BE RESTRAINED.

### DETAIL 2 (PVC RESTRAINED JOINT INSTALLATION)



### DETAIL 3 (DRAINAGE INLET)

### DETAIL 4 (PIPE SUPPORT)

NOTES:  
1. ALL STEEL COMPONENTS TO BE GALVANIZED STEEL



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WWW.SHN-ENGR.COM  
812 W. WABASH AVE.  
EUREKA, CA 95501  
707-441-9855

DESIGN	JSO	DR	CDN	CHK	KJN	APVD	
BY							
REVISION							
DATE							
NO.							

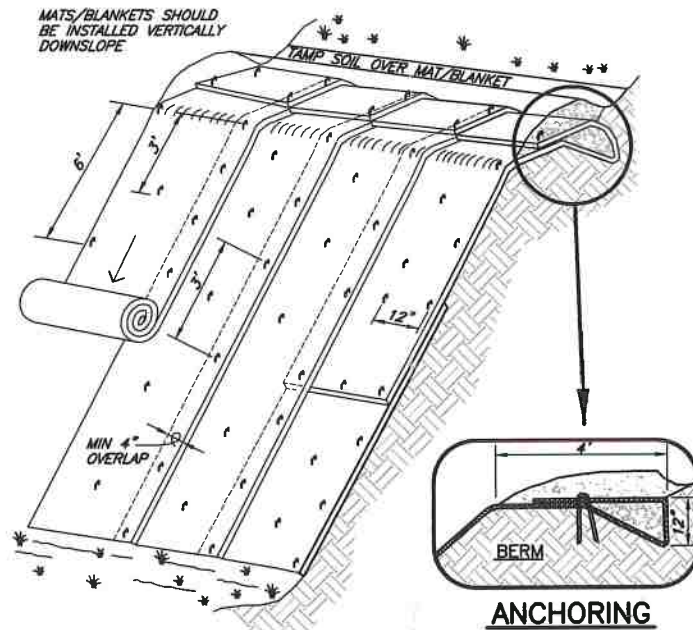
