

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

Resolution Number 24-058

Record Number: PLN-2023-18152

Assessor Parcel Numbers: 513-181-014, 514-012-013, 514-015-007, 514-112-014, 514-113-006, 514-132-007, 514-132-008, 514-133-001, 514-211-034, 514-211-035, 514-221-008, 515-011-023, 515-011-063, 515-011-073, 515-041-014, 515-041-020, 515-121-018

County Right-of-Ways: Westhaven Drive (County Road No.C4N030), Sixth Avenue (C4N050), Kay Avenue (4N060), Kahlstrom Avenue (C4N070), Driver Road (4N020), South Westhaven Drive (C4N030)

Makes the required findings for certifying compliance with the California Environmental Quality Act and conditionally approves Westhaven Community Services District's Coastal Development Permit.

WHEREAS, Westhaven Community Services District submitted an application and evidence in support of approving Coastal Development Permit and Conditional Use Permit No. PLN-2023-18152; 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 Planning Division has considered the Mitigated Negative Declaration prepared by the Westhaven Community Services District and agrees with their evaluation; and

WHEREAS, the Planning Division as a Responsible Agency has considered the Lead Agency's determination that elements of the project qualify for exemptions found in the CEQA guidelines; and

WHEREAS, Attachment 3 in the Planning Division staff report includes evidence in support of making all of the required findings for approving the proposed Coastal Development Permit and Conditional Use Permit (Record Number PLN-2023-18152); and

WHEREAS, the Humboldt County Zoning Administrator held a duly-noticed public hearing on **November 21, 2024** and reviewed, considered, and discussed the application for a Coastal Development Permit 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:** The Coastal Development Permit for Westhaven Community Services District proposed project including five elements: the Disinfection Byproduct Reduction Project, the Water Diversion Infrastructure Upgrades and Maintenance Project, the Wells and Water Line Replacement Project, the Water Loss Reduction Project, and the Trinidad Emergency Intertie Project. The project involves a Coastal Development for new development, the Modification of [(PLN-16307, existing coastal development permits)], and a Conditional Use Permit for Civic Use Types on an RS zoned parcel. Approval of Coastal Development Permit PLN-18151 allowed for the initiation of some of the projects.

EVIDENCE: a) Project File: PLN-2023-18152

2. FINDING: **CEQA:** The project complies with the requirements of the California Environmental Quality Act (CEQA). Acting as Lead Agency, the Westhaven Community Services District submitted a Mitigated Negative Declaration and three Notices of Exemption encompassing most elements of this project. The County of Humboldt is acting as a responsible agency per CEQA §15381. The County of Humboldt reviewed and agrees with the findings of the MND and the NOEs. Additionally, the Trinidad Emergency Intertie Project is exempt from environmental review under CEQA Section 15302, Replacement or Reconstruction, and 15303, New Construction or Conversion of Small Structures.

EVIDENCE: a) Westhaven CSD prepared and published a Mitigated Negative Declaration for the Disinfection Byproduct Reduction Project (SCH #2024080630).

b) Westhaven CSD prepared Notices of Exemption for the Westhaven Community Services District Water Diversion Infrastructure Upgrades and Maintenance Project (SCH #2024010738), exempt under CEQA Section 15301, the Westhaven CSD Wells and Water Line Replacement Project (SCH #2020080047), exempt under CEQA Section 15302 (class 2) and 15303 (class 3), and the Westhaven Community Services District Water Loss Reduction Project (SCH #2014098050) exempt under CEQA Section 15302(c).

- c) Westhaven CSD has not yet submitted a Notice of Exemption for the Trinidad Emergency Intertie Project but the project is exempt from environmental review under CEQA Section 15302, Replacement or Reconstruction, and 15303, New Construction or Conversion of Small Structures.

FINDINGS FOR COASTAL DEVELOPMENT PERMIT

3. FINDING: **General Plan:** The project is consistent with the Humboldt County General Plan, Open Space Plan and Open Space Action Program, and the Trinidad Area Local Coastal Plan (TAP).

EVIDENCE: The parcels included in the project are designated as follows:

Public Lands (P), Rural Residential (RR(c)) 513-181-014;

Rural Village (RV), Urban Reserve 514-012-013, 514-015-007, 514-112-014, 514-113-006, 514-132-007, 514-132-008, 514-133-001, 514-211-034, 514-211-035, 515-011-023, 515-011-063, 515-011-073 ;

Rural Residential (RR(e)) 515-041-014, 515-041-020;

Rural Residential (RR(d)) 515-121-018;

Coastal Commercial Timberland (TC) 514-221-008;

All - Urban Reserve Trinidad Area Local Coastal Plan; Density 0 to 1 unit per acre; Slope Stability: Low Instability (1)

4.30 RURAL PLAN DESIGNATIONS

All relevant elements of the project are consistent with Trinidad Area Local Coastal Plan section 4.30 RURAL PLAN DESIGNATIONS.

Much of the proposed work for the Waterline Replacement Project and the Water Loss Reduction Project is in the County right of way, but occasionally the development extends onto legal parcels. The waterline replacement work is ancillary to and supportive of existing development on those legal parcels and is consistent with the Trinidad Area Local Coastal Plan.

The Disinfection Byproduct Reduction Project, the Water Diversion Infrastructure Upgrades and Maintenance Project, and the Wells and Water Line Replacement Project involve

development on APNs 514-132-007, -008, and 514-133-001, and include replacing and upgrading existing water treatment facilities, an essential service, on Rural Village (RV) designated parcels. This use is not explicitly supported, as the RV designation as written principally permits residential single-family with neighborhood commercial services and conditionally permits the production of food, fiber, or plants, and Cottage Industry.

Notwithstanding the lack of support for essential uses in the land use designation, the project would improve the availability and quality of water for the WCSD. It would not lead to increased densities in the area and is a consistent use within rural land use designation. The wells, borings, and water treatment facilities are confined to parcels owned by WCSD.

3.23 PUBLIC SERVICES

All relevant elements of the project are consistent with Trinidad Area Local Coastal Plan section 3.23 (A) PLANNED USES.

The Water Diversion Infrastructure Upgrades and Maintenance Project includes the expansion of the WSCD public works facilities to accommodate existing, unserved need for water service within the Westhaven Village area caused by insufficient existing water treatment capacity. The WCSD plans to serve 200 homes, but is limited to 150, restricted by the condition of the current treatment system. The proposed improvements to the public services will enable the WCSD to be compliant with their service plan.

The Trinidad Emergency Intertie Project provides for a more resilient water system and ensures that in the event the City of Trinidad or Westhaven Village experiences an emergency loss of water supply, the affected community service district would still be able to provide water to its service area by using the resources of the unaffected CSD.

3.30 NATURAL RESOURCE PROTECTION POLICIES AND STANDARDS.

The Wells and Water Line Replacement Project, the Water Loss Reduction Project, and the Trinidad Emergency Intertie Project elements of the project are consistent with Trinidad Area Local

Coastal Plan section 3.30 NATURAL RESOURCE PROTECTION POLICIES AND STANDARDS.

The Disinfection Byproduct Reduction Project and the Water Diversion Infrastructure Upgrades and Maintenance Project are not consistent with section 3.30 NATURAL RESOURCE PROTECTION POLICIES AND STANDARDS

According to the Trinidad Area Local Coastal Plan, Riparian corridors on all perennial and intermittent streams shall be, at a minimum, the larger of the following:

- (1) 100 feet, measured as the horizontal distance from the stream transition line on both sides.
- (2) 50 feet plus four times the average percent of slope, measured as a slope distance from the stream transition line on both sides of intermittent and perennial streams.

Proposed project work will occur within these setbacks. Although the Trinidad Area Local Coastal Plan has no mechanisms to reduce setbacks, the Humboldt County Zoning Code provides a process and mitigation measures to facilitate the reduction. Through consultation with CDFW, qualified biologists, and considering the fact that existing water treatment infrastructure exists onsite, the development will be permitted with best management practices in place to protect the resource. More details are in Finding 7 and 8.

The Disinfection Byproduct Reduction Project and the Water Diversion Infrastructure Upgrades and Maintenance Project, involves redevelopment of the WCSD Water Treatment Plant on APNs 514-132-007, -008, and 514-133-001 to ensure a reliable and safe source of domestic water for the WCSD. These improvements were assessed in part under PLN-16307. The Biological and Wetland Assessment submitted with PLN-16307 inventoried ESHA in the project area and suggested mitigation measures for some of the proposed developments. Modification of PLN-16307 will make temporary wells permanent. This modification will cause many of the mitigation measures including the required restoration of the parcel to be non-applicable to the project. As such, appropriate mitigation

measures relevant to the permanent development will be required for the project's development.

County Staff consulted with the California Department of Fish and Wildlife to solicit amended mitigation measures and refreshed support for the project. CDFW supported both the expanded improvements and the reduced setbacks to ESHA, suggesting the proposed development would have no effect to adjacent wetlands and riparian corridors, and providing some additional considerations and best practices to ensure no impacts would occur (**Conditions 4-30**).

As depicted on the site plan, no work will occur in a watercourse or wetland, but some of the work will be located within 100 feet of the two sensitive habitats. Finding 4 Evidence B and Finding 8 examine conformance with the County Code's requirements for doing work in the riparian areas in the Coastal Zone.

The Biological and Wetland Assessment provides operational measures to minimize the project's potential impacts on the sensitive communities and riparian buffer areas. These include excluding equipment and construction from the stream and riparian area, using construction fencing near sensitive areas to prevent accidental incursion, and using BMPs during construction to prevent runoff and potential discharge to the riparian areas. and wetlands.

3.23 PUBLIC SERVICES

All elements of the project are consistent with the Trinidad Area Local Coastal Plan section 3.23 PUBLIC SERVICES ***30254. New or expanded public works facilities shall be designated and limited to accommodate needs generated by development or uses permitted consistent with the provisions of this division; provided, however, that it is the intent of the legislature that State Highway Route 1 in rural areas of the coastal zone remain a scenic two-lane road. Special districts shall not be formed or expanded except where assessment for, and provision of, the service would not induce new development inconsistent with this division. Where existing or planned public works facilities can accommodate only a limited amount of new development, services to coastal- dependent land use, essential public services, and basic industries vital to the economic health of the region, state, or nation, public recreation, commercial

recreation, and visitor-serving land uses shall not be precluded by other development.

3.31 NATURAL RESOURCE PROTECTION POLICIES AND STANDARDS

If appropriate minimization measures and recommendations are incorporated into the proposed activities, the consulting qualified biologist's opinion is that there will be no significant loss of biological resources, including sensitive species or ESHA, at the project site.

Wetland areas were identified according to the Coastal Act's definition of wetlands (See Chapter 5: Definitions) - In general, lands which meet the classifications definition of subtidal estuarine aquatic beds, estuarine intertidal flats and emergent habitats, and palustrine emergent and non-riparian palustrine shrub-scrub and forested habitats were considered wetlands.

3.17 ARCHAEOLOGICAL AND PALEONTOLOGICAL RESOURCES

No referral response was received from the Yurok Tribe. The inadvertent discovery protocol has been added as an information note to the Conditions of Approval.

4. FINDING: **Zoning Designation:** The proposed development is consistent with the purposes of the existing zone in which the site is located.

EVIDENCE: a) Much of the proposed work for the Wells and Water Line Replacement Project, the Water Loss Reduction Project, and the Trinidad Emergency Intertie Project is in the County right-of-way, but occasionally the development extends onto the subject parcels. The work is ancillary and supportive of existing development, is consistent with the Humboldt County Code, and is supported by County of Humboldt Public Works Department.

A Conditional Use Permit is required for the Modification affecting PLN-2020-16307, which proposes to make the two approved temporary test wells at APNs 514-132-007, -008, and 514-133-001 permanent, to allow the construction of a 16-foot by 20-foot well control building, to install a 6-foot by 6-foot pump house at each well location, and to install two approximately parallel trenches, each 140 lineal feet in length,

for a transmission pipe and electrical well control conduits.

Development on APNs 514-132-007, -008, and 514-133-001 includes replacing and upgrading existing water treatment facilities, an essential service, on RS-X-M/R zoned parcels. The civic use type Essential Services is a conditionally permitted use, and a Conditional Use Permit is required for the work.

In all circumstances, the minor improvements to the water system are accessory to principal uses and are consistent with the purposes of the zone districts and access easements applied to parcels and rights-of-way where work will occur.

Unclassified (U) - 513-181-014

Residential Single Family, No Further Subdivision Allowed, Manufactured Home, Streams, and Riparian Corridor Protection (RS-X-M/R) - 514-012-013, 514-015-007, 514-112-014, 514-113-006, 514-132-007, 514-132-008, 514-133-001, 515-011-023, 515-011-063, 515-011-073

Rural Residential Agriculture, Provision for Manufactured Homes, Riparian Corridor Protection (RA-5-M-R) - 515-121-018

Rural Residential Agriculture, Modified Building Standards Including Provision for Manufactured Homes, Design Review (RA-SM/D) - 515-041-014, 515-041-020

Residential Single Family, No Further Subdivision Allowed, Streams and Riparian Corridor Protection (RS-X/R) - 514-211-034, 514-211-035

Timber Production Zone, Streams, and Riparian Corridor Protection (TPZ/R) - 514-221-008

- b) **HCC 33.1 Streams and Riparian Corridor Protection (R)** – The project requires the width of a riparian corridor and wetland buffer area be reduced on APN 514-132-007, -008 and APN 514-133-001-000 to enable to the development of the 16-foot by 20-foot well control building and to install two 6-foot by 6-foot pump houses. This reduction is permitted pursuant to HCC 313-33.1.6.3. The work on APN 515-121-018 is outside of the buffer area.

The width of the riparian corridor, as described in paragraph 33.1.6.1, may be reduced where:

1. Such a reduction would not result in the removal of the woody vegetation,
2. The County determines, based on specific factual findings, that a reduction of the corridor width will not result in a significant adverse impact to the habitat,
3. Is consistent with the adopted Local Coastal Plan.

The Planning and Building Department contacted CDFW, who provided insight into whether the reduction of the corridor width would result in significant adverse impact to the habitat. They indicated that they did not have any major concerns about impacts to the biological resources. CDFW recommended, beyond the best practices suggested by the Qualified Biologist, several additional measures that would minimize or mitigate potential impacts (Conditions of Approval 4-30).

The proposed development shall not result in the removal of woody vegetation besides the special situation described in CoA 30.

No specific pathway facilitating the reduction of riparian corridors is in the Trinidad Area Local Coastal Plan. Explicit minimums for riparian corridors are 100 feet measured from the stream transition line.

5. FINDING: **Zoning Code:** The proposed development conforms with all applicable standards and requirements of the Humboldt County Code.

EVIDENCE: a) Complies with **HCC Section 312-1.1.2 Legal Lot Requirement** -
Development permits shall be issued only for a lot that was created in compliance with all applicable state and local subdivision regulations.

The project area occurs in legal public right of ways and approves development on 17 parcels.

The legal parcel status of APNs 513-181-014, 514-132-007, 514-132-008 and 514-133-001 were all confirmed by the issuance of PLN-2020-16307.

The legal parcel status of APN 514-211-034 and APN 514-211-035 was confirmed by the Notice of Merger dated 1981 and recorded as document number 1654 O.R. 1257.

The legal parcel status of 514-012-013 was established by the Planning Approval, issuance, and final inspection of Building Permit 72-1245NB.

The legal parcel status of APN 515-011-023 was confirmed due to the approval of CDP 11-11, approved August 7th, 2012.

The legal status of APN 515-011-063 and APN 514-221-008 has been confirmed following the inspection of Grant Deeds recorded prior to October 8, 1964. APN 515-011-063 was first described March 22nd, 1958 in Book 487, Page 144 I#5917. APN 514-221-008 was first described in Book 808, Page 338 I#17446.

The legal parcel status of APN 515-011-073 was confirmed by the approval of LLA 06-01, approved in 2006.

The legal parcel status of APN 515-041-014 was confirmed by Parcel Map 416, recorded in Book 4 of Parcel Maps, page 26.

The legal parcel status of APN 514-112-014 was confirmed by the issuance of PLN_2020-16808.

The legal parcel status of APN 513-113-006 was confirmed by issuance of PLN-2287-CDP.

APN 515-121-018 cannot be identified as a legal parcel, however as the parcel was conveyed to a government agency, the City of Trinidad, it is exempt from the Subdivision Map Act. Additionally, as the development on this parcel is going to be developed by the City of Trinidad and the Westhaven Community Services District, the issuance of a development permit will not serve to legalize the parcel.

The legal parcel status of APN 515-041-020 was confirmed by the Notice of Lot Line Adjustment and Certificate of Subdivision Compliance recorded as instrument number 2017-010279.

Additionally, the project area spans two jurisdictional areas of the Coastal Zone, the Local jurisdiction and the appeals jurisdiction. The Coastal Development Permit that follows the approval of this ECDP will be prepared pursuant to Humboldt County Code section 312-3.1.4.

b) Complies with **HCC 313-125 Wetland Buffer Areas** –

A reduction of the Wetland Buffer Area is required on APN 514-132-008-000 and APN 514-133-001-000 to enable the Disinfection Byproduct Reduction Project, the Water Diversion Infrastructure Upgrades and Maintenance Project,.

See HCC Section 313-125.7.3 Reduction of Required Setback: In both urban and rural areas, setbacks of less than the distance specified in this section may be permitted only when:

1. The applicant for the proposed development demonstrates, to the satisfaction of the County, that a setback of less than the distance specified will not result in significant adverse impacts to the wetland habitat and will be compatible with the continuance of such habitats.
2. Any such reduction in development setback may require mitigation measures, in addition to those specified below, to ensure new development does not adversely affect the wetland habitat values.

The following required Project Components (**Conditions of Approval 4-36**) ensure new development does not adversely affect the wetland habitat values:

125.9.1 Coverage of the lot or parcel with impervious surfaces shall not exceed twenty-five percent (25%) of the total lot area – The total development will be 4% impervious.

125.9.2 The release rate of stormwater runoff to adjacent wetlands shall not exceed the natural rate of stormwater runoff for a 50-year storm of 10-minute duration – (Condition 11);

125.9.3 Stormwater outfalls, culverts, gutters, and the like, shall be dissipated, and where feasible, screened (Condition 10);

125.9.4 Areas disturbed during construction, grading, etc., within 100 feet of the boundary of the wetland shall be restored to original contours and sufficiently and promptly replanted with vegetation naturally occurring in the immediate area (Condition 12);

125.9.5 Development and construction shall minimize cut-and-fill operations and erosion and sedimentation potential through construction of temporary and permanent sediment basins, seeding or planting bare soil, diversion of runoff away from grading areas and areas heavily used during construction, and, when feasible, avoidance of grading during the rainy season (November through April) (Condition 13).

6. FINDING: The proposed development and 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:**
- a) All reviewing referral agencies that responded to the County have approved or conditionally approved the proposed project. The application is complete. Parcels to be developed are found to comply with the Subdivision Map Act. The proposal neither causes non-conformance nor increase the severity of preexisting nonconformities with zoning and building ordinances.
 - b) County of Humboldt Public Works Department provided comment regarding work in the public right of way. The applicant's adherence to the recommendations provided by Public Works ensures the proposed development will not be detrimental to the public health, safety, or welfare or materially injurious to properties or improvements in the vicinity.
 - c) The proposed work does not pose a risk or exacerbate any hazards to the health, safety, or welfare of the public because a large majority of the work is on pre-disturbed ground.

7. **FINDING:** **Residential Density:** The proposed project does not reduce the residential density for any parcel below that utilized by the Department of Housing and Community Development.

EVIDENCE: a) The parcels included in this project are not included in the 2009 Adopted Housing Element Inventory, and the potential reduction in residential density is consistent with the General Plan and the County can continue to accommodate its share of the regional housing need.

