

**RESOLUTION OF THE ZONING ADMINISTRATOR
OF THE COUNTY OF HUMBOLDT**

Resolution Number: 24-008

Record Number: PLN-2023-18281

Assessor's Parcel Number: Caltrans Right-of-Way (Trinidad Area)

Resolution by the Zoning Administrator of the County of Humboldt conditionally approving the Savage Creek Water Diversion System Improvements Project Coastal Development Permit.

WHEREAS, the California Department of Transportation (Caltrans) submitted an application and evidence in support of approving the Coastal Development Permit; and

WHEREAS, the County Planning Division has reviewed the submitted application and evidence and has referred the application and evidence to involved reviewing agencies for site inspections, comments and recommendations; and

WHEREAS, the County Planning Division, as the lead agency, determined the project to be exempt from further environmental review pursuant to Sections 15302(c) *Replacement or Reconstruction* and 15304(f) *Minor Alterations to Land* of the CEQA Guidelines, there is no substantial evidence that the project will have a significant effect on the environment; and

WHEREAS, Attachment 2 in the Planning Division staff report includes evidence in support of making all of the required findings for approving the proposed project (Record Number: PLN-2023-18281); and

WHEREAS, the Humboldt County Zoning Administrator held a duly-noticed public hearing on February 1, 2024, and reviewed, considered, and discussed the application for the Coastal Development Permit, and reviewed and considered all evidence and testimony presented at the hearing.

Now, THEREFORE BE IT RESOLVED, that the Zoning Administrator makes all the following findings:

- 1. FINDING:** **Project Description:** A Coastal Development Permit (CDP) to upgrade an existing California Department of Transportation (Caltrans) water intake at Savage Creek and its associated infrastructure. The surface water diversion at Savage Creek supplies municipal water to both the Trinidad Southbound Safety Roadside Rest Area (SRRA) and the Seawood Estates Mutual

Water Company (SEMWC). The purpose of the project is to upgrade the existing water supply intake system to be more reliable and require less maintenance. In addition, the project would improve influent water quality and incorporate design improvements for aquatic species. The project would require a temporary creek diversion approximately 80 feet upstream of the work area.

EVIDENCE: a) Project File: PLN-2023-18281.

2. FINDING: The requirements of the California Environmental Quality Act (CEQA) have been met. The Humboldt County Zoning Administrator has considered the project and finds the proposed project is exempt from environmental review pursuant to Section 15302(c) *Replacement or Reconstruction* and 15304(f) *Minor Alterations to Land* of the CEQA Guidelines.

EVIDENCE: a) No significant and unavoidable impacts on the environment would occur as a result of the proposed project. The project was determined to be exempt from further environmental review pursuant to Section 15302(c) *Replacement or Reconstruction* and 15304(f) *Minor Alterations to Land* of the CEQA Guidelines. The purpose of the proposed project is to make improvements to the existing water diversion infrastructure and install a new well sump, piping, pump, conduit, and a backwash system, which would involve replacement of existing infrastructure consistent with the requirements of the specific CEQA exemptions.

b) A project can be disqualified from using a Categorical Exemption if any of the exceptions listed in 15300.2 apply. However, none of these exceptions apply to the proposed project.

c) The project was referred to the Northwest Information Center (NWIC) and the Yurok Tribe. The Yurok Tribe responded on December 14, 2023, with no additional comments or concerns on the project and that the Caltrans Cultural Screening Memo was found sufficient upon their review. Conditions of approval include the Inadvertent Discovery Protocol should any resources be discovered during construction of the project.

FINDINGS FOR COASTAL DEVELOPMENT PERMIT

3. FINDING: The project, as conditioned, is consistent with the development policies of the Trinidad Area Plan (TAP).

EVIDENCE: a) The proposed project would occur solely within Caltrans' existing Right-Of-Way along US 101.

- b) The project will not induce growth or development.
- c) The project is partially within a Coastal Scenic Area (Seawood Drive location). However, no tree removal or significant visual changes would occur under the project. While heavy construction equipment would be required, construction would be temporary and would occur within one to two construction seasons.
- d) As described in the project's *Natural Environment Study* and *Environmentally Sensitive Habitat Area (ESHA) Assessment*, both prepared by Caltrans in November 2022, the project is expected to result in small-scale, temporary impacts to approximately 42 square feet of Waters of the U.S. and State, which includes impacts to 20 square feet of a perennial stream (Savage Creek) and 22 square feet of impacts to a single isolated palustrine emergent nonpersistent wetland identified within the project area. No wetlands were identified within the Seawood Drive location. No permanent impacts to wetlands or Waters of the U.S. and State would occur as a result of the project, since installation of the new intake system and water line would be replaced in-kind and comprise the same dimensions as the features to be replaced.

As described in the Executive Summary of the Staff Report, several conditions of approval are required for the project, including implementation of the standard measures and BMPs described in the project materials, including but not limited to the erosion and sediment control BMPs described in the *Natural Environment Study* and *Environmentally Sensitive Habitat Area (ESHA) Assessment*. Additional conditions of approval require adherence to the year-round bypass flow requirements and all permit requirements, which included monitoring and reporting as required by the SWRCB. Finally, the project is conditioned to require the applicant obtain and provide evidence of issued permits from the NCRWQCB and USACE under Sections 401 and 404 of the Clean Water Act for the associated temporary impacts, as well as a Streambed Alteration Agreement from the CDFW for the infrastructure improvements within Savage Creek, in addition to adherence to all requirements of each respective permit.

Finally, upon construction completion, all disturbed areas would be returned to normal contours, with erosion control BMPs, such as mulching and/or hydroseeding, to be applied to disturbed areas. By implementing appropriate measures and BMPs, as well

as compliance with the permit conditions from SWRCB, USACE, and CDFW, impacts to ESHA will be minimized.

4. FINDING: The proposed development is consistent with the purposes of the existing zoning designation in which the project is located.

EVIDENCE: Not Applicable. The project areas do not have a zoning designation under the Humboldt County Zoning Regulations. The proposed project would occur solely within Caltrans' existing right-of-way along US 101.

5. FINDING: The project and the conditions under which it may be operated or maintained will not be detrimental to the public health, safety, or welfare or materially injurious to properties or improvements in the vicinity.

EVIDENCE: The surface water diversion at Savage Creek supplies municipal water to both the Trinidad Safety Roadside Rest Area (SRRA) and the Seawood Estates Municipal Water Company (SEMWC). The proposed project to upgrade the existing Caltrans water intake at Savage Creek and its associated infrastructure would occur in the Caltrans right-of-way. The project is expected to result in small-scale, temporary impacts to approximately 42 square feet of Waters of the U.S. and State, which includes impacts to 20 square feet of a perennial stream (Savage Creek) and 22 square feet of impacts to a single isolated palustrine emergent nonpersistent wetland identified within the project area. The purpose of the project is to upgrade the existing water supply intake system and associated infrastructure to be more reliable and require less maintenance than the current system, which is in the interest of public health, safety, and welfare.

The current use of use and quantity of the water diversion will remain and will adhere to the requirements of Water Right Permit No. 21166, issued by the SWRCB as described above. The California Department of Fish and Wildlife (CDFW) is working directly with the Applicant on a Lake and Streambed Alteration Agreement (LSAA) and the Water Board and did not provide any additional comments on the project referral.

Several conditions of approval are required for the project to ensure no impacts would occur. Conditions of approval require adherence to the standard measures and Best Management Practices (BMPs) contained in the project materials related to the protection of animal species, invasive species, plant species, sensitive natural communities, wetlands and other waters, and

water quality and stormwater runoff. The applicant is required to obtain authorization and adhere to requirements of both the SWRCB and CDFW who both have regulatory authority to protect public trust resources, such as Savage Creek and the adjacent wetlands. Finally, the project is conditioned to require the applicant obtain and provide evidence of issued permits from the North Coast Regional Water Quality Control Board (NCRWQCB) and U.S. Army Corps of Engineer (USACE) under Sections 401 and 404 of the Clean Water Act for the associated temporary impacts. If the upgrade to the diversion infrastructure was not allowed, improvements to water quality and protection for aquatic species would not occur. Considering the project would improve influent water quality, incorporate design improvements for aquatic species and no increases in surface water diversions are anticipated, impacts from the project on any public trust resources associated with surface waters are not anticipated.

Based on staff analysis and the findings made in this report, there is no evidence the proposed project and associated work would be detrimental to the public health, safety, or welfare.

6. FINDING:

The proposed development does not reduce the residential density for any parcel below that utilized by the Department of Housing and Community Development in determining compliance with housing element law.

EVIDENCE:

The project locations were not included in the housing inventory of Humboldt County's 2019 Housing Element.

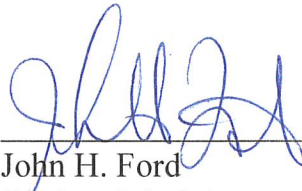
DECISION

NOW, THEREFORE, based on the above findings and evidence, the Humboldt County Zoning Administrator does hereby:

- Adopt the findings set forth in this resolution; and
- Conditionally approves the Savage Creek Water Diversion System Improvements Project Coastal Development Permit subject to the conditions of approval attached hereto as Attachment 1A.

Adopted after review and consideration of all the evidence on **February 1, 2024**.

I, John Ford, Zoning Administrator 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 Zoning Administrator at a meeting held on the date noted above.



John H. Ford
Zoning Administrator
Planning and Building Department

CONDITIONS OF APPROVAL

APPROVAL OF THE COASTAL DEVELOPMENT PERMIT IS CONDITIONED ON THE FOLLOWING TERMS AND REQUIREMENTS:

A. General Conditions

1. The applicant is responsible for obtaining all necessary County and State permits and licenses, and for meeting all requirements set forth by other regulatory agencies.
2. The project shall be conducted in accordance with the Project Description and Project Design, date stamp received on July 28, 2023. Minor deviations shall be permitted as provided by Humboldt County Code Section 312-11; however, all other changes shall require modification of this permit.
3. The project shall implement all minimization measures and best management practices (BMPs) described in the following project materials:
 - a. *Natural Environment Study*, prepared by Caltrans in November 2022 (Attachment 2A)
 - b. *Environmentally Sensitive Habitat Area (ESHA) Assessment*, prepared by Caltrans in November 2022 (Attachment 2B)
 - c. *Air Quality and GHG Analyses for the Savage Creek Intake Project*, prepared by Caltrans in October 2022 (Attachment 2D)
 - d. *Noise Analysis for the Savage Creek Intake Project*, prepared by Caltrans in October 2022 (Attachment 2E)
4. The applicant shall obtain authorization and provide evidence of issued permits from the following agencies, as applicable:
 - a. North Coast Regional Water Quality Control Board (NCRWQCB) and U.S. Army Corps of Engineer (USACE) under Sections 401 and 404 of the Clean Water Act.
 - b. Streambed Alteration Agreement from the California Department of Fish and Wildlife (CDFW).

Additionally, the applicant shall comply with all applicable terms and the reporting requirements of each respective permit.

5. The applicant is required to pay for permit processing on a time and material basis as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors. The Department will provide a bill to the applicant after the decision. Any and all outstanding Planning fees to cover the processing of the application to decision by the Hearing Officer shall be paid to the Humboldt County Planning Division, 3015 "H" Street, Eureka.

B. Ongoing Requirements/Development Restrictions Which Must be Satisfied for the Life of the Project:

1. This permit shall expire and become null and void at the expiration of two (2) years after all appeal periods have lapsed (see "Effective Date") except where construction under a valid building permit or use in reliance on the permit has commenced prior to such anniversary date. The period within which construction or use must commence may be extended as provided by Section 312-11.3 of the Humboldt County Code.
2. For the life of the project, the project shall continue to comply with the permit terms established under Water Right Permit No. 21166, issued by the SWRCB in 2004, including but not limited to monitoring and reporting, as required by SWRCB, and the year-round bypass flow requirements (Permit Term No.8):
 - a. Bypass a minimum flow of 67 gallons per minute (GPM) in Savage Creek. The total flow shall be bypassed wherever it is less than 67 GPM.
 - b. Instantaneous withdraw must not exceed 27 GPM.
 - c. The maximum daily withdraw rate under the water right must not exceed 16,000 gallons per day (GPD).

Informational Notes:

1. If cultural resources are encountered during construction activities, the contractor on site shall cease all work in the immediate area and within a 50-foot buffer of the discovery location. A qualified archaeologist as well as the appropriate Tribal Historic Preservation Officer(s) are to be contacted to evaluate the discovery and, in consultation with the applicant and lead agency, develop a treatment plan in any instance where significant impacts cannot be avoided.

The Native American Heritage Commission (NAHC) can provide information regarding the appropriate Tribal point(s) of contact for a specific area; the NAHC can be reached at 916-653-4082. Prehistoric materials may include obsidian or chert flakes, tools, locally darkened midden soils, groundstone artifacts, shellfish or faunal remains, and human burials. If human remains are found, California Health and Safety Code 7050.5 requires that the County Coroner be contacted immediately at 707-445-7242. If the Coroner determines the remains to be Native American, the NAHC will then be contacted by the Coroner to determine appropriate treatment of the remains pursuant to PRC 5097.98. Violators shall be prosecuted in accordance with PRC Section 5097.99

The applicant is ultimately responsible for ensuring compliance with this condition.



SAVAGE CREEK INTAKE PROJECT

Humboldt County Planning and Building Department Local Coastal Development Permit Application

ATTACHMENT 2—PROJECT DESCRIPTION

1. Savage Creek Intake Project

Purpose and Need

The California Department of Transportation (Caltrans) is proposing to upgrade an existing water intake at Savage Creek, and its associated infrastructure. The surface water diversion at Savage Creek supplies municipal water to both the Trinidad Southbound SRRA (Safety Roadside Rest Area) and the Seawood Estates Mutual Water Company (SEMWC). The purpose of the project is to upgrade the existing water supply intake system to be reliable and require less maintenance. The existing intake system currently requires frequent maintenance to meet demand primarily due to fine sediment accumulation in the existing diversion box which restricts flow.

Location

The proposed project includes work at two locations. One location is at the surface water intake facility at Savage Creek (PM R103.67), and the other location is at Seawood Drive (PM R103.39), adjacent to Highway 101, in Humboldt County.

Project Description

Caltrans is proposing the following retrofit/additions to the existing water diversion system:

- Retrofit the existing diversion structure by replacing the existing collection manifold, backfilling the diversion intake structure with graded media (sand, gravel, and rock), and installing a new fish friendly wedge-wire screen.
- Install a new well sump which includes new piping to connect to the intake, a new pump and new conduit.
- Install a backwashing system to tie in with existing water and electrical infrastructure at

the intersection of Seawood Drive and US 101 off-ramp. The backwash system would include the installation of additional pipe for water conveyance and conduit, construction of a concrete control pad, bollards for protection, a security enclosure, and a utility box. The use of a backwash system would also require new piping to the intake structure, bypassing the intake sump.

The proposed work would result in less maintenance than currently required by the existing intake facility, improve influent water quality, and incorporate design improvements for aquatic species. Rehabilitation of the existing intake would require a temporary creek diversion originating upstream of the work area. Other existing diversion infrastructure used to convey water to the Trinidad Safety Roadside Rest Area (SRRA) and Seawood Estates Mutual Water Co. (SEMWC) would remain in place.

Schedule

Construction is anticipated to start in summer 2024 and is estimated to take approximately 180, 8-hour working days to complete. All work is anticipated to be completed within one to two construction seasons.

The following seasonal restrictions are anticipated:

- To protect nesting or roosting northern spotted owl and marbled murrelet, suitable northern spotted owl or marbled murrelet nesting trees would be removed between September 16 and January 31. —tree and vegetation removal would occur outside of the bird breeding season. If vegetation removal cannot be done in this window, then nesting bird surveys by a qualified biologist would be required prior to the removal of any vegetation.
- June 15 to October 15—All work within waters of the U.S. and state would be limited to the low-flow period, June 15-October 15.
- No construction activities generating noise levels greater than 90 decibels (dB) (with the exception of backup alarms) or activities generating sound levels 20 or more dB above ambient sound levels would occur between February 1 and August 5. Between August 6 and September 15, work that generates noise levels greater than 10 dB above ambient sound levels or above 90 dB max would observe a daily work window beginning 2 hours

post-sunrise and ending 2 hours pre-sunset. Noise-related work windows would be lifted between September 16 and January 31. Further, no construction activities would occur within a visual line-of-sight of 328 feet or less from any known active nest locations for northern spotted owl or marbled murrelet.

Savage Creek (PM 103.67):

Existing Infrastructure

Currently, water passively percolates through the 4' wide x 6' long concrete instream intake structure, which is then gravity fed through an 8" diameter pipe to a well sump located off-stream. The well sump is located within a 30' wide x 5' long fiberglass enclosure on a concrete slab approximately 15' from the instream intake structure. A wooden shed is located on-site and houses a control cabinet for the sump. Water pumped from the well sump is conveyed through a 4" wide x 44' long pipe to the pump control cabinet, up the exiting access road adjacent to U.S. Highway 101 (US 101). The diverted water is directed to Seawood Drive to the SEMWC Treatment Plant.

The current intake structure, constructed in 2005, consisted of an instream, concrete diversion box (4' wide x 6' long), permeable membrane, graded media (sand, gravel, rock), and a pipe manifold of eight 4" wide slotted pipe laterals. The permeable membrane fabric within the concrete diversion box failed in 2006 due to biofilm growth and was removed, along with the graded media surrounding the intake pipes. As a result, the intake structure largely has filled with debris and does not operate as intended, thus requiring frequent maintenance. The existing intake system currently requires frequent maintenance, primarily due to fine sediment accumulation in the existing diversion box.

Proposed Infrastructure

The stream intake structure would largely remain as is. However, the existing 6' wide grate/manifold would be replaced with one consisting of openings of 3/32 inch openings. The contents of the intake structure would include graded media. The 8" wide pipe located inside the instream concrete box would consist of 4" wide openings (sand, gravel, rock). The pipe would be below the newly placed graded media. The existing well sump would be replaced and relocated approximately 15' closer to the west (towards the pump control cabinet), on a new 6'

wide x 6' long concrete slab. The old slab and fiberglass cabinet would be removed. The existing water lines would be replaced in-kind along the same alignment. Water would passively percolate through the intake structure through a pipe to a well sump located off stream.

Additional changes would include installation of a flow meter along the newly replaced water line for purposes of documenting the permitted water diversion. A stream gauge would be installed along Savage Creek's left bank. A three-way valve would be installed along the water line to allow the proposed backwash system to function. The new water line would be approximately 4" wide x 16' long.

The new intake structure is designed to be a reliable source of water for domestic users without clogging and requiring routine maintenance, manual or otherwise. However, if the diversion is clogged, thus requiring use of the proposed backwash system. The backwash system would reverse raw water from SEMWC's 5,000 raw water tank at a rate of 215 GPM back into the instream intake structure, dislodging sediment. Sediment that becomes entrapped within the intake structure would be suspended by backwashing, and carried downstream, always remaining in Savage Creek. The backwash system would reverse flow through one third of the total collection manifold at a time, through three manually operated valves adjacent to the intake at Savage Creek. Operation of the backwash system is anticipated to last approximately 5 minutes. Operating the backwash system would require two individuals, one at the Seawood Drive backwash control panel, and another at Savage Creek.

Savage Creek would need a temporary stream diversion for adequate construction access. A diversion would be installed approximately 80 feet upstream of the work area and water would be diverted through a pipe downstream through the existing culvert. To minimize disturbance to Savage Creek, stream diversion would take place during the low-flow period, June 15–October 15. All construction work would be completed in one to two seasons.

At all times, erosion/sediment control Best Management Practices (BMPs) would be employed to maintain high water quality in Savage Creek. Upon completion of construction, all disturbed areas would be returned to natural contours. The shoulder of US 101 and the area of proposed disturbance near the pumphouse is currently covered by ruderal herbaceous vegetation. Erosion control BMPs, such as mulching and hydroseeding, would be applied to disturbed areas upon completion of the project. These areas are expected to revegetate naturally.

Seawood Drive Location - PM R103.39

The corner of Seawood Drive and the southbound (SB) US 101 off-ramp is an existing vehicle turnout, consisting of a transformer and electrical service pedestal. The proposed backwash system would require installation of a 4” wide x 35' long water line to an existing water line conveying water diverted from Savage Creek. The backwash system would include installation of a 5-horsepower pump. A new 5' wide x 11' long concrete pad would be constructed for the new backwash pump and electrical service box. New electrical conduit would be installed to connect the new electrical control panel to the existing service pedestal.

1.1. Staging Areas

Potential staging areas would be limited to the existing gravel turnout at Savage Creek’s access road and within the mowed and maintained areas within the project limits. Staging areas within the project ESL have been surveyed for special status plants and habitat for special status animals.

1.2. Required Equipment

Below is a list of equipment that may potentially be used for the type of work to be performed under project EA: 01-0J360.

Equipment	Maximum Noise Level * (decibels [dBA] at 50 feet)
Backhoe	84
Front End Loader	85
Dump Truck	85
Concrete Mixer Truck	85
Mini Excavator	81
Trencher	85
Asphalt roller	85
Flat Bed Truck	84
Pickup Truck	71
Jackhammer	89
Pneumatic tools	85
Compactor	82
Generator	82
Saw (Concrete/Asphalt)	90

2. Supplemental Project Information

2.1. Biological Resources Impacts

The Biological Memo (Attachment 3) was prepared to identify existing biological resources, assess potential impacts, and identify permitting requirements for the Savage Creek Intake Project. The memo provides information about the existing environment within the project area, including special status botanical and wildlife species and their associated habitats and other sensitive habitats present in the vicinity of the project that could potentially be affected by the project.

The NES determined that this project would have no adverse effect on federally and state listed species, critical habitat, or sensitive natural communities. There would be 42 square feet of temporary impacts to Waters of the U.S. and State. The following permits would be required for this project:

- Wastewater Discharge Requirements permit from the North Coast Regional Water Quality Control Board (NCRWQCB)
- United States Army Corps of Engineers (USACE) 404 Permit
- Lake or Streambed Alteration Agreement (1602) from the California Department of Fish and Wildlife (CDFW)
- Coastal Development Permit (CDP) from the County of Humboldt

2.2. Air Quality & Greenhouse Gas Impacts

The Air Quality and GHG Environmental Analysis Memo (Attachment 3) determined the project would not change traffic volume, fleet mix, speed, or any other factor that would cause an increase in emissions relative to the No Build Alternative; therefore, this project would not cause an increase in operational emissions. However, during construction, short-term degradation of air quality may occur due to the release of particulate emissions (airborne dust) generated by excavation, grading, hauling, and other construction-related activities. Standard minimization measures are applicable as detailed in Attachment 3.

The proposed project would result in generation of short-term construction-related GHG emissions. These emissions would be generated at different levels throughout the construction

phase. Standard minimization measures are applicable as detailed in Attachment 3.

2.3. Hazardous Waste Impacts

The Initial Site Assessment (ISA) (Attachment 3) determined that the project may have minor hazardous waste issues to address. Aerially Deposited Lead (ADL), which is commonly found in all highway shoulders, may be at a level that requires special handling of excess material within the project area. However, it is not anticipated ADL present at the project site is at a high enough concentration it would be subject to further requirements of the Caltrans/DTSC ADL agreement for handling ADL contaminated soils. As a contract item, a Lead Compliance Plan would be required for soil disturbance. The ISA found that the project work site is not on the Hazardous Waste and Substances Site List (Cortese List).

2.4. Visual Resource Impacts

The project would not result in substantial impacts to visual quality or visual character (Attachment 3 - Visual Impact Assessment Questionnaire). The proposed project would not result in negative visual changes or impact scenic resources.