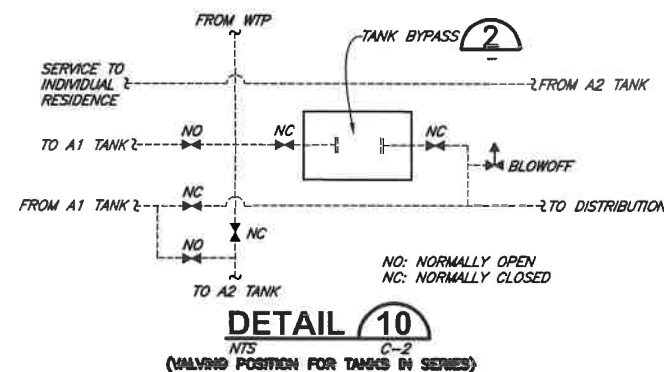
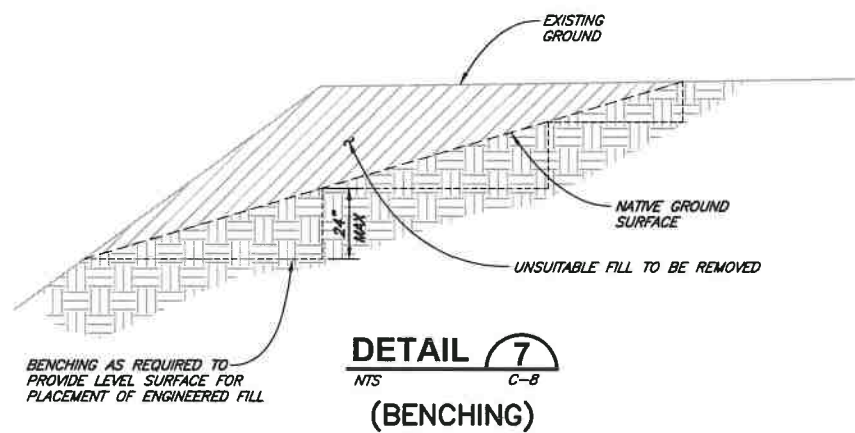
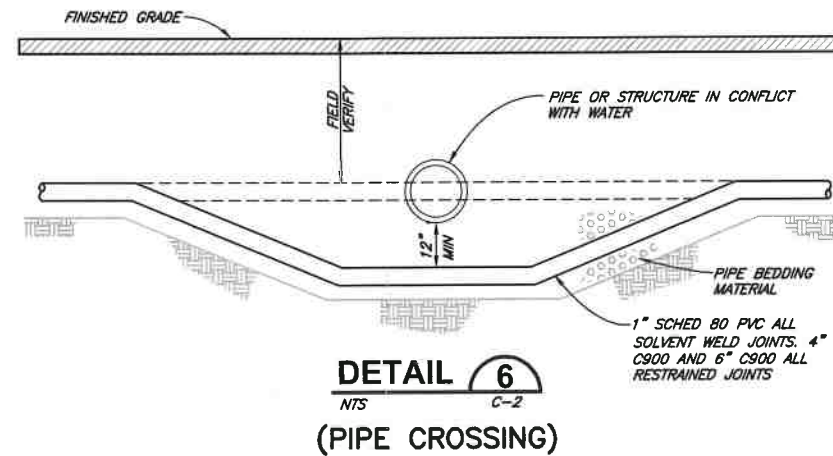
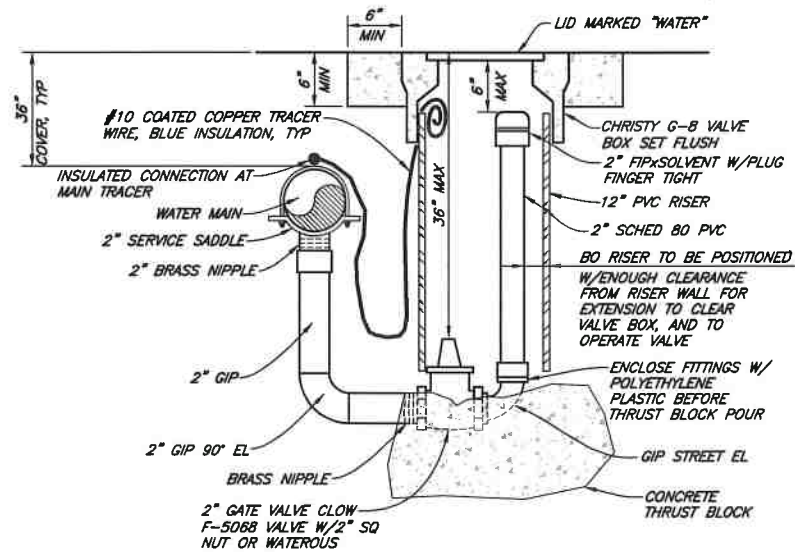
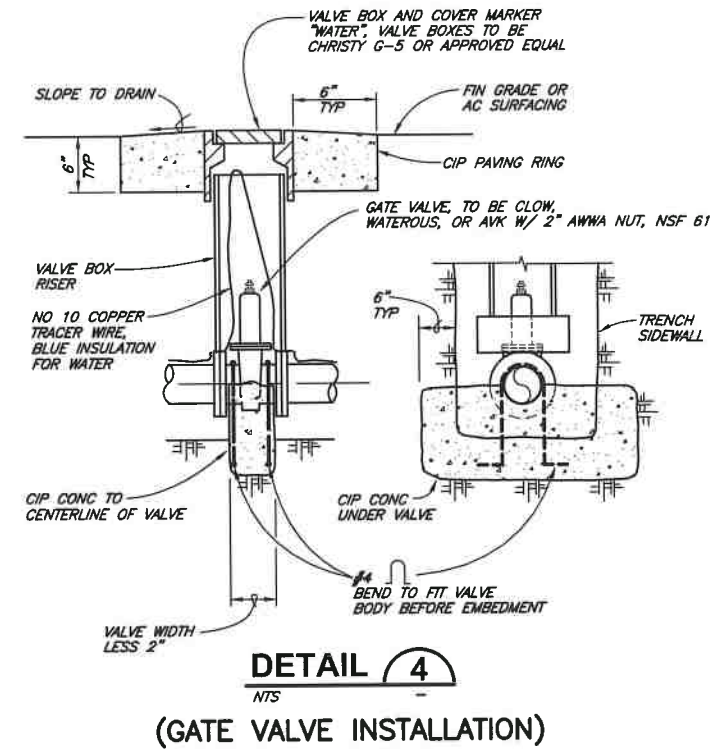
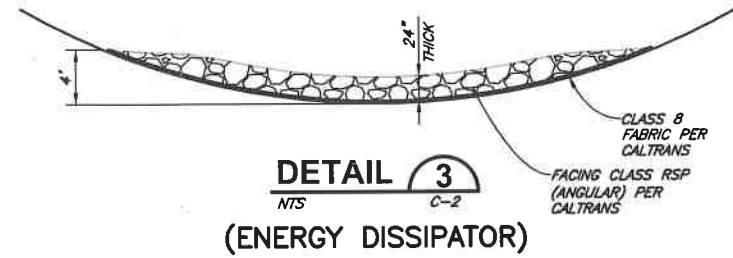
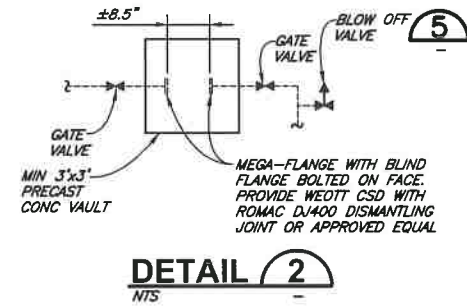
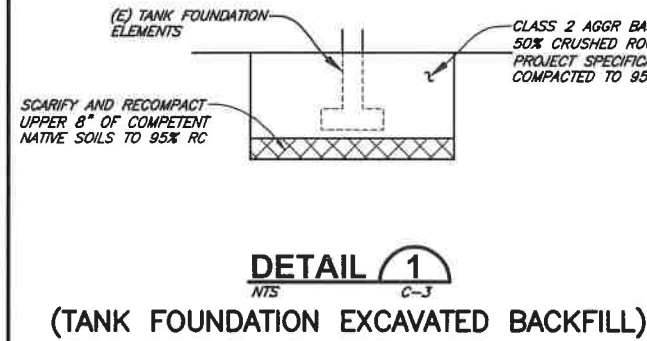
WEOTT COMMUNITY SERVICES DISTRICT  
"A" TANK REPLACEMENT  
WEOTT, CALIFORNIA