8. **FINDING:** **All elements of the project comply with HCC Section 312-39.15 of the Humboldt County Code - Coastal Wetland Buffers:**

Development will be sited and designed to prevent impacts which would significantly degrade wetland habitat areas, and shall be compatible with the continuance of such habitat areas; and

The biological productivity and the quality of coastal waters, streams, wetlands, estuaries, and lakes appropriate to maintain optimum populations of marine organisms shall be maintained, and where feasible, restored.

EVIDENCE: a) The development associated with the Disinfection Byproduct Reduction Project, the Water Diversion Infrastructure Upgrades and Maintenance Project, and some of the Wells and Water Line Replacement Project are within 100 feet of wetlands as identified by qualified biologists associated with SHN. SHN examined the subject parcels to determine project feasibility within environmental constraints and suggested the most environmentally superior location for the project in **Attachment 3B**. The area assessed for project feasibility was one of the only sites within the study area that did not have a shrubby or forested layer and was not dominated by native coastal habitat features. As such, the proposed development will be sited in most feasible area to be compatible with the wetland habitat areas. See Site Plan and 90% Project Plans (Attachment 1B and 1C).

b) Special Considerations were recommended by SHN and CDFW and are conditions of project approval.

Specific Conditions of Approval are required for the work on APN 513-181-014514-132-007, 412-132-008, 514-133-001, the Disinfection Byproduct Reduction Project and the Water Diversion Infrastructure Upgrades and Maintenance Project (Conditions of Approval 10-29).

- c) LACO reviewed the potential negative effects of the Trinidad Emergency Intertie Project on coastal wetlands and recommended the following considerations memorialized as **Conditions of Approval 30-35**.

9. FINDING: All elements of the project comply with HCC Section 39.4 COASTAL STREAMS AND RIPARIAN AREAS

- 1. There are no significant adverse effects on habitat areas;
- 2. There is no less environmentally damaging feasible alternative;
- 3. The best mitigation measures feasible have been provided to minimize adverse environmental effects.

- EVIDENCE:**
- a)
 - 1. By adhering to the best management practices recommended in the Biological Assessment prepared by SHN and recommended by CDFW, there is no significant adverse effects on the coastal stream and its related riparian area.
 - 2. The proposed development is upgrading existing facilities, and so the work is in the most appropriate location.
 - 3. Best management practices and habitat enhancement activities are recorded in the Conditions of Approval and provide to minimize adverse environmental effects.

10. FINDING: All elements of the project comply with HCC Section 39.8 COASTAL NATURAL DRAINAGE COURSES

Natural drainage courses, including ephemeral streams, will be retained and protected from development which would impede the natural drainage pattern or have a significant adverse effect on water quality or wildlife habitat.

EVIDENCE: a) This requirement has been included as **Condition of Approval 4**, and the project site plan and building plans appear to avoid impeding natural drainage patterns and shouldn't have significant adverse effects on water quality or wildlife habitat.

11. FINDING: **All elements of the project comply with the California Coastal Commission's seven (7) standards for determining the appropriate width of a wetland buffer area.**

EVIDENCE: a) 1. Biological significance of adjacent lands: According to SHN Consulting's Qualified Biologist, the study area near the worksite of the Disinfection Byproduct Reduction Project and the Water Diversion Infrastructure Upgrades and Maintenance Project is dominated by coast redwood, sword fern, English ivy, deer fern, red alder, salmon berry, and thimble berry. All dominant species within the study area are upland, facultative upland, or facultative wetland plants, designated as facultative or drier species. One special status natural community was identified at the treatment site – Redwood Forest Community. Red alder forest was observed at the site but is not considered to be a sensitive natural community because it does not meet the criteria for sensitive association, nor is it located within a riparian area. The main portion of the terrace at the water treatment site has been graded and compacted with a graveled surface.

2. Sensitivity of species to disturbance: The width of the buffer area is based, in part, on the distance necessary to ensure that the most sensitive species of plants and animals will not be disturbed significantly by the permitted development. Measures are taken to reduce harassment of sensitive species as follows:

- a. Equipment and construction personnel should stay within the approved work area during construction;
- b. Temporary fencing should be installed around the permitted construction work area, to prevent accidental incursion into wetlands or streams;
- c. Minor impacts from project-related activities at the well site to the surrounding special-status

natural communities will be mitigated through the removal of invasive species such as English ivy;

- d. Where project construction activities occur within close proximity to special status resources, these resources should be demarcated by high visibility construction fencing during the project construction period in a manner sufficient to avoid unintentional impacts;
- e. Best management practices identified in the project description shall be used during construction to prevent runoff and potential discharge into wetlands and streams.
- f. Large stumps and snags shall be retained for wildlife habitat.
- g. To avoid potential impacts to nesting birds, in accordance with the Migratory Bird Treaty Act, one of the following shall be implemented:
 - i. Conduct vegetation removal and other ground disturbance activities associated with any construction activities between late August and mid-March, when birds are not typically nesting, or
 - ii. If vegetation removal or ground-disturbing activity is to take place during the nesting season (March 15 to August 15 for most birds), a qualified biologist shall conduct a pre-construction nesting bird survey. Pre-construction surveys for nesting pairs, nests, and eggs shall occur within the construction limits and within 100 feet (200 feet for raptors) of the construction limits. If active nests are encountered, species-specific measures shall be prepared by a qualified biologist in consultation with the USFWS and CDFW and implemented to prevent abandonment of the active nest.

- h. Migratory Nesting Bird Season: Construction with heavy machinery shall only occur between August 16 and March 14 to minimize disturbance to migratory nesting birds. If construction is proposed within the migratory bird nesting season, a biological survey shall be conducted no more than 14 days prior to construction or any vegetation removal to assess the presence of nesting birds near the project area. This should include a raptor survey (Condition 37).
 - i. Amphibian Surveys: Project activities near the riparian area at the WTP site that provides amphibian habitat should occur from July 15 through October 31, to minimize potential impacts to these species (Condition 24)
 - j. As the area around the ESHA is already developed and impacted by human disturbance, organisms which reside in those habitats are likely adapted to human disturbance.
- 3. Susceptibility of parcel to erosion: The width of the buffer area was based, in part, on an assessment of the slope, soils, impervious surface coverage, runoff characteristics, and vegetative cover of the parcel, and considers the degree the development will change the potential for erosion. During the development and construction of this project, BMPs shall be used to prevent sediment, fuels, or contaminants from entering the surrounding terrestrial and aquatic environments/habitats. (Condition 20).
- 4. Use of natural topographic features to locate development: Hills and bluffs adjacent to environmentally sensitive habitat areas are used, where feasible, to buffer habitat areas. Where otherwise permitted, development is located On upland areas of the parcel, away from environmentally sensitive habitat areas and riparian corridors.
- 5. Use of existing cultural features to locate buffer zones: Cultural features, (e.g., roads and dikes) are used, where feasible, to buffer habitat areas. Where feasible, development is located on the side of roads, dikes, irrigation canals, flood control channels, etc., opposite the

environmentally sensitive habitat area.

6. Lot configuration and location of existing development: Although some existing development is built-out, the proposed development is larger than the existing development. The buffer area from the riparian corridor is reduced to the side of the road farthest from the stream. Additional conditions are required to ensure additional protection (Conditions 11 – 37).
7. Type and scale of development proposed: The type and scale of the proposed development will, to a large degree, determine the size of the buffer area necessary to protect the environmentally sensitive habitat area. Due to domestic pets, human use and vandalism, residential developments may not be as compatible adjacent to wetlands, and therefore require the widest feasible buffer areas. The proposed construction is sited to be the least disturbing to ESHA and includes mitigation measures to reduce the disturbance caused by the development.

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 approve Westhaven Community Services District Coastal Development Permit based upon the Findings and Evidence and subject to the conditions of approval attached hereto as Attachment 1 and incorporated herein by reference; and

Adopt after review and consideration of all the evidence on **November 21, 2022.**

I, John H. Ford, Secretary to the 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 Commission at a meeting held on the date noted above.

A handwritten signature in blue ink, appearing to read 'John H. Ford', is written over a horizontal line.

John H. Ford, Director

Planning and Building Department

ATTACHMENT 1A

CONDITIONS OF APPROVAL

APPROVAL OF THE COASTAL DEVELOPMENT PERMIT IS CONDITIONED ON THE FOLLOWING TERMS AND REQUIREMENTS WHICH MUST BE SATISFIED BEFORE THE COASTAL DEVELOPMENT PERMIT CAN BE FINALIZED.

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 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 Planning and Building 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.
3. The approved building plans shall meet all applicable fire codes, including fire suppression infrastructure requirements deemed necessary for the project by the Building Inspection Division. Sign-off on the Occupancy Permit by the Building Division shall satisfy this requirement.

Project Specific Conditions:

4. Natural drainage courses, including ephemeral streams, will be retained and protected from development which would impede the natural drainage pattern or have a significant adverse effect on water quality or wildlife habitat.
5. Encroachment Permit: Applicant must apply for and obtain an encroachment permit for the replacement of the water main line within the County maintained road rights-of-way of Westhaven Drive, 6th Avenue, Kahlstrom Avenue, Kay Avenue, and Driver Road.
6. Traffic Control Plan: A traffic control plan prepared by a civil engineer or traffic engineer is required. Traffic control shall be conducted in a manner that provides the least inconvenience to motorists as possible. Emergency vehicles shall be allowed to pass through the controlled areas at all times. One travel lane shall be available for through traffic at all times. Permittee shall notify the Department of Public Works 48 hours prior to conducting any traffic control that requires closures of both travel

lanes for longer than 5 minutes. Closure of both travel lanes for longer than 5 minutes requires prior written approval by the Director of Public Works. The California Highway Patrol and the Humboldt County Sheriff's Office shall also be notified of any traffic control that requires closure of both travel lanes at least 48 hours in advance.

7. Storm Water Quality: Storm Drain inlets tributary to the work area shall be protected from storm water pollution. The discharge of non-storm water (flushing of the new water lines) into the County storm drain system will require approval from the State of California Water Quality Control Board.
8. Construction plans: Unless otherwise approved in writing by the Department all watermains not in use shall be removed from the public right of way. Construction plans shall state whether the existing water main is to be removed or abandoned in place (if approved by the Department). If the line is to be abandoned in place, the line shall be slurry-filled and the construction plans shall clearly show the location of the line.
9. Applicant shall be responsible to correct any involved drainage problem related to the project construction within the County Road right of way to the satisfaction of this Department.

The Disinfection Byproduct Reduction Project, the Water Diversion Infrastructure Upgrades and Maintenance Project, the Wells and Water Line Replacement Project, the Water Loss Reduction Project

10. Stormwater outfalls, culverts, gutters, and the like, shall be dissipated, and where feasible, screened;
11. The release rate of stormwater runoff to adjacent wetlands shall not exceed the natural rate of stormwater runoff for a 50-year storm of 10-minute duration;
12. Areas disturbed during construction, grading, etc., within 100 feet of the boundary of the wetland shall be restored to original contours and sufficiently and promptly replanted with vegetation naturally occurring in the immediate area;
13. Development and construction shall minimize cut-and-fill operations and erosion and sedimentation potential through construction of temporary and permanent sediment basins, seeding or planting bare soil, diversion of runoff away from grading areas and areas heavily used during construction, and, when feasible, avoidance of grading during the rainy season (November through April);
14. Equipment and construction personnel should stay within the approved work area during construction;

15. Temporary fencing should be installed around the permitted construction work area, to prevent accidental incursion into wetlands or streams;
16. If impacts to special-status resources cannot be avoided while still accomplishing project objectives, these impacts should be mitigated at a ratio or in a manner to be determined by consultation with the appropriate regulatory agency;
17. Minor impacts from project-related activities at the well site to the surrounding special-status natural communities could be mitigated through the removal of invasive species such as English ivy;
18. Where project construction activities occur within close proximity, to special-status resources, as defined in the Humboldt County General Plan and the Trinidad Area Plan, these resources should be demarcated by high visibility construction fencing during the project construction period in a manner sufficient to avoid unintentional impacts. If revegetation is needed as part of the project, native plant species should be used;
19. Best management practices identified in the project description should be incorporated during construction to prevent runoff and potential discharge into wetland and OHWM areas;
20. To avoid potential impacts to nesting birds, in accordance with the Migratory Bird Treaty Act, one of the following shall be implemented:
21. Conduct vegetation removal and other ground disturbance activities associated with any construction activities between late August and mid-March, when birds are not typically nesting, or
22. If vegetation removal or ground-disturbing activity is to take place during the nesting season (March 15 to August 15 for most birds), a qualified biologist shall conduct a pre-construction nesting bird survey. Pre-construction surveys for nesting pairs, nests, and eggs shall occur within the construction limits and within 100 feet (200 feet for raptors) of the construction limits. If active nests are encountered, species-specific measures shall be prepared by a qualified biologist in consultation with the USFWS and CDFW and implemented to prevent abandonment of the active nest.
23. Project activities near the riparian area at the WTP site that provides amphibian habitat should occur from July 15 through October 31, to minimize potential impacts to these species;

24. If excavation that requires dewatering occurs as part of project activities, dewatering pump intakes should be fitted with a filter basket or screen to prevent impacts to aquatic wildlife that may have entered the excavated area; and
25. Retain large stumps and snags for wildlife habitat (e.g. roosting bats).
26. Clearly mark the edge of the project footprint/work area (e.g., gravel access roads, building envelope) to avoid unnecessary impacts to adjacent forest. Pull back any gravel fill or other materials that may have “crept” outside those limits. Replant disturbed areas with sword fern (*Polystichum munitum*) or other redwood forest understory species.
27. Continue to implement and maintain basic erosion and sediment control Best Management Practices (e.g., straw wattles).
28. Continue to manage invasive species such as English ivy (*Hedera helix*), holly (*Ilex aquifolium*), *Crococsmia*, and cherry laurel (*Prunus laurocerasus*).
29. If some alder trees ultimately need to be removed as hazard mitigation, replant the area with locally appropriate riparian shrubs that are less likely to pose a threat to infrastructure in the future. Good options include evergreen huckleberry (*Vaccinium ovatum*), red huckleberry (*Vaccinium parviflorum*), thimbleberry (*Rubus parviflorus*), and salmonberry (*Rubus spectabilis*). Sword fern and other understory species like false lily of the valley (*Maianthemum dilatatum*) would also be appropriate.

Emergency Intertie

30. Where the waterline crosses Westhaven Drive to connect with the Water Treatment Plant, it may be necessary to use horizontal direction drilling (HDD) to avoid impacts to the seasonal creek and reach the required depth of 36 inches (the existing roadbed above the culvert may be too shallow). If this is the case, wait until the dry season (mid-June at the earliest) to begin this component of the project. Install and maintain appropriate erosion and sediment control as you would for any excavation or ground disturbance close to an aquatic feature. This would also apply to the flushing hydrant near the gated gravel driveway to the east.
31. Native plant communities shall be adequately protected and construction should be kept to the existing roadways, County rights-of-way, and already developed rural residential properties.
32. All staged equipment and materials outside of the rights-of-way shall be restricted to clearly marked areas shown on construction documents and clearly marked in the field. The Class II streams (Jolan Creek, tributary of Luffenholtz Creek, and Luffenholtz

Creek) and associated riparian buffer areas shall be identified on construction documents.

33. Riparian buffers shall be placed at the tree drip line at each stream crossing along Westhaven Drive and no work shall extend beyond this point. Additionally, the construction contractor and/or District shall provide straw wattles adjacent to open trenching between the adjacent open trenching and the stream courses.
34. No heavy equipment shall be allowed beyond the wattle installations. It is further recommended that construction occur during the late spring to fall dry season.
35. Additionally, a breeding bird survey shall be conducted prior to construction if operations occur between March 15 and August 15. If an active native bird nest is found in proposed staging areas, then a qualified biologist shall determine if the nest is no longer active prior to construction disturbance at nest location(s).
36. Per the Department of Public Works Memo dated April 19, 2023:
 1. Encroachment Permit: Applicant must apply for and obtain an encroachment permit for the replacement of the water main line within the County maintained road right of ways of Westhaven Drive, 6th Avenue, Kahlstrom Avenue, Kay Avenue, and Driver Road. [reference: County Code §411-11 (a)(b)]
 2. Traffic Control Plan: A traffic control plan prepared by a civil engineer or traffic engineer is required. Traffic control shall be conducted in a manner that provides the least inconvenience to motorists as possible. Emergency vehicles shall be allowed to pass through the controlled areas at all times. One travel lane shall be available for through traffic at all times. Permittee shall notify the Department of Public Works 48 hours prior to conducting any traffic control that requires closures of both travel lanes for longer than 5 minutes. Closure of both travel lanes for longer than 5 minutes requires prior written approval by the Director of Public Works. The California Highway Patrol and the Humboldt County Sheriff's Office shall also be notified of any traffic control that requires closure of both travel lanes at least 48 hours in advance.
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 4. Construction plans: Unless otherwise approved in writing by the Department all watermains not in use shall be removed from the public right of way. Construction plans shall state whether the existing water main is to be removed or abandoned in

place (if approved by the Department). If the line is to be abandoned in place, the line shall be slurry filled and the construction plans shall clearly show the location of the line.

5. Applicant shall be responsible to correct any involved drainage problem related to the project construction within the County road right of way to the satisfaction of this Department.

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 and the appropriate Tribal Historic Preservation Officer(s) are to be contacted to evaluate the discovery and, in consultation with the applicant and the lead agency, develop a treatment plan in any instance where significant impacts cannot be avoided. 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 Native American Heritage Commission will then be contacted by the Coroner to determine appropriate treatment of the remains pursuant to Public Resources Code (PRC) Section 5097.98. Violators shall be prosecuted in accordance with PRC Section 5097.99.

2. Public Works Plan

- a. During construction, roadways shall be periodically cleaned of mud, soil, rock, and debris.
- b. No construction materials or debris shall be placed within the County road right of way during the project, unless permitted through an encroachment permit.
- c. All special districts providing or authorized to provide sewer or water services, including all County Service Areas providing or authorized to provide these services, and all private providers of such services with 20 or more residential-equivalent connections, shall annually submit to the County Planning Commission a Public Works Plan consisting of: five-year projection of service growth and a specific plan, if any, for system expansion in the following year. The Commission, after public hearing, shall recommend approval or disapproval of the plan to the Board of Supervisors, based on criteria of Section 3.12 B2c. Where an approved expansion plan does not exist, no permit will be issued by

the County for any work contributing to the extension of services outside the serviceable area, or to expansion of system capacity above the capacity above the capacity needed to provide services in the serviceable area. Where Public Works Plan has been approved, all permitted work on said utility shall conform to the Plan.

A Public Works Plan may be amended by the Planning Commission, up to three times in a year; and any such amendment shall be based on the criteria of Section 3.21B 2c:

Criteria for approval of a Public Works Plan shall be:

- (1) That the public works plan will provide services consistent with the proposed scale and pattern of development shown in the Area Plan within the Urban Limit.
 - (2) That provision of service to all lots in the expanded portion of the serviceable area, for uses permitted in the Area Plan, will not remove capacity necessary to serve future development of undeveloped lots in the Urban Limit area to the uses permitted in the Area Plan.
 - (3) That no assessments, readiness to serve fees, or other costs or encumbrances, including bonded indebtedness, related to water or sewer expansion, will be assessed against lands designated Agriculture Exclusive.
3. Notification for a Lake and Streambed Alteration Agreement is unlikely to be necessary for the Trinidad Emergency Intertie Project provided the work avoids all impacts to the bed, bank and channel of the seasonal drainage, but CDFW may notify the applicant if an LSAA is required.