2.5. Noise Impacts

The Noise Analysis Memo (Attachment 3) determined that any long-term effects (operational noise) and traffic volumes, composition and speeds would remain the same in the build and No-Build condition. Traffic noise impacts are not anticipated, and a detailed noise study report is not required. However, there would be short-term noise impacts as a result of the construction equipment. Noise associated with construction is addressed in Caltrans standard contract specifications which state:

- Control and monitor noise resulting from work activities.
- Do not exceed 86 dBA Lmax at 50' from the job site from 9 p.m. to 6 a.m.

2.6. Cultural Resource Impacts

The Cultural Screening Memo (Attachment 3) determined that the proposed project does not have the potential to affect any archaeological sites or other cultural resources. Based on this review, it is concluded that the proposed project has no potential to affect any historic properties

and that the project has no potential to affect state-owned historical resources.

2.7. Water Quality Resource Impacts

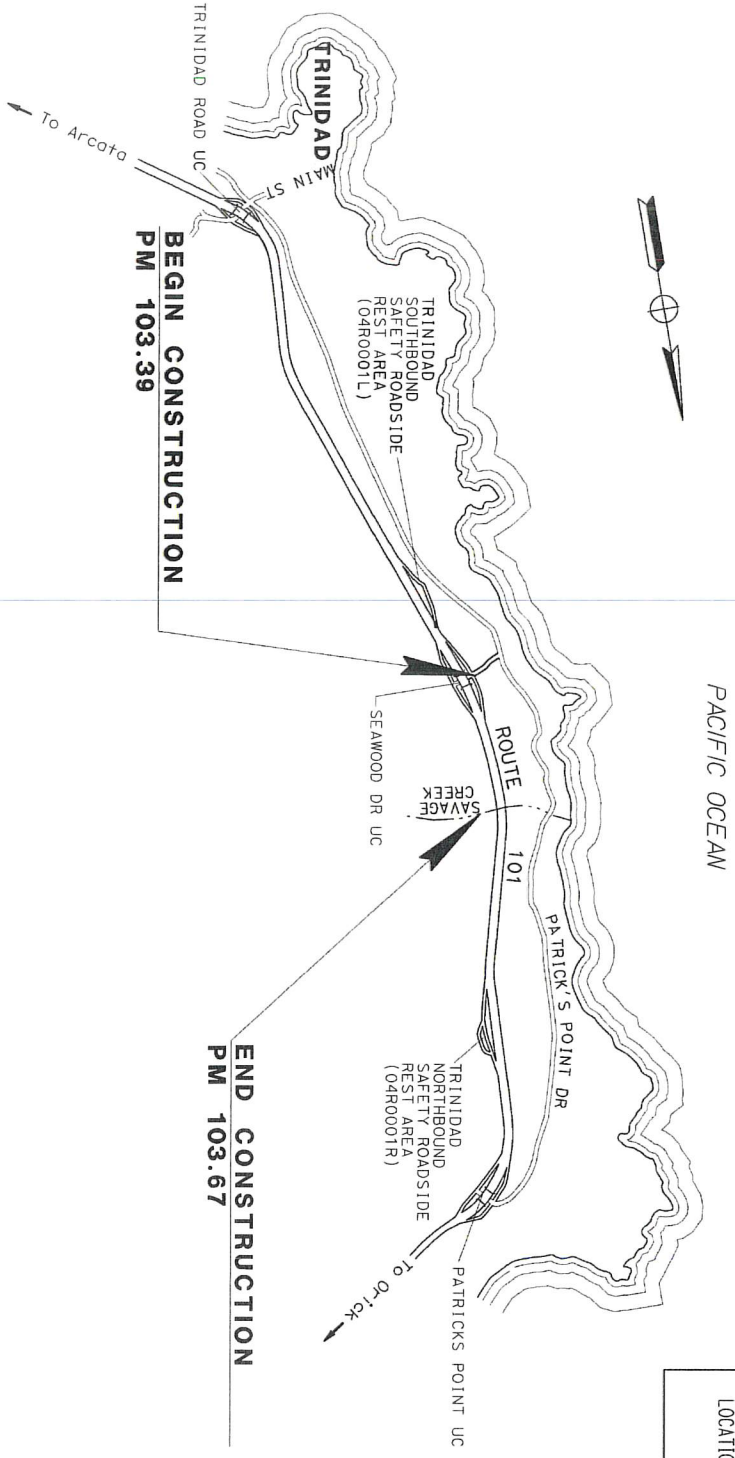
The Water Quality Assessment Memo (Attachment 3) determined that this project has the potential to both temporarily and permanently impact water quality. Caltrans Construction Site Best Management Practices (BMP) would be incorporated as applicable into the approved project to minimize potential temporary impacts to water quality. Permanent Impacts would be prevented by adhering to the required permits and incorporation of Design Pollution Prevention (DPP) BMP strategies. Permits that would be required for this project are:

- United States Army Corps of Engineers (USACE) 404 Permit
- North Coast Regional Water Quality Control Board (NCRWQCB) 401 Certification

It is anticipated that the inclusion of appropriate temporary and permanent Standard Measures and Best Management Practices (BMPs) would avoid potential impacts to water quality and meet the requirements of the Caltrans NPDES Permit, CGP, and North Coast Basin Plan.



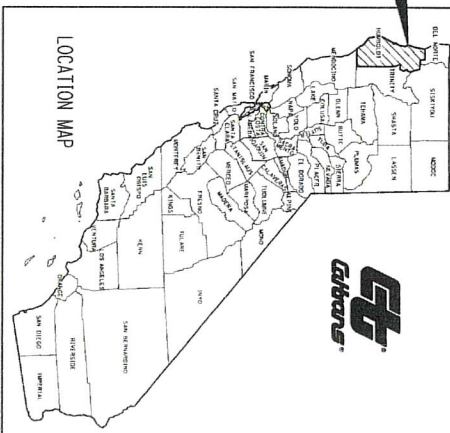
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PROJECT PLANS FOR CONSTRUCTION ON
 STATE HIGHWAY**
 IN HUMBOLDT COUNTY NEAR TRINIDAD
**FROM SEAWOOD DRIVE UNDERCROSSING TO 0.3 MILE
 NORTH OF SEAWOOD DRIVE UNDERCROSSING.**
 TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2018



**BEGIN CONSTRUCTION
 PM 103.39**

**END CONSTRUCTION
 PM 103.67**

NO SCALE



Dist	COUNTY	ROUTE	TOTAL PROJECT	SHEET TOTAL
01	HUM	101	R103.39/103.67	1 OF 1

DESIGN MANAGER CHRIS GHIDINELLI	PROJECT MANAGER CHRIS GHIDINELLI
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Kosha K. Shah
 PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER
 DATE 03-18-22

KOSHA K. SHAH
 No. C 73864
 Exp. 6/30/23
 REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

ONE STATE OF CALIFORNIA OR ITS AGENTS SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION ON STANDARD PLANS ON THIS PLAN SHEET.

CONTRACT NO. **01-0J3604**
 PROJECT ID **0119000012**

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

INDEX OF PLANS

ARCHITECTURAL :

SHEETS	NAME
G1-2a	BUILDING ABBREVIATIONS 1 OF 3
G1-2b	BUILDING ABBREVIATIONS 2 OF 3
G1-2c	BUILDING ABBREVIATIONS 3 OF 3
G1-3a	BUILDING SYMBOLS 1 OF 3
G1-3b	BUILDING SYMBOLS 2 OF 3
G1-3c	BUILDING SYMBOLS 3 OF 3

STRUCTURAL :

SHEETS	NAME
STO-1	CONCRETE STANDARD
STI-1	SLAB PLANS AND SECTION

ELECTRICAL :

SHEET	NAME
EE-01	EXISTING SITE PLAN
EE-02	MODIFIED SITE PLAN
EE-03	EXISTING WELL PUMP
EE-04	MODIFIED WELL PUMP
EE-05	EXISTING PARTIAL SITE PLAN
EE-06	MODIFIED PARTIAL SITE PLAN
EE-07	EXISTING SCHEMATICS
EE-08	MODIFIED SCHEMATICS
EE-09	SERVICE PEDDESTAL ELEVATION
EE-10	BACKWASH CONTROL PANEL
EE-11	PULLBOX AND AIR FLASH DETAILS

APPROVED FOR WATER WORK ONLY

WATER & WASTEWATER CONTINUED :

SHEET	NAME
W-01	EXISTING SITE PLAN
W-02	MODIFIED SITE PLAN
W-03	EXISTING PARTIAL SITE PLAN
W-04	MODIFIED PARTIAL SITE PLAN
W-05	EXISTING PARTIAL SITE PLAN
W-06	MODIFIED PARTIAL SITE PLAN
W-07	DETAILS
W-08	WELLSUMP
W-09	WELL ENCLOSURE
W-10	DETAILS
W-11	EXISTING STRAW INTAKE VAULT
W-12	MODIFIED STRAW INTAKE VAULT
W-13	SIGN
W-14	INTERCONNECTION DIAGRAM

DESIGN	BY	CHECKED
DETAILS	MR. LAURA MAHONEY	ANDY QUAN
QUANTITIES	MR. KAMEYLA AMINI	ANDY QUAN
	MR. LAURA MAHONEY	ANDY QUAN

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER
AND
WASTEWATER DESIGN

BRIDGE NO.
OARDOOT 1
POST MILE
R103.39

GENERAL INFORMATION
SAVAGE CREEK INTAKE UPGRADE

INDEX OF PLANS

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 01-1

TS&HW Imp&rt-El - CSES Rev. 12/20 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3616 CONTRACT No.: 01-03504 PROJECT NUMBER & PHASE: 0119000012 Disregard PRINTS BEARING EARLIER REVISION DATES P:\Users\0119000012\Savage Creek\Inroads\Working\Drawings\Savage Creek-New\border\01-1\Index of Plans.dgn



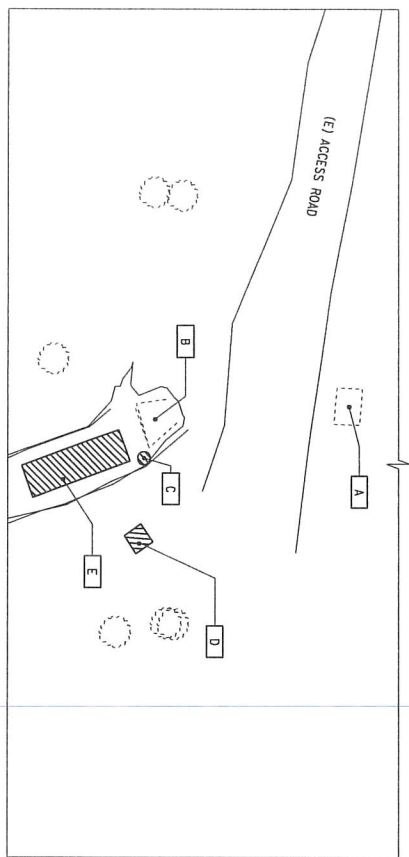
Dist#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS
01	HUM	101	R103.39/R103.67	

REGISTERED CIVIL ENGINEER
DATE: 03-18-22
KOSHA K. SHAN
No. C 13864
Exp. 6/30/23
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

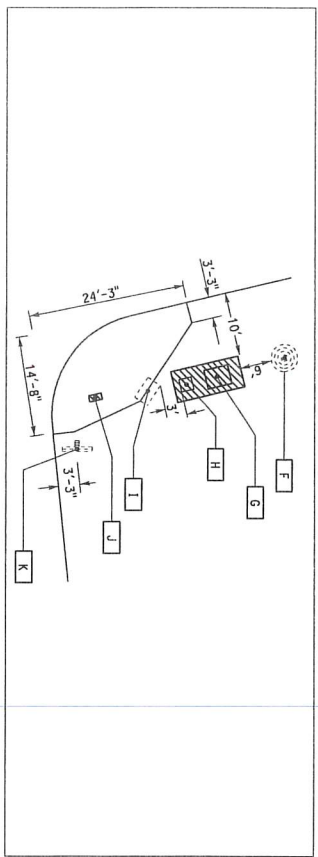
PLANS APPROVAL DATE: 03-18-22
The State of California or its officers or agents do not warrant the accuracy or completeness of these plans.

AREA OF WORK

- 1 UPGRADE THE EXISTING STREAM INTAKE, SEE SHEET W-11 & W-12.
- 2 INSTALL A MANUALLY OPERATED BACKWASH SYSTEM TO FACILITATE INTAKE MAINTENANCE, SEE SHEET W-7.
- 3 REMOVE AND REPLACE THE WELL SUMP FOR THE STREAM INTAKE, SEE SHEET W-8.
- 4 THIS PROJECT HAS NO BUILDING OR STRUCTURES.



SITE PLAN - STREAM INTAKE
NO SCALE



SITE PLAN - SEAWOOD DRIVE INTERSECTION
NO SCALE

APPROVED FOR WATER WORK ONLY

LEGEND

- A (E) WOODEN SHACK
- B (E) CULVERT
- C (N) STREAM GAUGE
- D (N) WELL SUMP
- E (E) STREAM INTAKE
- F (E) TRANSFORMER
- G (N) BACKWASHING PUMP PAD
- H (N) ELEC CONTROL PANEL
- I (E) ELEC SERVICE PANEL
- J (N) JUNCTION BOX
- K (E) SIGN

SCOPE OF WORK

UPGRADING THE SAVAGE CREEK STREAM INTAKE AND INSTALLING A BACKWASHING SYSTEM TO FACILITATE THE MAINTENANCE OF THE INTAKE

SITE ADDRESS

ROUTE 101
HUMBOLDT COUNTY, CA 95526
INTERSECTION OF SEAWOOD DRIVE HWY 101
HUMBOLDT COUNTY, CA 95526

DESIGN CRITERIA

THE BUILDING WORK FOR THIS PROJECT HAS BEEN DESIGNED TO CONFORM TO THE 2019 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS.

BUILDING DATA

- THIS PROJECT (BASED ON 2019 CALIFORNIA BUILDING STANDARDS CODE)
1. OCCUPANCY CLASS & USE N/A
 2. BUILDING CONSTRUCTION TYPE N/A
 3. NUMBER OF STORIES N/A
 4. ACTUAL BUILDING HEIGHT N/A
 5. BUILDING AREA IN SQ.FT. N/A
 6. AREA OF PROJECT IN SQUARE FEET N/A
 7. SEPARATED OR NON-SEPARATED USE N/A
 8. ALLOWABLE AREA PER CBC N/A
 9. ALLOWABLE AREA INCREASE N/A
 10. ALLOWABLE HEIGHT/STORIES N/A
 11. FIRE SPRINKLERS N/A
 12. FIRE ALARM N/A
 13. OTHER FIRE PROTECTION SYSTEM N/A
 14. SMOKE CONTROL SYSTEM N/A
 15. OCCUPANCY LOAD FOR ENTIRE BUILDING N/A
 16. OCCUPANCY LOAD FOR EACH FLOOR N/A
 17. YEAR BUILDING WAS CONSTRUCTED N/A
 18. HIGH FIRE HAZARD SEVERITY ZONE N/A
 19. SEISMIC JOINTS N/A
 20. FIRE DEPT. RADIO COVERAGE N/A

DEFERRED SUBMITTALS (NONE)

FIRE ALARM (NOT APPLICABLE)
AUTOMATIC SUPPRESSION SYSTEM (NOT APPLICABLE)

DESIGNER	DESIGNED BY	PROJECT NO.	DATE
Laura Mahoney	Andy Quan	3616	03-18-22
DETAILS	CHECKED BY	PROJECT NAME	PROJECT NUMBER & PHASE
Koreyla Amini	Andy Quan	SAVAGE CREEK INTAKE UPGRADE	0178000123
QUANTITIES	DATE	REVISION NUMBER	REVISION DATE
Laura Mahoney	03-18-22	1	03-18-22
ORIGINAL SCALE IN INCHES		FOR REDUCED PLANS	
0		1	
2		3	
STATE OF CALIFORNIA			
DEPARTMENT OF TRANSPORTATION			
DIVISION OF ENGINEERING SERVICES		DIVISION OF WATER RESOURCES	
ELECTRICAL-MECHANICAL-WATER		WASTEWATER DESIGN	
UNIT: 3616 CONTRACT No.: 01-0-3604		DISCREPANCY PRINTS BEARING	
PROJECT NUMBER & PHASE: 0178000123		EXAMINER REVISION DATES	
F:\0178000123\0178000123 Storage		Drawings Working	
Drawings Storage		Checklist	
General		General	
SHEET		SHEET	
GP-1		GP-1	

DATE: 03-18-22
REGISTERED CIVIL ENGINEER: Joshua K. Shaw
No. 613952
DATE: 06/20/23
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

APPROVED
FEB 1 2024
Humboldt County PLANNING

DATE COUNTY ROUTE POST MILES SHEET TOTAL
 01 HUMB 101 R103.39/R103.67 No. SHEETS
 101 101 R103.39/R103.67 No. SHEETS

PLANS APPROVAL DATE
 12-08-20
 DONALD E. ALBON ARCHITECT
 No. C-288576
 01-21-20
 12-08-20
 DATE TIME OF DAY

The State of California is the officer or agent responsible for the accuracy of the information contained in this plan sheet.

APPROVED
 Humboldt County
 PLANNING
 DATE 1 2024

COMMON TAEMWW SYMBOLS

	PLAN NORTH ARROW		EXISTING FEATURES
	TRUE NORTH ARROW		CMU WALL ON PLAN VIEWS
	GRID LINE INDICATOR		CONCRETE
	ELEVATION OR WORKING POINT		SAND
	MATCH LINE		ORIGINAL GROUND
	ROOM NUMBER		FREE DRAINING GRANULAR MATERIAL
	KEYED NOTE CALLOUT		BLOCKING IN SECTION OR ELEVATION
	REVISION CALLOUT		CONTINUOUS MEMBER IN SECTION
	PARTIAL SECTION CUT		END OF MEMBER
	FULL SECTION CUT		GLUE LAMINATED MEMBER SECTION
	DETAIL NUMBER OR NOTE NUMBER		SURFACE DRAINAGE
	ADDITIONAL REFERENCE (IF REQUIRED)		EXISTING SPOT GRADE IN FEET
	DETAIL NUMBER OR NOTE NUMBER DRAWN ON SAME SHEET		

ARCHITECTURAL SPECIFIC SYMBOLS

	DOOR DESIGNATION		SHADED ARROW INDICATES ELEVATION DRAWN
	WINDOW DESIGNATION		SECTION LETTER: SECTION DRAWN ON SAME SHEET
	LOWER DESIGNATION		ELEVATION LETTER: ELEVATION DRAWN ON SAME SHEET
	COLOR DESIGNATION		
	EQUIPMENT / FURNITURE DESIGNATION		

STRUCTURAL SPECIFIC SYMBOLS

	BEARING WALL		HOLDDOWN, TYP
	SHEAR WALL		STIMULON USP Equat
	DROPPED SLAB ON PLAN VIEWS		FRAME CONNECTOR
	STRUCTURE BACKFILL (SHOWN ON DETAIL)		MANUFACTURERS ARE THOSE NOTED IN THE ORDER SHOWN
	STRUCTURE EXCAVATION (SHOWN ON DETAIL)		SHEARBALL SCHEDULE SYMBOL REFERENCE
	LIMITS OF STRUCTURE BACKFILL (SHOWN ON PLAN VIEWS)		
	BOTTOM OF FOOTING ELEVATION		

STANDARD DRAWING

DESIGNED BY: Donald E. Albion
 CHECKED BY: Robert T. Trivitt
 DATE: 09-15
 SUBMITTED BY: Robert T. Trivitt
 DESIGN ENGINEER: Robert T. Trivitt

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No. 04R001L
 POST MILES R103.39-7
 UNIT: 3616 CONTRACT No.: 01-03604
 PROJECT NUMBER & PHASE: 019000121
 DRAWING NUMBER: 01-03604-0121

SAVAGE CREEK INTAKE UPGRADE
 BUILDING SYMBOLS 1 OF 3

SHEET G1-3a

SYMBOLS FOR ELECTRICAL WIRING AND PLAN LAYOUTS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	POLE-TOP LIGHT FIXTURE	S	SINGLE-POLE SWITCH
	POLE-ARM LIGHT FIXTURE	S2	DOUBLE-POLE SWITCH
	SURFACE FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE	S3	THREE-WAY SWITCH
	RECESSED FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE	S4	FOUR-WAY SWITCH
	EXIT LIGHT	SC1FL	TWO TIMER SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND ONE SWITCH FOR HEAT LAMP
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT OR LED FIXTURE	SD	DIMMER SWITCH
	RECESSED INDIVIDUAL FLUORESCENT OR LED FIXTURE	SF	DIGITAL TIMER SWITCH
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT OR LED FIXTURES A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHA-NUMERIC SYMBOL NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT THE TYPE OF FLUORESCENT (M-HALIDE, H-HIGH PRESSURE SODIUM VAPOR, L-LED) DESIGNATION TYPE, NUMBER OF LAMPS AND VOLTAGE.	SIP	FAN SWITCH
	EMERGENCY LIGHTING FIXTURE WITH INTEGRAL BATTERY PACK JUNCTION BOX	SIP	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
	DUPLEX RECEPTACLE OUTLET (WITH GFCl)	SIP	WEATHERPROOF SWITCH
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCl)	SIP	COMBINATION HEAT, LIGHT, AND FAN UNIT
	CONTROLLED DUPLEX RECEPTACLE OUTLET	SIP	TIMER SWITCH
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET	SIP	PUSHBUTTON
	CLOCK HANGER RECEPTACLE	SIP	PUSHBUTTON STATION MOTOR CONTROL
	FLOOR SINGLE RECEPTACLE OUTLET	SIP	PRESSURE SWITCH
	FLOOR DUPLEX RECEPTACLE OUTLET	SIP	CONTROL RELAY
	FLOOR SPECIAL PURPOSE OUTLET	SIP	FLOW SWITCH
	FLOOR TELEPHONE OUTLET	SIP	PHOTOELECTRIC UNIT
	MULTI-FLOOR OUTLET, 2 OR MORE GANG	SIP	HAND ORDER
	MULTI-OUTLET ASSEMBLY	SIP	FLOOR-MOUNTED PANELBOARD, PANEL OR CABINET SURFACE-MOUNTED PANELBOARD, PANEL OR CABINET MOTOR CONTROLLER
	COMMUNICATION OUTLET	SIP	DISCONNECT SWITCH
	SOUND SYSTEM LOUD SPEAKER OUTLET	SIP	METAL CONDUIT CONCEALED IN CEILING OR WALL CONDUIT EXPOSED
	MICROPHONE OUTLET	SIP	CROSS-LINES INDICATE NUMBER OF #12 ANG CONDUCTORS, LONGER FOR EQUIPMENT GROUNDING CONDUCTOR, NO CROSS-LINE INDICATES 2#12 WITH #12 (G) UNLESS OTHERWISE NOTED, ALL CONDUIT 1/2 UNLESS OTHERWISE NOTED.
	THERMOSTAT	SIP	NUMBER OF CONDUITS, LETTER DENOTES PANELBOARD, NUMERICAL DENOTES CIRCUIT
	RADIO OUTLET	SIP	
	CAMERA	SIP	

SYMBOLS FOR ELECTRICAL SCHEMATICS AND DIAGRAMS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SURFACE METAL RACEWAY		GLASS BREAK DISCRIMINATOR
	CONDUCTOR RACEWAY (PER CONDUIT)		MAGNETIC CONTACT SWITCH-VEHICLE DOOR
	CONDUIT SIZE		KEYPAD
	NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)		COMBINATION DETECTOR (MICROCIRCUIT/PASSIVE INFRARED)
	MC - CONDUIT, NON-METALLIC, UNDERGROUND		DIGITAL CARD READER
	PVC-MC - CONDUIT, PVC COATED RIGID STEEL, UNDERGROUND		ELECTRIFIED DOOR HINGE
	CONDUIT, TURN UP		ELECTRIFIED LOCK SET
	CONDUIT, EXPANSION JOINT		
	CONDUIT, ONE TYPE CONDUIT TO ANOTHER		
	POLE		
	ELECTRICAL PULL BOX No. 5, UNLESS OTHERWISE INDICATED OR NOTED		
	NUMBER ABOVE PULL BOX DESIGNATES ITS SIZE		
	TRAFFIC RATED PULL BOX (TR) TAMPER RESISTANCE PULL BOX		
	OCCUPANCY SENSOR CEILING MOUNTED		
	FIRE ALARM DEVICES		
	MANUAL PULL STATION		
	ADD/OVISUAL ALARM DEVICE		
	HEAT DETECTOR		
	SMOKE DETECTOR		
	DUCT SMOKE DETECTOR		

PROJECT NOTES

- Separate grounded (neutral) conductor must be used for each 120-volt circuit.
- Home runs to panelboards must be installed as shown on the plans. Home runs must not be combined.
- A single insulated equipment grounding conductor, sized as required, must be installed in each conduit run with voltage greater than 50 V.
- Refer to standard plans ES-1A, ES-1B and ES-1C for additional symbols and legends.