DETAILS

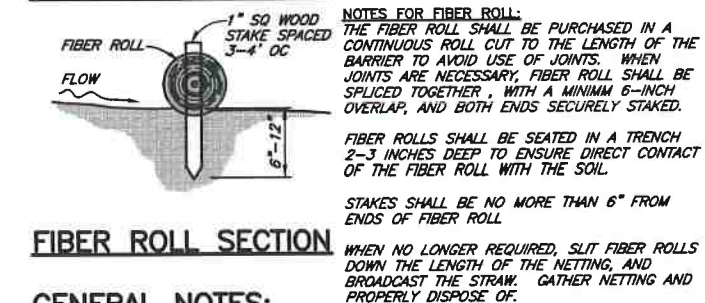
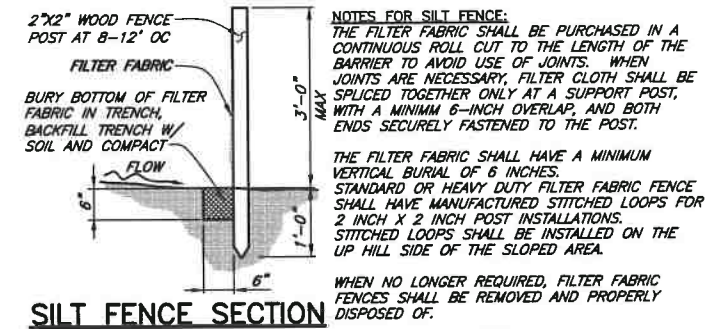
SHEET	C-9
DATE	11/2019
PROJ. NO.	016272