WESTHAVEN COMMUNITY SERVICE DISTRICT WESTHAVEN WELL AND PIPELINE REPLACEMENT PROJECT



SCHEDULE A
FUNDING AGREEMENT BETWEEN
THE STATE OF CALIFORNIA (DEPARTMENT OF WATER RESOURCES) AND
WESTHAVEN COMMUNITY SERVICES DISTRICT
4600014508
SMALL COMMUNITY DROUGHT RELIEF PROGRAM

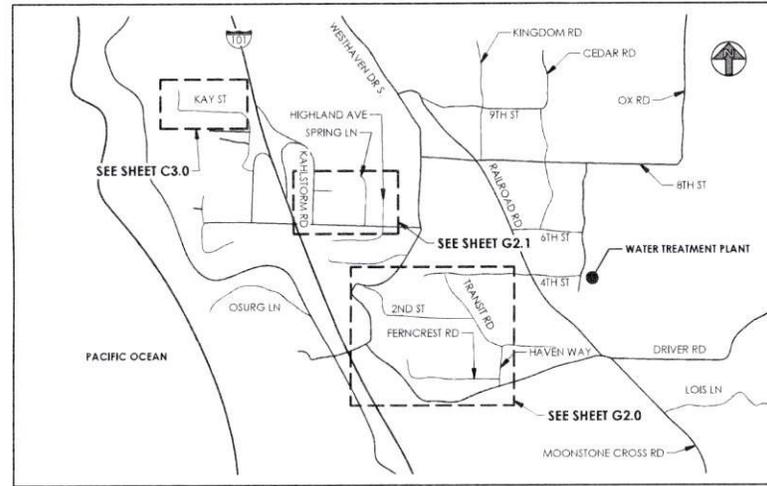
Received 4/11/2023 HCP&B

WESTHAVEN COMMUNITY SERVICES DISTRICT BOARD

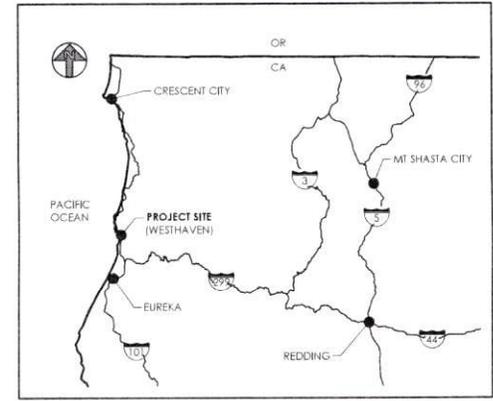
BILL VERICK	PRESIDENT
BARBARA CLINE	VICE PRESIDENT
DAVID HANKIN	FINANCE
RICHARD SWIGHER	SAFETY OFFICER
ANTONIO LLANOS	MEMBER

WESTHAVEN COMMUNITY SERVICES DISTRICT STAFF

PAUL M. ROSENBLATT	GENERAL MANAGER / CHIEF PLANT OPERATOR T2-34384/D2-42549
KATRINA MARTIN	LEAD OPERATOR T2-44809/D1-55736
ROXANNE LEVANG	SECRETARY / BOOKKEEPER
MADISON HEWIT	OPERATOR-IN-TRAINING / ET



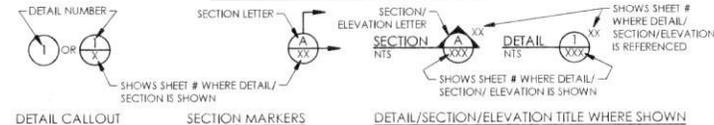
VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

SHEET INDEX		
NO	DESCRIPTION	SHEET NAME
1	G1.0	TITLE
2	G1.1	LEGEND AND NOTES
3	G2.0	SHEET INDEX MAP
4	G2.1	SHEET INDEX MAP
5	C1.0	4TH AVE AND TRANSIT AVE
6	C1.1	TRANSIT AVE AND 1ST AVE
7	C1.2	1ST AVE AND HAVEN WAY
8	C1.3	HAVEN WAY AND DRIVER RD
9	C1.4	DRIVER RD
10	C1.5	DRIVER RD AND WESTHAVEN DR
11	C2.0	6TH AVE AND HIGHLAND AVE
12	C2.1	6TH AVE, SPRING LN, AND KAHLSTORM AVE
13	C2.2	KAHLSTORM AVE, 7TH AVE, AND SPRING LN
14	C2.3	HIGHLAND AVE
15	C3.0	KAY AVE AND TEPONIA LN
16	C4.0	DETAILS
17	C4.1	DETAILS
18	C4.2	DETAILS

GENERAL INFORMATION



90% DRAFT



SHEET
G1.0
PG 1 OF 18

12/28/2022 2973.02
 PROJECT: WESTHAVEN WELL AND PIPELINE REPLACEMENT PROJECT
 SHEET: G1.0
 DATE: 12/28/2022
 TIME: 10:00 AM
 USER: JACOB

ABBREVIATIONS - WATER/MECHANICAL

Ø	DIAMETER	FLEX	FLEXIBLE	ROW or R/W	RIGHT OF WAY
± or PL	PLATE OR PROPERTY LINE	FLG	FLANGE	RFP	REDUCED PRESSURE PRINCIPLE
AB	ANCHOR BOLT, AGGREGATE BASE	FMAA	FLANGE x MJ ADAPTER	S	SLOPE
AC	ASBESTOS CEMENT PIPE or ASPHALT CONCRETE	FND	FOUNDATION	SCH or SCHED	SCHEDULE
ADDNL	ADDITIONAL	FRP	FIBER REINFORCED POLYETHYLENE	SD	STORM DRAIN
ADH AB	ADHESIVE ANCHOR BOLT	FRTG	FOOTING or FITTING	SECT	SECTION
AFF	ABOVE FINISH FLOOR	FTGS	FITTINGS	SGL	SINGLE
AGG or AGGR	AGGREGATE	GA	GAGE	SH or SHI	SHEET
AGS	ABOVE GROUND SURFACE	GAL	GALLON	SHTG	SHEATHING, SHEETING
APPROX	APPROXIMATELY	GALV	GALVANIZED	SIM	SIMILAR
ARV	AIR RELEASE VALVE	GC	GROOVED COUPLING	SMS	SHEET METAL SCREW
ASTM	AMERICAN SOCIETY FOR TESTING OF MATERIALS	GSP	GALVANIZED STEEL PIPE	SP	SPACE or SPACES
BGS	BELOW GROUND SURFACE	GV	GATE VALVE	SPEC'S	SPECIFICATIONS
BKFL	BACKFILL	HD	HOLD/DOWN or HOT DIPPED	SQ	SQUARE
BLDG	BUILDING	HDPE	HIGH DENSITY POLYETHYLENE	SS	SANITARY SEWER or STAINLESS STEEL
BLK	BLOCK	HMA	HOT MIX ASPHALT	STD	STANDARD
BLKG	BLOCKING	HORIZ	HORIZONTAL	STL	STEEL
BM	BENCH MARK OR BEAM	HP	HORSE POWER	STRUCT	STRUCTURAL
BO	BLOW OFF or BLOCK-OUT	HT	HEIGHT	SYM	SYMMETRICAL
BOT or BOTT	BOTTOM	HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	T	TELEPHONE CONDUIT or TOP
BUSH	BUSHING	I	INSTRUMENTATION	T&B	TOP AND BOTTOM
BV	BALL VALVE	ID	INSIDE DIAMETER	TBC	TOP BACK OF CURVE
C or C/L or C _l	CENTERLINE	IN	INCHES	TBM	TEMPORARY BENCH MARK
C or COND	CONDUIT	IN	INSULATION	TC	TOP OF CONCRETE
CAV	COMBINATION AIR RELEASE VALVE	INSUL	INSULATION	TELE	TELEPHONE
CHEM	CHEMICAL	INT	INTERIOR or INTERMEDIATE	THRD	THREADED
CI	CAST IRON PIPE	INVT	INVERT	THK	THICK or THICKNESS
CP	CAST IN PLACE	IRRI	IRRIGATION	TL	TRAFFIC LIGHT
CISF	CAST IRON SOIL PIPE	JT	JOINT	TN	TOE NAIL
CJ	CONTROL JOINT or CEILING JOIST	LG	LINEAL FOOT	TOW	TOP OF WALL
CL or CLR	CEILING	LG	LIP OF GUTTER	TUBE	TUBING
CLG	CORRUGATED METAL PIPE	M	MALE or MECHANICAL	TYP	TYPICAL
CMP	CONCRETE MASONRY UNIT	MECH	MECHANICAL	UG	UNDER GROUND
CMU	CONCRETE MASONRY UNIT	MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
COL	COLUMN	MFR	MANUFACTURER	V	VENT
COMB	COMBINATION	MG	MILLION GALLONS	VERT	VERTICAL
COMP	COMPACTED or COMPOSITION SHINGLES	MH	MANHOLE	W	WATER
CONC	CONCRETE	MIN	MINIMUM	W/	WITH
CONST	CONSTRUCTION	MISC	MISCELLANEOUS	W/O	WITHOUT
CONT	CONTINUOUS	MJ	MECHANICAL JOINT	WS	WATER STOP or WATER SERVICE
CONTR	CONTRACTOR	MRS	MECHANICAL RUBBER SEAL	WTF	WATER TREATMENT PLANT
CORP	CORPORATION	MTL	METAL	WV	WATER VALVE
CP	CONTROL PANEL	(N)	NEW	WW	WELL WATER
CTR	CENTER	NB&G	NUTS, BOLTS, & GASKETS		
CU	COPPER	NF	NEAR FACE		
CV	CHECK VALVE	NIC	NOT IN CONTRACT		
CY	CUBIC YARD	Ng	NUMBER		
D	DRAIN	NPT	NATIONAL PIPE THREAD		
DB	DIRECT BURIAL	NIS	NOT TO SCALE		
DBL	DOUBLE	OJ	OVER		
DET	DETAIL	OC	ON CENTER		
DP	DUCTILE IRON PIPE	OD	OUTSIDE DIAMETER		
DIA	DIAMETER	OF	OUTSIDE FACE		
DM	DIMENSION	OQ	ORIGINAL GROUND		
DN	DOWN	OH	OVERHEAD		
DWG	DRAWING	OPG or OPNG	OPENING		
D/W	DRIVEWAY	OPP	OPPOSITE or OPERATING		
E	ELECTRICAL CONDUIT	P&ID or PID	PROCESS INSTRUMENTATION DIAGRAM		
(E) or EXIST	EXISTING	FE	PLAIN END		
EA	EACH	PNL	PANEL		
EG	EXISTING GRADE	PNT	PAINT		
EL or ELEV	ELEVATION	#	POUND		
ELEC	ELECTRICAL	PP	POWER POLE		
ELB	ELBOW	PR	PAIR		
EMBED	EMBED or EMBEDMENT	PREFAB	PREFABRICATED		
EN	EDGE NAILING	PROJ	PROJECT		
ENGR	ENGINEER	PRV	PRESSURE RELIEF VALVE		
EP	EDGE OF PAVEMENT	PS	PIPS SUPPORT		
EQ	EQUAL	PSI	POUNDS PER SQUARE INCH		
ER	EDGE OF ROAD	PVC	POLYVINYL CHLORIDE PIPE		
ESMT	EASEMENT	FW	POTABLE WATER		
EW	EACH WAY	R	REDWOOD		
EXP AB	EXPANSIVE ANCHOR BOLT	RDW or RDWD	REDWOOD		
EXP JT	EXPANSION JOINT(S)	RED	REDUCER		
F	FEMALE	REIN	REINFORCEMENT STEEL REBAR		
FC	FLEXIBLE COUPLING	REQD	REQUIRED		
FCA	FLANGED COUPLING ADAPTOR	REST	RESTRAINED		
FD	FRENCH DRAIN OR FLOOR DRAIN	RFLA	RESTRAINED FLANGED COUPLING ADAPTOR		
FEF	FLUORINATED ETHYLENE-PROPYLENE	RFMJA	RESTRAINED FLANGED MECHANICAL JOINT ADAPTOR		
FF	FINISHED FLOOR or FAK FACE	RFG	RESTRAINED FLANGED MECHANICAL JOINT		
FG	FINISH GRADE	RFM	ROOFING		
FH	FIRE HYDRANT	RO	ROUGH OPENING		
FN	FINISH				

SYMBOL LEGEND

■	AREA DRAIN
●	BOLLARD
○	CENTERLINE
⊙	CONTROL POINT
→	CULVERT
↘	DRAINAGE DIRECTION ARROW
□	ELECTRICAL PANEL / BOX
□/○	FOUND MONUMENT AS NOTED
⊖	(E) FIRE HYDRANT
⊖	(N) FIRE HYDRANT
+	GUY ANCHOR
+	GRID TICK
⊖	HOSE BB
⊖	LIGHT POLE
⊖	POLE-JOINT UTILITY
⊖	POLE-POWER
⊖	SIGN
●	SANITARY SEWER MANHOLE
●	SANITARY SEWER CLEANOUT / RODHOLE
●	STORM DRAIN CATCH BASIN
●	TREE/SHRUB
⊖	WATER BLOW OFF OR AIR RELEASE VALVE
⊖	WATER METER/BOX
⊖	(E) WATER VALVE
⊖	(N) WATER VALVE
⊖	(E) WELL
⊖	PROPOSED WELL
⊖	MONITORING WELL / BORE LOCATION

LINE LEGEND

---	(E) EP
---	(N) EP
---	(E) CONC
---	(N) CONC
---	PROPERTY LINE
---	FLOWLINE
---	(E) WATER MAIN
---	(N) WATER MAIN
---	(E) STORM DRAIN
---	(N) STORM DRAIN
---	(E) SANITARY SEWER
---	(N) SANITARY SEWER
---	(E) GAS LINE
---	(N) GAS LINE



GENERAL NOTES

- UNLESS NOTED OTHERWISE (UNO), ALL CONSTRUCTION SHALL CONFORM TO THE PROJECT MANUAL, THE 2018 EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OR "GREEN BOOK", AND CALIFORNIA STANDARD PLANS AND SPECIFICATIONS 2018 EDITION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT 811 AND ALL UTILITY COMPANIES ONE (1) WEEK BEFORE ANY TRENCHING TO DETERMINE THE LOCATION OF ALL UNDERGROUND FACILITIES WHETHER SHOWN OR NOT SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING FACILITIES FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL FIELD LOCATE (POTHOLE) ALL UTILITY CROSSINGS A MINIMUM OF THREE (3) DAYS PRIOR TO CONSTRUCTION.
- ALL PROPERTY LINES AND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE.
- ALL UTILITY LOCATIONS INCLUDING WATER SERVICE LOCATIONS AND ALIGNMENTS AND DEPTHS, WHERE SHOWN, ARE APPROXIMATE. THE CONTRACTOR SHALL POTHOLE USING NON-DESTRUCTIVE MEANS AND SUBMIT WRITTEN FIELD OBSERVATION DRAWINGS OF THE PROPOSED AND EXISTING PIPE ALIGNMENTS AT LEAST FIVE (5) WORKING DAYS AHEAD OF THE PIPE INSTALLATION CREW. REFER TO THE PROJECT MANUAL.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE UNDERSIGNED ENGINEER AND OWNER.
- THE CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUALLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL SURVEY MONUMENTS. ANY MONUMENTS DISCOVERED ARE TO BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. ANY SURVEY MONUMENTS DISTURBED OUTSIDE THE IMMEDIATE WORK AREA DURING CONSTRUCTION SHALL BE REPLACED BY THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- ALL CONTRACTOR'S REPRESENTATIVES, INCLUDING SUBCONTRACTORS, SHALL HAVE WRITTEN PERMISSION TO ENTER ANY PORTION OF PRIVATE PROPERTY. ALL RESIDENCES SHALL BE GIVEN A MINIMUM OF 24 HOURS, BUT NO MORE THAN 72 HOURS NOTICE, PRIOR TO ENTRY/WORK ON PRIVATE PROPERTY.
- CONTRACTOR SHALL SUBMIT COMPLETE AND ACCURATE AS-BUILT DRAWINGS.
- SEPARATION OF WATER AND SEWER FACILITIES SHALL CONFORM TO THE RULES AND REGULATIONS OF THE UNIFORM PLUMBING CODE AND STATE OF CALIFORNIA STATE WATER RESOURCES CONTROL BOARD.
- ALL NEW WATER MAIN INSTALLATION SHALL BE OPEN CUT UNLESS ALTERNATIVE METHOD IS APPROVED BY ENGINEER OR NOTED OTHERWISE.
- CONTRACTOR SHALL INSTALL A PROJECT SIGN AT LEAST FOUR FEET TALL BY EIGHT FEET WIDE MADE OF 3/4 INCH THICK EXTERIOR GRADE PLYWOOD OR OTHER APPROVED MATERIAL AND SHALL MAINTAIN THE SIGN IN GOOD CONDITION FOR THE DURATION OF THE CONSTRUCTION PERIOD, REFER TO PROJECT MANUAL.
- ALL TALKING SHALL BE BACKFILLED WITH SLURRY BACKFILL OR CONC.
- PER THE REQUIREMENTS OF PUBLIC RESOURCES CODE SECTION 4442, INTERNAL COMBUSTION ENGINES SHALL BE EQUIPPED WITH AN OPERATIONAL SPARK ARRESTOR, OR THE ENGINE MUST BE EQUIPPED FOR THE PREVENTION OF FIRE.
- PIPES TO BE ABANDONED SHALL NOT TAKE PLACE UNTIL (N) WATER MAIN AND SERVICES HAVE BEEN FULLY TESTED, APPROVED FOR SERVICE AND CONNECTED.