EXISTING WORK

SYMBOL	DESCRIPTION
	EXISTING FLUORESCENT FIXTURE-TO REMAIN
	EXISTING FLUORESCENT FIXTURE-TO REMOVE
	EXISTING INCANDESCENT FIXTURE-TO REMAIN
	EXISTING INCANDESCENT FIXTURE-REMOVE
	EXISTING RECEPTACLE OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-REMOVE
	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN
	EXISTING CONDUIT AND CONDUCTORS-REMOVE
	EXISTING SWITCH-TO REMAIN
	EXISTING SWITCH-REMOVE
	EXISTING JUNCTION BOX-TO REMAIN
	EXISTING JUNCTION BOX-REMOVE
	EXISTING PULL BOX

STANDARD DRAWING

FILE NO. 02-20
 DATE 02-20
 DESIGNED BY Donald Almy
 CHECKED BY Robert Trovati
 DRAWN BY Robert Trovati
 REVISION ENGINEER
 SUBMITTED BY

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ARCHITECTURAL DESIGN
 BRIDGE NO. 048001L
 POST MILE 113.937
 PROJECT NUMBER & CROSS: 011-00-3504
 PROJECT NUMBER & CROSS: 011-00-00121
 UNIT: 3616 CONTRACT No. 01-0-3504
 CONTRACT NO. 011-00-00121
 EXPIRES: 01/01/2025
 DATE: 01/01/2025

SAVAGE CREEK INTAKE UPGRADE
 BUILDING SYMBOLS 2 OF 3
 SHEET GI-3b

APPROVED
 FEB 1 2024
 Humboldt County
 PLANNING

PIPE FITTING AND VALVE SYMBOLS

	CAP, THREADED
	ELBOW, TURNED DOWN
	ELBOW, TURNED UP
	EMERGENCY EYE WASH & SHOWER
	FLEXIBLE CONNECTION
	GAUGE COCK
	HOSE FAUCET
	MANUAL AIR VENT
	PIPE CONNECTION, TOP
	PIPE CONNECTION, BOTTOM
	PIPE CONNECTION, SIDE
	PRESSURE GAUGE (WITH VALVE AND SNUBBER)
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	STRAINER
	THERMOMETER
	TRIPLE DUTY VALVE
	UNION
	UNION, INSULATING
	VALVE, BALL
	VALVE, BALANCING
	VALVE, BUTTERFLY
	VALVE, CHECK
	VALVE, 2-WAY CONTROL
	VALVE, GAS
	VALVE, GATE
	VALVE, SAFETY RELIEF
	VALVE, SOLENOID
	VALVE, PRESSURE REDUCING
	VALVE, PRESSURE/TEMPERATURE RELIEF
	VALVE, VENT
	WATER HAMMER ARRESTOR
	WATER METER

PLUMBING PIPING SYMBOLS

---	COLD WATER
---	HOT WATER
---	HOT WATER RETURN
---	CHILLED WATER SUPPLY
---	CHILLED WATER RETURN
---	CONDENSER WATER SUPPLY
---	CONDENSER WATER RETURN
---	HEATING HOT WATER SUPPLY
---	HEATING HOT WATER RETURN
---	HEATING HOT WATER RETURN
---	COMPRESSED AIR
---	EQUIPMENT DRAIN
---	FIRE WATER
---	FORCE MAIN
---	GAS
---	LEACH LINES
---	LIOUFIED PETROLEUM GAS
---	NON-POTABLE WATER
---	RELIEF VALVE DISCHARGE PIPE
---	ROOF DRAIN
---	RETURN DRAIN LINE
---	SANITARY SEWER (BELOW GRADE, SITE UTILITY)
---	VENT LINE
---	WATER LINE

HVAC AND DUCTWORK SYMBOLS

	SUPPLY DUCT (UP, DOWN)
	RETURN DUCT (UP, DOWN)
	EXHAUST DUCT (UP, DOWN)
	OUTSIDE AIR DUCT (UP, DOWN)
	ROUND DUCT (UP, DOWN)
	FLEXIBLE DUCT CONNECTOR (VIBRATION ISOLATION)
	RECTANGULAR-TO-ROUND TRANSITION
	CHANGE OF ELEVATION - RISE IN DIRECTION OF FLOW
	CHANGE OF ELEVATION - DROP IN DIRECTION OF FLOW
	BALANCE DAMPER
	SMOKE DAMPER
	FIRE/SMOKE DAMPER
	FLEXIBLE DUCT, ROUND
	RIGID TO FLEXIBLE CONNECTION
	SUPPLY AIR
	RETURN AIR
	EXHAUST AIR
	OUTSIDE AIR
	EXHAUST GRILLE
	RETURN GRILLE
	SUPPLY DIFFUSER
	SUPPLY REGISTER
	HUMIDISTAT
	THERMOSTAT
	THERMOSTAT WITH CO2 SENSOR
	TIME SWITCH
	FIRE EXTINGUISHER

TITLE NO. 06-16
 DATE 10/20
 SUBMITTED BY Robert Trivoli
 DESIGN ENGINEER
 PROJECT SUPERVISOR
 STANDARD DRAWING
 PROJECT: SAVING CREEK INTAKE UPGRADE
 SHEET: G1-3c

ORIGINAL SCALE IN INCHES 0 1 2 3
 FOR REDUCED PLANS

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

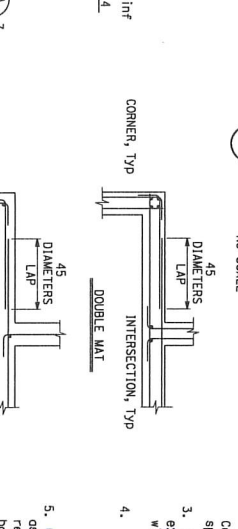
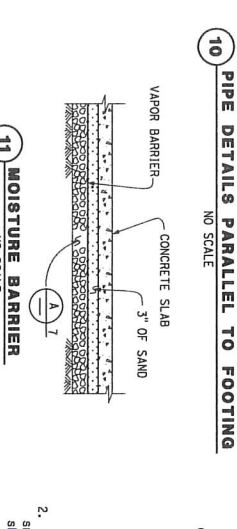
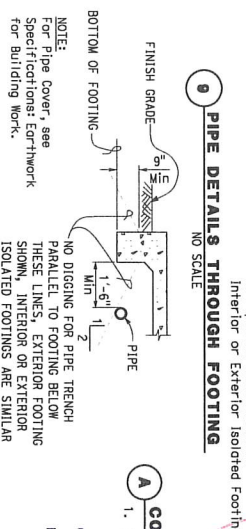
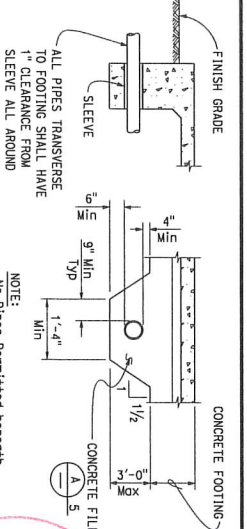
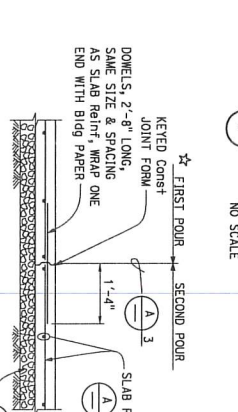
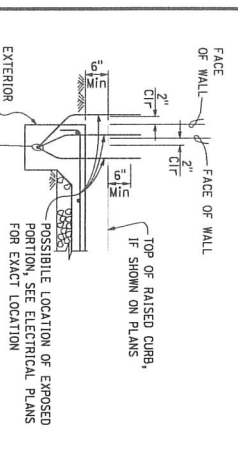
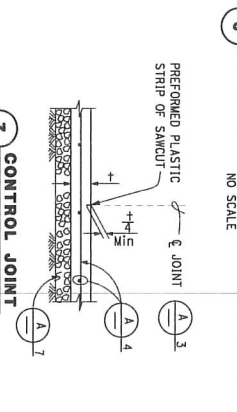
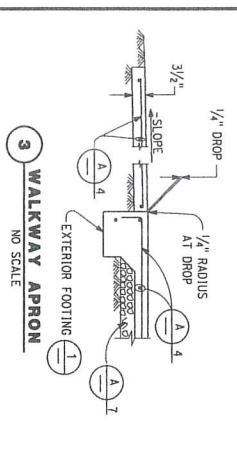
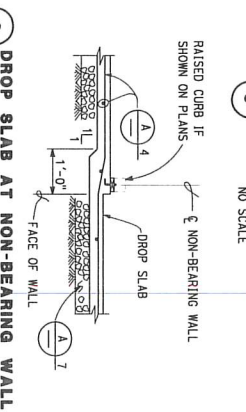
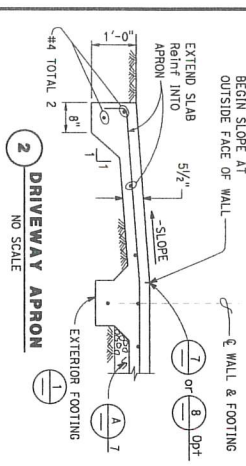
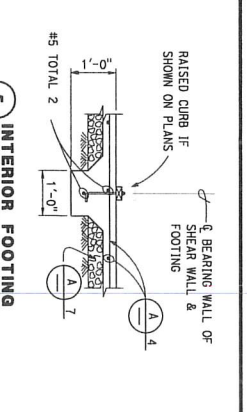
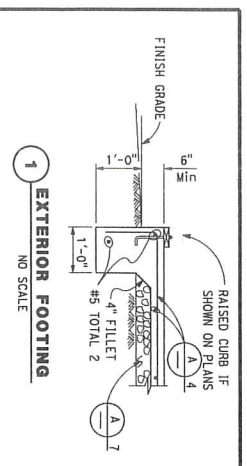
DIVISION OF ENGINEERING SERVICES
 ARCHITECTURAL DESIGN
 UNIT: 3618 CONTRACT No.: 01-03604
 PROJECT NUMBER & PHASE: 0190000121

BRIDGE No. 04R001L
 POST TITLE R103457
 SYMBOLS
 BUILDING SYMBOLS 3 OF 3

REVISION DATES (PRELIMINARY STAGE ONLY)
 SHEET G1-3c



DATE: 01/10/2024
 COUNTY: HUMBOLDT
 PROJECT: R103,39/R103,67
 POST MILES: 101
 TOTAL PROJECT: R103,39/R103,67
 SHEET NO.: 3 OF 3
 TOTAL SHEETS: 3
 LICENSED ARCHITECT: Donald E. Trivoli
 LICENSE NO.: A1989
 DATE: 12-08-20
 LICENSE EXPIRES: 12-31-23
 STATE OF CALIFORNIA
 DIVISION OF ENGINEERING SERVICES
 ARCHITECTURAL DESIGN UNIT



APPROVED
 FEB 1 2024
 Humboldt County
 PLANNING

A CONCRETE NOTES

- The following minimum concrete cover shall be provided for reinforcement.
 - Concrete cast against and permanently exposed to earth: 3" Minimum Cover
 - Concrete exposed to earth or weather but cast in forms: 2"
 - thru #18 bars: 2"
 - and smaller, #31 or #31 wire, and smaller: 1 1/2"
 - Concrete not exposed to weather or in contact with ground: Slabs, Walls and Joists: 1 1/2"
 - #14 and #18 Bar: 1 1/2"
 - #11 Bar and smaller: 3/4"
- Beams and Columns: Primary Reinforcement, Ties, Stirrups and Spirals: 1 1/2"
- Splices in continuous reinforcement as in walls, wall footings, etc. #8 or smaller shall have a lap of 45 diameters and the splices in adjacent bars shall not be less than 5'-0" apart.
- Continuous bars in spandrels, wall beams, etc. shall lap top bars at center of span and bottom bars at supports.
- Contraction joints and control joints shall divide slab into areas not exceeding 25 square yards without reentrant corners and with length to width ratios not exceeding 1.5 to 1. Joint spacing shall not exceed 15'-0".
- Slab Thickness (t)
 - Reinforcement: #3 @ 18 Each way, place in center of slab
 - 3 1/2"
 - 5/2"
 - #4 @ 18 Each way, place in center of slab
- Concrete fill is to be placed before footing is poured. Make the same width as the footing and the full width of the pipe trench. Concrete fill not required for pipes less than 2" diameter for pipes more than 3'-0" below bottom of footing.
- See Mechanical and Architectural Plans for size and locations of pipe, vents, ducts and other similar openings. See Electrical Plans for conduits and outlet boxes in floors, walls, etc.
- Place 4" of free draining granular material under slabs.

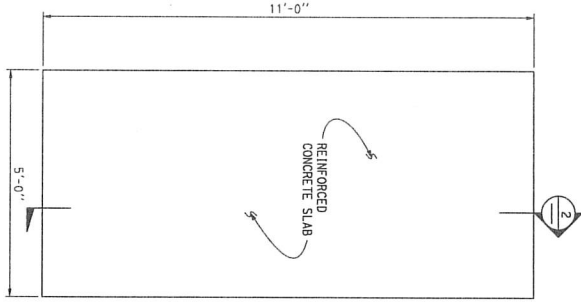
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-251-1	DESIGN BY	STANDARD DRAWING	DATE	1-04	REVISIONS	DATE	BY	REASON
1-04	1-04	1-04	1-04	1-04	1-04	1-04	1-04	1-04
STATE OF CALIFORNIA			DIVISION OF ENGINEERING SERVICES			REGISTERED ARCHITECTURAL AND STRUCTURAL DESIGN		
DEPARTMENT OF TRANSPORTATION			ARCHITECTURAL AND STRUCTURAL DESIGN			REGISTERED CIVIL ENGINEER		
PROJECT NO. 1-04-0404			PROJECT NO. 1-04-0404			PROJECT NO. 1-04-0404		
SHEET NO. 1-04-0404			SHEET NO. 1-04-0404			SHEET NO. 1-04-0404		
CONCRETE STANDARD			SAVAGE CREEK INTAKE UPGRADE			CONCRETE STANDARD		
DATE: 1-04-04			DATE: 1-04-04			DATE: 1-04-04		

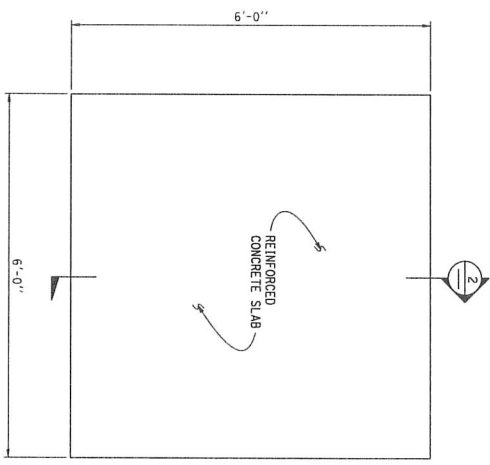
Sheet	01	County	Humboldt	Route	101	POST MILEPOST	R103.0/103.67	SHEET TOTAL	NO. SHEETS	1
REGISTERED CIVIL ENGINEER	C. N. Becht		DATE	11-11-21		REGISTERED PROFESSIONAL ENGINEER	C. N. Becht		NO. SHEETS	1
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of corrected copies of this plan sheet.			Humboldt County PLANNING			REGISTERED CIVIL ENGINEER			C. N. Becht	

PROJECT DESIGN CRITERIA
 The building work on this project has been designed to conform to the 2019 California Building Code

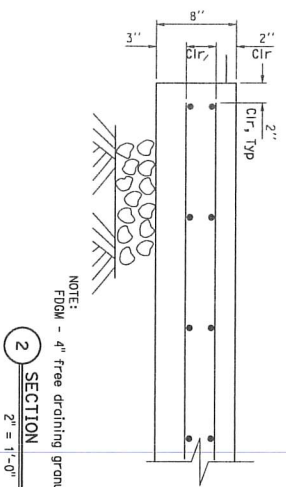
REINFORCED CONCRETE:
 Ultimate Strength Design:
 $f'_c = 3,600$ psi
 $f_y = 60,000$ psi



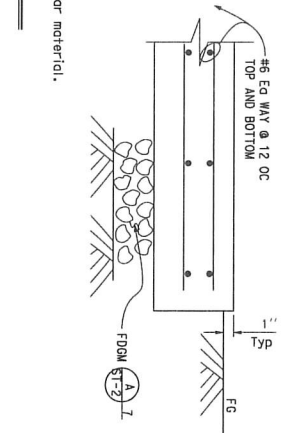
1 BACK WASHING PUMP PAD
 1" = 1'-0"



3 WELL SUMP PAD
 1" = 1'-0"



2 SECTION
 2" = 1'-0"



NOTE:
 FDM - 4" free draining granular material.



DESIGN	DR	Chandro Bopit	DESIGN	SE	Sean Samuel	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE No.	SAVAGE CREEK INTAKE UPGRADE	SHEET	ST-1-1
DETAILS	DR	Alexsey Serfin	DETAILS	SE	Chandro Bopit	ARCHITECTURAL	ARCHITECTURAL	04/00/11	SLAB PLANS AND SECTION	OF	
QUANTITIES	DR		QUANTITIES	SE		DEPARTMENT OF TRANSPORTATION	STRUCTURAL DESIGN	POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)	
ORIGINAL SCALE IN INCHES			FOR REDUCED PLANS			0	1	2	3	REVISION DATES (PRELIMINARY STAGE ONLY)	
TABLE Imperial - CESC Rev. 12/20 UNIT: 3398 CONTRACT No.: 01-02404 PROJECT NUMBER & PHASE: 01190000121 DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) V1 01-CAD/Issue/Proj/Spec/Draw/01-Upgrade/Draw/INT-01.dwg											

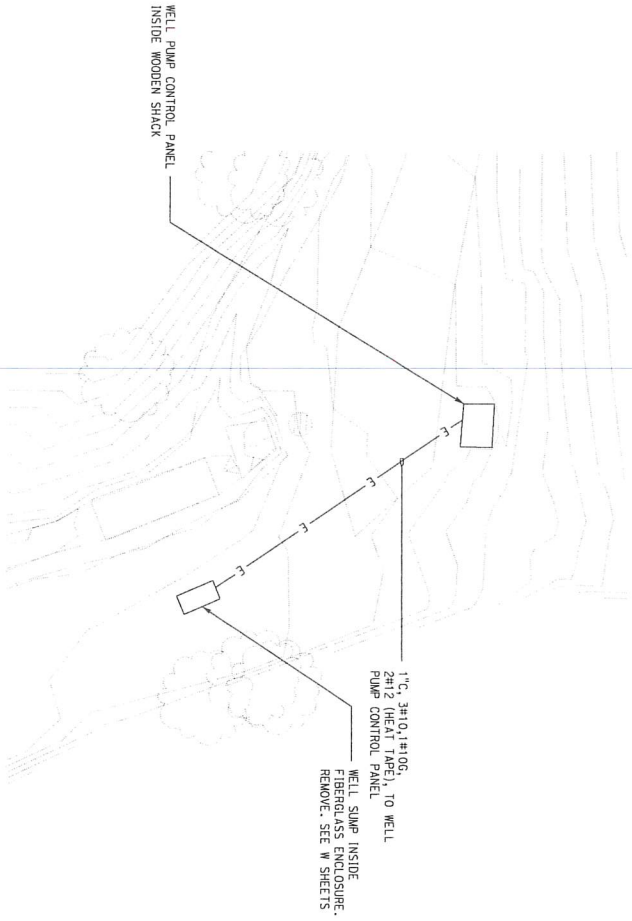
DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
01	Humb	101	R103.0/R103.67	NO. SHEETS
REGISTERED CIVIL ENGINEER				DATE
11-11-21				
REGISTERED PROFESSIONAL ENGINEER				
No. 48593				
Exp. 6-30-23				

By State of California, at the Office of Registering Civil Engineers, in compliance of sworn copies of this plan sheet.

GENERAL NOTES:

A. Not all existing electrical systems/components are shown.

B. Location of existing equipment/conduit systems as shown are approximate only. Field verify exact locations prior to work.



PARTIAL EXISTING SITE PLAN

1" = 10'-0"

DESIGN SURVEYING PROJECT: <i>Michael X. Zell</i> DESIGNER: <i>Michael X. Zell</i>		DESIGN: Randall Blenkinship DETAILS: Randall Blenkinship QUANTITIES: Randall Blenkinship		PROJECT: JAGTOR DRAINAGE LOCATION: RANDOLL BLINKENSHIP		DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		SHEET NO. 048001L POST MILE R102.9 SAFETY ROADSIDE REST AREA UPGRADE EXISTING SITE PLAN		SHEET NO. EE-1 REVISION DATES: (SEE TOWNNER STAGE ONLY) INVISION SHEET OF	
ORIGINAL SCALE IN INCHES 0 1 2 3 FOR REDUCED PLANS			DEPARTMENT OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN			UNIT: 3588 CONTRACT No.: 01-024404 PROJECT NUMBER & PHASE: 01190000121			REVISION DATES: (SEE TOWNNER STAGE ONLY) INVISION SHEET OF		



DATE: 11-10-21

REGISTERED ELECTRICAL ENGINEER

PROJECT: JAGTOR DRAINAGE

PROJECT NO.: E-19315

PROJECT NO.: ELEC-30-23

DATE OF EXPIRY: 11-10-23

DATE: 11-10-21

REGISTERED ELECTRICAL ENGINEER

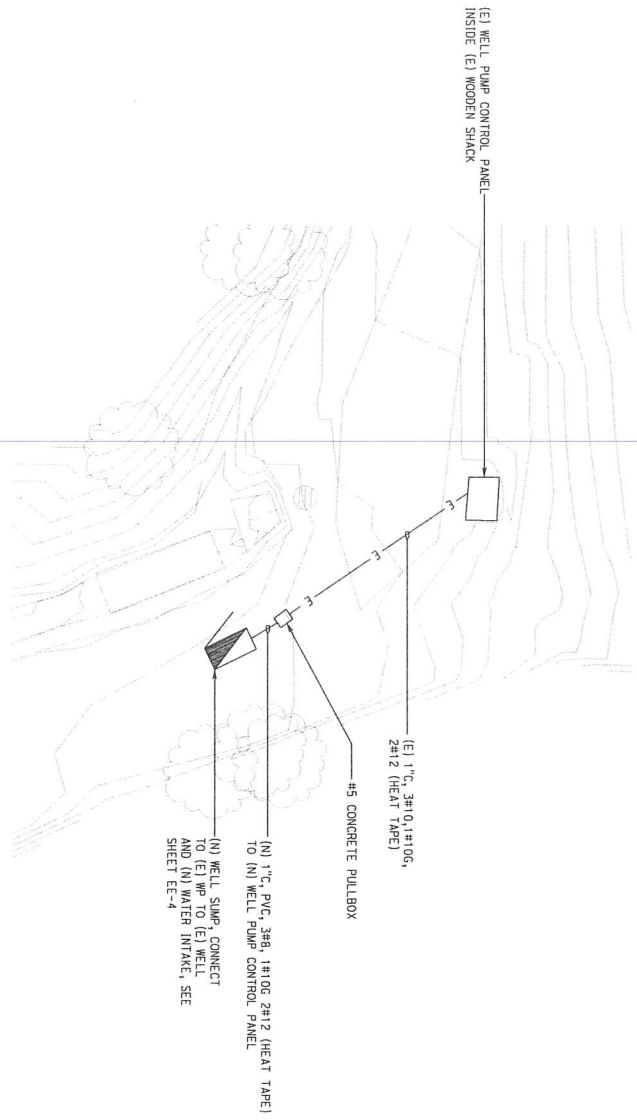
PROJECT: JAGTOR DRAINAGE

PROJECT NO.: E-19315

PROJECT NO.: ELEC-30-23

DATE OF EXPIRY: 11-10-23

GENERAL NOTES:
 A. Not all existing electrical systems/components are shown.
 B. Location of existing equipment/conduit systems as shown are approximate only. Field verify exact locations prior to work.