SAVED: 11/14/2019 3:41 PM CNEWELL, PLOTTED: 11/14/2019 3:45 PM CHRIS D. NEWELL  
\\Eureka\Projects\2016\016272-Weott-Tank\Drawings\016272-DTL5.dwg



ISOMETRIC ELEVATION



- GENERAL NOTES:**
1. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS WHERE FEASIBLE.
  2. ALL EXCAVATED MATERIAL FROM FILTER FABRIC FENCE INSTALLATION SHALL BE BACK FILLED AND COMPACTED, ALONG THE ENTIRE DISTURBED AREA.
  3. BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY PROTECTED AND STABILIZED.
  4. SEDIMENT SHALL BE REMOVED WHEN IT BUILDS UP TO 1/3 OF THE BARRIER HEIGHT.



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707-441-8855

NO.	DATE	REVISION	BY

DESIGN	DR	CHK	KIN	APVD
JSD				

WEOTT COMMUNITY SERVICES DISTRICT  
"A" TANK REPLACEMENT  
WEOTT, CALIFORNIA

**DETAILS**

SHEET	SEQ	DATE	PROJ. NO.
C-10		11/2019	016272

11/4/19

## ATTACHMENT 5

### BMP & AVOIDANCE & MINIMIZATION MEASURES

#### **Timing of Construction**

WCSD plans to construct the proposed project as soon as the applicable permits and approvals have been received and funding has been secured (anticipated to be in 2020). The proposed WTP upgrades are anticipated to occur over approximately 100 days between the hours of 7:30 am and 5:30 pm, with no seasonal restriction anticipated or proposed. The proposed tank replacement is anticipated to occur over approximately 120 days between the hours of 7:30 am and 5:30 pm. Project activities at the tank site near the wetland that provides amphibian habitat will occur from July 15 through October 31 to minimize potential impacts to amphibians.

#### **Best Management Practices and Avoidance and Minimization Measures**

The following construction best management practices (BMPs) and avoidance and minimization measures will be implemented during construction:

- The new water tanks shall maintain a setback from the wetland at the tank site at least as far as the setback of the existing tank.
- Equipment and construction personnel shall stay out of the wetland during construction at the tank site.
- Temporary fencing shall be installed between the wetland and the project during demolition and construction at the tank site to prevent accidental incursion into the wetland.
- Project activities at the tank site near the wetland that provides amphibian habitat shall occur from July 15 through October 31 to minimize potential impacts to amphibians.
- Stormwater BMPs shall be incorporated during construction.
  - Stabilize exposed soils at the end of the job, using mulch or other erosion control measures.
  - If revegetation is needed as part of the project, native plant species shall be used.

- All trash shall be removed from the work site and disposed of on a regular basis.
- All equipment used during construction shall be free of oil and fuel leaks at all times.
- Hazardous materials management equipment, including oil containment booms and absorbent pads shall be available and immediately on hand at the project site. A registered first-response, professional, hazardous materials clean-up/remediation service shall be locally available on call.
- Any accidental spill shall be contained rapidly and cleaned up. In the event of a spill, WCSD shall notify the appropriate regulatory agencies immediately.
- To avoid potential impacts to nesting birds, in accordance with the Migratory Bird Treaty Act, one of the following shall be implemented:
  - Conduct any vegetation removal and other ground-disturbance activities associated with construction activities between August and mid-March, when birds are not typically nesting.
  - If vegetation removal or ground-disturbing activity is to take place during the nesting season (March 15 to August 1 for most birds), a qualified biologist shall conduct a pre-construction nesting bird survey. Pre-construction surveys for nesting pairs, nests, and eggs shall occur within the construction limits and within 100 feet (200 feet for raptors) of the construction limits. If active nests are encountered, species-specific measures shall be prepared by a qualified biologist in consultation with the USFWS and CDFW, and implemented to prevent abandonment of the active nest.