90% DRAFT

SCALE ONE EACH ON ORIGINAL DRAWING

REVISIONS		
NO.	DATE	DESCRIPTION

PACE ENGINEERING

DES: JJ CED: TW JOB NO: 2024-001
 DRN: EF DATE: 12/28/2024 2973.02

SIGNED

WESTHAVEN COMMUNITY SERVICE DISTRICT
 WESTHAVEN WELL AND PIPELINE REPLACEMENT PROJECT
 SCHEDULE A

LEGEND AND NOTES

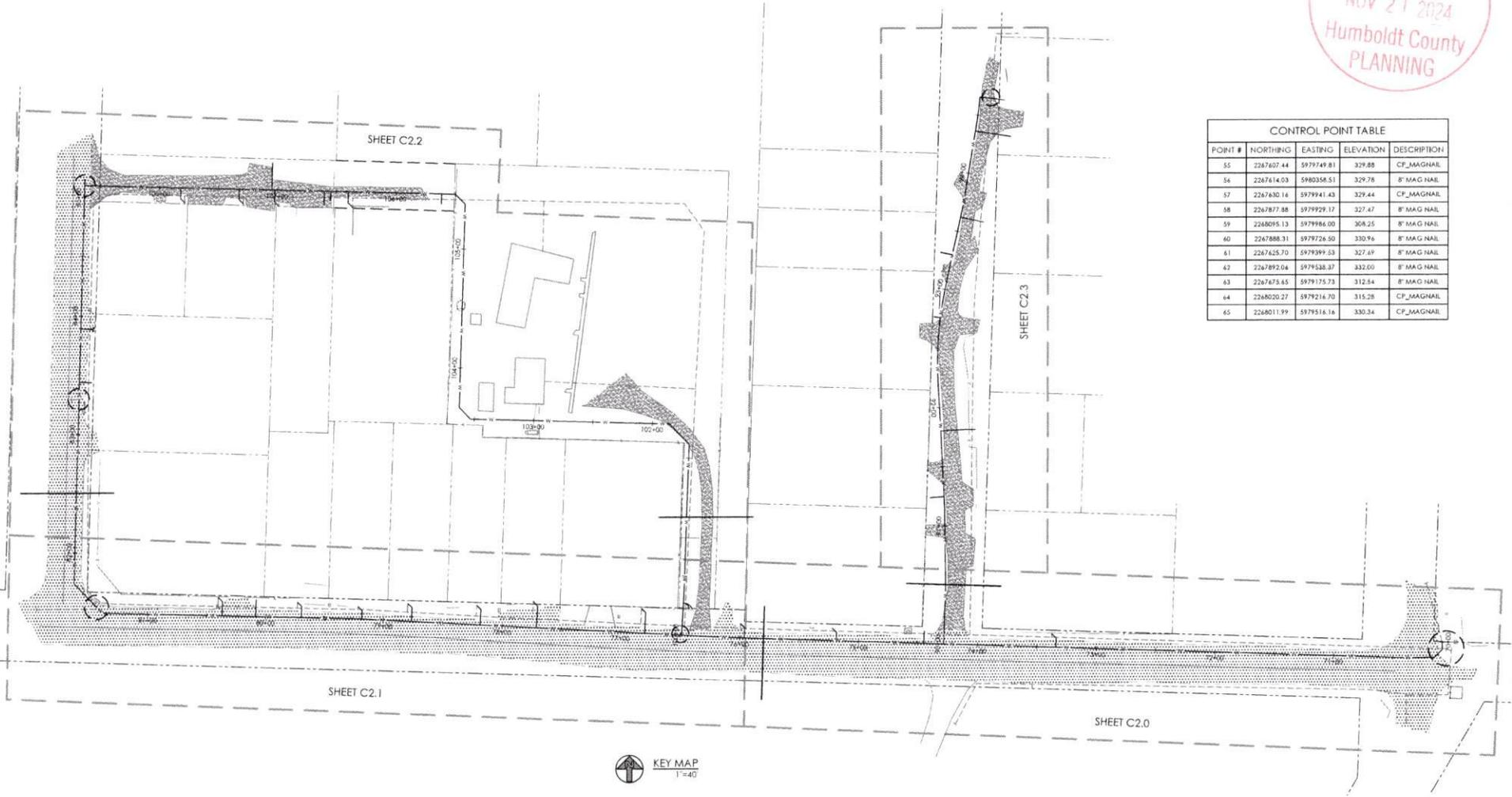
SHEET

G1.1

PG 2 OF 18

12/28/2024 10:58 AM C:\Users\james\OneDrive\Documents\2024\2024-001\DWG\G01.dwg User: james

APPROVED
 NOV 21 2024
 Humboldt County
 PLANNING



CONTROL POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
55	2267607.44	5979749.81	329.88	CP_MAGNAIL
56	2267614.03	5980358.51	329.78	8" MAG NAIL
57	2267630.16	5979941.43	329.44	CP_MAGNAIL
58	2267877.88	5979929.17	327.47	8" MAG NAIL
59	2268095.13	5979986.00	308.25	8" MAG NAIL
40	2267888.31	5979726.50	330.96	8" MAG NAIL
61	2267425.70	5979399.53	327.69	8" MAG NAIL
62	2267892.06	5979538.87	332.00	8" MAG NAIL
63	2267675.65	5979175.73	312.54	8" MAG NAIL
44	2268020.27	5979216.70	315.28	CP_MAGNAIL
65	2268011.99	5979516.16	330.34	CP_MAGNAIL



90% DRAFT

BASE ONE INCH ON
 GRAPHICAL DRAWING
 IF NOT ONE INCH ON THE
 SHEET, ADJUST SCALES
 ACCORDINGLY

REVISIONS	
NO	DATE

PACE ENGINEERING

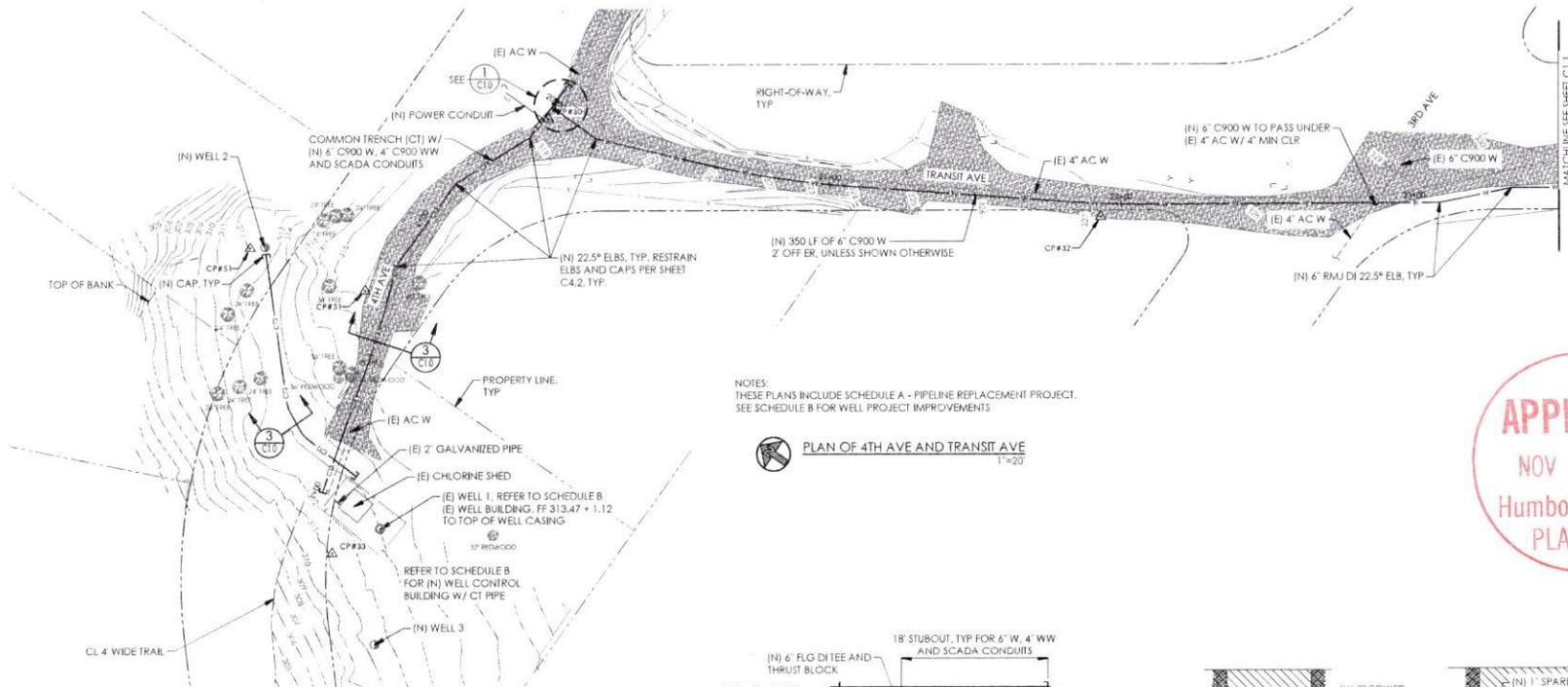
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 DRN: RT DATE: 12/28/2023 2973.02

SIGNED

WESTHAVEN COMMUNITY SERVICE DISTRICT
 WESTHAVEN WELL AND PIPELINE REPLACEMENT PROJECT
 SCHEDULE A
 SHEET INDEX MAP

SHEET
G2.1
 PG. 4 OF 18

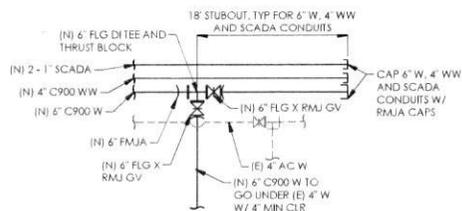
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NOTES:
 THESE PLANS INCLUDE SCHEDULE A - PIPELINE REPLACEMENT PROJECT.
 SEE SCHEDULE B FOR WELL PROJECT IMPROVEMENTS.

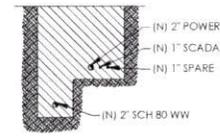
PLAN OF 4TH AVE AND TRANSIT AVE
 1"=20'

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 Humboldt County
 PLANNING

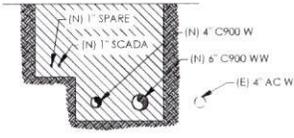


NOTE:
 1. CONTRACTOR SHALL RESTRAIN PIPE PER TABLES 3 & 4 AS SHOWN ON SHEET C4.2.

CONNECTION DETAIL 1 (CT) NTS



COMMON TRENCH DETAIL 2 (CT) NTS



COMMON TRENCH DETAIL 3 (CT) NTS

NOTE:
 1. REFER TO 5 (CT) FOR GENERAL CLEARANCE DIMENSIONS, TYP.

90% DRAFT

BAR & CHECK ON ORIGINAL DRAWING
 IF FACT OR CHECK THE SHEET ADJUST SCALES ACCORDINGLY

REVISIONS	
NO.	DESCRIPTION



DES: JI CED: JW JOB NO: 2073.02
 DRN: BT DATE 12/28/2023

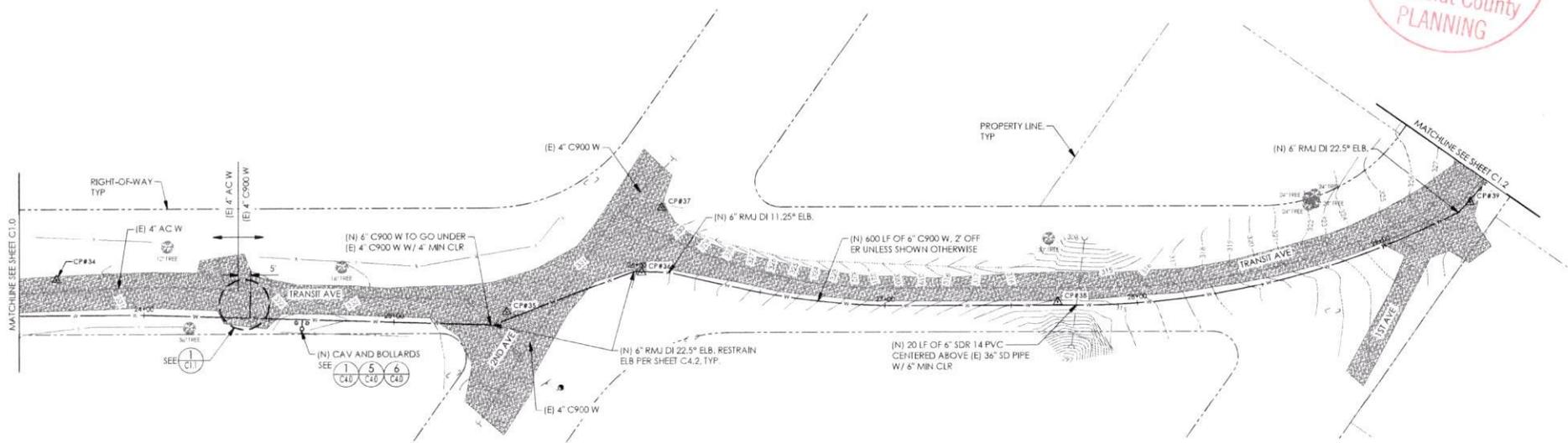
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WESTHAVEN COMMUNITY SERVICE DISTRICT
 WESTHAVEN WELL AND PIPELINE REPLACEMENT PROJECT
 SCHEDULE A
 4TH AVE STA 1+00-2+64
 TRANSIT AVE STA 20+00-23+50

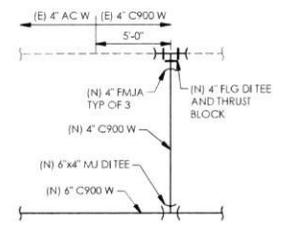
SHEET
C1.0
 PG. 5 OF 18

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 P:\DWG - Customer\08_2023 - 4TH AVE - 4TH AVE WELL AND PIPELINE REPLACEMENT PROJECT - SCHEDULE A.dwg

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 Humboldt County
 PLANNING



PLAN OF TRANSIT AVE AND 1ST AVE
 1"=20'



NOTE:
 1. CONTRACTOR SHALL RESTRAIN PIPE PER TABLES 3 & 4 AS SHOWN ON SHEET C4.2.

CONNECTION DETAIL (1) C1.1

90% DRAFT

SCALE CHECK ON ORIGINAL DRAWING
 1"=20'

REVISIONS	
NO.	DESCRIPTION



DES: TJ CKD: TW JOB NO:
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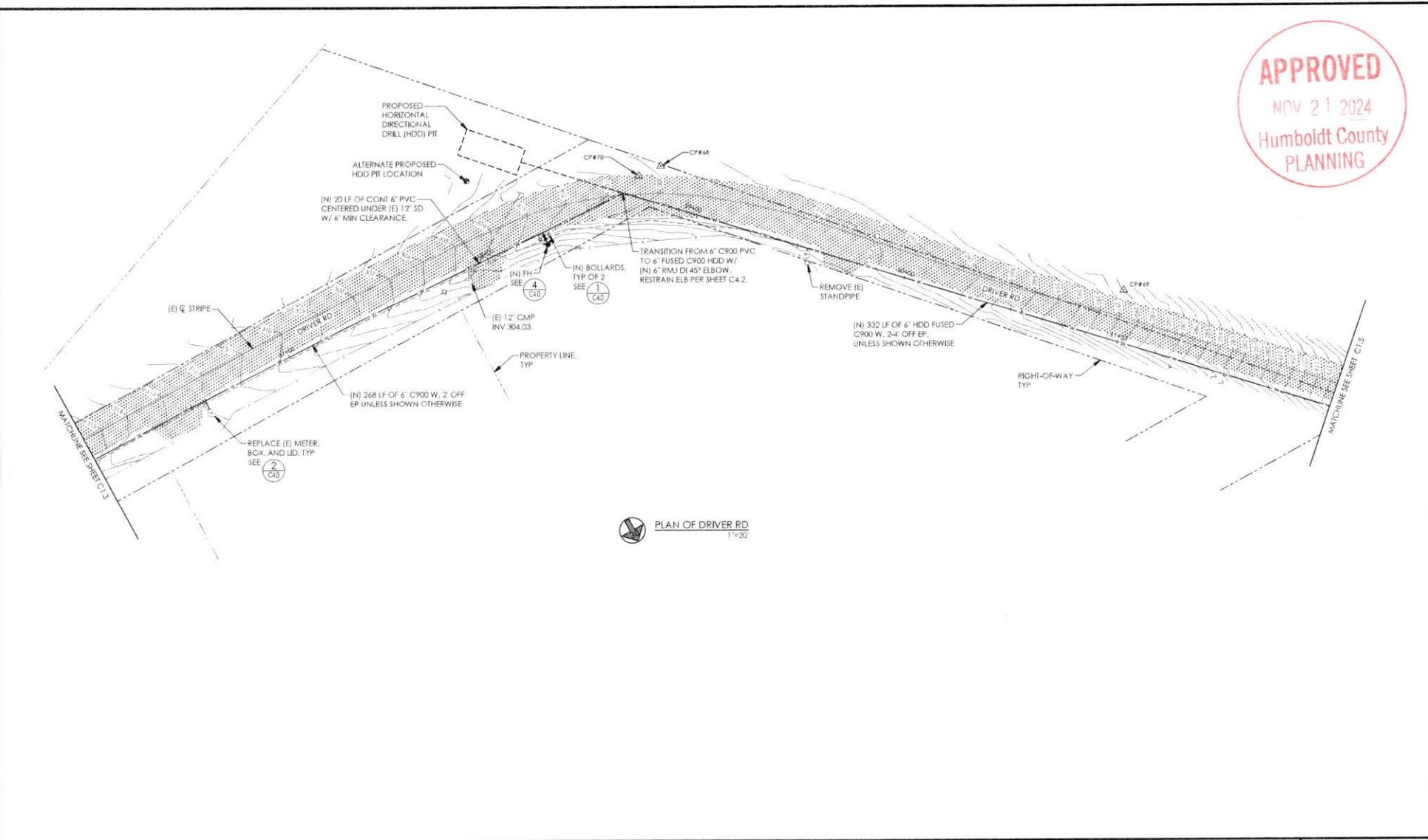
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WESTHAVEN COMMUNITY SERVICE DISTRICT
 WESTHAVEN WELL AND PIPELINE REPLACEMENT PROJECT
 SCHEDULE A
 TRANSIT AVE AND 1ST AVE STA 23+50-29+50

SHEET
C1.1
 PG 6 OF 18

Plot Date: December 28, 2023 11:58 AM 1:200 Scale Name: Westhaven Well and Pipeline Replacement Project - C1.1 - 2/1/2024/PLN/eng/lyndee_wake

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 Humboldt County
 PLANNING



PLAN OF DRIVER RD
 1"=20'

90% DRAFT

BAR NONE & CHECK ON ORIGINAL FOR APPROVED
 IF FACTOR NONE CHECK THE SHEET AGAINST SCALE ACCORDINGLY

REVISIONS	
NO	DATE

PACE ENGINEERING

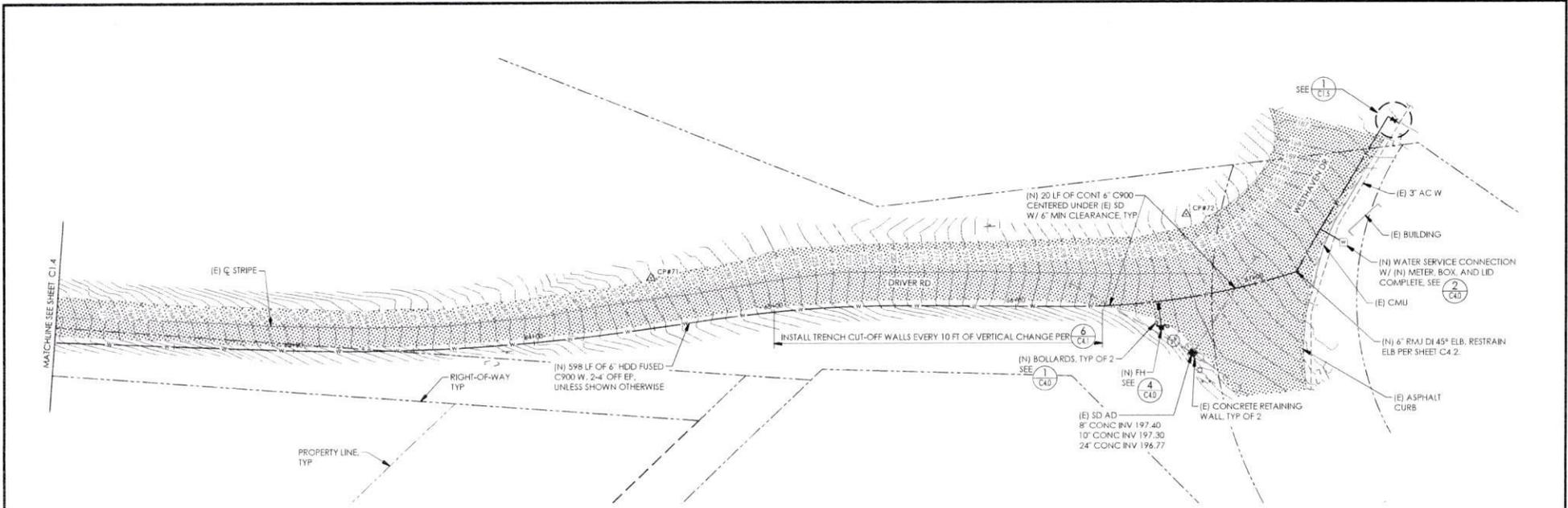
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DRN: BT	DATE: 12/28/2022	227326

SIGNED

WESTHAVEN COMMUNITY SERVICE DISTRICT
 WESTHAVEN WELL AND PIPELINE REPLACEMENT PROJECT
 SCHEDULE A
 DRIVER RD STA 56+00-62+00

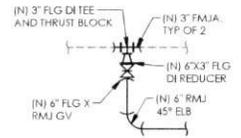
SHEET
C1.4
 PG 9 OF 18

File Name: C:\Users\j... Desktop\...
 Project: WESTHAVEN WELL AND PIPELINE REPLACEMENT PROJECT
 Date: 12/28/2022



PLAN OF DRIVER RD AND WESTHAVEN DR
1"=20'

APPROVED
 NOV 21 2024
 Humboldt County
 PLANNING



NOTE:
 1. CONTRACTOR SHALL RESTRAIN PIPE PER TABLES 3 & 4 AS SHOWN ON SHEET C4.2
 2. CONTRACTOR IS CAUTIONED REGARDING THE REQUIREMENT TO SUBMIT AN APPROPRIATE TRAFFIC CONTROL PLAN ALONG WITH AN ENCROACHMENT PERMIT.