PARTIAL MODIFIED SITE PLAN
 1" = 10'-0"

DATE	COUNTY	ROUTE	POST MILE	SHEET TOTAL
01	HUM	101	R103.39/103.67	NO. SHEETS

REGISTERED ELECTRICAL ENGINEER
 DATE 11-10-21
 PROJECT NO. EE-16915
 REG. NO. 16915
 EXP. DATE 08-30-23

REGISTERED PROFESSIONAL ENGINEER
 DATE 11-10-21
 PROJECT NO. EE-16915
 REG. NO. 16915
 EXP. DATE 08-30-23



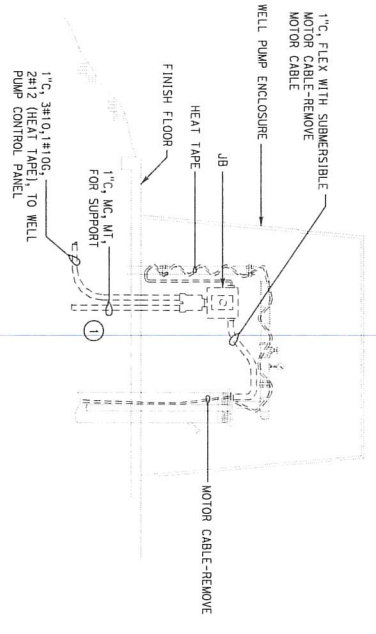
DESIGN	DESIGNED BY	DESIGNED FOR	DATE
DETAILS	Randall Blomkenship	Jogator Dholiwadi	08/20/23
QUANTITIES	Randall Blomkenship	Jogator Dholiwadi	08/20/23

ORIGINAL SCALE IN INCHES: 0 1 2 3
 FOR REDUCED PLANS: 0 1 2 3

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.
DEPARTMENT OF TRANSPORTATION	ELECTRICAL-MECHANICAL-WATER	04R001L
	WASTE-WATER DESIGN	POST MILE
	UNIT: 3585 CONTRACT NO. 01-02404	R102.9
	PROJECT NUMBER & PHASE: 0190000121	DISREGARD PRINT'S BEARING
		SAFETY CHECK
		TRINIDAD AREA UPGRADE
		MODIFIED SITE PLAN
		SHEET
		EE-2

PROJECT: 0190000121 Storage Green Infrastructure 00 pct submittal EEB00_02.dgn
 25-APR-2022 13:44

NOTE:
 ① Remove the conductors from the motor and splice new conductors.
 Cut the conduit above finish floor.



EXISTING WELL PUMP PLANTLE TEXT

NO SCALE

Dist	COUNTY	ROUTE	POST MILE	SHEET
01	HUM	101	R103.39/103.67	NO. 1
TOTAL PROJECT				SHEET 33

REGISTERED PROFESSIONAL ENGINEER
 REGISTERED ELECTRICAL ENGINEER DATE 11-10-21
 Joseph J. Malinowski
 No. E-18315
 (CA REG. 58-23)
 STATE OF CALIFORNIA
 DIVISION OF INDUSTRIAL RELATIONS

PLANS APPROVAL DATE: 11-10-21
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



DESIGN	BY	DESIGNED	DATE	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE No.	SAFETY	TRIMIDAD	SHEET
DETAILS	FOR	BY	DATE	DEPARTMENT OF TRANSPORTATION	ELECTRICAL-MECHANICAL-WATER	04R001L	ROAD	AREA	EE-3
QUANTITIES	FOR	BY	DATE	DEPARTMENT OF TRANSPORTATION	WATER AND	POST MILE	CHECK	REST	
	FOR	BY	DATE	DEPARTMENT OF TRANSPORTATION	DESIGN	R102.9	EXISTING	WELL	
	FOR	BY	DATE	DEPARTMENT OF TRANSPORTATION	DESIGN	EARLIER REVISION DATES	WELL	PUMP	
	FOR	BY	DATE	DEPARTMENT OF TRANSPORTATION	DESIGN		WELL	PUMP	

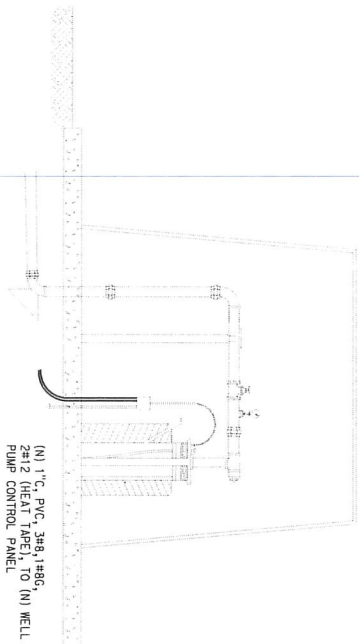
DESIGN: Randall Blenkinship
 BY: Yoren Sun
 DESIGNED: Randall Blenkinship
 DATE: JAGTOR Dholiwal
 ORIGINAL SCALE IN INCHES: 0 1 2 3
 FOR REDUCED PLANS: 0 1 2 3

UNIT: 3598 CONTRACT No.: 01-02404
 PROJECT NUMBER & PHASE: 0190000121

REVISION DATES: (REBEL/UNARY) STAGE ONLY
 REVISION SHEET: VI

Project: 01V0130000121 Stage: Green Intra: w/elect/00 Per: submittal/EE00_0325gn

GENERAL NOTES:
 A. Not all existing electrical systems/components are shown.
 B. Location of existing equipment/conduit systems as shown are approximate only. Field verify exact locations prior to work.



ELEVATION
 NO SCALE



Dist	COUNTY	ROUTE	POST MILEAGE	SHEET NO./TOTAL
01	HUM	101	R103.39/103.67	10/23

REGISTERED ELECTRICAL ENGINEER DATE
 11-10-21
 REGISTERED ELECTRICAL ENGINEER DATE
 11-10-21

PLANS APPROVAL DATE
 11-10-21

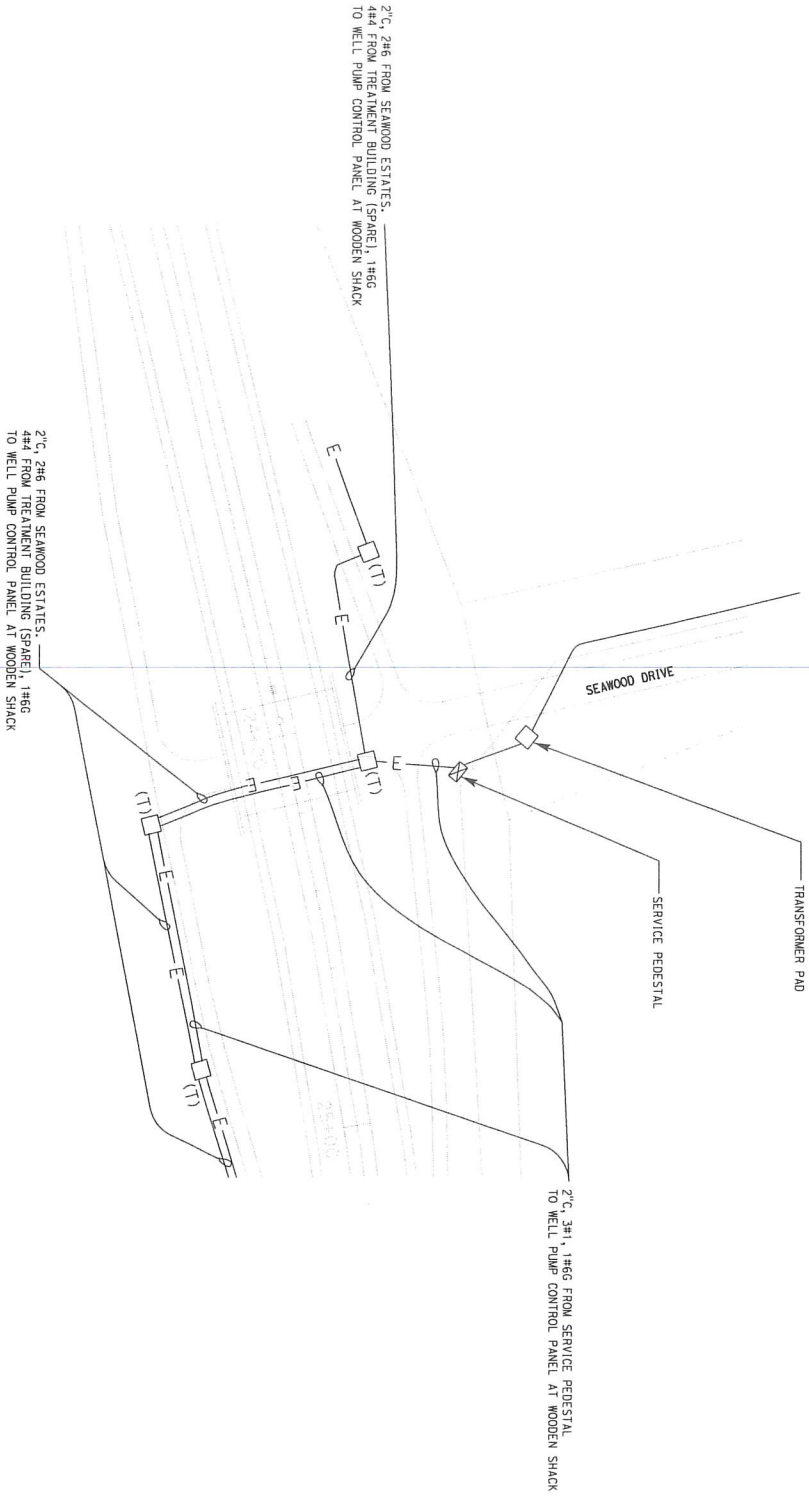
REGISTERED PROFESSIONAL ENGINEER
 No. E-16815
 (EXPIRES 08-23)
 STATE OF CALIFORNIA

The State of California or its officers or agents do not warrant or assume any liability for the accuracy or completeness of approved copies of this plan sheet.

DESIGN	BY	DATE	DESIGN	BY	DATE	DESIGN	BY	DATE
DETAILS	Randall Blomkenschid		DETAILS	Randall Blomkenschid		DETAILS	Randall Blomkenschid	
QUANTITIES	Randall Blomkenschid		QUANTITIES	Randall Blomkenschid		QUANTITIES	Randall Blomkenschid	
ORIGINAL SCALE IN INCHES	0	1	2	3		FOR REDUCED PLANS		

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER
 AND
 WASTE-WATER DESIGN
 UNIT: 3586 CONTRACT No. 01-06-4404
 PROJECT NUMBER & PHASE: 0179000121
 BRIDGE No. 04R001L
 POST MILE R102.9
 DISREGARD PRINT'S BEARING
 EARLIER REVISION DATES
 SAFETY ROADSIDE REST AREA UPGRADE
 SAGE CREEK
 MODIFIED WELL PUMP
 TRINIDAD
 SHEET EE-4
 REVISION SHEET 1 OF 1
 DATE 11/10/21
 PROJECT: 0179000121 Sage Creek Interchange V100 post submittal 12/30/21-04-2021

- GENERAL NOTES:
- A. Not all existing electrical systems/components are shown.
 - B. Location of existing equipment/conduit systems as shown are approximate only. Field verify exact locations prior to work.



PARTIAL SITE PLAN

1" = 30'-0"

DESIGN	BY	DESIGNED	DATE
DETAILS	Randall Blenkinship	Jogator Dholiwani	01/2024
QUANTITIES	Ramen Sun	Jogator Dholiwani	01/2024
	Randall Blenkinship	Jogator Dholiwani	01/2024

STATE OF CALIFORNIA		
DEPARTMENT OF TRANSPORTATION		
1	2	3

DIVISION OF ENGINEERING SERVICES	BRIDGE NO.
ELECTRICAL-MECHANICAL-WATER	04R001L
WASTE-WATER DESIGN	POST MILE
UNIT: 3598 CONTRACT NO.: 01-064404	RI02.9
PROJECT NUMBER & PHASE: 0199000121	EXAMPLE REVISION DATES

SAFETY CHECK	DATE
BY	DATE

TRINIDAD AREA UPGRADE	SHEET
EXISTING PARTIAL SITE PLAN	EE-5
REVISION DATES (PANEL/WARRANT SLIDE ONLY)	VISION SHEET
12/21/2023 (+)	VI



DATE	COUNTY	ROUTE	POST MILES	SHEET	TOTAL
01	HUM	101	R103.59/103.67	NO.	SHEETS

REGISTERED ELECTRICAL ENGINEER DATE 11-10-21

REGISTERED ELECTRICAL ENGINEER JOGATOR DHOLOWANI No. 5-15933 Exp. 06-30-23

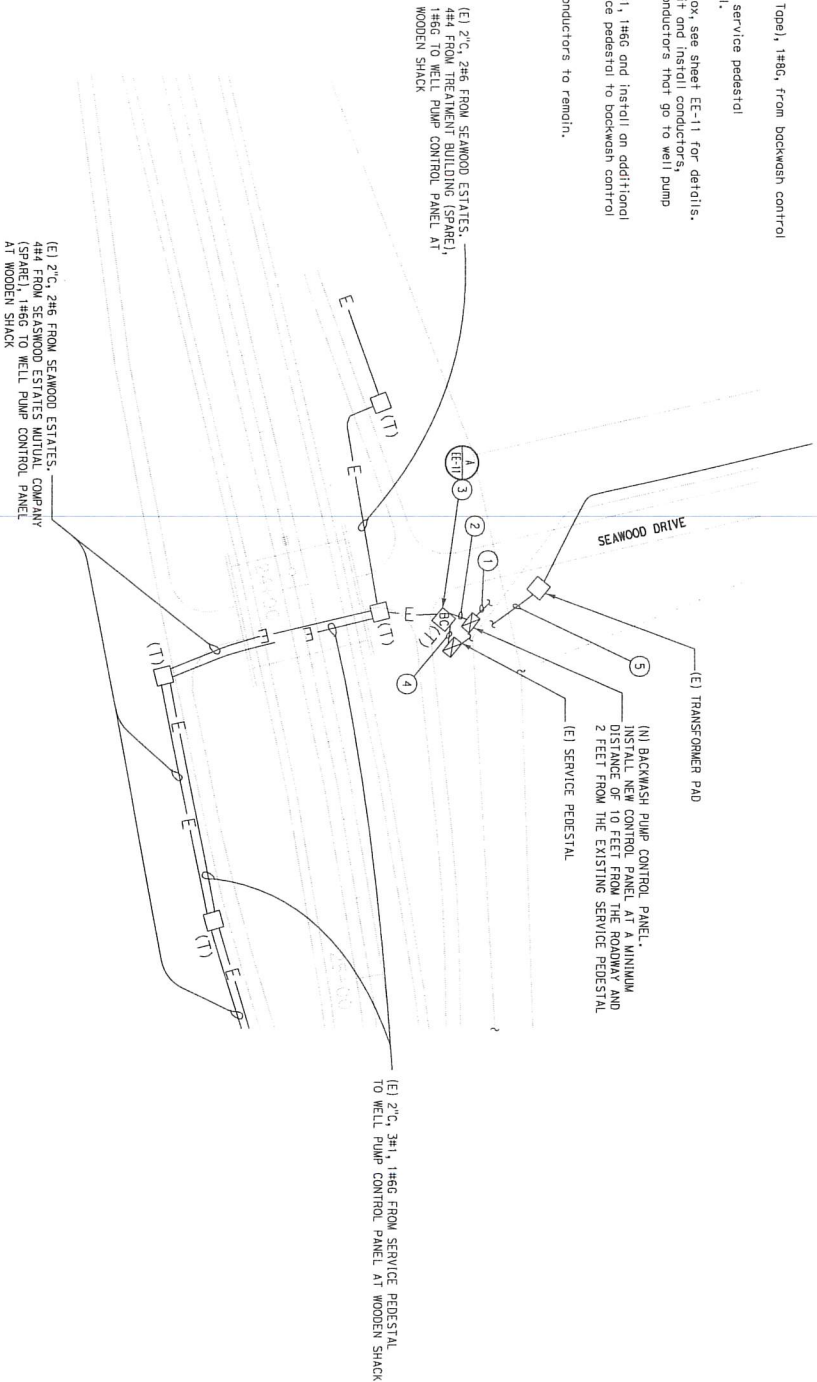
PLANS APPROVAL DATE 11-10-21

By State of California or its officers or agents and not be responsible for the accuracy or completeness of covered copies of this plan sheet.

GENERAL NOTES:
 A. Not all existing electrical systems/components are shown.
 B. Location of existing equipment/conduit systems as shown are approximate only. Field verify exact locations prior to work.

NOTES:

- ① 1" C, PVC, 3#8, 2#12 (Heat Tape), 1#8G, from backwash control panel to backwash pump.
- ② 2" C, PVC, 3#1, 1#6G, from service pedestal to backwash control panel.
- ③ No. 5 Traffic rated pullbox, see sheet EE-11 for details. Intercept existing conduit and install conductors, per sheet EE-8. Splice conductors that go to well pump control panel.
- ④ Intercept (E) 2" C, PVC, 3#1, 1#6G and install an additional 3#1, 1#6G from the service pedestal to backwash control panel, per sheet EE-8.
- ⑤ (E) utility conduit and conductors to remain.



PARTIAL SITE PLAN

DATE	COUNTY	ROUTE	POST MILES	SHEET TOTAL
01	HUM	101	R103.59/103.67	1 OF 2 SHEETS
REGISTERED ELECTRICAL ENGINEER		DATE		
11-10-21		11-10-21		
REGISTERED ELECTRICAL ENGINEER		DATE		
11-10-21		11-10-21		
REGISTERED ELECTRICAL ENGINEER		DATE		
11-10-21		11-10-21		
REGISTERED ELECTRICAL ENGINEER		DATE		
11-10-21		11-10-21		



DESIGN	DESIGNED BY	DESIGNED FOR	DATE
DETAILS	Yoram Sun	Randall Binkenship	11-10-21
QUANTITIES	Randall Binkenship	Jogitor Dholjiwal	11-10-21
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			
0	1	2	3
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION			
DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN			
UNIT: 356 CONTRACT No.: 01-02-404 PROJECT NUMBER & PHASE: 0190000121			
BRIDGE No. 04R001L POST MILE R102.9			
SAFETY ROADSIDE DESIGN			
DISSEMINATING PRINTS BEARING EARLIER REVISION DATES			
TRINIDAD RESTRIED AREA UPGRADE			
MODIFIED PARTIAL SITE PLAN			
REVISION DATES (DATE/INITIALS/SCALE ONLY)			
SHEET EE-6			

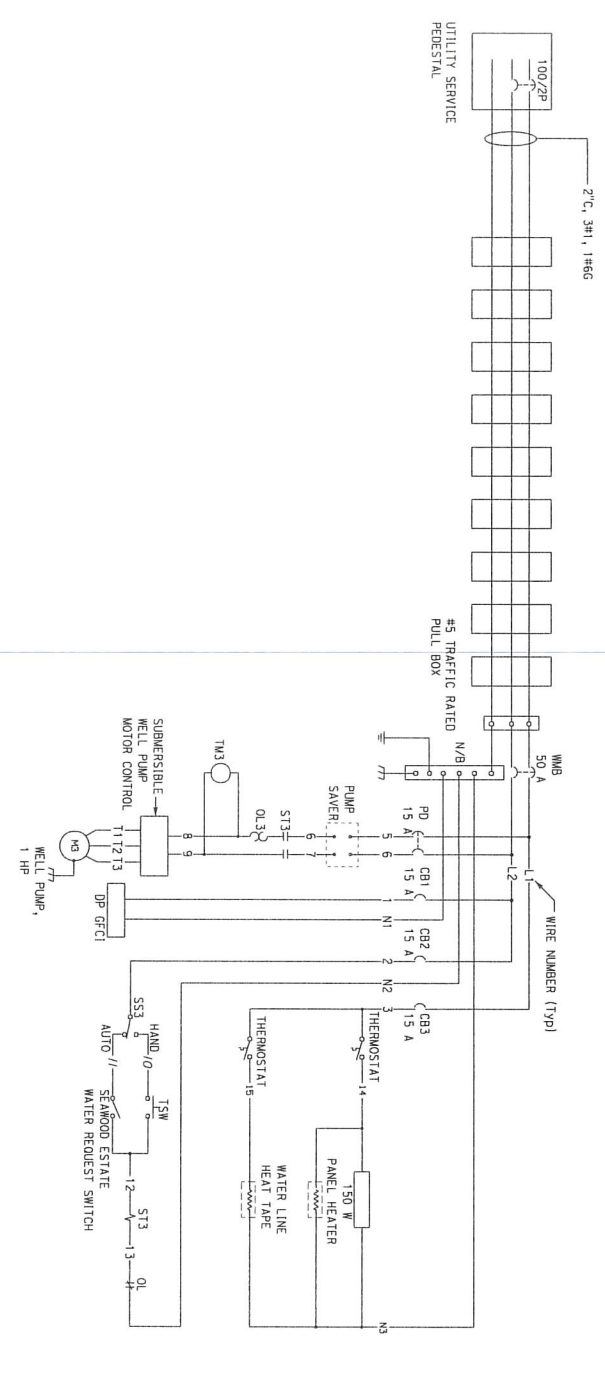
146MM Imperial - CGSC Rev. 12/20

Project: 0190000121 Sanogge Creek Interchange V100 per quantity sheet 06-25g

25-APR-2022 13:45

01	HUM	101	R103.39/103.67	POST MILES	SHEET NO.	TOTAL SHEETS
COUNTY ROUTE			TOTAL PROJECT			
REGISTERED ELECTRICAL ENGINEER <i>Robert J. Molyneux</i> 11-10-21 DATE				REGISTERED ELECTRICAL ENGINEER No. E-19813 Exp. 06-30-23 STATE OF CALIFORNIA		

The State of California, in the absence of agents duly authorized for that purpose, hereby certifies that the above is a true and correct copy of the original as submitted.