**ATTACHMENT 6**  
**CDFW COMMENTS**



**Subject:** RE: App 16007 General Plan Conformance Review Weott CSD improvements - Bio Assessment  
**Date:** Wednesday, April 29, 2020 at 4:11:34 PM Pacific Daylight Time  
**From:** Van Hattem, Michael@Wildlife  
**To:** Odry, Zsafia  
**CC:** Leppig, Gordon@Wildlife, Sanville, Cheri@Wildlife  
**Attachments:** image001.png

Zsafia,

Thank you for referring this project to CDFW Eureka Field Office for comment. My general thoughts on the report are that it was conducted with adequate scoping, the project is explained well, the report is easy to follow, and the biologist are qualified to conduct the stated activities. Site specific information is adequate and methods and photographs are helpful for filling in questions I had on the text. The timing of the surveys was good but ideally a wetland delineation is conducted earlier in the season. Never the less, this is a good report and additional comments/questions are not warranted.

I recommend that the County include the recommendations of this report as Conditions of Approval for the project. All of the recommendations are merited, and the Weott CSD should implement the invasive plant removal maintenance work and those activities should occur twice a year until those species are eliminated.

Thank you for referring the project to CDFW.

M

**Michael G. van Hattem** | Senior Environmental Scientist | Coastal Conservation Planning | 707-499-9457 Cell  
| [Michael.vanHattem@Wildlife.ca.gov](mailto:Michael.vanHattem@Wildlife.ca.gov)

---

**From:** Odry, Zsafia <zodry1@co.humboldt.ca.us>  
**Sent:** Tuesday, April 28, 2020 12:59 PM  
**To:** Van Hattem, Michael@Wildlife <Michael.vanHattem@wildlife.ca.gov>  
**Subject:** RE: App 16007 General Plan Conformance Review Weott CSD improvements - Bio Assessment

**Warning:** This email originated from outside of CDFW and should be treated with extra caution.

Thank you Michael! If you're able to give comments by May 6<sup>th</sup>, that would be fabulous! I will be drafting the staff report next week and it will be due to my supervisor by the end of the week.

Best wishes,



**Zsafia Odry**  
Planner  
[Planning and Building Department](#)  
Direct: 707.268.3727  
Main: 707.445.7541  
[zodry1@co.humboldt.ca.us](mailto:zodry1@co.humboldt.ca.us)

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**From:** Van Hattem, Michael@Wildlife <[Michael.vanHattem@wildlife.ca.gov](mailto:Michael.vanHattem@wildlife.ca.gov)>  
**Sent:** Monday, April 27, 2020 1:03 PM  
**To:** Odry, Zsofia <[zodry1@co.humboldt.ca.us](mailto:zodry1@co.humboldt.ca.us)>  
**Subject:** RE: App 16007 General Plan Conformance Review Weott CSD improvements - Bio Assessment

I don't know if Jen looked at this but I don't think anyone else would have unless there is a streambed alteration agreement involved?

I can review, when do you need comments by?  
THX  
M

**Michael G. van Hattem** | Senior Environmental Scientist | Coastal Conservation Planning | 707-499-9457 Cell  
| [Michael.vanHattem@Wildlife.ca.gov](mailto:Michael.vanHattem@Wildlife.ca.gov)

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**From:** Odry, Zsofia <[zodry1@co.humboldt.ca.us](mailto:zodry1@co.humboldt.ca.us)>  
**Sent:** Monday, April 27, 2020 12:38 PM  
**To:** Van Hattem, Michael@Wildlife <[Michael.vanHattem@wildlife.ca.gov](mailto:Michael.vanHattem@wildlife.ca.gov)>  
**Subject:** FW: App 16007 General Plan Conformance Review Weott CSD improvements - Bio Assessment

**Warning:** This email originated from outside of CDFW and should be treated with extra caution.

Hi Michael,

Do you know if anyone at CDFW has had a chance to look over the biological report and project proposal for application 16007 for General Plan conformance review for improvements to the Weott CSD? I am the assigned planner for the project and we are targeting to take it to hearing soon. Please let me know if you have any comments or concerns!