CONNECTION DETAIL
1
C1.5

90% DRAFT

REVISIONS	
NO	DATE

PACE ENGINEERING

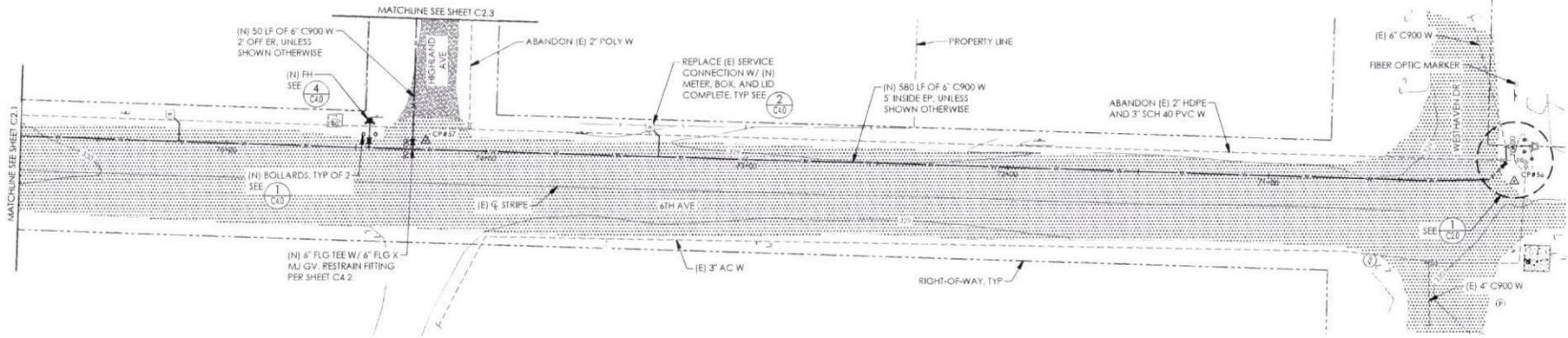
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DRN	BT	DATE	12/28/2023	297332

WESTHAVEN COMMUNITY SERVICE DISTRICT
 WESTHAVEN WELL AND PIPELINE REPLACEMENT PROJECT
 SCHEDULE A
 DRIVER RD AND WESTHAVEN DR STA 62+00-67+98

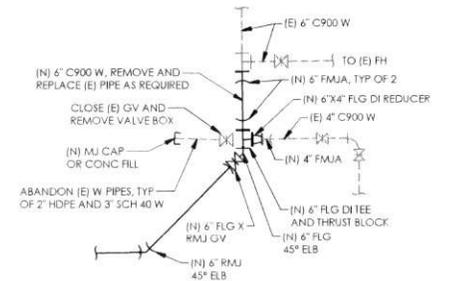
SHEET
C1.5
 PG 10 OF 18

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 Date: 12/28/2023
 File Name: L:\Projects\2023\Westhaven Well and Pipeline Replacement\Drawings\DWG\C1.5_Plan.dwg

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NOV 21 2024
Humboldt County
PLANNING



PLAN OF 6TH AVE AND HIGHLAND AVE
1-400



NOTE:
1. CONTRACTOR SHALL RESTRAIN PIPE PER TABLES 3 & 4 AS SHOWN ON SHEET C4.2.

CONNECTION DETAIL
NTS (1) C2.0

90% DRAFT

SCALE ONE INCH ON ORIGINAL FOR AREA:
[Redacted]
IF NOT CHECKED ON THE SHEET, ADJUST SCALE ACCORDINGLY.

REVISIONS	
NO.	DATE



DES: TJ CKD: TW JOB NO:
DRN: BT DATE: 12/28/2023 2973.02

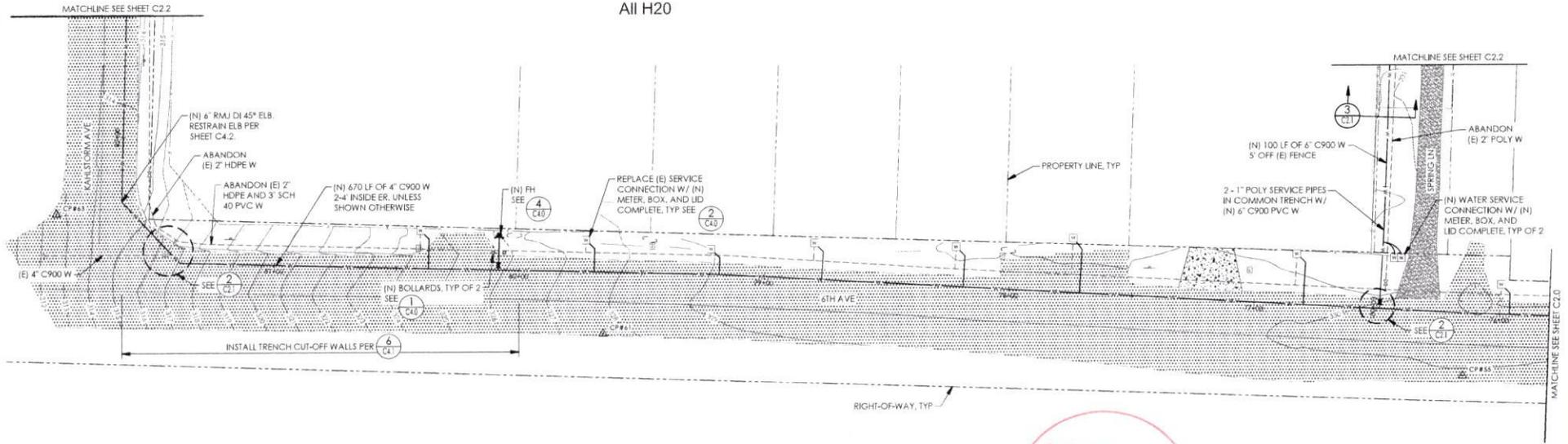
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WESTHAVEN COMMUNITY SERVICE DISTRICT
WESTHAVEN WELL AND PIPELINE REPLACEMENT PROJECT
SCHEDULE A
6TH AVE STA 70+00-75+80
HIGHLAND AVE STA 90+00-90+50

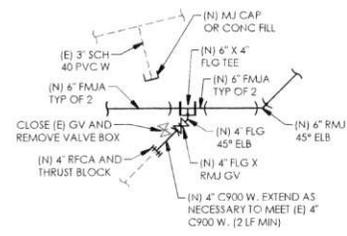
SHEET
C2.0
PG 11 OF 18

The information on this drawing was prepared by the engineer or architect in accordance with the professional seal and stamp of the engineer or architect. The engineer or architect is not responsible for the accuracy of the information provided by others.

All H20

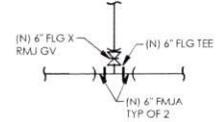


PLAN OF 6TH AVE, SPRING LN, AND KAHLSTORM AVE
1"=20'

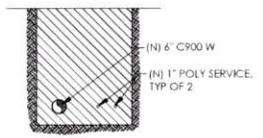


NOTE:
1. CONTRACTOR SHALL RESTRAIN PIPE PER TABLES 3 & 4 AS SHOWN ON SHEET C4.2. TYP.

CONNECTION DETAIL (1) (C21) NIS



CONNECTION DETAIL (2) (C21) NIS



NOTE:
1. REFER TO (5) (C21) FOR GENERAL CLEARANCE DIMENSIONS. TYP.

COMMON TRENCH DETAIL (3) (C21) NIS

90% DRAFT

DATE CHECKED ON ORIGINAL DRAWING:
 12/28/2023

 IF NOT ONE IN CHARGE OF THE SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS	
NO.	DESCRIPTION



DES: TJ CWD TW JOB NO:
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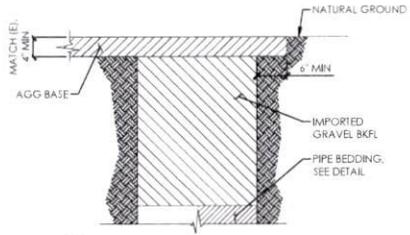
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WESTHAVEN COMMUNITY SERVICE DISTRICT
WESTHAVEN WELL AND PIPELINE REPLACEMENT PROJECT
SCHEDULE A
6TH AVE AND KAHLSTORM AVE STA 75+80-82+50
SPRING LN STA 100+00-101+00

SHEET
C2.1
PG 12 OF 18

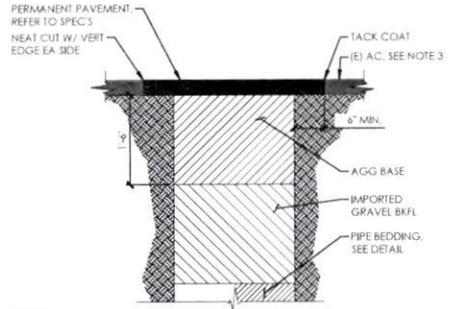
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NOV 21 2024
Humboldt County
PLANNING



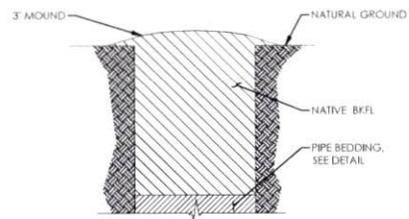
NOTES:
1. CLASS "A" SHALL BE USED IN GRAVELED SHOULDERS, ALLEYS, UNDER CONCR. UNPAVED DRIVEWAYS, & AT OTHER LOCATIONS DESIGNATED BY THE ENGR.

CLASS "A" BACKFILL DETAIL 1
NTS C41



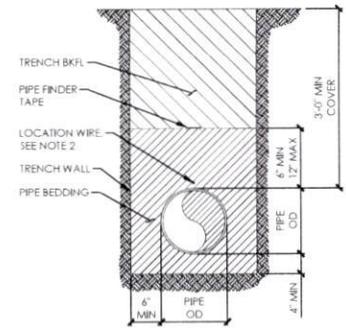
NOTES:
1. WHERE REMAINING PAVING IS LESS THAN 2 FT WIDE AFTER TRENCHING, REMOVE & REPLACE PAVEMENT TO EDGE OF (E) PAVING AT FULL THICKNESS.
2. CLASS "A3" BKFL SHALL BE USED IN ALL PAVED AREAS.
3. FOR UNDERMINED OR DAMAGE TO ADJACENT PAVEMENT, REFER TO SPECS.

CLASS "A3" BACKFILL DETAIL 2
NTS C41



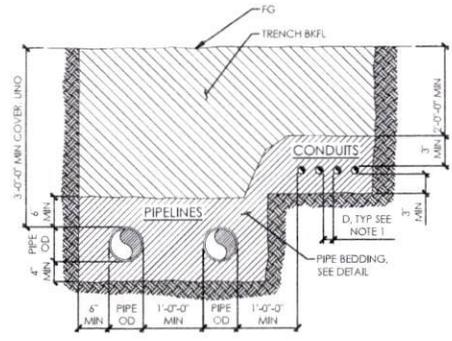
NOTES:
1. WHEN IN CULTIVATED OR LANDSCAPED AREAS THE TOP 1' OF SOIL SHALL BE REPLACED W/ (E) OR IMPORTED TOPSOIL. THE SURFACE SHALL BE RE-LEVELLED FOLLOWING INUNDATION & TRENCH SETTLEMENT. LAWNS OR OTHER LANDSCAPING SHALL THEN BE REPLACED.
2. CLASS "C" BKFL SHALL BE USED IN AREAS WHERE VEHICLE TRAFFIC IS NOT EXPECTED & IN LOCATIONS DESIGNATED BY THE ENGR.

CLASS "C" BACKFILL DETAIL 3
NTS C41

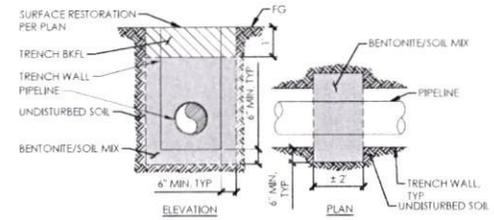


NOTES:
1. FOR 2 PIPES IN COMMON TRENCH, MAINTAIN 12 IN CLEARANCE BETWEEN PIPES & 6 IN MIN BETWEEN PIPES & TRENCH WALL.
2. REFER TO SPECS FOR LOCATION OF WIRE. WIRE REQ'D FOR WATER PIPING & PRESSURE SEWERS ONLY. ALL LOCATION WIRE SPLICES SHALL BE PERFORMED W/ WATER PROOF CONNECTORS, REFER TO SPECS.

PIPE BEDDING DETAIL 4
NTS C41

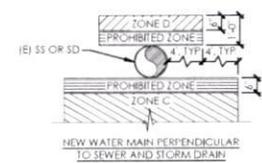


MULTIPLE PIPE TRENCH DETAIL 5
NTS C41

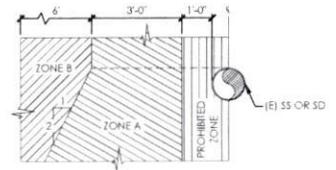


NOTES:
1. INSTALL TRENCH CUTOFFS WHERE SLOPES EXCEED 3%.
2. TRENCH CUTOFFS SHALL BE INSTALLED AT EVERY 4 FEET OF VERTICAL DROP IN ELEVATION ALONG THE SURFACE GRADE OF THE TRENCH UNO.
3. TRENCH CUTOFFS SHALL BE OF BENTONITE/SOIL MIXTURE. BENTONITE/SOIL MIXTURE SHALL CONSIST OF 8 PERCENT (BY WEIGHT) POWDERED BENTONITE MIXED WITH NATIVE SOIL PER THE BENTONITE MANUFACTURER'S RECOMMENDATIONS. BENTONITE/SOIL MIXTURE SHALL BE COMPACTED IN PLACE TO 90 PERCENT MINIMUM RELATIVE COMPACTION.

TRENCH CUTOFF DETAIL 6
NTS C41



NEW WATER MAIN PERPENDICULAR TO SEWER AND STORM DRAIN



NEW WATER MAIN PARALLEL TO SEWER AND STORM DRAIN

ZONE	REQUIREMENTS
PROHIBITED	(N) CONSTRUCTION IS PROHIBITED W/IN THIS AREA
A	(N) CONSTRUCTION W/IN THIS AREA SHALL HAVE PRIOR WRITTEN APPROVAL FROM BOTH DDW & THE ENGR
B	(N) CONSTRUCTION W/IN THIS AREA SHALL BE DIP W/ COMPRESSION JTS OR PVC W/ RUBBER RING JTS (ASTM D3034)
C	(N) CONSTRUCTION SHALL BE DIP, DR 14 PVC OR HDPE (C906-99) & HAVE NO JTS W/IN 10 FT FROM EITHER SIDE OF SEWER MAIN
D	(N) CONSTRUCTION SHALL BE DIP, DR 14 PVC OR HDPE (C906-99) & HAVE NO JTS W/IN 4 FT FROM EITHER SIDE OF SEWER MAIN

NOTE:
1) CONTRACTOR SHALL REPORT AREAS NOT SHOWN ON PLANS THAT REQUIRE WATER PLACEMENT WITHIN ZONES A, B, C, OR D TO THE ENGINEER. THESE NEWLY IDENTIFIED AREAS REQUIRE STATE WATER RESOURCES CONTROL BOARD, DIVISION OF DRINKING WATER APPROVAL PRIOR TO INSTALLATION.

SEPARATION OF WATER MAIN FROM SEWER AND STORM DRAIN PIPELINES 7
NTS C41

90% DRAFT

BASELINE PROJECT ORIGINAL DRAWING
PLOT DATE: 11/21/24
SHEET: 17 OF 17
SCALE: AS SHOWN

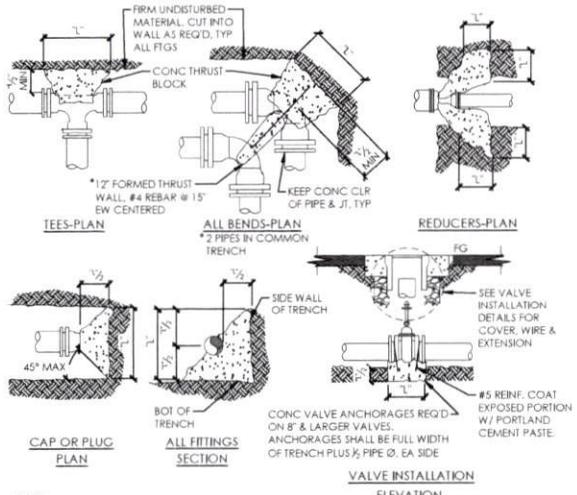
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NO.	DESCRIPTION



DWG NO: 17
CSD: TW
JOB NO:
DATE: 11/21/2024

WESTHAVEN COMMUNITY SERVICE DISTRICT
WESTHAVEN WELL AND PIPELINE REPLACEMENT PROJECT
SCHEDULE A
DETAILS

SHEET
C4.1
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- NOTES
- IN THE CASE WHERE THERE IS NOT 5 FT OF CLEARANCE TO UNDISTURBED EARTH OR (E) UTILITIES IN SERVICE, THE CONTRACTOR SHALL USE MECHANICAL RESTRAINT SYSTEMS ON (N) FITTINGS. EARTH IS DEEMED DISTURBED IF IT CONTAINS ANY (E) UTILITIES AND/OR IS RECOGNIZED AS A FILL AREA.
 - USE OF A MECHANICALLY RESTRAINED FTG IN LIEU OF A THRUST BLOCK TYPICALLY REQUIRES A NUMBER OF PIPE JTS TO BE RESTRAINED UP & DOWNSTREAM OF THE FTG. REFER TO TABLE 3. WHERE RESTRAINED FTGS ARE SHOWN ON THE PLANS, OR WHERE A CONTR PROPOSES TO USE A RESTRAINED FTG IN LIEU OF A THRUST BLOCK BECAUSE OF SITE CONDITIONS, THE CONTR SHALL DETERMINE THE NUMBER OF PIPE JTS TO BE RESTRAINED & SUBMIT THIS INFORMATION TO THE ENGR FOR REVIEW. PAYMENT FOR RESTRAINED JTS SHALL BE INCLUDED IN THE MOST APPLICABLE BID ITEM.
 - THRUST BLOCKS SHALL BE PROVIDED @ ALL BURIED PIPE FTGS OF 4 IN Ø OR LARGER. THRUST BLOCK SIZE IS BASED ON PIPE SIZE, 150 PSI TEST PRESSURE, & SOIL BEARING OF 1200 LB/FT². DIM "L" IS SHOWN IN TABLE 2 & IS BOTH A VERT & HORIZ DIM. UNO, IF PIPE COVER HAS BEEN APPROVED TO BE LESS THAN 30 IN, INCREASE HORIZ THRUST BLOCKS IN PROPORTION TO 30 IN DIVIDED BY THE ACTUAL COVER. IF TEST PRESSURE IS LESS THAN 150 PSI, THRUST BLOCK AREAS OR VOLUMES MAY BE PROPORTIONATELY SMALLER. KEEP CONC FREE OF ALL JTS, BOLTS & NUTS.