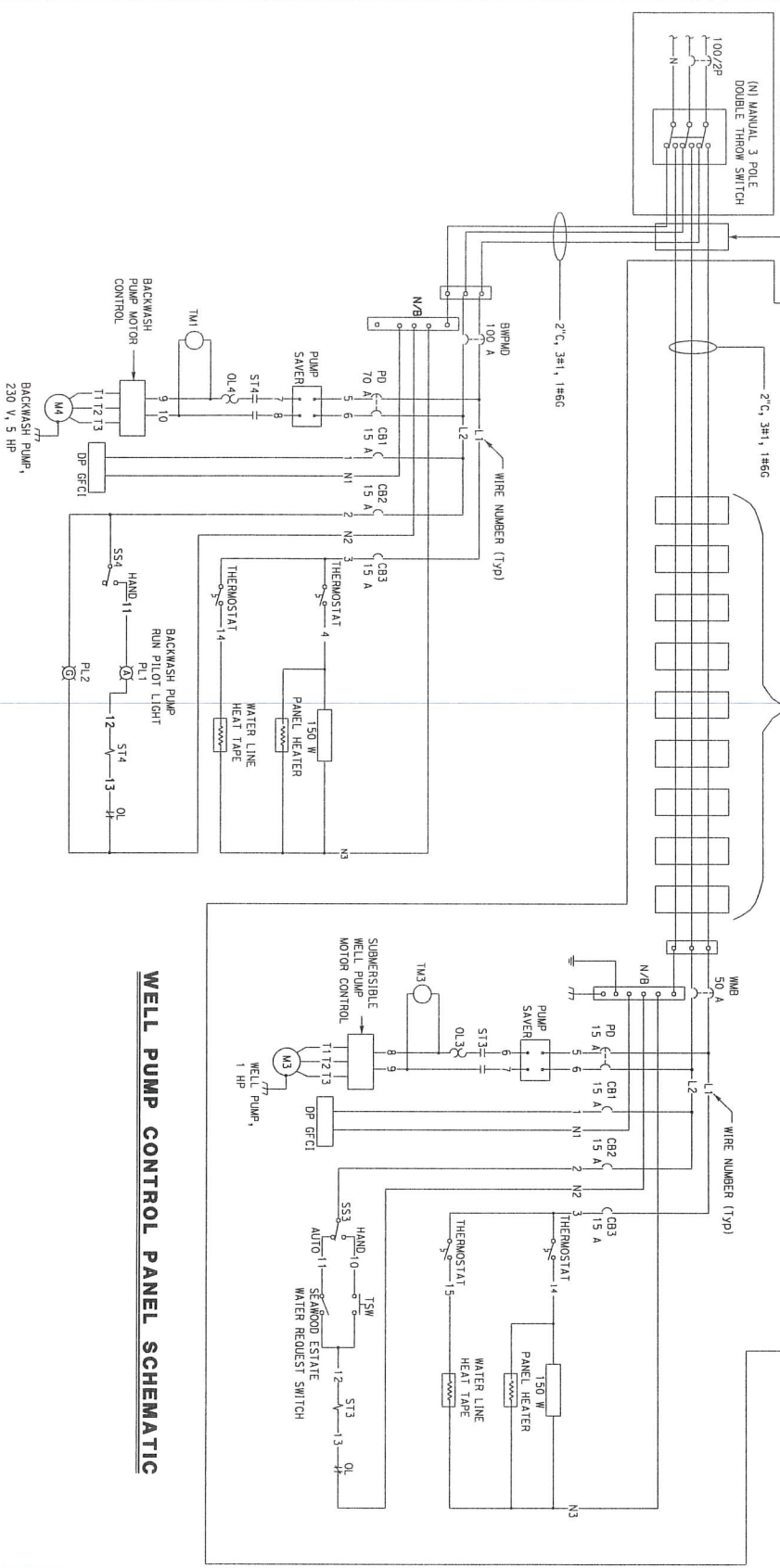
EXISTING WELL PUMP CONTROL PANEL SCHEMATIC



DESIGNER	DESIGN	DATE	PROJECT	SCALE	REVISION	DATE	BY
RANDALL BLENKENSHP	DETAILS	11/10/21	JOGTOR DRAIING	AS SHOWN	1	11/10/21	RB
QUANTITIES	QUANTITIES						
RANDALL BLENKENSHP	RANDALL BLENKENSHP						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN UNIT: 336 CONTRACT No.: 01-02-104 PROJECT NUMBER & PHASE: 01190000721 EARLIER REVISION DATES:			
TRIMMAD AREA UPGRADE EXISTING SCHEMATICS				SAFETY ROADSIDE REST BEARING EXISTING SCHEMATICS			
SHEET EE-7				SHEET NO. 040011 POST MILE R102.9			
REVISION DATES: (PANEL W/UNARY STAGE, ONLY) 11/10/21				REVISION SHEET NO. VI			

ELECTRICAL EQUIPMENT TO REMAIN

EXISTING #5 TRAFFIC RATED PULL BOXES, SEE EE-5



BACKWASH PUMP CONTROL PANEL SCHEMATIC

WELL PUMP CONTROL PANEL SCHEMATIC

DESIGN NO.	107	DESIGNER	RANDOLL BIRKENSHID	PROJECT NO.	3598
DETAILS	BY: YOWEN SUN	CHECKED	RANDOLL BIRKENSHID	CONTRACT NO.	01-02444
DRAWINGS	BY: RANDOLL BIRKENSHID	APPROVED	JAGTOR DINGLIANG	PROJECT NUMBER & REVISION	0190000121
			ORIGINAL SCALE IN INCHES	FOR REVISION PLANS	
			0	1 2 3	
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION			DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		
JAGTOR DINGLIANG			REGISTERED PROFESSIONAL ENGINEER No. E-10313		
SAFETY ROADSIDE REST AREA UPGRADE MODIFIED SCHEMATICS			SAFETY CHECKER		
SHEET EE-8			REVISION DATES: (FRESH) UNSTART STAGE ONLY		
TIDGWR Imperial - CASC Rev. 12/20			PROJECT: 01-00130000121 Storage Creek Interchange V100 Post Submission Review On-Draw		



DATE COUNTY ROUTE POST MILES TOTAL PROJECT SHEET NO. OF SHEETS

01 HUMB 101 R103.39/103.67

REGISTERED PROFESSIONAL ENGINEER

JAGTOR DINGLIANG No. E-10313 Exp. 05-30-23

REGISTERED ELECTRICAL ENGINEER DATE

11-10-21

DATE APPROVAL DATE

11-10-21

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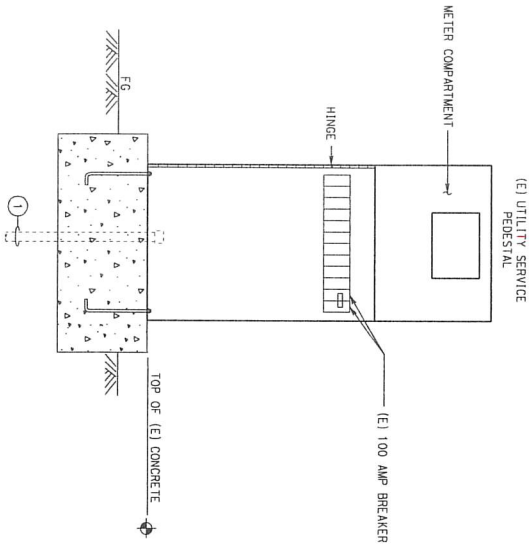
GENERAL NOTE:

- A. The Contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:

- 1. Intercept the existing conduit and install an additional 3#1, 1#60 that go to the backwash pump control panel.

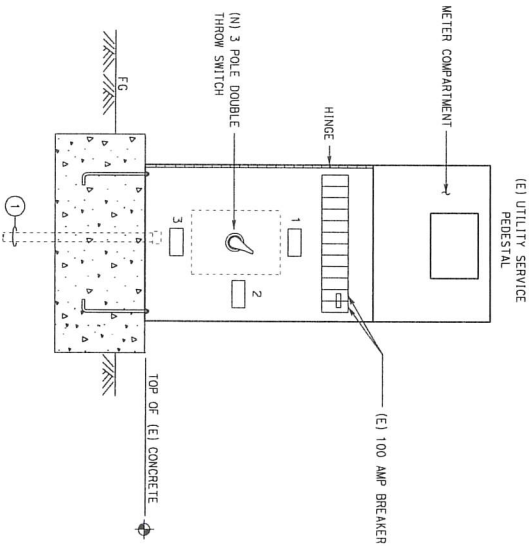
ITEM No.	NAMEPLATE SCHEDULE DESCRIPTION	LETTER HEIGHT
1	BACKWASH PUMP "ON"	1/2"
2	BOTH PUMPS "OFF"	1/2"
3	WELL PUMP "ON"	1/2"



EXISTING SERVICE PEDESTAL ENCLOSURE

(Exterior door not shown, Interior doors closed)

NO SCALE



MODIFIED SERVICE PEDESTAL ENCLOSURE

(Exterior door not shown, Interior doors closed)

NO SCALE



Dist#	QUANTITY	ROUTE	POST MILES - TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	HUM	101	R103.39/103.67		

REGISTERED ELECTRICAL ENGINEER	DATE
<i>Joseph Dholakia</i>	11-10-21

PLANS APPROVAL DATE	REGISTERED PROFESSIONAL ENGINEER
	Joseph Dholakia
	No. E. 16915
	Exp 05-30-23

No State of California or its officers or agents shall be held liable for errors or omissions in the completion of approved copies of this plan sheet.

DESIGN BY	Ronald Blakeneship	DESIGNED BY	Joseph Dholakia
DETAILS BY	Yomen Sun	CHECKED BY	Ronald Blakeneship
QUANTITIES BY	Ronald Blakeneship	FOR REDUCED PLANS	0

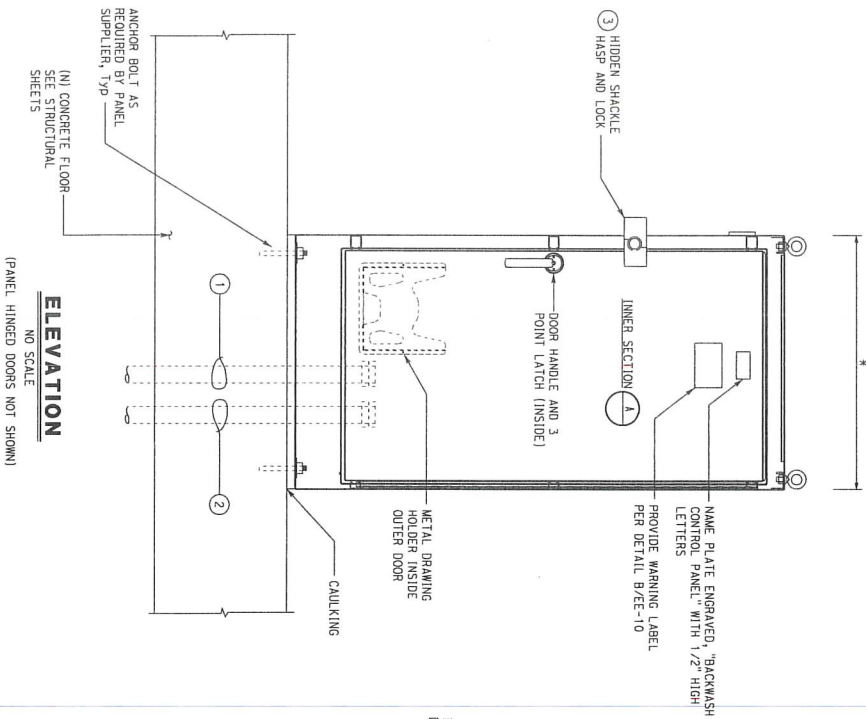
STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	TRINIDAD AREA UPGRADE
DEPARTMENT OF TRANSPORTATION	ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	REST SERVICE PEDESTAL ELEVATION
UNIT: 3/56 CONTRACT NO.: 01-07-014	PROJECT NUMBER & PHASE: 0190000121	SAFETY CHECK
0	1	2
3		

BRIDGE NO.	0480011
POST MILE	R102.9
SAVING CHECK	
REVISION DATES (PAPER UNLESS STAGE ONLY)	1/24/11, 2/27/11, 1/12/11
REVISION DATES (ELECTRONIC)	VI

15-APR-2022 13:45

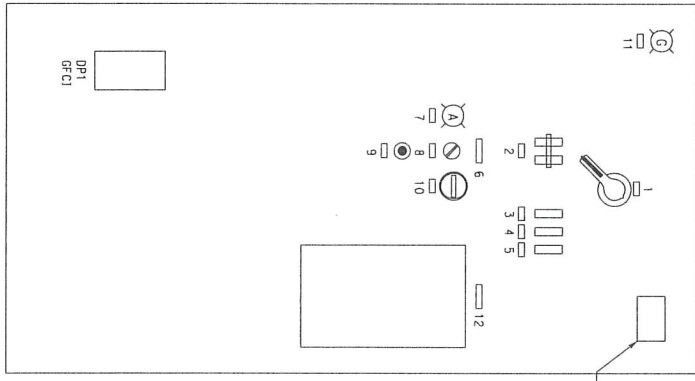
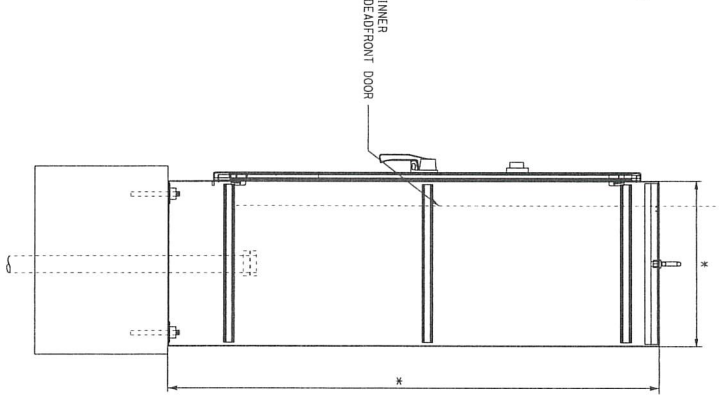
- NOTES:
- 1" C, PVC, 3/8", 2412 (heat Tapel), 1486, from backwash control panel to backwash pump.
 - 2" C, PVC, 3/4", 1486, from service pedestal to backwash control panel.
 - Panel supplier must incorporate a hidden shackle hasp lock into the outer door of the control panel. Any coatings damaged by the installation of the hidden shackle hasp must be fully repaired.

* SIZE AS REQUIRED TO FIT ALL EQUIPMENT EXCEPT NOT TALLER THAN 72" AND NOT WIDER THAN 24"



TAG No.	TYPE	INSCRIPTION	LETTER HEIGHT (Inch)
1	PLATE	MAIN BREAKER	3/8
2	PLATE	BACKWASH PUMP BREAKER	3/8
3	PLATE	RECEPTABLE GFCI BREAKER	3/8
4	PLATE	HAND/OFF SWITCH DISCONNECT	3/8
5	PLATE	THERMOSTAT DISCONNECT	3/8
6	PLATE	BACKWASH PUMP	3/8
7	PLATE	PUMP RUNNING	3/8
8	PLATE	HAND/OFF SELECTION SWITCH	3/8
9	PLATE	THERMO RELAY	3/8
10	PLATE	TRANSFER	3/8
11	PLATE	POWER ON	3/8

TAG No.	TYPE	INSCRIPTION	LETTER HEIGHT (Inch)
12	PLATE	INSTRUCTIONS TO TURN "ON" AND "OFF" BACKWASH PUMP: STEP 1: AT SERVICE PEDestal, TURN "ON". TRANSFER SWITCH TO BACKWASH PUMP "ON". STEP 2: DIRECT VALVES TOWARDS REGION IN WATER INTAKE TO BACKWASH. STEP 3: IN THIS CONTROL PANEL, TURN SELECTION SWITCH TO "ON" FOR BACKWASH PUMP. STEP 4: WHEN BACKWASH PUMP IS NO LONGER NEEDED, TURN BACKWASH PUMP TO "OFF" IN CONTROL PANEL, TURN VALVES TO THEIR NORMAL ORIENTATION, IN SERVICE PEDestal, TRANSFER POWER BACK TO WELL PUMP.	1



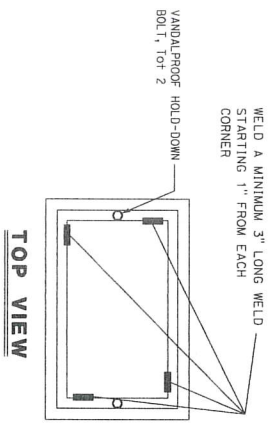
DESIGN		BY		CHECKED		DATE	
Randall Birkenship		Randall Birkenship		Jogitor Dholiwal		01/20/24	
DETAILS		BY		CHECKED		DATE	
Yamen Sun		Yamen Sun		Jogitor Dholiwal		01/20/24	
QUANTITIES		BY		CHECKED		DATE	
Randall Birkenship		Randall Birkenship		Jogitor Dholiwal		01/20/24	
ORIGINAL SCALE IN INCHES		FOR REDUCED PLANS		0		1 2 3	
DIVISION OF ENGINEERING SERVICES		BRIDGE No.		SAFETY ROADSIDE REST AREA UPGRADE		SHEET	
ELECTRICAL-MECHANICAL-WATER		04R01L		BACKWASH CONTROL PANEL		EE-10	
WATER/WATER DESIGN		FOSI DATE		REVISION DATES (DATE/INITIALS)		REVISION SHEET	
UNIT: 3588 CONTRACT No.: 01-20-1404		R102.9		01/20/24		11/21	
PROJECT NUMBER & PHASE: 0139000121		DISCREPANCY PRINTS BEARING		DATE		DATE	
PROJECT NUMBER & PHASE: 0139000121		EARLIER REVISION DATES		DATE		DATE	
PROJECT NUMBER & PHASE: 0139000121		DATE		DATE		DATE	



DATE	COUNTY	ROUTE	POST MILE	SHEET NO.	TOTAL SHEETS
01	HUM	101	R103.39/103.67	10	10
REGISTERED ELECTRICAL ENGINEER					
DATE					
11-10-24					
REGISTERED PROFESSIONAL ENGINEER					
DATE					
11-10-24					
No. E.16315					
EXPIRES 06-30-25					
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01	HUM	101	R103.39/103.67	SHEET NO. 1	TOTAL SHEETS 2
REGISTERED ELECTRICAL ENGINEER <i>Tommy McVival</i> 11-10-21 DATE				REGISTERED PROFESSIONAL ENGINEER Humboldt No. E-16915 Exp. 06-30-23 STATE OF CALIFORNIA	
PLANS APPROVAL DATE: 11-10-21 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of approved copies of this plan sheet.					

- * PROVIDE THREE COMPATIBLE TOOLS TO OPEN/LOSE HOLD-DOWN BOLTS.
 - ** PROVIDE THREE COMPATIBLE TOOLS TO OPEN/LOSE HEX LOCK NUT.
- GENERAL NOTE:
 A. Pull box covers must be marked as per the pull box marking schedule.



A No. 5 TRAFFIC RATED PULL BOX WITH TAMPER RESISTANCE WELDED COVER
 NO SCALE



B WARNING LABEL *
 NO SCALE
 * WARNING LABEL MUST BE CONSTRUCTED WITH HIGH DEGREE OF CHEMICAL, ABRASION, HEAT RESISTANCE AND UL RECOGNIZED MATERIAL.