Best wishes,



**Zsofia Odry**  
Planner  
[Planning and Building Department](#)  
Direct: 707.268.3727  
Main: 707.445.7541  
[zodry1@co.humboldt.ca.us](mailto:zodry1@co.humboldt.ca.us)

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**From:** Odry, Zsofia

**Sent:** Tuesday, March 3, 2020 2:01 PM

**To:** Olson, Jennifer@Wildlife <[Jennifer.Olson@wildlife.ca.gov](mailto:Jennifer.Olson@wildlife.ca.gov)>

**Subject:** RE: App 16007 General Plan Conformance Review Weott CSD improvements - Bio Assessment

Hi Jen,

Have you had a chance to look over this biological report and project proposal? We are aiming to take this project to the Planning Commission in April.

Thank you for your time,



**Zsafia Odry**  
Planner  
[Planning and Building Department](#)  
Direct: 707.268.3727  
Main: 707.445.7541  
[zodry1@co.humboldt.ca.us](mailto:zodry1@co.humboldt.ca.us)

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**From:** Odry, Zsafia

**Sent:** Tuesday, December 31, 2019 3:08 PM

**To:** Olson, Jennifer@Wildlife <[Jennifer.Olson@wildlife.ca.gov](mailto:Jennifer.Olson@wildlife.ca.gov)>

**Subject:** App 16007 General Plan Conformance Review Weott CSD improvements - Bio Assessment

Hello,

I am working on reviewing a general plan conformance application for the Weott Community Services District (CSD) for replacing the existing water treatment plant and existing water storage. The attached biological assessment was completed for the proposed project area. Please let me know if you have any comments on the biological assessment or proposed project.

The proposed project includes:

An application for General Plan Conformance (GPC) review for the Weott Community Services District (CSD) CSD for replacing a water tank on APN 095-161-004 and for water treatment improvements on APN 095-171-001. The project includes replacing an existing concrete block water tank with two [2] new steel tanks, replacing interior treatment plant components and replace or add exterior piping and valving at existing developed sites, make improvements to the existing pond, and replace and/or add storage sheds and generator containment. The proposed work will increase water storage capacity but does not propose an increase in the service area, water withdrawals, or water entitlements. The project has filed for CEQA NOE Class 1,2,4 Sec 15301; 15302; 15304.

The proposed work on APN 095-161-004 includes the removal of the existing 76,000 gallon water storage tank and replace with two new steel tanks with combined capacity of up to 365,282 gallons.... The existing tank is a rectangle concrete masonry block tank. The proposed increase in water storage capacity is to meet 3-day demand recommendations and does not include an increase in the District's service area, water withdrawals, or customer water entitlements. The District's water services are expected to be available during the proposed construction, with the potential of up to 3 brief interruptions of up to 4 hours long, to



facilitate updating transmission and distribution lines from the new storage tank to the active water system. Materials and equipment will be staged within the existing developed cut/fill pad. Construction equipment for tank replacement and associated site work will include excavator, loader, dump truck, roller, hand tamper, concrete truck, fork lift, mobile crane, and hand tools.

The proposed work on APN 095-161-004 includes completely replacing the existing water treatment system within the existing water treatment building and to replace the associated piping/valving/control/electrical components for both "A" and "B" trains, as well as replacement and relocation of the generator outside the building to a new weatherproof sound attenuation enclosure and removal of an existing storage shed, and/or installation of two new storage sheds. The new water treatment system is expected to be similar to the existing system, however combining the two trains into a single train may be considered. Proposed work outside of the existing building includes minor piping modifications, which may include valve installation and replacement minor raw water and treated water piping replacement to facilitate tie-in with the new treatment system, replacement of backwash pipes that convey backwash water to the pond adjacent to the treatment plant building, relocation of the backwash pond overflow and/or replacement of the existing pond liner. The existing water treatment building will remain as is.

Best wishes,



**Zsafia Odry**  
Planner  
[Planning and Building Department](#)  
Direct: 707.268.3727  
Main: 707.445.7541  
[zodry1@co.humboldt.ca.us](mailto:zodry1@co.humboldt.ca.us)

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