TABLE 1
 STD THRUST BLOCK MIN DIM "L" IN INCHES

NOMINAL PIPE Ø INCHES	FTGS						REDUCER (BASED ON LARGEST Ø)	VALVE
	TEE, WYE OR PLUG	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND			
4"	18	22	16	15	15	-	-	
6"	26	31	23	17	15	-	-	
8"	34	40	30	21	15	17	12	
10"	41	49	36	26	18	21	12	
12"	49	59	44	31	22	25	16	
14"	58	68	50	36	26	30	16	
16"	66	77	57	41	28	33	18	
18"	74	88	65	45	32	37	REQUIRES SPECIAL DESIGN	
20"	81	97	71	50	36	41	REQUIRES SPECIAL DESIGN	
24"	97	115	85	61	43	49		

NOTES:
 1. INCREASE ALL DIMS IN TABLE 1 BY 10% TO ALLOW FOR INCREASE IN PRESSURE TO 175 PSI.

TABLE 2
 VERT FTG THRUST BLOCKS

WHERE VERT BENDS ARE DIRECTED W/ THRUST TOWARD BOT OF THE TRENCH, BENDS SHALL HAVE THRUST BLOCKS PER HORIZ BENDS EXCEPT CONC SHALL BEAR AGAINST TRENCH BOT.

WHERE VERT BENDS ARE DIRECTED W/ THRUST TOWARD TOP OF TRENCH, BENDS SHALL BE INSTALLED PER THE FOLLOWING DETAIL. MIN ROD EMBED SHALL BE 30" FOR 12" & SMALLER PIPE & 36" FOR 14" & LARGER PIPE.

CY CONC FOR VERT FTGS (SEE DETAIL BELOW)

BEND ANGLE	PIPE Ø						
	4"	6"	8"	10"	12"	14"	16" & OVER
11 1/4°	0	0.4	0.7	0.9	1.3	1.8	
22 1/2°	0.4	0.8	1.3	1.8	2.5	3.4	REQUIRES SPECIAL DESIGN
45°	0.7	1.4	2.4	3.5	4.9	6.6	
90°	1.3	2.5	4.3	6.4	9.1	12.2	



THRUST BLOCK TABLES
 NTS (6) (C42)

TABLE 3

SIZE	PIPE FITTING	MIN. RESTRAINED PIPE LENGTH (FT)
10"	TEE	6
10"	90° ELB	30
10"	45° ELB	13
10"	11.25° ELB	5
10"x6"	TEE	5
8"	TEE	5
8"	90° ELB	25
8"	45° ELB	11
8"	11.25° ELB	5
8"	CAP	80
8"x6"	TEE	5
8"x4"	TEE	5
6"	TEE	5
6"	90° ELB	19
6"	45° ELB	8
6"	11.25° ELB	5
6"	CAP	60
6"x4"	TEE	5
4"	TEE	5
4"	90° ELB	14
4"	45° ELB	6
4"	11.25° ELB	5
4"	CAP	45

- NOTE:
- TEST PRESSURE = 150 PSI.
 - DEPTH OF BURY = 3 FT.
 - TEE RESTRAINT LENGTH VALUES REFLECT THE LENGTH OF PIPE ALONG THE BRANCH WHERE ALL FITTINGS AND JOINTS SHALL BE RESTRAINED. THE RESTRAINT LENGTH ALONG THE BRANCH WAS CALCULATED ASSUMING 10 LF OF RESTRAINED JOINTS EACH WAY ALONG THE PIPE RUN. UNO, RESTRAINED PIPE LENGTH ALONG THE BRANCH WILL CHANGE AS RESTRAINED LENGTH ALONG THE PIPE RUN CHANGES. CONTRACTOR SHALL SUBMIT CALCULATIONS TO ENGINEER FOR APPROVAL IF RESTRAINED PIPE LENGTH ALONG THE RUN IS GREATER THAN OR LESS THAN 10 LF.

RESTRAINT LENGTH TABLES FOR PIPE JOINTS AND FITTINGS
 NTS (1) (C42)

TABLE 4

SIZE	MINIMUM BEND RADIUS, R (FT)	MAXIMUM END OFFSET, Z (FT)
4"	150	1.3
6"	215	0.9
8"	285	0.6
10"	350	0.5

PVC ALLOWABLE BENDING RADIUS 20' LENGTHS
 NTS (6) (C42)

90% DRAFT

BASE ONE EACH ON ORIGINAL SPANDED.
 # NOT ONE EACH ON THE SHEET. ADJUST SCALE RECORD ONLY.

REVISIONS	
NO	DESCRIPTION

PACE ENGINEERING

DES: JI CKD: TW JOB NO: 2023-01
 DRN: BT DATE: 12/28/2023 2973.02

SHEET

WESTHAVEN COMMUNITY SERVICE DISTRICT
 WESTHAVEN WELL AND PIPELINE REPLACEMENT PROJECT
 SCHEDULE A
 DETAILS

SHEET
C4.2
 PG. 18 OF 18

PG. 18 OF 18
 DATE: 12/28/2023
 TIME: 10:00 AM
 USER: JACOB
 PROJECT: WESTHAVEN WELL AND PIPELINE REPLACEMENT PROJECT
 SHEET: C4.2

WESTHAVEN COMMUNITY SERVICES DISTRICT TRINIDAD-WESTHAVEN EMERGENCY INTERTIE PROJECT



FUNDING AGREEMENT BETWEEN
THE STATE OF CALIFORNIA (DEPARTMENT OF WATER RESOURCES) AND
CITY OF TRINIDAD
AGREEMENT NO. 4600014620
URBAN & MULTIBENEFIT DROUGHT RELIEF GRANT

CITY OF TRINIDAD CITY COUNCIL

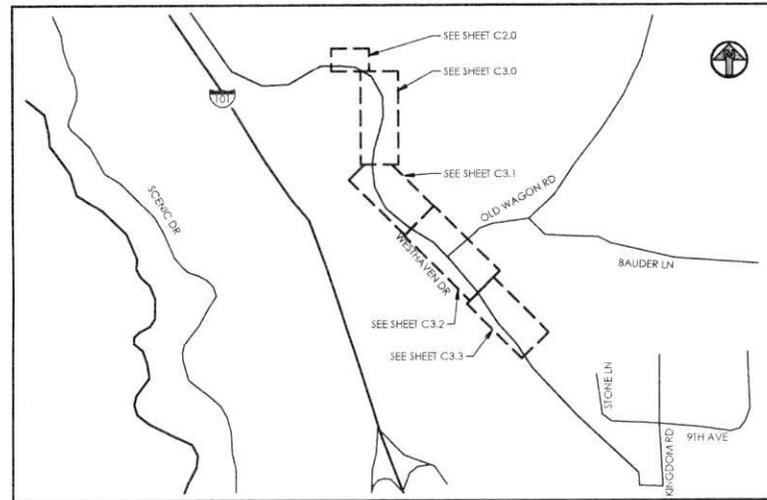
CHERYL KELLY	MAYOR
STEVE LADWIG	MAYOR PRO-TEM
JACK WEST	COUNCIL MEMBER
KATI BRECKENRIDGE	COUNCIL MEMBER
JACK TUTTLE	COUNCIL MEMBER

WESTHAVEN COMMUNITY SERVICES DISTRICT BOARD

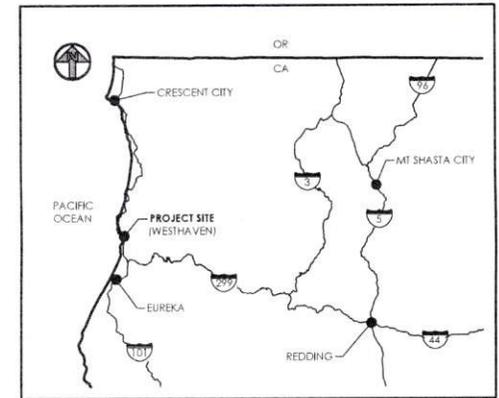
BILL VERICK	PRESIDENT
BARBARA CLINE	VICE PRESIDENT
DAVID HANKIN	FINANCE
RICHARD SWISHER	SAFETY OFFICER
ANTONIO LLANOS	MEMBER

WESTHAVEN COMMUNITY SERVICES DISTRICT STAFF

PAUL M. ROSENBLATT	GENERAL MANAGER / CHIEF PLANT OPERATOR T2-34384/D2-42549
KATRINA MARTIN	LEAD OPERATOR T2-44809/D1-55736
MADISON HEWITT	OPERATOR T2-46094/EIT
ROXANNE LEVANG	SECRETARY / BOOKKEEPER



VICINITY MAP
NOT TO SCALE



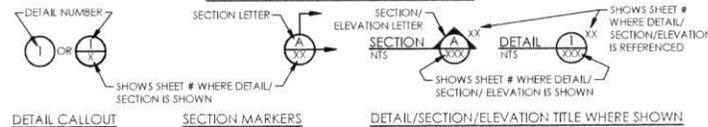
LOCATION MAP
NOT TO SCALE

SHEET INDEX		
NO	DESCRIPTION	SHEET NAME
1	G1.0	TITLE
2	G1.1	LEGEND & NOTES
3	G1.2	SITE SURVEY CONTROL
4	C1.0	DETAILS
5	C1.1	DETAILS
6	C1.2	DETAILS
7	C2.0	SITE PLAN
8	C3.0	WESTHAVEN DR STA 3+50 TO STA 12+00
9	C3.1	WESTHAVEN DR STA 12+00 TO STA 18+80
10	C3.2	WESTHAVEN DR STA 18+80 TO 26+40
11	C3.3	WESTHAVEN DR STA 26+40 TO STA 32+00
12	M1.0	PITLESS BOOSTER PUMP MECHANICAL
13	M1.1	PITLESS BOOSTER PUMP DETAIL
14	E1.0	ELECTRICAL SYMBOLS AND ABBREVIATIONS
15	E1.1	ONE-LINE DIAGRAM
16	E2.0	ELECTRICAL SITE PLAN
17	E2.1	OFFICE POWER PLAN
18	E2.2	BOOSTER PUMP - ELECTRICAL PLAN
19	E3.0	ELECTRICAL DETAILS
20	I1.0	INSTRUMENTATION SYMBOLS AND ABBREVIATIONS
21	I2.0	BOOSTER PUMP STARTER PANEL CONTROL DIAGRAM

PACE ENGINEERING DESIGN TEAM

TOM WARNOCK	PROJECT MANAGER
JESSICA CHANDLER	PROJECT ENGINEER
BRYAN GENTLES	ELECTRICAL ENGINEER
GREG FAY	STAFF ENGINEER

GENERAL INFORMATION



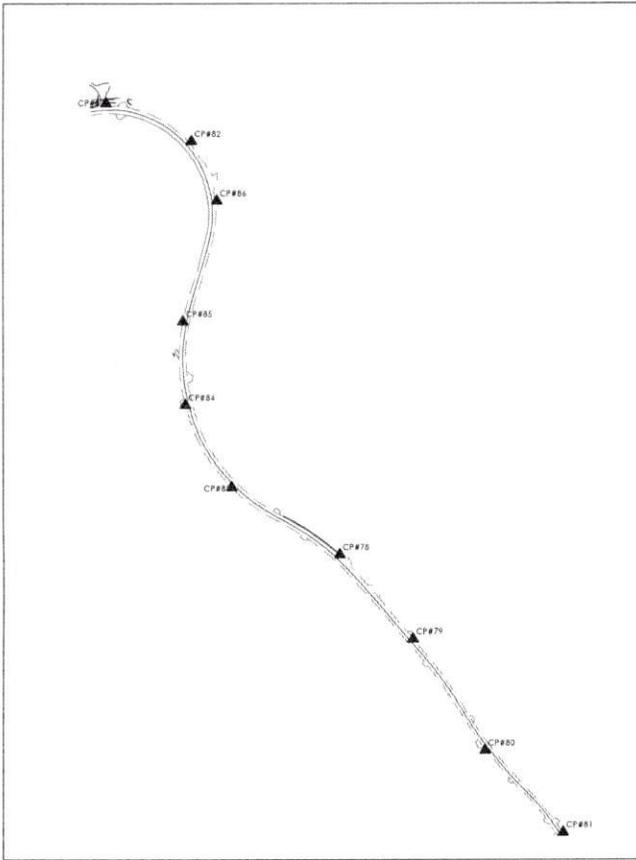
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SHEET
G1.0
PG. 1 OF 21

File Name: C:\Users\jchandler\OneDrive - PACE Engineering\Projects\2023\Trinidad Westhaven\DWG\G1.0.dwg
 Plot Date: 12/4/23 10:52 AM
 Plot Scale: 1:1
 Plot Size: 11x17
 Plot Orientation: Landscape
 Plot Range: All
 Plot Color: Black
 Plot Lineweight: 0.5
 Plot Linetype: Solid
 Plot Font: Arial, 10
 Plot Title: G1.0



REFER TO SHEETS C2.0 THROUGH C3.3 FOR CONTROL POINT (CP) LOCATIONS.

Point Number	Easting	Northing	Elevation	Raw Description
78	5979103.48	2270382.39	343.60	CP_MAGNAIL
79	5979350.38	2270101.36	345.6000	CP_MAGNAIL
80	5979589.86	2269729.37	331.9400	CP_MAG8
81	5979849.21	2269454.72	341.1000	CP_MAG8
82	5978608.00	2271762.64	202.0200	CP_38&FC
83	5978742.21	2270608.60	306.5400	CP_MAG8
84	5978586.64	2270882.22	274.8100	CP_MAGNAIL
85	5978578.62	2271161.70	747.2300	CP_MAG&W
86	5978693.60	2271565.39	209.0400	CP_MAGNAIL
87	5978320.21	2271888.35	209.2900	CP_MAGNAIL

- NOTES:
1. A SURVEY WAS CONDUCTED BY PACE ENGINEERING IN JUNE 2023.
 2. COORDINATE VALUES SHOWN HEREON ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 11, (EPOCH 2017.5).
 3. ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), (GEOID 12B).

CONTROL POINT INFORMATION

90% DRAFT

SEE ONE EACH ON ORIGINAL DRAWING
 SEE ONE EACH ON THE SHEET ADJUST SCALES ACCORDINGLY

REVISIONS	
NO.	DATE

DES: JLC C.E.D.: TWW JOB NO.:
 DWN: GJM DATE: 12/4/23 273303

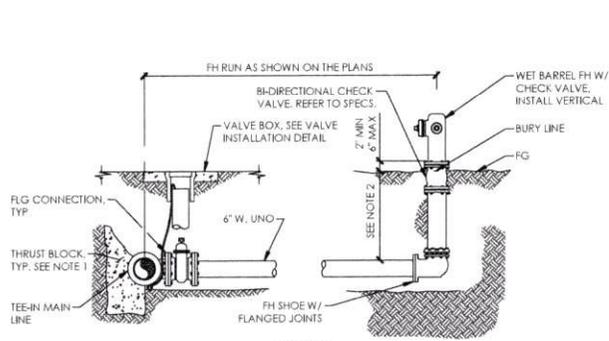
NOT FOR CONSTRUCTION

WESTHAVEN COMMUNITY SERVICES DISTRICT
 TRINIDAD-WESTHAVEN EMERGENCY INTERTIE PROJECT
 SITE SURVEY CONTROL

SHEET
G1.2
 PG. 3 OF 21

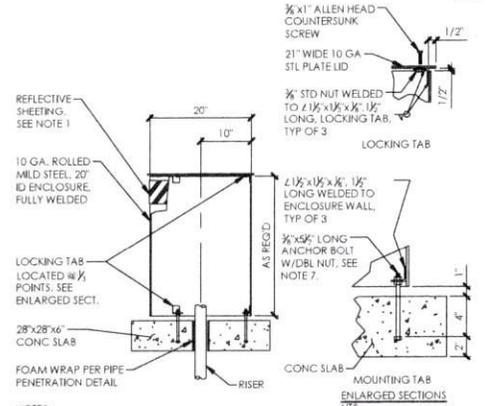
NO DATE: December 8, 2023. SHEET NO. G1.2. NAME: PACE ENGINEERING. PROJECT: TRINIDAD-WESTHAVEN EMERGENCY INTERTIE PROJECT. DRAWING: SITE SURVEY CONTROL. SHEET: G1.2. SCALE: AS SHOWN. DATE: 12/4/23. TIME: 10:00 AM. LOCATION: 1234567890. DRAWN BY: JLC. CHECKED BY: TWW. APPROVED BY: GJM. PLOT DATE: 12/4/23. PLOT TIME: 10:00 AM. PLOT LOCATION: 1234567890.

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 NOV 21 2024
 Humboldt County
 PLANNING



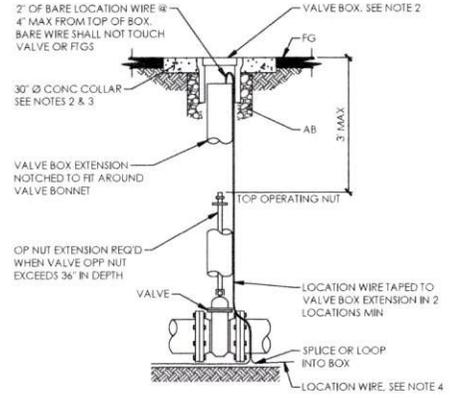
- NOTES:**
1. ALL FH RUNS SHALL BE RESTRAINED FROM MAIN, UNO, THRUST BLOCKS SHALL ONLY BE USED IN CONFIGURATIONS THAT DO NOT ALLOW RESTRAINED FITTINGS. REFER TO THRUST BLOCK DETAILS.
 2. FH BURY DEPTHS VARY DEPENDING ON TOPOGRAPHY FEATURES & (E) UTILITIES. CONTRACTOR SHALL DETERMINE BURY DEPTH OF EACH FH PRIOR TO PROCUREMENT. CONTRACTOR SHALL EXCHANGE FH BARRELS W/ NON-CONFORMING DEPTHS TO OBTAIN THE REQ'D BREAKAWAY. CLEARANCE AT NO COST TO OWNER.
 3. TWO-WAY BLUE REFLECTOR SHALL BE PLACED 1' OFF C/L OR IN LINE WHEN (E) REFLECTORS ARE PRESENT. REFLECTOR SHALL BE LOCATED ON SAME SIDE AS FH, ANCHORED W/ RAPID SET EPOXY & RECESSED AT ELEV ABOVE 500'.
 4. MAINTAIN 3 MIN CLEARANCE ALL AROUND HYDRANT.

TYPICAL WET BARREL FLUSHING HYDRANT INSTALLATION (1) NTS C10



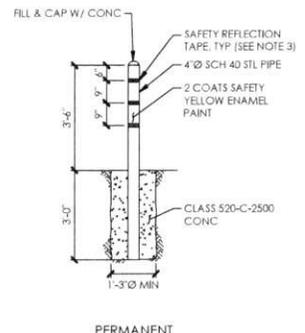
- NOTES:**
1. REFLECTIVE SHEETING SHALL BE INSTALLED @ TOP OF EXTERIOR SIDEWALL. WRAP SHEETING 360° AROUND ENCLOSURE.
 2. ALL ABOVE GRADE PIPING SHALL BE INSULATED.
 3. CAV SHALL BE INSULATED WITH A FLEXIBLE INSULATION COVER.
 4. ALL HARDWARE SHALL BE GALVANIZED.
 5. ALL METAL SURFACES NOT GALVANIZED SHALL BE POWDERCOATED OLIVE GREEN.
 6. BOLTS SHALL BE CAST-IN PLACE OR POST INSTALLED IN SIMPSON SET 36 (ICC REPORT 4057) OR HILTI HA-200 (ICC REPORT 3187) ADHESIVE.