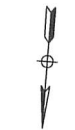
DESIGN		DESIGN		DESIGN		DESIGN		DESIGN		DESIGN		DESIGN		DESIGN		DESIGN		DESIGN		DESIGN	
DETAILS		DETAILS		DETAILS		DETAILS		DETAILS		DETAILS		DETAILS		DETAILS		DETAILS		DETAILS		DETAILS	
QUANTITIES		QUANTITIES		QUANTITIES		QUANTITIES		QUANTITIES		QUANTITIES		QUANTITIES		QUANTITIES		QUANTITIES		QUANTITIES		QUANTITIES	
Rondell Birkenship		Rondell Birkenship		Rondell Birkenship		Rondell Birkenship		Rondell Birkenship		Rondell Birkenship		Rondell Birkenship		Rondell Birkenship		Rondell Birkenship		Rondell Birkenship		Rondell Birkenship	
Jogitor Dholiwaj		Jogitor Dholiwaj		Jogitor Dholiwaj		Jogitor Dholiwaj		Jogitor Dholiwaj		Jogitor Dholiwaj		Jogitor Dholiwaj		Jogitor Dholiwaj		Jogitor Dholiwaj		Jogitor Dholiwaj		Jogitor Dholiwaj	
ORIGINAL SCALE IN INCHES		ORIGINAL SCALE IN INCHES		ORIGINAL SCALE IN INCHES		ORIGINAL SCALE IN INCHES		ORIGINAL SCALE IN INCHES		ORIGINAL SCALE IN INCHES		ORIGINAL SCALE IN INCHES		ORIGINAL SCALE IN INCHES		ORIGINAL SCALE IN INCHES		ORIGINAL SCALE IN INCHES		ORIGINAL SCALE IN INCHES	
0		1		2		3		4		5		6		7		8		9		10	
STATE OF CALIFORNIA		STATE OF CALIFORNIA		STATE OF CALIFORNIA		STATE OF CALIFORNIA		STATE OF CALIFORNIA		STATE OF CALIFORNIA		STATE OF CALIFORNIA		STATE OF CALIFORNIA		STATE OF CALIFORNIA		STATE OF CALIFORNIA		STATE OF CALIFORNIA	
DEPARTMENT OF TRANSPORTATION		DEPARTMENT OF TRANSPORTATION		DEPARTMENT OF TRANSPORTATION		DEPARTMENT OF TRANSPORTATION		DEPARTMENT OF TRANSPORTATION		DEPARTMENT OF TRANSPORTATION		DEPARTMENT OF TRANSPORTATION		DEPARTMENT OF TRANSPORTATION		DEPARTMENT OF TRANSPORTATION		DEPARTMENT OF TRANSPORTATION		DEPARTMENT OF TRANSPORTATION	
DIVISION OF ENGINEERING SERVICES		DIVISION OF ENGINEERING SERVICES		DIVISION OF ENGINEERING SERVICES		DIVISION OF ENGINEERING SERVICES		DIVISION OF ENGINEERING SERVICES		DIVISION OF ENGINEERING SERVICES		DIVISION OF ENGINEERING SERVICES		DIVISION OF ENGINEERING SERVICES		DIVISION OF ENGINEERING SERVICES		DIVISION OF ENGINEERING SERVICES		DIVISION OF ENGINEERING SERVICES	
ELECTRICAL-MECHANICAL-WATER		ELECTRICAL-MECHANICAL-WATER		ELECTRICAL-MECHANICAL-WATER		ELECTRICAL-MECHANICAL-WATER		ELECTRICAL-MECHANICAL-WATER		ELECTRICAL-MECHANICAL-WATER		ELECTRICAL-MECHANICAL-WATER		ELECTRICAL-MECHANICAL-WATER		ELECTRICAL-MECHANICAL-WATER		ELECTRICAL-MECHANICAL-WATER		ELECTRICAL-MECHANICAL-WATER	
MATERIAL DESIGN		MATERIAL DESIGN		MATERIAL DESIGN		MATERIAL DESIGN		MATERIAL DESIGN		MATERIAL DESIGN		MATERIAL DESIGN		MATERIAL DESIGN		MATERIAL DESIGN		MATERIAL DESIGN		MATERIAL DESIGN	
UNIT: 3356 CONTRACT No.: 01-0C4404		UNIT: 3356 CONTRACT No.: 01-0C4404		UNIT: 3356 CONTRACT No.: 01-0C4404		UNIT: 3356 CONTRACT No.: 01-0C4404		UNIT: 3356 CONTRACT No.: 01-0C4404		UNIT: 3356 CONTRACT No.: 01-0C4404		UNIT: 3356 CONTRACT No.: 01-0C4404		UNIT: 3356 CONTRACT No.: 01-0C4404		UNIT: 3356 CONTRACT No.: 01-0C4404		UNIT: 3356 CONTRACT No.: 01-0C4404		UNIT: 3356 CONTRACT No.: 01-0C4404	
PROJECT NUMBER & PHASE: 0190000121		PROJECT NUMBER & PHASE: 0190000121		PROJECT NUMBER & PHASE: 0190000121		PROJECT NUMBER & PHASE: 0190000121		PROJECT NUMBER & PHASE: 0190000121		PROJECT NUMBER & PHASE: 0190000121		PROJECT NUMBER & PHASE: 0190000121		PROJECT NUMBER & PHASE: 0190000121		PROJECT NUMBER & PHASE: 0190000121		PROJECT NUMBER & PHASE: 0190000121		PROJECT NUMBER & PHASE: 0190000121	
BRIDGE No. 040001L		BRIDGE No. 040001L		BRIDGE No. 040001L		BRIDGE No. 040001L		BRIDGE No. 040001L		BRIDGE No. 040001L		BRIDGE No. 040001L		BRIDGE No. 040001L		BRIDGE No. 040001L		BRIDGE No. 040001L		BRIDGE No. 040001L	
POST DATE R102.9		POST DATE R102.9		POST DATE R102.9		POST DATE R102.9		POST DATE R102.9		POST DATE R102.9		POST DATE R102.9		POST DATE R102.9		POST DATE R102.9		POST DATE R102.9		POST DATE R102.9	
DISREGARD PRINT'S BEARING EARLIER REVISION DATES		DISREGARD PRINT'S BEARING EARLIER REVISION DATES		DISREGARD PRINT'S BEARING EARLIER REVISION DATES		DISREGARD PRINT'S BEARING EARLIER REVISION DATES		DISREGARD PRINT'S BEARING EARLIER REVISION DATES		DISREGARD PRINT'S BEARING EARLIER REVISION DATES		DISREGARD PRINT'S BEARING EARLIER REVISION DATES		DISREGARD PRINT'S BEARING EARLIER REVISION DATES		DISREGARD PRINT'S BEARING EARLIER REVISION DATES		DISREGARD PRINT'S BEARING EARLIER REVISION DATES		DISREGARD PRINT'S BEARING EARLIER REVISION DATES	
SAFETY ROADSIDE REST AREA		SAFETY ROADSIDE REST AREA		SAFETY ROADSIDE REST AREA		SAFETY ROADSIDE REST AREA		SAFETY ROADSIDE REST AREA		SAFETY ROADSIDE REST AREA		SAFETY ROADSIDE REST AREA		SAFETY ROADSIDE REST AREA		SAFETY ROADSIDE REST AREA		SAFETY ROADSIDE REST AREA		SAFETY ROADSIDE REST AREA	
PULLBOX AND ARC FLASH DETAILS		PULLBOX AND ARC FLASH DETAILS		PULLBOX AND ARC FLASH DETAILS		PULLBOX AND ARC FLASH DETAILS		PULLBOX AND ARC FLASH DETAILS		PULLBOX AND ARC FLASH DETAILS		PULLBOX AND ARC FLASH DETAILS		PULLBOX AND ARC FLASH DETAILS		PULLBOX AND ARC FLASH DETAILS		PULLBOX AND ARC FLASH DETAILS		PULLBOX AND ARC FLASH DETAILS	
REVISION DATES (PRELIMINARY STAGE ONLY)		REVISION DATES (PRELIMINARY STAGE ONLY)		REVISION DATES (PRELIMINARY STAGE ONLY)		REVISION DATES (PRELIMINARY STAGE ONLY)		REVISION DATES (PRELIMINARY STAGE ONLY)		REVISION DATES (PRELIMINARY STAGE ONLY)		REVISION DATES (PRELIMINARY STAGE ONLY)		REVISION DATES (PRELIMINARY STAGE ONLY)		REVISION DATES (PRELIMINARY STAGE ONLY)		REVISION DATES (PRELIMINARY STAGE ONLY)		REVISION DATES (PRELIMINARY STAGE ONLY)	
VI		VI		VI		VI		VI		VI		VI		VI		VI		VI		VI	
SHEET EE-11		SHEET EE-11		SHEET EE-11		SHEET EE-11		SHEET EE-11		SHEET EE-11		SHEET EE-11		SHEET EE-11		SHEET EE-11		SHEET EE-11		SHEET EE-11	



NOTE:
 (E) Utilities are shown in approximate location, verify in field.

APPROVED FOR WATER WORK ONLY

EXISTING SITE PLAN
 1" = 30'-0"

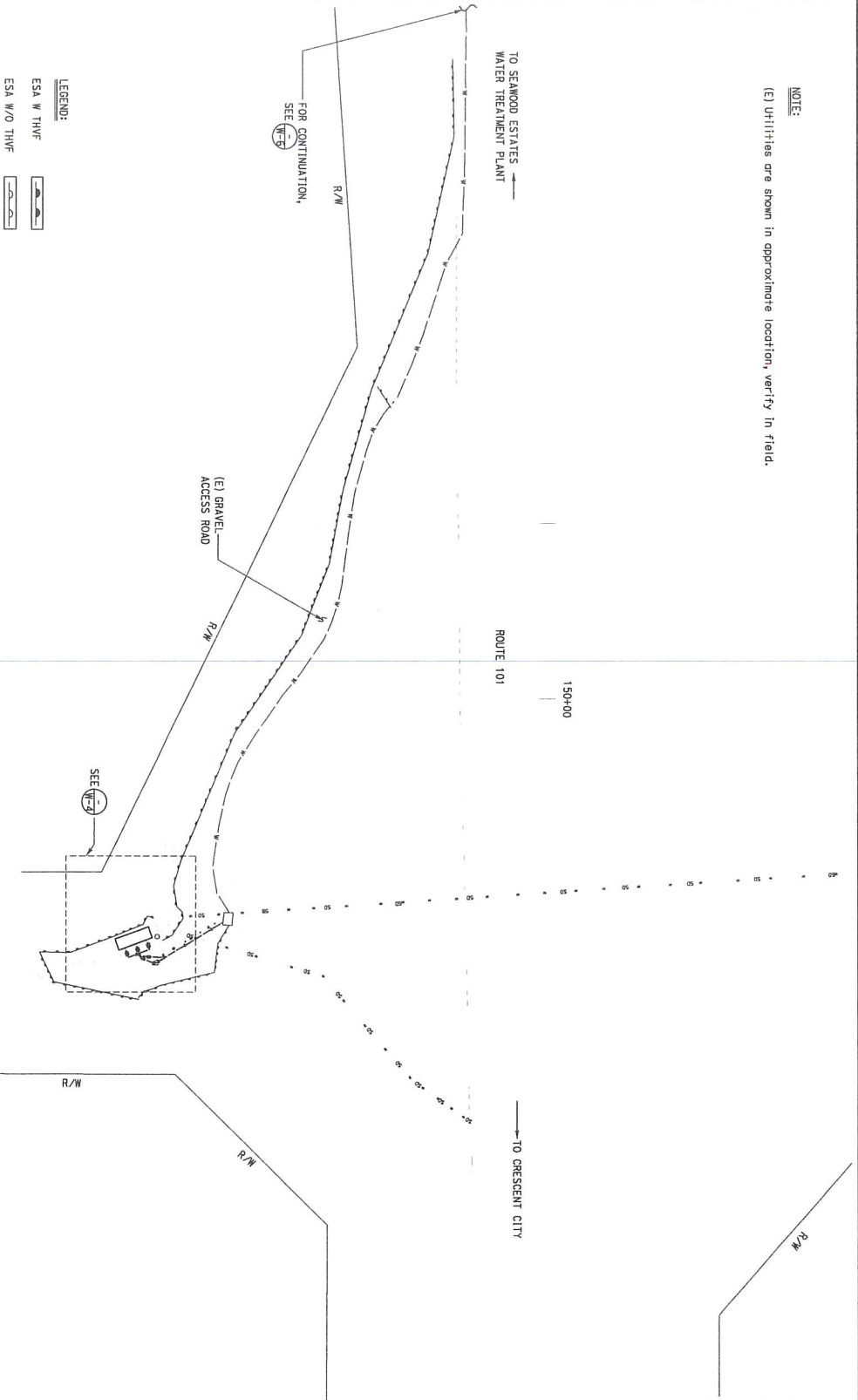


DESIGNER: <i>Kosha S. Shah</i> REGION SUPERVISOR: <i>Kosha S. Shah</i> REGION ENGINEER: <i>Kosha S. Shah</i>		DESIGN: <i>Laura Mahoney</i> DETAILS: <i>Rohit A. Anini</i> QUANTITIES: <i>Laura Mahoney</i>		CHECKED: <i>Andy Quan</i> CHECKED: <i>Andy Quan</i> ORIGINAL SCALE IN INCHES: 0 1 2 3 FOR REDUCED PLANS: 0 1 2 3	
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		BRIDGE NO.: OAHOO 1 L POST MILE: R103.297	
PROJECT NUMBER & PHASE: 01190000121 EARLIER REVISION DATES:		DISCARD PRINTS BEARING:		EXISTING SITE PLAN	
PROJECT NUMBER & PHASE: 01190000121 EARLIER REVISION DATES:		DISCARD PRINTS BEARING:		SHEET: W-1	

TO SEAWOOD ESTATES WATER TREATMENT PLANT
 FOR CONTINUATION, SEE W-5
 ROUTE 101
 150+00
 GRAVEL ACCESS ROAD
 GATE
 R/W
 4" WP
 SEE W-3
 PUMP CONTROL CABINET INSIDE WOODEN SHACK (P#-28330)
 STREAM INTAKE VALVE I, TO REMAIN
 R/W
 TO CRESCENT CITY
 R/W
 SALVAGE WELL PUMP, SEE W-8

Dist	County	Route	Post Miles	SHEET TOTAL
01	HUM	101	R103.39/103.67	NO. SHEETS
PROJECT: 01190000121 EARLIER REVISION DATES:			DATE: 03-18-22	
REGISTERED CIVIL ENGINEER: <i>Kosha S. Shah</i>			REGISTERED PROFESSIONAL ENGINEER: <i>Kosha S. Shah</i> No. C 17884 Exp. 6/30/23	
PLANS APPROVAL DATE:				
The State of California or its officers or agents accept responsibility for the accuracy of the information shown on this plan sheet, notwithstanding any disclaimer or limitation of liability.				

NOTE:
 (E) Utilities are shown in approximate location, verify in field.



MODIFIED SITE PLAN

1" = 30'-0"

APPROVED FOR WATER WORK ONLY

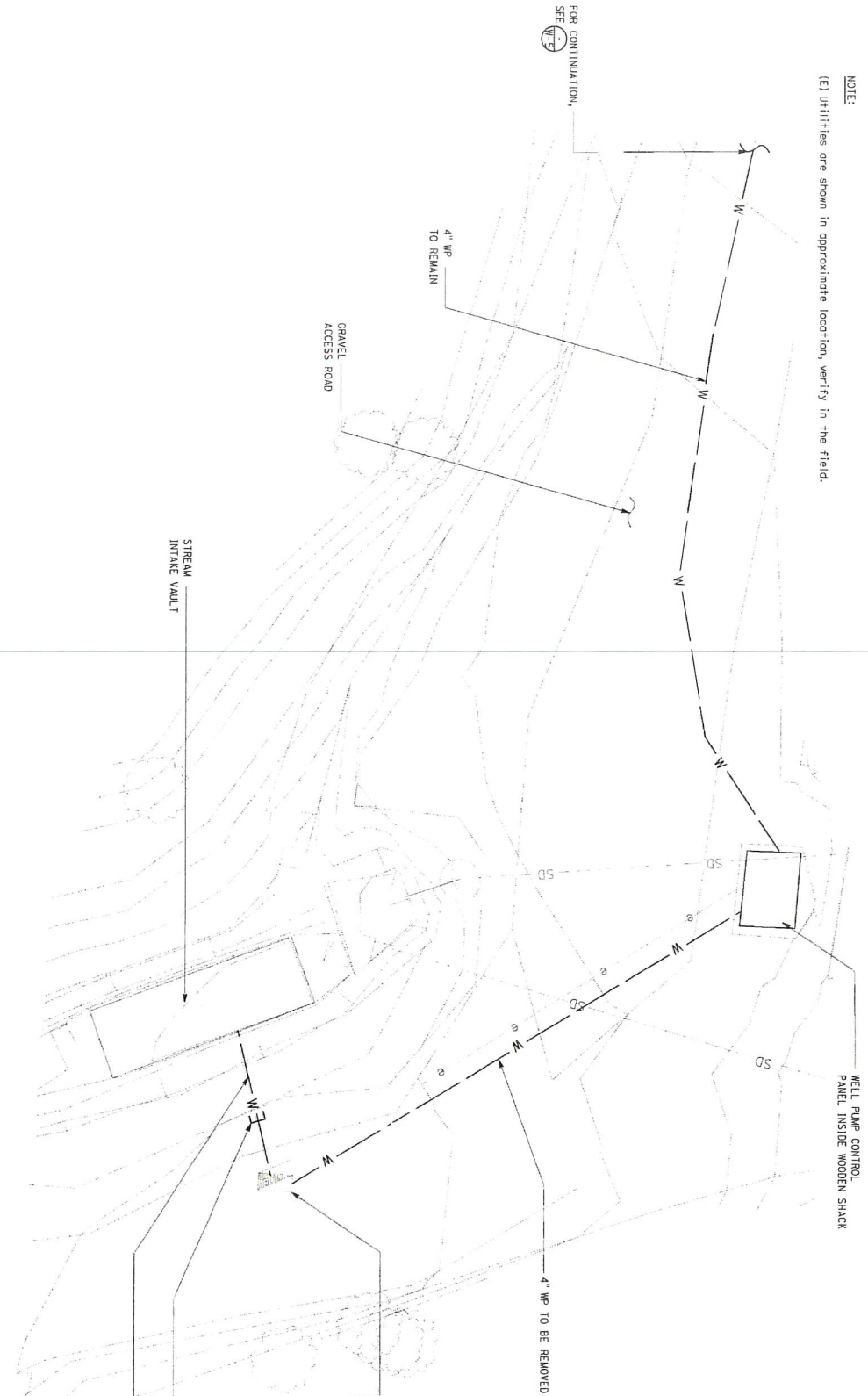
DESIGN	BY	DESIGNED	BY	DATE	PROJECT	NO.	DATE	REVISION	DATE
DETAILS	LAURA MAHONEY	ANDY QUAN	ANDY QUAN	03-18-22	SAUGEE CREEK INTAKE UPGRADE	MODIFIED SITE PLAN	W-2		
QUANTITIES	LAURA MAHONEY	ANDY QUAN	ANDY QUAN						



DATE	COUNTY	ROUTE	POST MILES	TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	HUM	101	R103.39	R103.67	103	103

REGISTERED CIVIL ENGINEER
ANGELA K. SHAW
 No. C 13961
 Exp. 6/30/23
 DATE 03-18-22
 REGISTERED CIVIL ENGINEER
SHANE WILSON
 No. C 13961
 Exp. 6/30/23
 DATE 03-18-22

NOTE:
 (E) Utilities are shown in approximate location, verify in the field.



EXISTING PARTIAL SITE PLAN

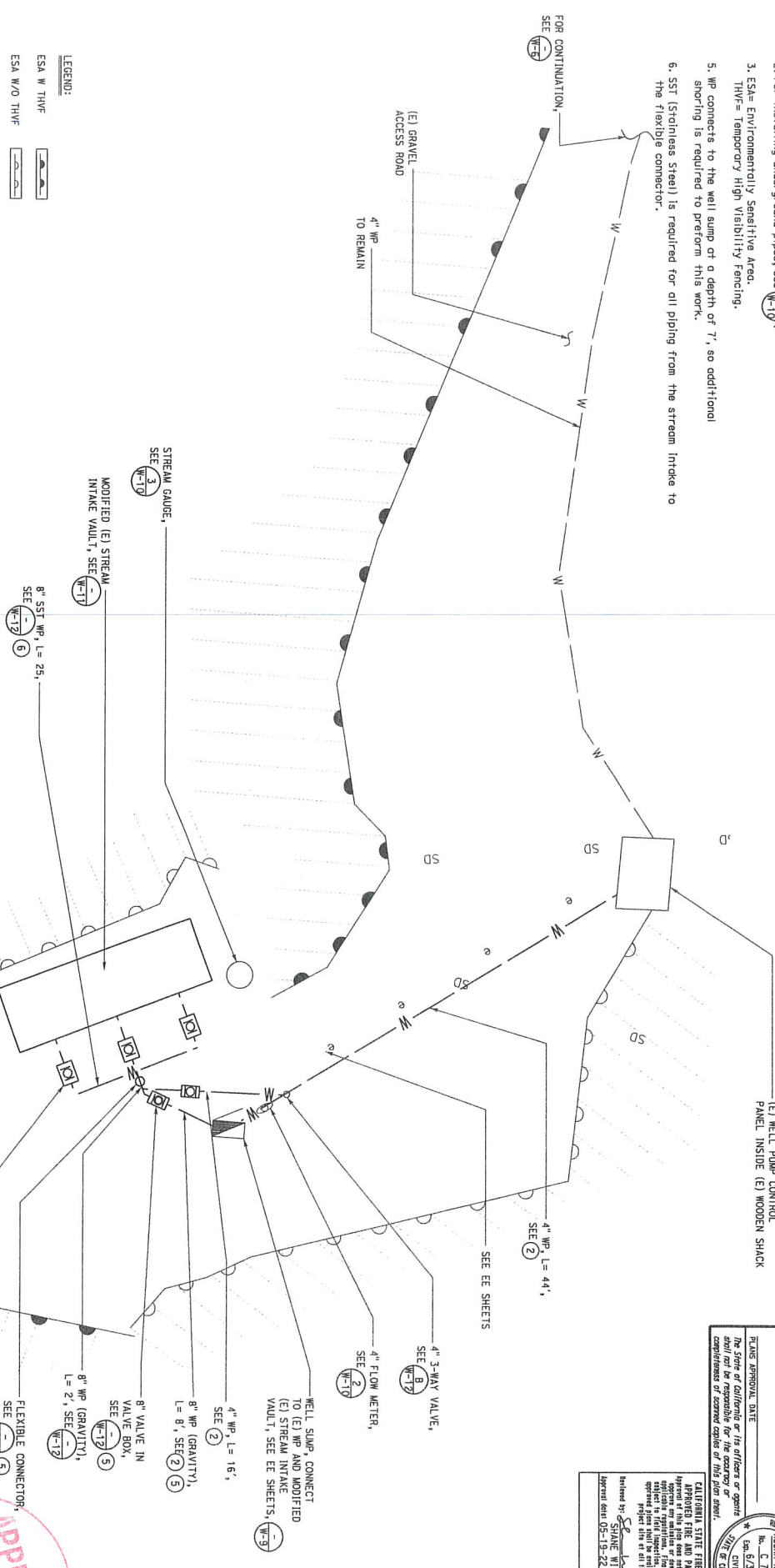
SCALE: 1"=5'-0"



DESIGNER		CHECKED		DIVISION OF ENGINEERING SERVICES		REGISTERED PROFESSIONAL ENGINEER	
LAURA MAHONEY		ANDY QUAN		ELECTRICAL-MECHANICAL-WATER		OSHA, K. SIAH	
DETAILS		ANDY QUAN		WASTEWATER DESIGN		No. C 23862	
QUANTITIES		ANDY QUAN		UNIT: SITE CONTRACT No. 01-03824		DATE 03-18-22	
LAURA MAHONEY		ANDY QUAN		PROJECT NUMBER & PHASE: 0135000121		PLANS APPROVAL DATE 03-18-22	
ORIGINAL SCALE IN INCHES		FOR REVISION PLANS		DISSEMINATION PRINTS BEARING		DATE 03-18-22	
0		1		2		3	
STATE OF CALIFORNIA				SAVAGE CREEK INTAKE UPGRADE			
DEPARTMENT OF TRANSPORTATION				EXISTING PARTIAL SITE PLAN			
SHEET W-3				REVISION DATE (PRELIMINARY STAGE ONLY)			
TLEMM Imperial - CESC Rev. 12/20				DATE			

REGISTERED PROFESSIONAL ENGINEER
 OSHA, K. SIAH
 No. C 23862
 Exp. 6/30/23
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 03-18-22
 REGISTERED CIVIL ENGINEER
 Joseph F. Blak
 DATE 03-18-22
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of amended copies of this plan sheet.

- NOTES:
- (E) Utilities are shown in approximate location, verify in field.
 - For installing underground pipes, see W-10.
 - ESA= Environmentally Sensitive Area.
THW= Temporary High Visibility Fencing.
 - WP connects to the well sump at a depth of 7', so additional shoring is required to perform this work.
 - SST (Stainless Steel) is required for all piping from the stream intake to the flexible connector.