ENCLOSURE DETAIL (4) NTS C15

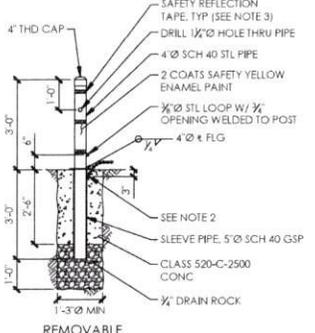


- NOTES:**
1. SEE THRUST BLOCK DETAILS FOR VALVES 8 IN & LARGER.
 2. SET VALVE BOX & COLLAR 1/2 IN BELOW GRADE IN PAVED AREAS & 2 IN ABOVE GRADE IN ALL OTHER LOCATIONS.
 3. CONC COLLAR SHALL BE 12 IN THICK WHERE ANY VEHICULAR TRAFFIC IS EXPECTED & 4 IN THICK IN ALL OTHER LOCATIONS.
 4. REFER TO SPECS FOR LOCATION OF WIRE.

TYPICAL WATER VALVE INSTALLATION (2) NTS C10

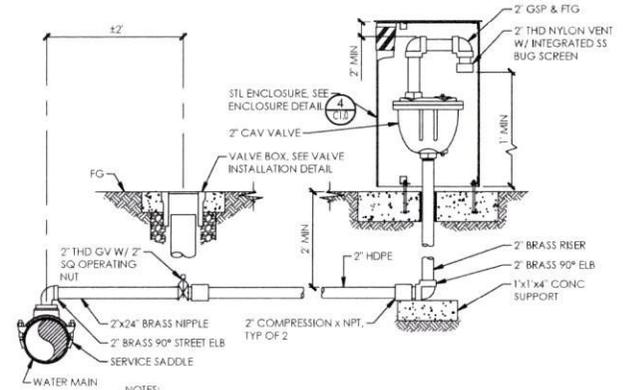


PERMANENT BOLLARD (5) NTS C10



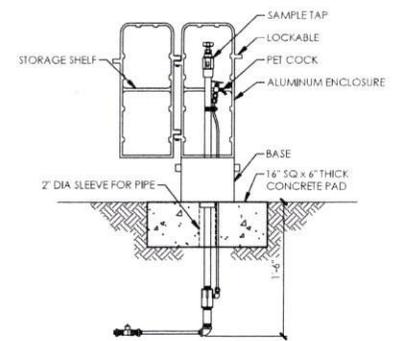
REMOVABLE BOLLARD (5) NTS C10

- NOTES:**
1. PERMANENT BOLLARDS SHALL BE INSTALLED, UNO.
 2. HARD-TEMPERED ZINC PLATED STL CHAIN, 12\"/>



- NOTES:**
1. PIPELINE FROM SERVICE SADDLE TO AIR VALVE SHALL HAVE A POSITIVE SLOPE.
 2. INSTALL A MINIMUM OF 2 BOLLARDS AROUND EVERY CAV, UNO.

CAV DETAIL (3) NTS C10



- NOTES:**
1. FIXED BACTERIOLOGICAL SAMPLING STATIONS ARE REQUIRED BY CALIFORNIA WATERWORKS STANDARDS, TITLE 22. THE ESTABLISHMENT OF REPRESENTATIVE SAMPLE POINTS IS ESSENTIAL TO ASSURE THAT THE SAMPLING RESULTS FOUND ARE GIVING A TRUE INDICATION OF THE BACTERIOLOGICAL QUALITY OF THE WATER SUPPLIED THROUGHOUT THE DISTRIBUTION SYSTEM.

SAMPLE STATION (6) NTS C10

90% DRAFT

BARB OR BENCH ON ORIGINAL DRAWING
 IF NOT ONE BENCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS	
NO.	DESCRIPTION

PACE ENGINEERING

DES: J.C. CED: T.W. JOB NO:
 DRN: SHAF. DATE: 12/2/23 2778.00

SIGNED: PRELIMINARY FOR CONSTRUCTION

WESTHAVEN COMMUNITY SERVICES DISTRICT
 TRINIDAD-WESTHAVEN EMERGENCY INTERTIE PROJECT

DETAILS

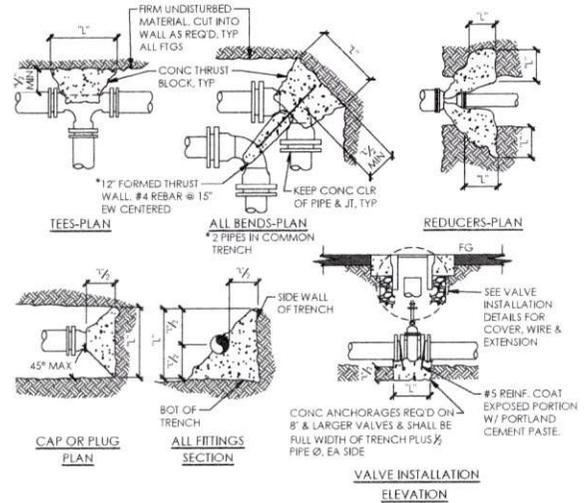
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 PG 4 OF 21

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 P:\DWG - December 18, 2023 10:41 AM - 13871 Name: PWF

APPROVED

MAY 21 2024

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NOTES:

- THRUST BLOCKS SHALL BE PROVIDED @ ALL BURIED PIPE FTGS OF 4 IN Ø OR LARGER. UNO, THRUST BLOCK SIZE IS BASED ON PIPE SIZE, 150 PSI TEST PRESSURE, & SOIL BEARING OF 1200 LB/FT². DIM "L" IN TABLE 1 IS BOTH A VERT & HORIZ DIM, UNO, IF PIPE COVER IS LESS THAN 30 IN, INCREASE HORIZ "L" PROPORTIONALLY (I.E., INCREASED HORIZ "L" = (30"/DEPTH) x "L").
- USE OF RESTRAINED FTG IN LIEU OF THRUST BLOCK MAY REQUIRE PIPE JTS TO BE RESTRAINED UP & DOWNSTREAM OF FTG, WHERE CONTR PROPOSES TO USE A RESTRAINED FTG IN LIEU OF A THRUST BLOCK, CONTR SHALL COORDINATE W/ ENGINEER TO DETERMINE NUMBER OF PIPE JTS TO BE RESTRAINED.
- THRUST BLOCKS SHALL BE INSTALLED IN PRESENCE OF OWNER OR THEIR REPRESENTATIVE.

THRUST BLOCK DETAILS
NTS (1) (1)

TABLE 1
STD THRUST BLOCK MIN DIM "L" IN INCHES

NOMINAL PIPE Ø INCHES	FTGS						
	TEE, WYE, OR PLUG	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	REDUCER (BASED ON LARGEST Ø)	VALVE
4"	18	22	16	11	8	—	—
6"	26	31	23	16	12	—	—
8"	34	41	30	21	15	17	12
10"	42	50	37	26	19	21	12
12"	50	59	44	31	22	25	16
14"	58	68	50	36	26	30	16
16"	66	78	57	41	29	33	18
18"	73	87	64	46	33	37	18
20"	81	97	71	51	36	41	REQUIRES SPECIAL DESIGN
24"	97	115	85	61	43	49	REQUIRES SPECIAL DESIGN

NOTES:
1. INCREASE ALL DIMS IN TABLE 1 BY 10% TO ALLOW FOR INCREASE IN PRESSURE TO 175 PSI.

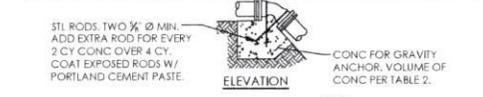
TABLE 2
VERT FTG THRUST BLOCKS

WHERE VERT BENDS ARE DIRECTED W/ THRUST TOWARD BOT OF THE TRENCH, BENDS SHALL HAVE THRUST BLOCKS PER HORIZ BENDS EXCEPT CONC SHALL BEAR AGAINST TRENCH BOT.

WHERE VERT BENDS ARE DIRECTED W/ THRUST TOWARD TOP OF TRENCH, BENDS SHALL BE INSTALLED PER THE FOLLOWING DETAIL. MIN ROD EMBED SHALL BE 30" FOR 12" & SMALLER PIPE & 36" FOR 14" & LARGER PIPE.

CY CONC FOR VERT FTGS (SEE DETAIL BELOW)

BEND ANGLE	PIPE Ø						
	4"	6"	8"	10"	12"	14"	16" & OVER
11 1/4°	0.2	0.4	0.7	1.1	1.5	2.0	—
22 1/2°	0.4	0.8	1.4	2.1	3.0	4.0	—
45°	0.8	1.6	2.8	4.2	5.9	7.9	REQUIRES SPECIAL DESIGN
90°	1.4	3.0	5.1	7.7	10.9	14.6	REQUIRES SPECIAL DESIGN



THRUST BLOCK TABLES
NTS (2) (1)

TABLE 3

SIZE	PIPE FITTING	MIN. RESTRAINED PIPE LENGTH (FT)
10"	TEE	6
10"	90° ELB	30
10"	45° ELB	13
10"	11.25° ELB	5
10"x6"	TEE	5
8"	TEE	5
8"	90° ELB	25
8"	45° ELB	11
8"	11.25° ELB	5
8"	CAP	80
8"x4"	TEE	5
8"x4"	TEE	5
6"	TEE	5
6"	90° ELB	19
6"	45° ELB	8
6"	11.25° ELB	5
6"	CAP	60
6"x4"	TEE	5
4"	TEE	5
4"	90° ELB	14
4"	45° ELB	6
4"	11.25° ELB	5
4"	CAP	45

NOTE:

- TEST PRESSURE = 150 PSI.
- DEPTH OF BURY = 3 FT.
- TEE RESTRAINT LENGTH VALUES REFLECT THE LENGTH OF PIPE ALONG THE BRANCH WHERE ALL FITTINGS AND JOINTS SHALL BE RESTRAINED. THE RESTRAINT LENGTH ALONG THE BRANCH WAS CALCULATED ASSUMING 10 LF OF RESTRAINED JOINTS EACH WAY ALONG THE PIPE RUN, UNO, RESTRAINED PIPE LENGTH ALONG THE BRANCH WILL CHANGE AS RESTRAINED LENGTH ALONG THE PIPE RUN CHANGES. CONTRACTOR SHALL SUBMIT CALCULATIONS TO ENGINEER FOR APPROVAL IF RESTRAINED PIPE LENGTH ALONG THE RUN IS GREATER THAN OR LESS THAN 10 LF.

RESTRAINT LENGTH TABLES FOR PIPE JOINTS AND FITTINGS
NTS (3) (1)

TABLE 4

SIZE	MINIMUM BEND RADIUS, R (FT)	MAXIMUM END OFFSET, Z (FT)
4"	150	1.3
6"	215	0.9
8"	285	0.6
10"	350	0.5

PVC ALLOWABLE BENDING RADIUS 20' LENGTHS
NTS (4) (1)

90% DRAFT

BAR CHECKED ON ORIGINAL DRAWING BY: _____

IF NOT CHECKED ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS		
NO.	DATE	DESCRIPTION



DES: J.C. CKD: T.W.W. JOB NO: _____
DWN: G.A.F. DATE: 12/4/23 297303

SIGNED: _____
PRELIMINARY NOT FOR CONSTRUCTION

WESTHAVEN COMMUNITY SERVICES DISTRICT
TRINIDAD-WESTHAVEN EMERGENCY INTERTIE PROJECT

DETAILS

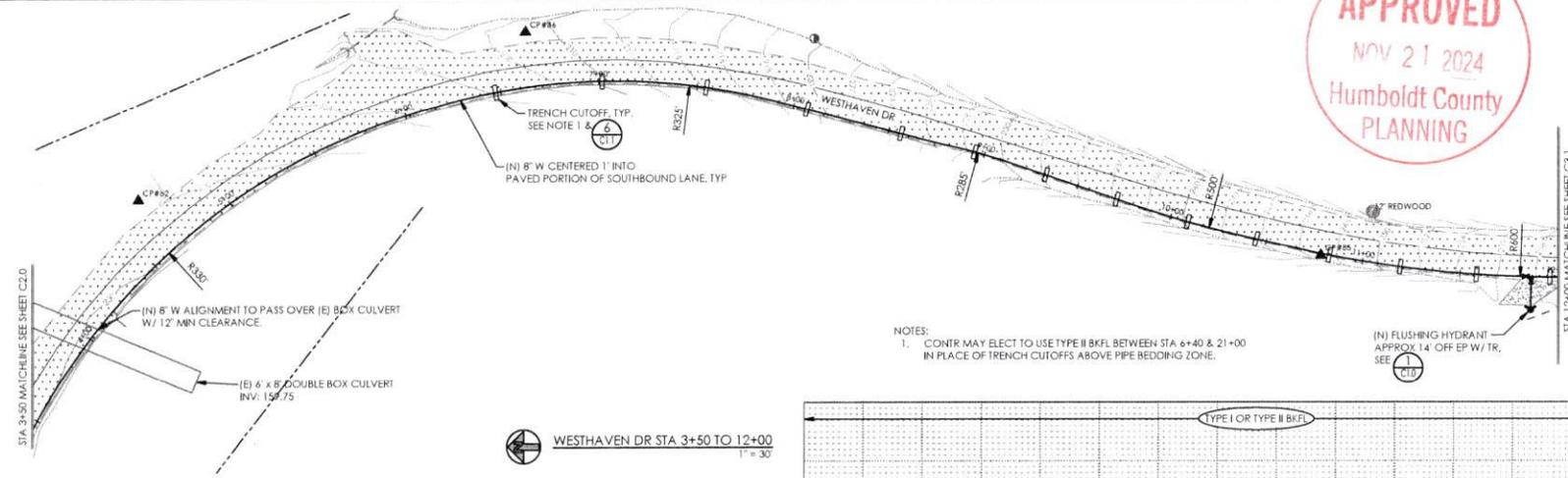
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PG 6 OF 21

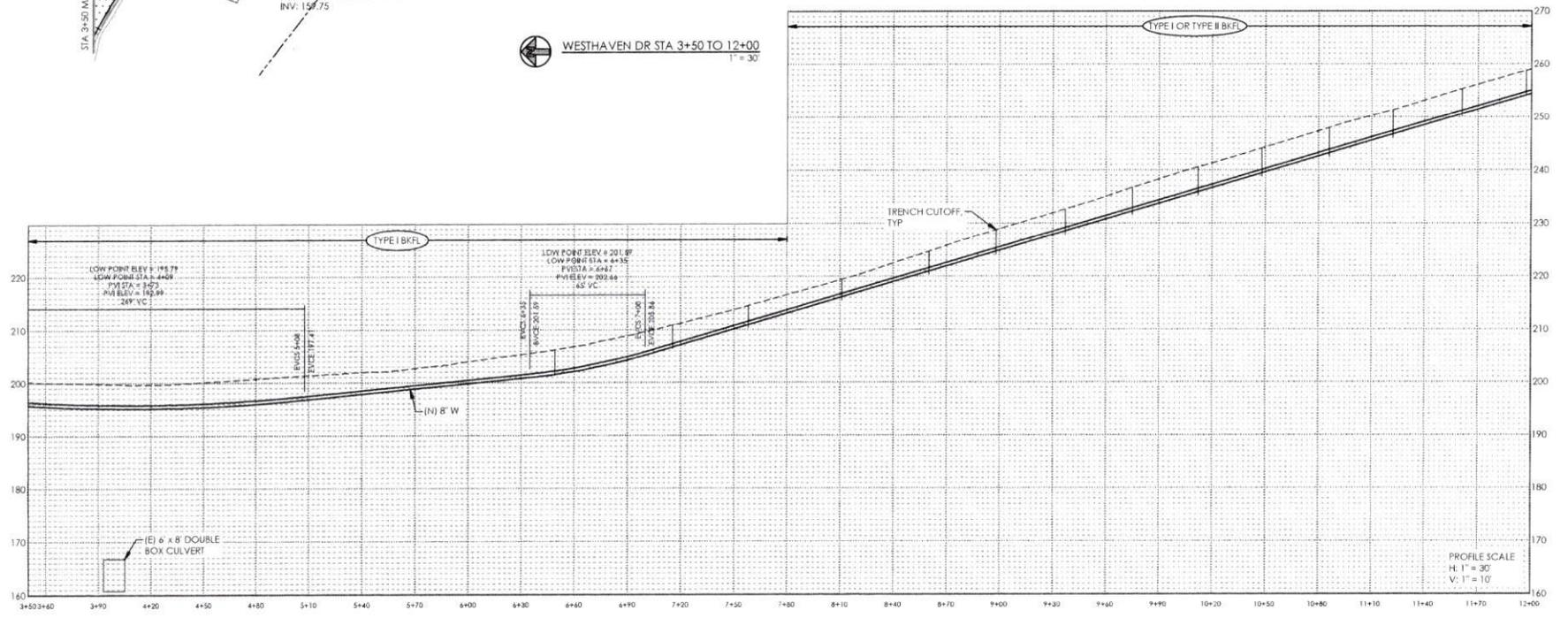
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NOTES:
 1. CONTR MAY ELECT TO USE TYPE II BKFL BETWEEN STA 6+40 & 21+00 IN PLACE OF TRENCH CUTOFFS ABOVE PIPE BEDDING ZONE.