APPROVED FOR WATER WORK ONLY

MODIFIED PARTIAL SITE PLAN

SCALE: 1"=5'-0"

DESIGN	BY	PROJECT	DATE	BRIDGE NO.	SHEET
DETAILS	BY	ANDY QUAN	04/00/11	04R001 L	W-4
QUANTITIES	BY	ANDY QUAN	04/00/11	04R001 L	W-4
	BY	ANDY QUAN	04/00/11	04R001 L	W-4

DESIGN: **LAURA MAHONEY**
 BY: **KOLETTA ANNI**
 PROJECT: **ANDY QUAN**
 DATE: **04/00/11**
 BRIDGE NO.: **04R001 L**
 SHEET: **W-4**

DESIGN: **LAURA MAHONEY**
 BY: **KOLETTA ANNI**
 PROJECT: **ANDY QUAN**
 DATE: **04/00/11**
 BRIDGE NO.: **04R001 L**
 SHEET: **W-4**

DESIGN: **LAURA MAHONEY**
 BY: **KOLETTA ANNI**
 PROJECT: **ANDY QUAN**
 DATE: **04/00/11**
 BRIDGE NO.: **04R001 L**
 SHEET: **W-4**

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER
 AND WASTEWATER DESIGN
 UNIT: 3616 CONTRACT NO: 01-03604
 PROJECT NUMBER & PHASE: 0190000121 EARLIER REVISION DATES
 ORIGINAL SCALE IN INCHES: 0 1 2 3
 FOR REVISED PLANS: 0 1 2 3

POST MILES SHEET TOTAL
 01 HLM 101 R103.39/RT103.67

REGISTERED PROFESSIONAL ENGINEER
 OSMA K. SIMA
 No. C 13842
 Exp. 6/30/23
 CIVIL
 DATE: 03-19-22

PLANS APPROVAL DATE: 03-19-22

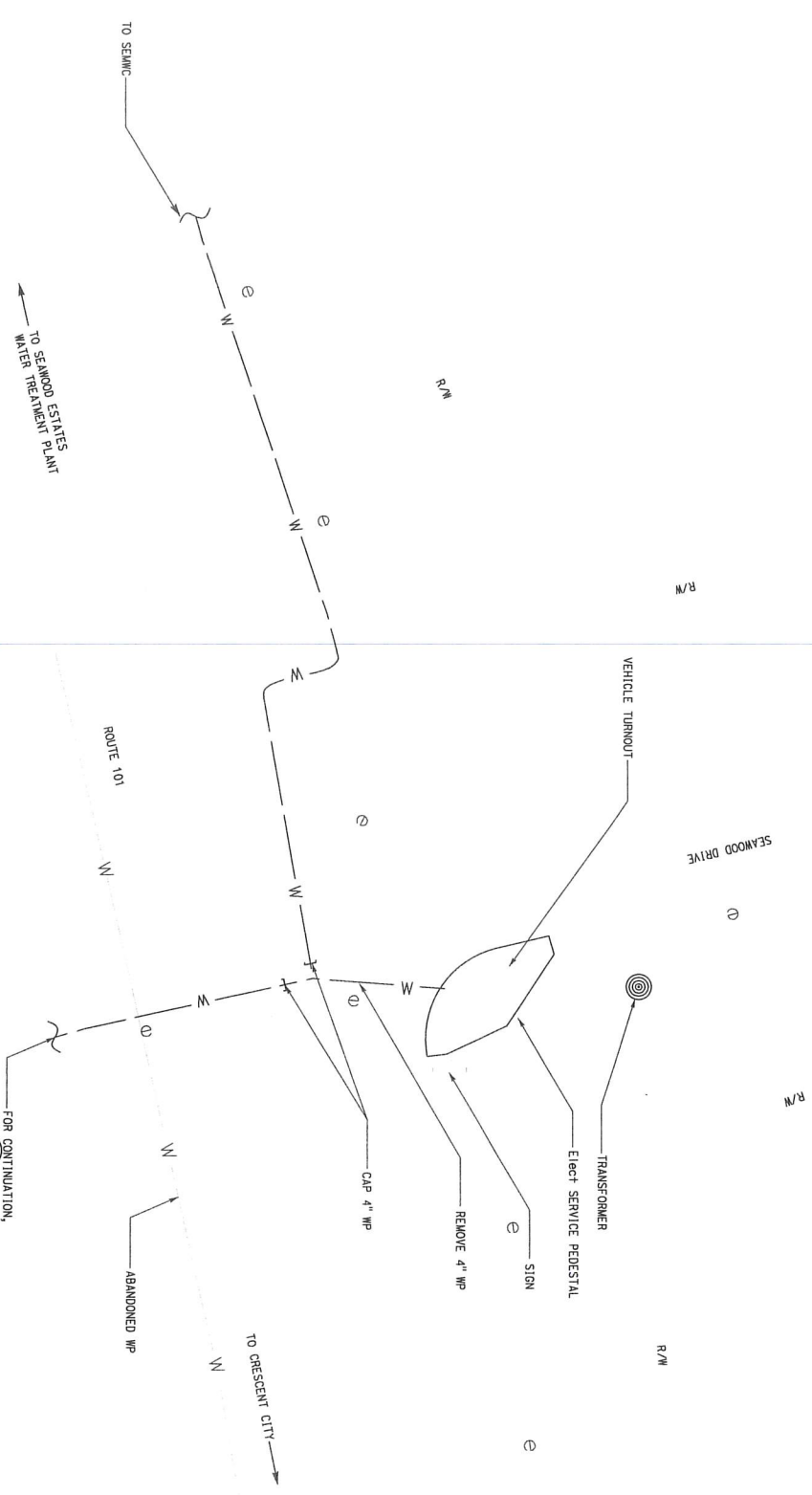
The State of California or its officers or agents shall not be held responsible for the accuracy or completeness of record copies of this plan sheet.

CALIFORNIA STATE FIRE MARSHAL
 Approval of this plan does not constitute an endorsement of the project or the engineer's qualifications. Field approval is required for all construction. See the approved project site at all times.

Reviewed by: SHANE WILSON
 Approval date: 03-19-22



- NOTES:
- (E) Utilities are shown in approximate location, verify in field.
 - SEWMC = Sewwood Estates Mutual Water Co.



APPROVED FOR WATER WORK ONLY

EXISTING PARTIAL SITE PLAN

1" = 10'-0"

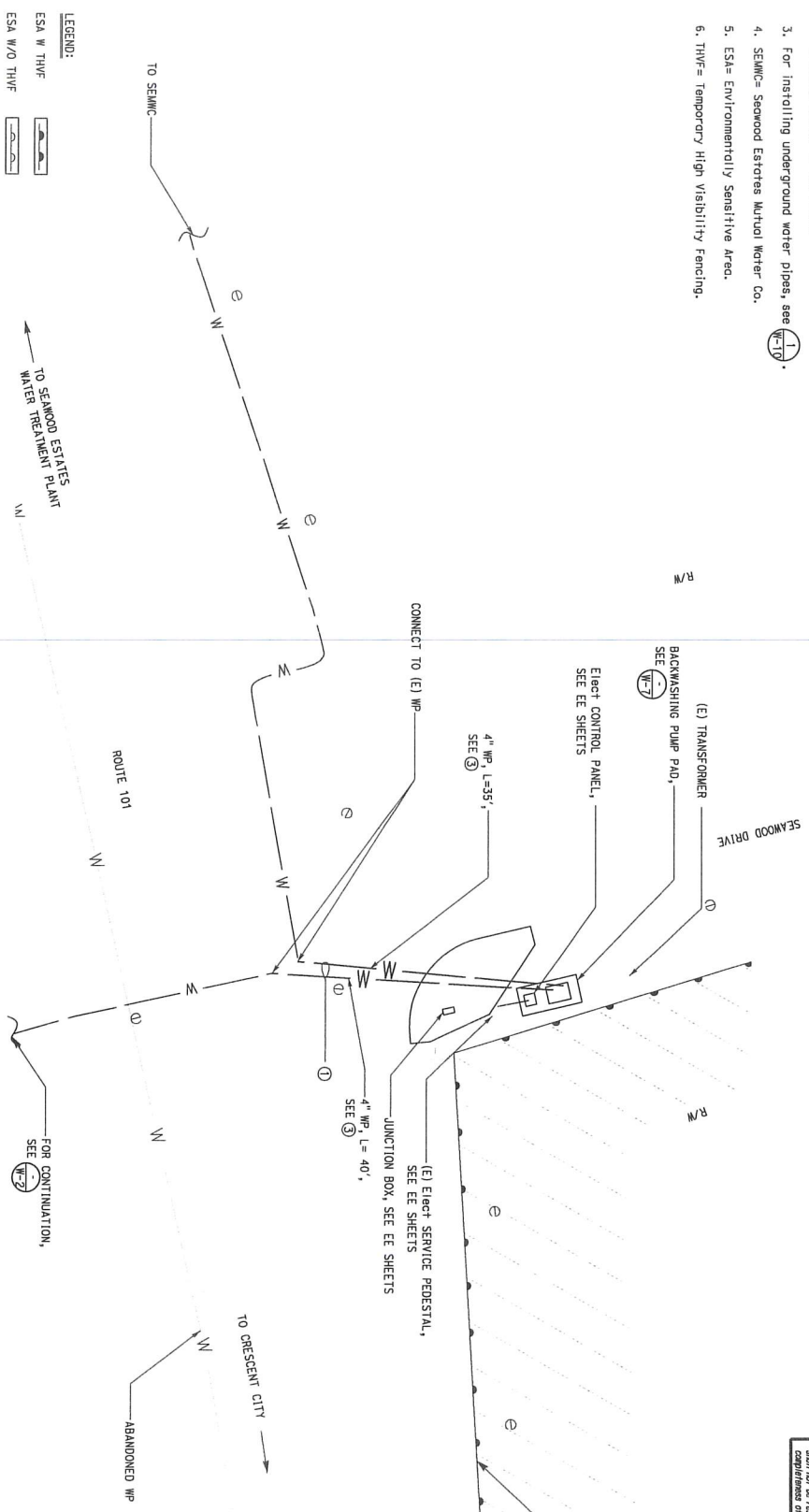
DESIGN	BY	DATE	DESIGN	BY	DATE
DETAILS	MR. LAURA MAHONEY		ORIGINAL	ANDY QUAN	
QUANTITIES	MR. KOREILA AMINI		FOR REVISED PLANS	ANDY QUAN	
	MR. LAURA MAHONEY		0	1	2

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTE WATER DESIGN
 UNIT: 3616 CONTRACT No.: 01-03564
 PROJECT NUMBER & PHASE: 01190000121 EARLIER REVISION DATES
 REVISION DATES (PRELIMINARY STAGE ONLY)
 SHEET NO. W-5



REGISTERED PROFESSIONAL ENGINEER
 JESSIE K. SHAW
 No. C 13864
 Exp. 6/30/23
 REGISTERED CIVIL ENGINEER
 K. Shale P.E.
 R103.39/R103.57
 03-18-22
 DATE

- NOTES:
1. Pipes above common trench.
 2. (E) Utilities are in approximate location, verify in the field.
 3. For installing underground water pipes, see W-1.
 4. SEMWC= Seawood Estates Mutual Water Co.
 5. ESA= Environmentally Sensitive Area.
 6. THWF= Temporary High Visibility Fencing.



APPROVED FOR WATER WORK ONLY

MODIFIED PARTIAL SITE PLAN

1" = 10'-0"



DESIGN	BY	DRAWN	CHECKED	DATE	PROJECT NO.	SHEET NO.
DETAILS	LAURA MAHONEY	ANDY QUAN	ANDY QUAN	03-18-22	048001 L	W-6
QUANTITIES	LAURA MAHONEY	ANDY QUAN	ANDY QUAN			

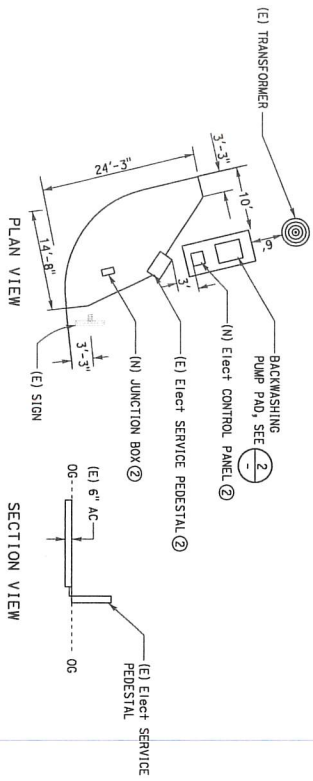
STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.
DEPARTMENT OF TRANSPORTATION	ELECTRICAL-MECHANICAL-WATER	048001 L
	WASTEWATER DESIGN	POST MILE
		R103.39
ORIGINAL SCALE IN INCHES	FOR REVISED PLANS	DISBURSED PRINTS BEARING
0	1	2
3		

DATE	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	HUMB	101	R103.39/R103.67		

REGISTERED CIVIL ENGINEER	DATE
KOSHA K. SHUKLA	03-18-22

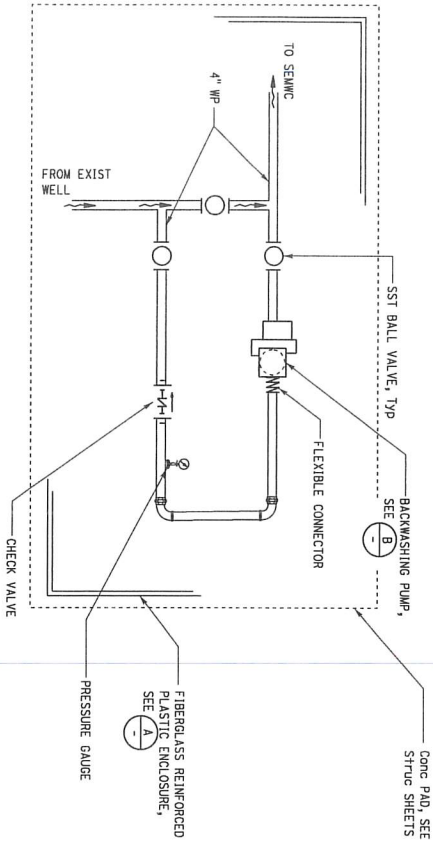
REGISTERED CIVIL ENGINEER	NO.
KOSHA K. SHUKLA	C 13864

- NOTES:
1. SEMWC = Seawood Electric Mutual Water Co.
 2. SEE EE sheets.

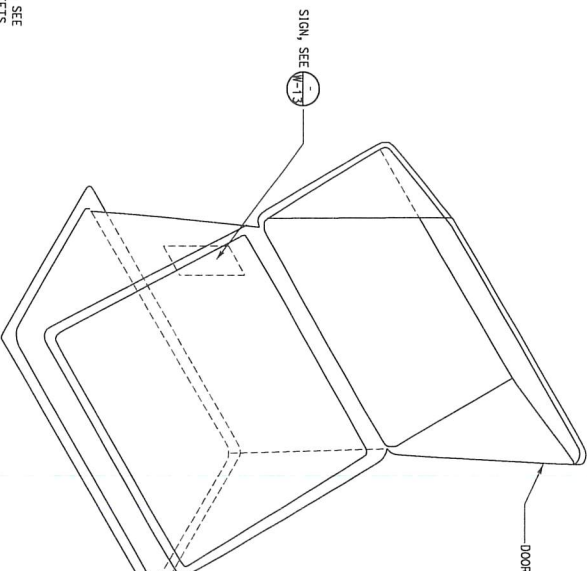


NOTE:
Layout of vehicle turnout as shown on plans or as determined by the engineer.

1 VEHICLE TURNOUT
NO SCALE



2 EXISTING PULL BOX
NO SCALE



A FIBERGLASS REINFORCED PLASTIC ENCLOSURE
NO SCALE

NOTE:
Nominal dimensions L x W x H of the enclosure to be approximately 45" x 35" x 35".

EQUIPMENT SCHEDULE

EQUIPMENT	SPEED (RPM)	HP	VOLTS	PHASE	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (FT)
BACKWASHING PUMP	3450	5	230	1	250 220 200	30 40 45

B BACKWASHING PUMP
NO SCALE

APPROVED FOR WATER WORK ONLY

DESIGN BY LAURA MAHONEY	DESIGNED BY ANDY QUAN	DATE 04/07/21	PROJECT SAVAGE CREEK INTAKE UPGRADE
DETAILS BY KORRELA ANNU	CHECKED BY ANDY QUAN	DATE 04/07/21	PROJECT BACKWASHING PUMP PAD
QUANTITIES BY LAURA MAHONEY	DESIGNED BY ANDY QUAN	DATE 04/07/21	PROJECT BACKWASHING PUMP PAD

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER
WASTEWATER DESIGN

REGISTERED PROFESSIONAL ENGINEER
KOSHA K. SHARMA
No. C 13864
Exp. 6/30/23

PLANS APPROVAL DATE: 05-18-22

POST MILE: 101
ROUTE: R103.39/103.67
COUNTY: Humboldt

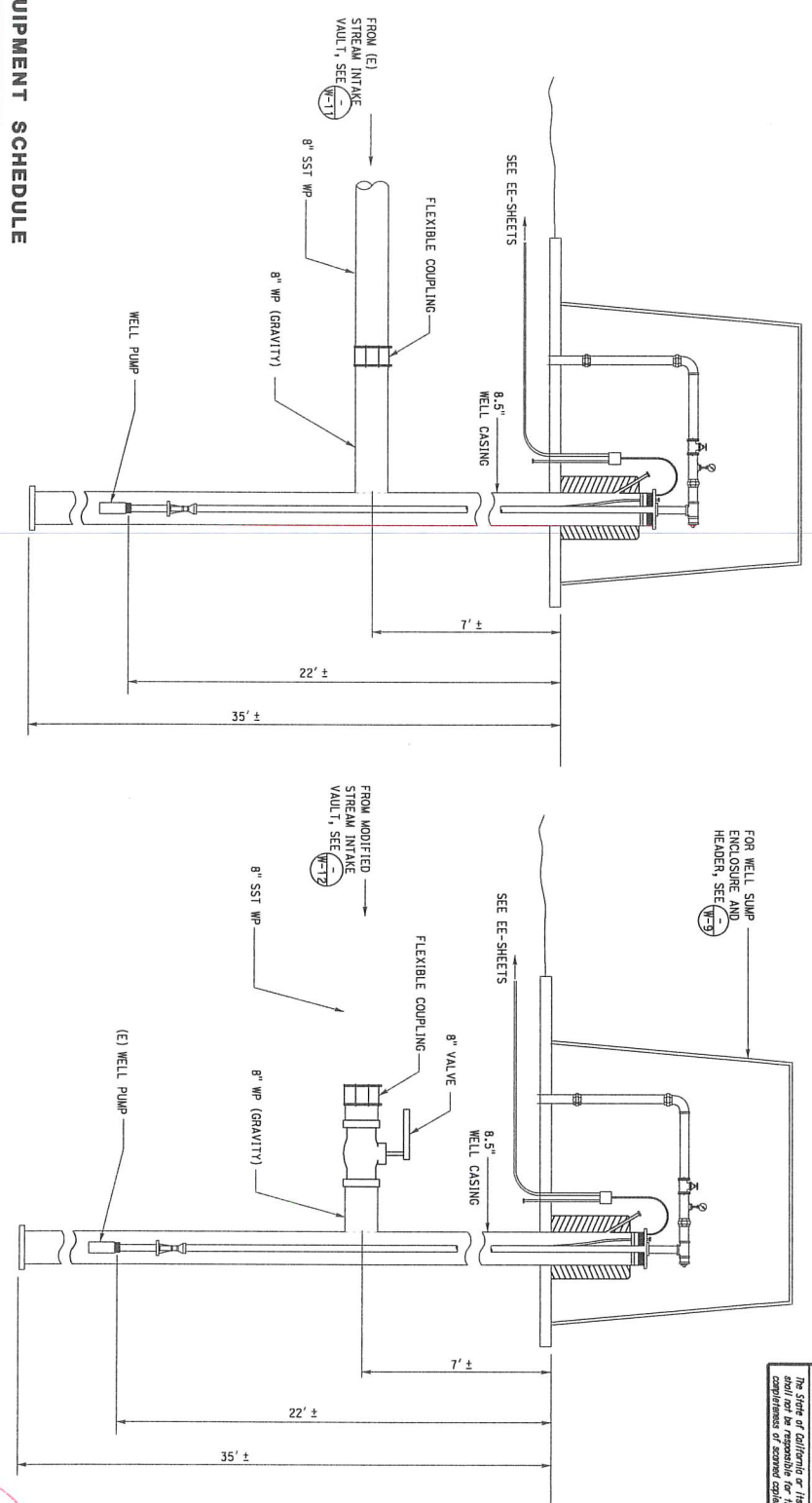
REVISION DATES (PRELIMINARY STAGE ONLY)

REVISION SHEET NO. W-1



Sheet	COUNTY	ROUTE	POST MILES	SHEET TOTAL
01	HUM	101	R103.39/R103.67	101

REGISTERED PROFESSIONAL ENGINEER
 KOSHA K. SHUKLA
 No. C 13864
 Exp. 6/30/23
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 REGISTERED CIVIL ENGINEER
 Koshka K. Shukla
 03-18-22
 DATE
 The State of California or its officers or agents
 do not warrant the accuracy or completeness of
 this plan sheet.



(E) EQUIPMENT SCHEDULE

EQUIPMENT	SPEED (RPM)	HP	VOLTS	PHASE	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (FT)
(E)WELL PUMP	3450	1/2	230	1	63	240
					33	125
					22	85

EXISTING WELL SUMP
 NO SCALE

MODIFIED WELL SUMP
 NO SCALE

APPROVED FOR WATER WORK ONLY



DESIGN	BY LAURA MAHONEY	CHECKED	ANDY QUAN
DETAILS	BY ROSELYA ANINI	CHECKED	ANDY QUAN
QUANTITIES	BY LAURA MAHONEY	CHECKED	ANDY QUAN

ORIGINAL SCALE IN INCHES 0 1 2 3
 FOR REDUCED PLANS

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER
 AND WASTEWATER DESIGN

BRIDGE No. 04R001 L
 POST MILE R103.39

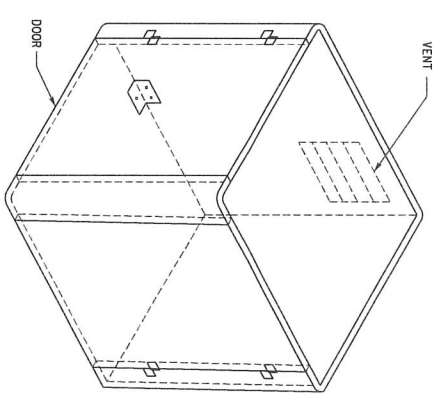
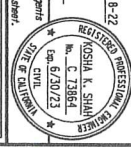
SAVAGE CREEK INTAKE UPGRADE
 WELL SUMP

SHEET W-8

UNIT: 3618 CONTRACT No.: 01-03604
 PROJECT NUMBER & PHASE: 01190000121 EARLIER REVISION DATES
 DISCARD PRINTS BEARING THIS MARKING
 REVISION DATES (PRELIMINARY STATE ONLY)
 REVISION DATES (FINAL STATE ONLY)
 REVISION DATES (FINAL STATE ONLY)
 REVISION DATES (FINAL STATE ONLY)

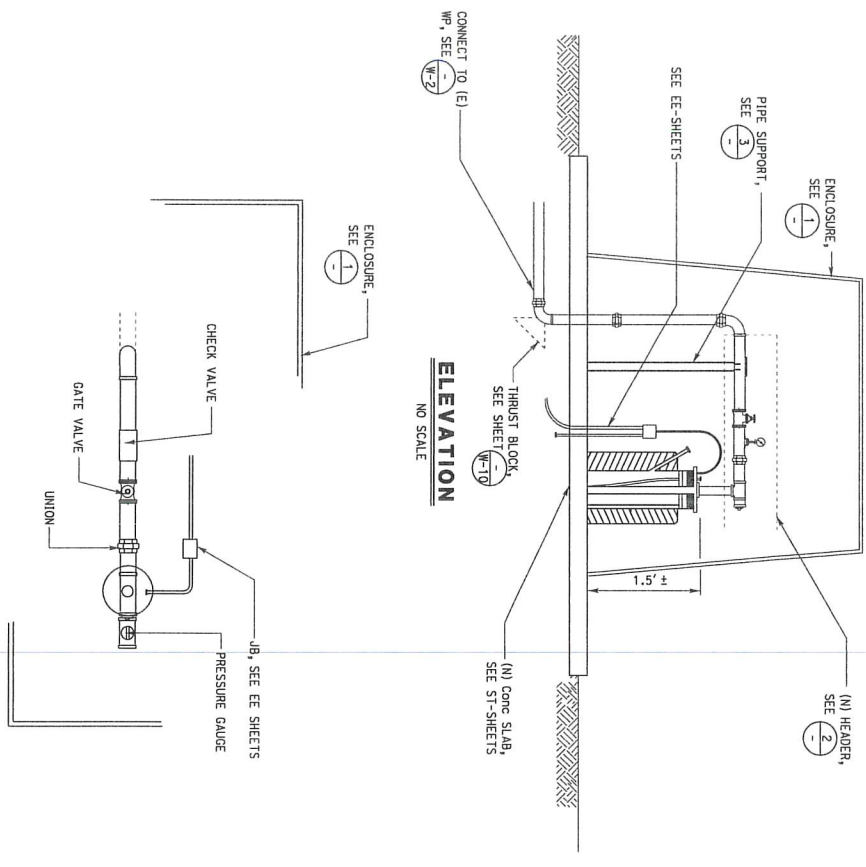
Dist	COUNTY	ROUTE	POST MILES	SHEET TOTAL
01	HUM	101	R103.39/R103.67	NO. SHEETS
			TOTAL PROJECT	NO. SHEETS
			03-18-22	

REGISTERED PROFESSIONAL ENGINEER
JOSHUA K. SHAN
 No. C-13861
 Exp. 6/30/23
 REGISTERED CIVIL ENGINEER
 DATE



1 FIBERGLASS REINFORCED PLASTIC ENCLOSURE
 NO SCALE

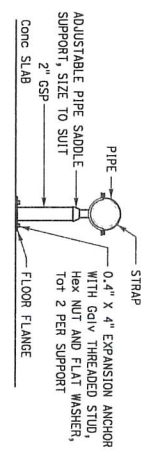
NOTE:
 Nominal dimensions W x L x H of the enclosure to be approximately 5' x 5' x 5'.
 Top cover is removable.



2 HEADER PLAN VIEW
 NO SCALE

NOTES:
 1. Pipe and equipment skewed for clarity, see plan view for pipe orientation.
 2. All above-ground pipes containing water must be wrapped with pipe insulation.

APPROVED FOR WATER WORK ONLY

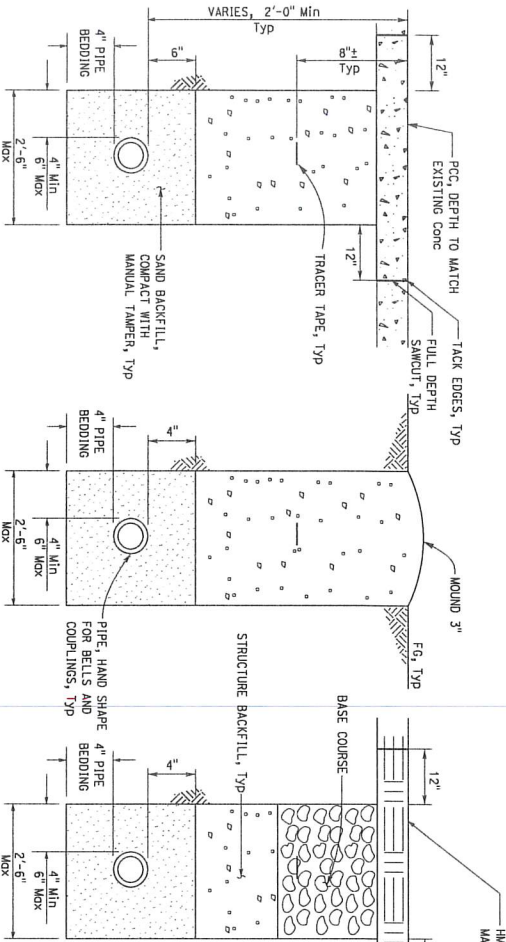


3 PIPE SUPPORT
 NO SCALE

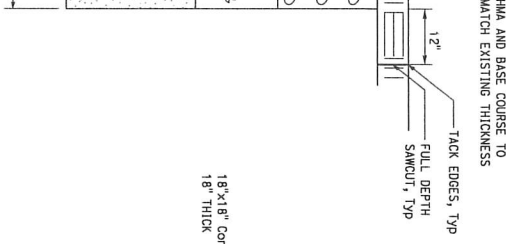
NOTES:
 1. Pipe support total height to be 15" or as needed.
 2. Pipe support to be painted with anti-corrosion paint.



DESIGN BY LAURA MAHONEY		CHECKED ANDY QUAN		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	SAVAGE CREEK INTAKE UPGRADE	SHEET
DETAILS BY KOEYL A. AMINI		CHECKED ANDY QUAN				PROJECT NO.	PROJECT NUMBER & PHASE: 01190000121 EARLIER REVISION DATES	WELL SUMP ENCLOSURE
QUANTITIES BY LAURA MAHONEY		CHECKED ANDY QUAN		ORIGINAL SCALE IN INCHES	PROJECT NO. 01190000121	DATE	REVISION DATES (PRELIMINARY STAGE ONLY)	REVISION SHEET OF
				FOR REDUCED PLANS	PROJECT NO. 01190000121	DATE	REVISION DATES (PRELIMINARY STAGE ONLY)	REVISION SHEET OF
				0	PROJECT NO. 01190000121	DATE	REVISION DATES (PRELIMINARY STAGE ONLY)	REVISION SHEET OF
				1	PROJECT NO. 01190000121	DATE	REVISION DATES (PRELIMINARY STAGE ONLY)	REVISION SHEET OF
				2	PROJECT NO. 01190000121	DATE	REVISION DATES (PRELIMINARY STAGE ONLY)	REVISION SHEET OF
				3	PROJECT NO. 01190000121	DATE	REVISION DATES (PRELIMINARY STAGE ONLY)	REVISION SHEET OF

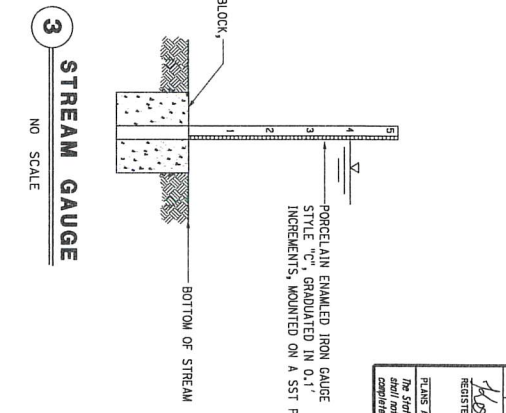


1 UNDERGROUND WATER PIPE
NO SCALE

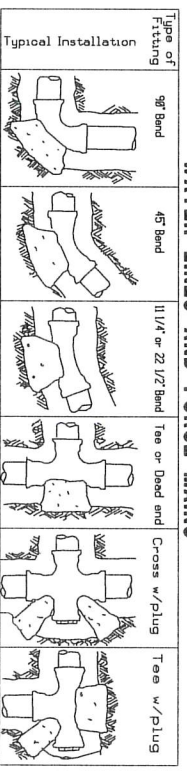


2 FLOW METER
NO SCALE

- NOTES:**
1. Min 9" clearance on all sides.
 2. Install the flow meter with at least a distance of 30" straight pipe upstream and 15' downstream from elbows, tees, crosses, valves, and other fittings.
 3. SEMWC= Seawood Estrotes Mutual Water Co.



3 STREAM GAUGE
NO SCALE



THRUST BLOCK BEARING AREA (SQ. FT.)

Type of Fitting	90° Bend	45° Bend	11 1/4" or 22 1/2" Bend	Tea or Dead end	Tea w/ Plug	Cross w/ plug	Tea w/ Plug
1"	0.5	0.3	0.3	0.5	0.5	0.7	0.5
1 1/2"	0.7	0.4	0.4	0.7	0.7	0.7	0.7
2"	1.5	0.7	0.7	1.5	1.5	2	1.5
3"	3	1	1	2	2	2	2
4"	3	1	1	2	2	2	2

4 THRUST BLOCK
NO SCALE



APPROVED FOR WATER WORK ONLY

DESIGN	BY LAURA MAHONEY	CHECKED	ANDY QUAN
DETAILS	BY KOREYLA AMINI	CHECKED	ANDY QUAN
QUANTITIES	BY LAURA MAHONEY	CHECKED	ANDY QUAN

ORIGINAL SCALE IN INCHES 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER
WATER/WATER DESIGN

UNIT: 3616 CONTRACT No.: 01-03604
PROJECT NUMBER & PHASE: 01190000121

BRIDGE No. 048001 L
POST MILE 103.397

SAVAGE CREEK INTAKE UPGRADE

REVISION DATES: (PRELIMINARY STAGE ONLY)
03/18/22
03/18/22

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 03-18-22

REGISTERED PROFESSIONAL ENGINEER
No. C 13854
Exp. 6/30/23

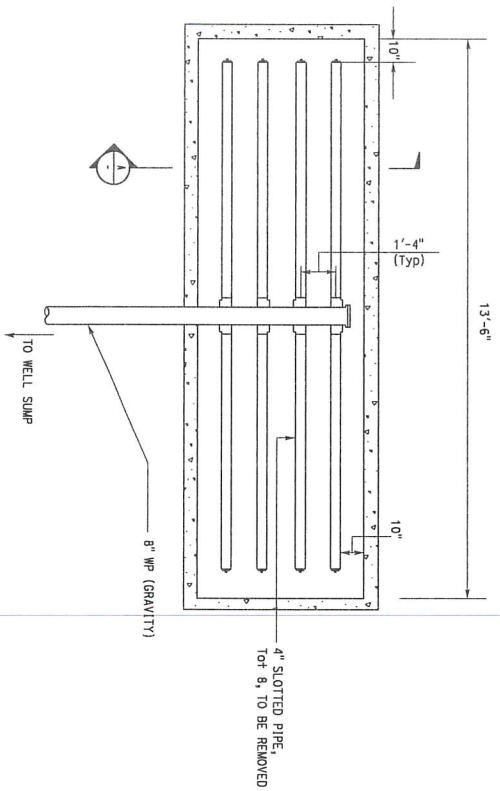
POST MILE EST. TOTAL PROJECT: 101 R103.397/103.67

SHEET NO. W-10

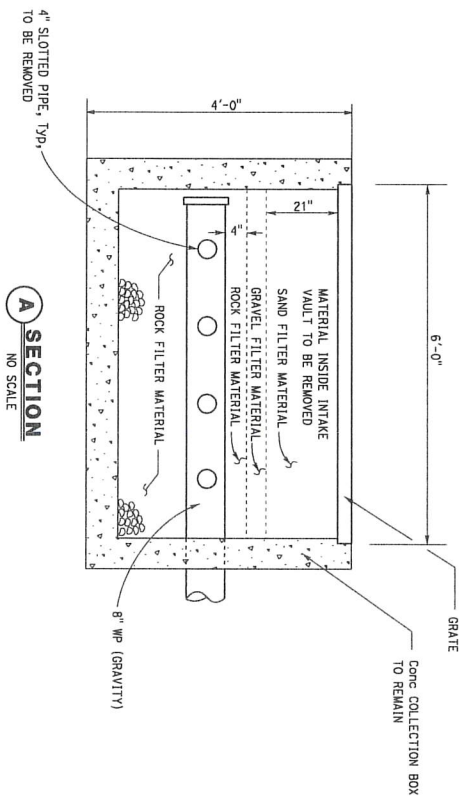
DATE: 03-18-22

PROJECT: SAVAGE CREEK INTAKE UPGRADE

NOTE:
Verify grate dimensions in the field.



EXISTING STREAM INTAKE VAULT
NO SCALE



A SECTION
NO SCALE

APPROVED FOR WATER WORK ONLY

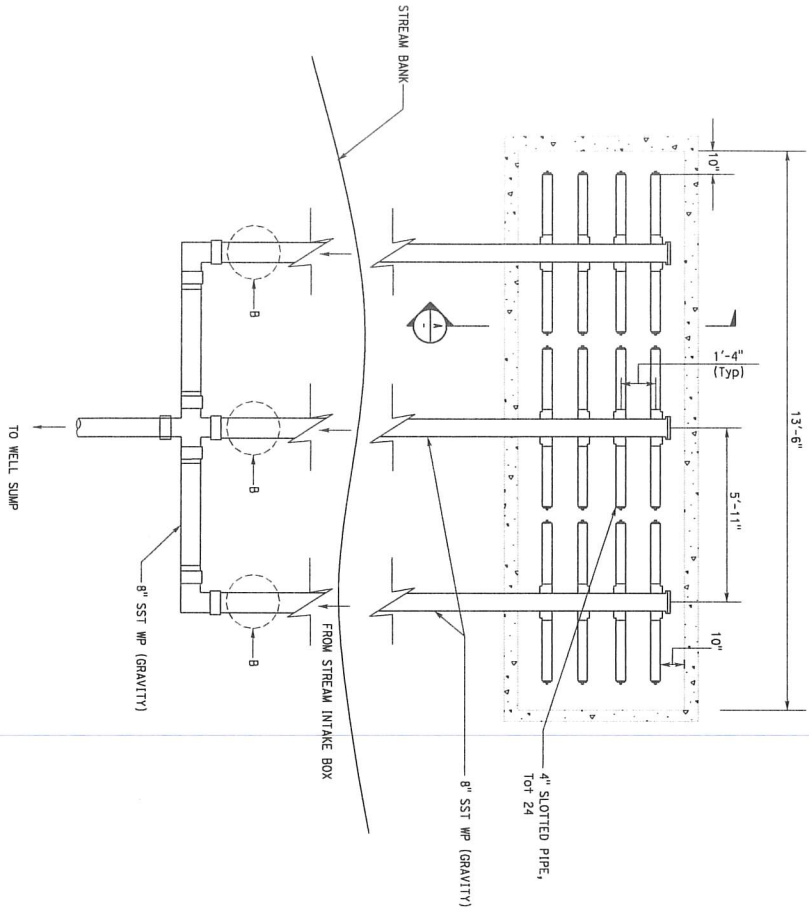
DESIGNER	BY	CHECKED	DATE
Laura Mahoney	Laura Mahoney	Andy Quan	
DETAILS	BY	CHECKED	DATE
Laura Mahoney	Koreyla Amiri	Andy Quan	
QUANTITIES	BY	CHECKED	DATE
Laura Mahoney	Laura Mahoney	Andy Quan	
ORIGINAL SCALE IN INCHES			
FOR REDUCED PLANS			
0	1	2	3
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION			
DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		DESIGNED BY: O'DROO L R153187	POSTED DATE: R153187
UNIT: 3616 CONTRACT No.: 01-03604 PROJECT NUMBER & PHASE: 0119000121 EARLIER REVISION DATES		DISPATCH PRINTS BEARING REVISION DATES (PRELIMINARY STAGE ONLY)	
SAVAGE CREEK INTAKE UPGRADE		EXISTING STREAM INTAKE VAULT	
SHEET W-11		REVISION SHEET OF	



Dist	COUNTY	ROUTE	POST MILES	SHEET TOTAL
01	HUM	101	R103.39/R103.67	NO. OF SHEETS
			03-18-22	DATE
REGISTERED CIVIL ENGINEER			REGISTERED PROFESSIONAL ENGINEER	
Koreyla A. Amiri			JESSICA K. SHIM	
No. C 13884			No. C 13884	
Exp. 6/30/23			Exp. 6/30/23	

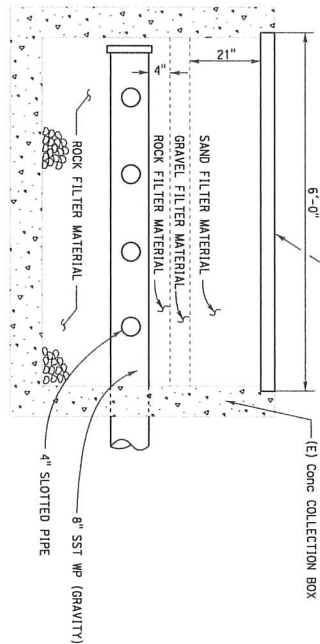
By State of California - His office or agent shall not be responsible for the accuracy or compliance of scanned copies of this plan sheet.

NOTE:
 (N) Grate length and width must match (E) grate dimensions.
 Verify (E) grate dimensions in the field.

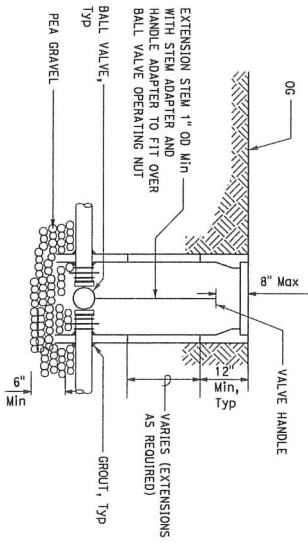


MODIFIED STREAM INTAKE VAULT
 NO SCALE

APPROVED FOR WATER WORK ONLY



A SECTION
 NO SCALE



B SECTION
 NO SCALE

DESIGN	BY	CHECKED	DATE	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE No.	SAVAGE CREEK INTAKE UPGRADE	SHEET
DETAILS	LAURA MAHONEY	ANDY QUAN		DEPARTMENT OF TRANSPORTATION	ELECTRICAL-MECHANICAL-WATER	CHORD 1	MODIFIED STREAM INTAKE VAULT	W-12
QUANTITIES	LAURA MAHONEY	ANDY QUAN			WASTEWATER DESIGN	POST TITLE		
						REVISION DATES (PRELIMINARY STAGE ONLY)		
						REVISION DATES (FINAL STAGE ONLY)		
						REVISION DATES (FINAL STAGE ONLY)		



PLANS APPROVAL DATE: 03-18-22
 REGISTERED CIVIL ENGINEER: ROSA K. SIMA
 No. C 13954
 Exp. 6/30/23
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REGISTERED PROFESSIONAL ENGINEER
 ROSA K. SIMA
 No. C 13954
 Exp. 6/30/23

PLANS APPROVAL DATE: 03-18-22
 REGISTERED CIVIL ENGINEER: ROSA K. SIMA
 No. C 13954
 Exp. 6/30/23

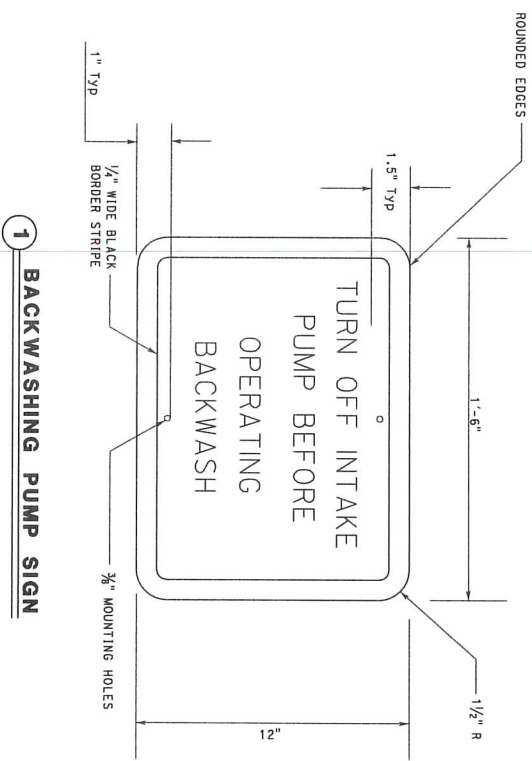
Dist	COUNTY	ROUTE	POST MILEAGE	SHEET TOTAL
01	HUM	101	R103.39/R103.67	NO. SHEETS

DATE	COUNTY	PROJECT	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	HUM	101	R103.39/R103.67		

REGISTERED PROFESSIONAL ENGINEER	DATE
<i>Kosha K. Singh</i>	03-18-22
REGISTERED CIVIL ENGINEER	
KOSHA K. SINGH	
No. C. 13864	
Exp. 6/30/23	
STATE OF CALIFORNIA	

PLANS APPROVAL DATE: 03-18-22

The State of California or its officers or agents do not warrant the accuracy or completeness of the information shown on this plan sheet.



- NOTES:**
- All tactile characters must be black on white background.
 - All tactile characters must be uppercase sans serif raised $\frac{1}{8}$ " minimum, with a width to height ratio between 3:5 and 1:1 and a stroke width to height ratio between 1:5 and 1:10.

APPROVED FOR WATER WORK ONLY

DESIGN BY	LADRA MAHONEY	CHECKED BY	ANDY QIAN
DETAILS BY	KORAYLA AMINI	CHECKED BY	ANDY QIAN
QUANTITIES BY	LADRA MAHONEY	CHECKED BY	ANDY QIAN

DESIGN BY	LADRA MAHONEY	CHECKED BY	ANDY QIAN
DETAILS BY	KORAYLA AMINI	CHECKED BY	ANDY QIAN
QUANTITIES BY	LADRA MAHONEY	CHECKED BY	ANDY QIAN

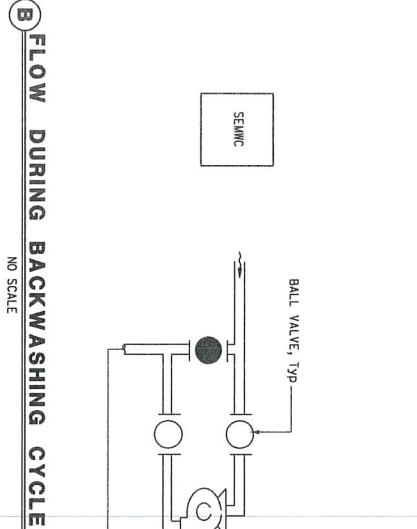
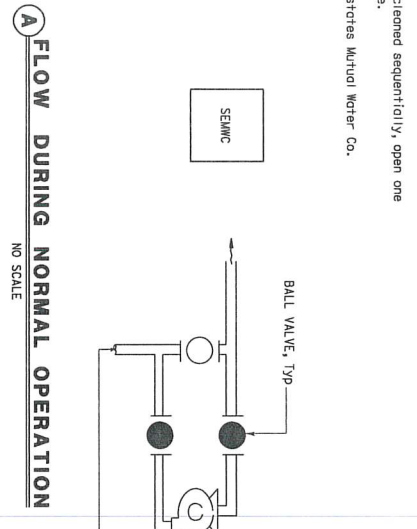
ORIGINAL SCALE IN INCHES	0	1	2	3
FOR REDUCED PLANS				

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES
DEPARTMENT OF TRANSPORTATION	ELECTRICAL-MECHANICAL-WATER
	AND
	WASTEWATER DESIGN
UNIT: 3616 CONTRACT NO.: 01-013604	PROJECT NUMBER & PHASE: 019000012
BRIDGE NO.	
POST MILE	
DISPERSED PRINTS BEARING	
EARLIER REVISION DATES	
REVISION DATES (PRELIMINARY STAGE ONLY)	
REVISION DATES (WORKING DRAWINGS)	
REVISION DATES (CONTRACT ADMINISTRATION)	

SAVAGE CREEK INTAKE UPGRADE	SHEET
SIGN	W-13



- NOTES:
- Regions must be cleaned sequentially, open one per cleaning cycle.
 - SEMIC= Seawood Estroves Mutual Water Co.



INTERCONNECTION DIAGRAM
NO SCALE

- LEGENDS:
- VALVE CLOSED
 - VALVE OPEN

APPROVED FOR WATER WORK ONLY

Dist	COUNTY	ROUTE	POST MILEAGE	SHEET TOTAL
01	HUM	101	R103.39/R103.67	NO. SHEETS
<i>Kosha K. Sina</i> REGISTERED CIVIL ENGINEER DATE 03-18-22 No. C-73864 Exp. 6/30/23 STATE OF CALIFORNIA DIVISION OF ENGINEERING				
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.				



DESIGN	BY LAURA MAHONEY	CHECKED	ANDY OLIAN	DATE	03/18/22
DETAILS	BY KOLECYLA AMINI	CHECKED	ANDY OLIAN	DATE	
QUANTITIES	BY LAURA MAHONEY	CHECKED	ANDY OLIAN	DATE	
ORIGINAL SCALE IN INCHES 0 1 2 3					
FOR REDUCED PLANS					
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION					
DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER WASTEWATER DESIGN					
UNIT: 3/16 CONTRACT No. 01-03504 PROJECT NUMBER & PHASE: 0159000121 DRAWING: 0159000121-Sewage Creek Interconnection Diagram.dgn					
SAVAGE CREEK INTAKE UPGRADE INTERCONNECTION DIAGRAM					
SHEET W-14					