WESTHAVEN DR STA 3+50 TO 12+00
 1" = 30'



90% DRAFT

BASED ON RECORD DRAWING NO. [REDACTED]
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REVISIONS	
NO.	DESCRIPTION



DES: A.C. CWD: T.Y.W. JOB NO. [REDACTED]
 DWN: G.A.F. DATE: 12/12/23 2273101

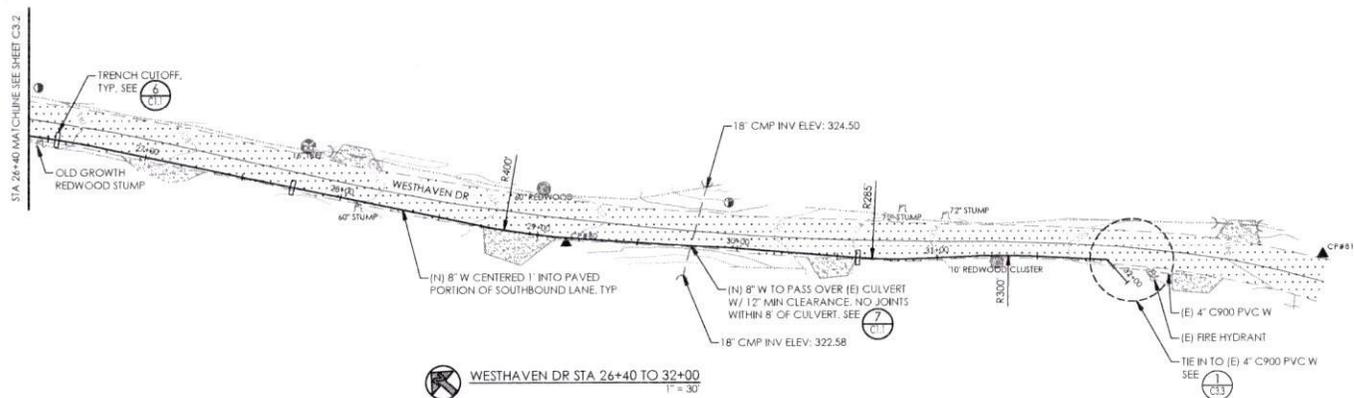
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WESTHAVEN COMMUNITY SERVICES DISTRICT
 TRINIDAD-WESTHAVEN EMERGENCY INERTIE PROJECT
 WESTHAVEN DR STA 3+50 TO STA 12+00

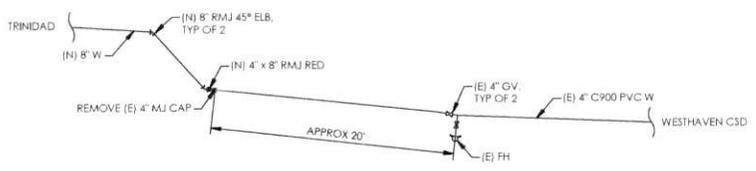
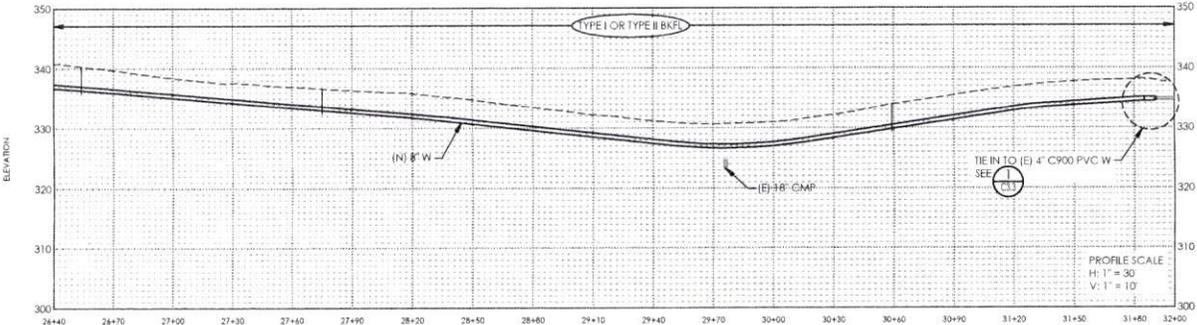
SHEET
C3.0
 PG 8 OF 21

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WESTHAVEN DR STA 26+40 TO 32+00
 1" = 30'



CONNECTION DETAIL
 NIS 1 C33

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REVISIONS	
NO.	DESCRIPTION



DES: A/C CKD: T/WW JOB NO: 287338
 DRN: GAF DATE: 12/14/23

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WESTHAVEN COMMUNITY SERVICES DISTRICT
 TRINIDAD-WESTHAVEN EMERGENCY INTERTIE PROJECT
 WESTHAVEN DR STA 26+40 TO STA 32+00

SHEET
C3.3
 PG 11 OF 21

DATE PLOTTED: 11/25/2024 10:58 AM
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ELECTRICAL SYMBOLS				
TICK MARKS, LINE TYPES AND SYMBOLS	---	CONDUIT EXPOSED		
	----	CONDUIT CONCEALED OR BURIED		
	- - - -	INDICATES FIRE RATED WALL		
	○	CONDUIT UP		
	○	CONDUIT DOWN		
	→	HOME RUN DESTINATION SHOWN		
	■	TICK MARKS W/BARS INDICATES NUMBER OF #10 CONDUCTORS WITH #10 GROUND		
	■	TICK MARKS WITHOUT BARS INDICATES NUMBER OF #12 CONDUCTORS WITH #12 GROUND		
	⌈	"L" INDICATES 0-10V DIMMING CABLE "50" INDICATES CAT5E CABLE "CL" INDICATES 0-10V DIMMING AND COLOR TUNING CABLE		
	⊕	JUNCTION BOX		
DEVICES, BOXES AND TERMINATIONS	⊕	CONNECTION POINT (CONTRACTOR SHALL DETERMINE CONNECTION CONFIGURATION)		
	⊕	LOW VOLTAGE DEVICE BOX		
	⊕	DUPLEX RECEPTACLE		
	⊕	QUADRUPLUX RECEPTACLE		
	⊕	EMERGENCY RECEPTACLE		
	⊕	CONTROLLED SPLIT DUPLEX RECEPTACLE, (1) DUPLEX RECEPTACLE		
	⊕	QUADRUPLUX RECEPTACLE, (1) CONTROLLED SPLIT DUPLEX RECEPTACLE, (1) DUPLEX RECEPTACLE		
	⊕	SINGLE OR THREE PHASE RECEPTACLE, SEE PLAN SHEETS TYPE PER LOCATION		
	⊕	FLOOR BOX		
	⊕	HAND HOLE		
EQUIPMENT	⊕	PULLBOX		
	⊕	MAGNETIC STARTER W/ NEMA SIZE INDICATED		
	⊕	FUSED DISCONNECT	XXX/XXX XX	40A/20F WF NEMA 3R
	⊕	NON-FUSED DISCONNECT	XX XX	40A/20F WF NEMA 3R
	⊕	MAJOR ELECTRICAL COMPONENT OR DEVICE NAME OR IDENTIFYING SYMBOL AS SHOWN		
	⊕	SURFACE MOUNT PANELBOARD		
	⊕	FLUSH MOUNT PANELBOARD		
	⊕	EXOTHERMIC WELD, TERMINATION OR SPLICE POINT		
	⊕	GROUND ROD		
	⊕	GROUNDING ELECTRODE		
ANNOTATION	⊕	CIRCUIT BREAKER		
	⊕	CURRENT TRANSFORMER, NUMBER INDICATED		
	⊕	KEYNOTE		
	(A - B)	INDICATES INTERCONNECTION OF PATHWAYS AND/OR CONDUCTORS, E.G., 4C-4#500) #3C (MSB - PNL A) INDICATES CONDUIT AND CONDUCTORS ROUTED FROM THE MAIN SWITCHBOARD TO PANELBOARD A.		
	24.00.00	SPECIFICATION NUMBER REFERENCE TAG. CONFORMANCE TO PROJECT SPECIFICATIONS IS REQUIRED WHERE TAGS ARE SHOWN ON THE DRAWINGS. IT IS THE ENGINEER'S INTENT TO RAISE ADDITIONAL AWARENESS TO PRODUCTS OR EXECUTION METHODS THAT ARE CRITICAL, ATYPICAL OR NOT EXPRESSLY DETAILED ON THE DRAWINGS.		
	NOTE: THIS IS A SUPPLEMENTAL STANDARD ELECTRICAL LEGEND. SOME SYMBOLS MAY APPEAR ON THIS LEGEND AND NOT ON THE PLAN. SEE LIGHTING CONTROL SHEET FOR LIGHTING LEGEND.			

ELECTRICAL ABBREVIATIONS	
A	- AMMETER, AMPERE
AC	- ALTERNATING CURRENT
ACH	- ABOVE COUNTER HEIGHT
AFCI	- ARC FAULT CIRCUIT INTERRUPT
AFI	- ABOVE FINISHED FLOOR OR GRADE
AFC	- AMP INTERRUPTING CAPACITY
AL	- ALUMINUM
ATS	- AUTOMATIC TRANSFER SWITCH
BGS	- BUILDING GROUND ELECTRODE SYSTEM
BRKR	- BREAKER
ROD	- BOTTOM OF DEVICE
C or COND	- CONDUIT
CAB	- CABINET
CEC	- CALIFORNIA ELECTRIC CODE
CKT	- CIRCUIT
COD	- CENTER OF DEVICE
CR	- CONTROLLED RECEPTACLE
CT	- CURRENT TRANSFORMER
DC	- DIRECT CURRENT
(E) or EXIST	- EXISTING
FER	- EQUIPMENT EMERGENCY BRANCH
EEOR	- ELECTRICAL ENGINEER OF RECORD
EGC	- EQUIPMENT GROUNDING CONDUCTOR
ENC	- ENCLOSURE
FI	- FUTURE
GE	- EQUIPMENT GROUNDING CONDUCTOR
GEC	- GROUNDING ELECTRODE CONDUCTOR
GFCI	- GROUND FAULT CIRCUIT INTERRUPT
GND	- GROUND
J	- JUNCTION BOX
LCP	- LIGHTING CONTROL PANEL
LIG	- LIGHTING
MBJ	- MAIN BONDING JUMPER
MCB	- MAIN CIRCUIT BREAKER
MFB	- MANUFACTURER
MLO	- MAIN LUG ONLY
MOCF	- MAIN OUTFLET OVERCURRENT PROTECTION
MSB	- MAIN SWITCH BOARD
MTS	- MANUAL TRANSFER SWITCH
NEC	- NATIONAL ELECTRIC CODE
NEMA	- NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
N	- NEUTRAL
NEW	- NEW
OFCI	- OWNER FURNISHED, CONTRACTOR INSTALLED
OFOR	- OWNER FURNISHED, OWNER INSTALLED
PB	- PULLBOX
PNL	- PANELBOARD
RCP	- RECEPTACLE
SWBD	- SWITCHBOARD
SB	- SYSTEM BONDING JUMPER
SBJ	- SUPPLY SIDE BONDING JUMPER
SP	- STARTER PANEL
T	- THERMOSTAT OR TEE CONDUIT
TOD	- TOP OF DEVICE
TW	- TAMPER
TYF	- TYPICAL
V	- VOLT/METER, VOLT
W	- WATT
WW	- WIREWAY
WP	- WEATHERPROOF (NEMA 3R)
WTR	- TRANSFORMER

NOTE: THIS IS A SUPPLEMENTAL STANDARD LEGEND. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS LEGEND AND NOT ON THE PLAN.

COMPLY WITH APPLICABLE CODES	
#	CODE
NOTE: USE LATEST EDITION OF LISTED CODES.	
1	NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS
2	NFPA 37 STATIONARY ENGINES
3	NFPA 54 FUEL GAS CODE
4	NFPA 58 LIQUEFIED PETROLEUM GAS
5	NFPA 72 FIRE ALARM AND SIGNALING CODE
6	NFPA 110 EMERGENCY AND STANDBY POWER
7	NFPA 111 STANDBY POWER SYSTEMS
8	CALIFORNIA BUILDING CODE
9	CALIFORNIA ELECTRIC CODE
10	CALIFORNIA ENERGY CODE
11	CALIFORNIA FIRE CODE



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REVISIONS		
NO.	DATE	DESCRIPTION

PACE ENGINEERING

DES: JMM CHD: BOE JOB NO: 2072.03
 DRN: JMM DATE: 11/16/23

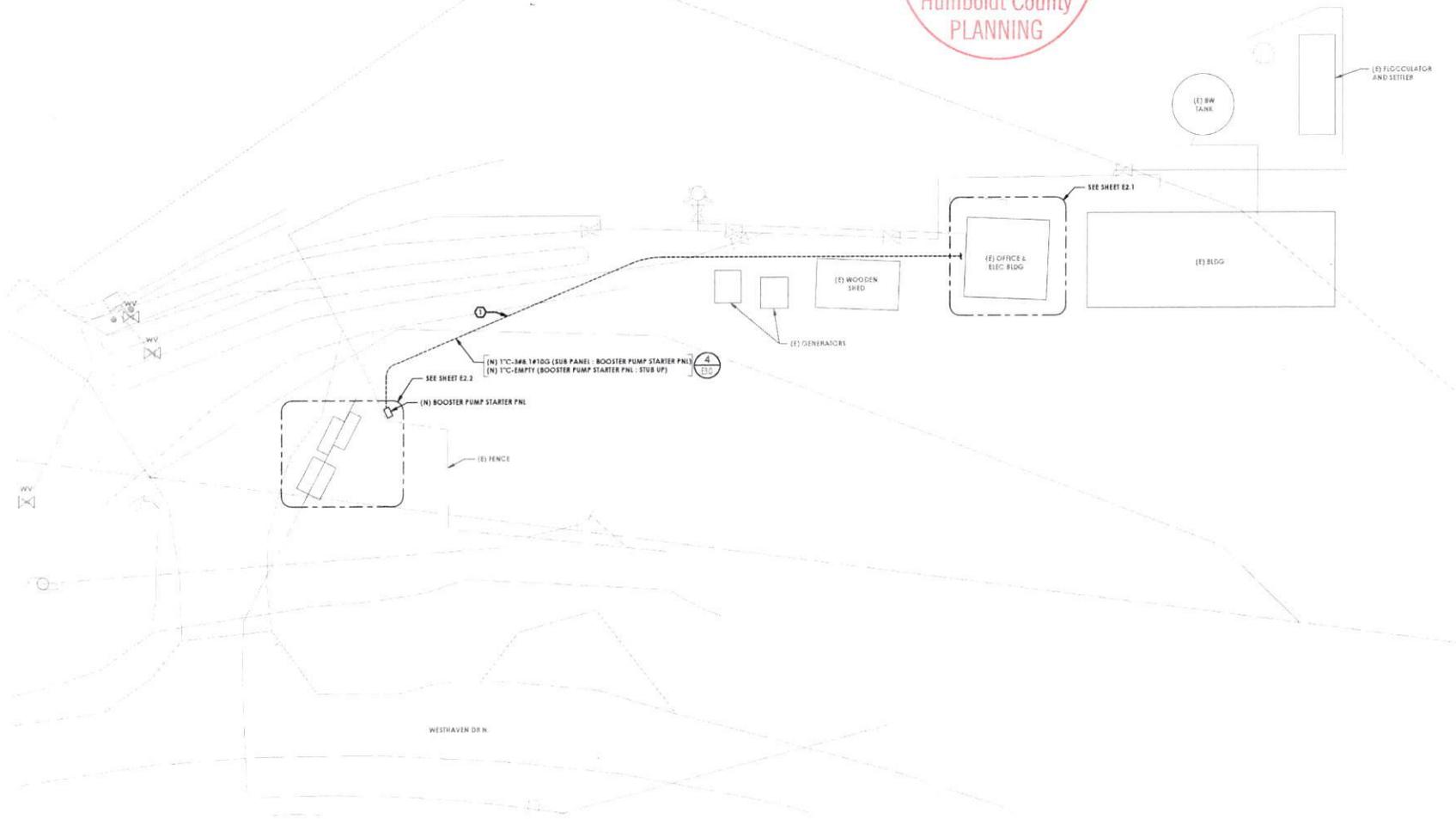
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 Trinidad-Westhaven Emergency Intertie Project
ELECTRICAL SYMBOLS AND ABBREVIATIONS

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KEYNOTES
NOTE
1. CONTRACTOR SHALL FORTHOLE ENTIRE ALIGNMENT TO FIND EXISTING UTILITIES.



ELECTRICAL SITE PLAN
 1" = 10'-0"

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DATE OF THE 90% DRAFT ORIGINAL DRAWING: [Redacted]
 IF FOR ONE FOOT ON THIS SHEET, AS SHOWN IN THE COORDINATES.

REVISIONS	
NO.	DATE

PACE ENGINEERING

DES: JME CKD: BGE JOB NO: [Redacted]
 DRN: JME DATE: 11/16/23 202303

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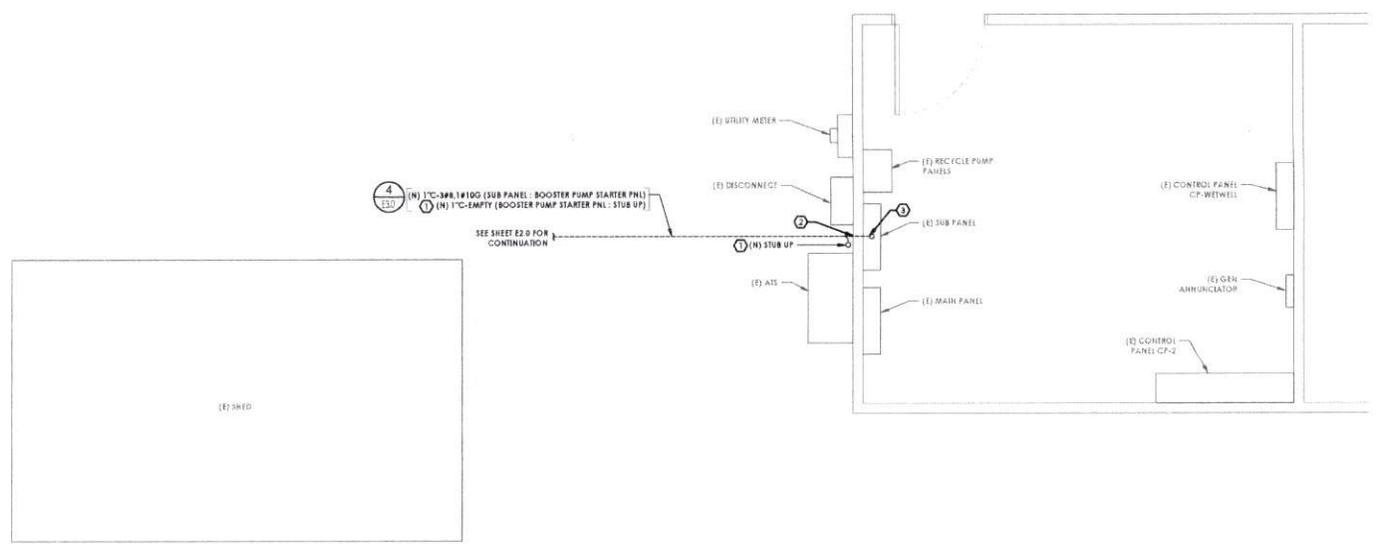
Westhaven Community Services District
 Trinidad-Westhaven Emergency Intertie Project
 ELECTRICAL SITE PLAN

SHEET
E2.0
 PG. 16 OF 21

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- KEYNOTES**
- NOTE
1. STUB CONDUIT 1'-0" ABOVE GRADE ON THE OUTSIDE OF THE BUILDING IN THE LOCATION SHOWN. PROVIDE AND INSTALL GALVANIZED HUBBET AND CONDUIT CLAMP AT A MINIMUM OF ONE LOCATION TO SUPPORT CONDUIT. AFTER INSTALLATION, CAP CONDUIT FOR FUTURE USE.
 2. PROVIDE AND INSTALL CONDUIT/CONDUCTORS FROM SUB PANEL TO THE LOCATION SHOWN ON THE EXTERIOR OF THE BUILDING. PENETRATE WALL AT MAXIMUM 2" AFF. USING AN LB CONDULET. SUPPORT AT A MINIMUM OF TWO LOCATIONS UTILIZING GALVANIZED HUBBET AND CONDUIT CLAMPS. PAINT SURROUNDING WALL TO MATCH EXISTING AND SEAL PENETRATION WITH APPROVED SEALANT OR CAULK.
 3. PROVIDE AND INSTALL APPROVED CONDUIT SEALING BUSHING AT LOCATION SHOWN.

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OFFICE POWER PLAN 1
 1/2" = 1'-0" (E)

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NO.	DATE	DESCRIPTION

PACE ENGINEERING

DES: JIM CKD: BG# JOB NO: 2723.03
 DRN: JIM DATE: 11/16/23

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Westhaven Community Services District
 Trinidad-Westhaven Emergency Intertie Project
 OFFICE POWER PLAN

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INSTRUMENTATION SYMBOLS	
	CONDUIT EXPOSED
	CONDUIT CONCEALED OR BURIED
	MOTOR, HORSEPOWER INDICATED
	CONVENIENCE RECEPTACLE, DUPLEX UNLESS SPECIFIED OTHERWISE
	NEMA 3P CONDUIT, SIZE INDICATED 3-POLE UNLESS INDICATED OTHERWISE
	FUSED DISCONNECT, SIZE INDICATED (40/40, 40/30 SWITCH RATING; 40-FUSE RATING) 3-POLE UNLESS INDICATED OTHERWISE
	STARTER MAGNETIC, NEMA SIZE INDICATED
	COMBINATION MAGNETIC STARTER, NEMA SIZE INDICATED
	CONTACT-NORMALLY OPEN W/ NEMA SIZE INDICATED AS APPLICABLE
	CONTACT-NORMALLY CLOSED W/ NEMA SIZE INDICATED AS APPLICABLE
	TIME DELAY RELAY CONTACT, TIMED TO CLOSE
	TIME DELAY RELAY CONTACT, TIMED TO OPEN
	REMOTE DEVICE
	RELAY COIL, C/F=C CONTROL RELAY, TDR=TIME DELAY RELAY
	OVERLOAD RELAY, ELECTRONIC
	MAGNETIC STARTER W/ NEMA SIZE INDICATED
	CIRCUIT BREAKER, MAGNETIC TRIP ONLY, FRAME SIZE SHOWN, 3-POLE UNLESS INDICATED OTHERWISE
	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3-POLE UNLESS INDICATED OTHERWISE
	SWITCH-CURRENT RATING INDICATED, 3-POLE UNLESS INDICATED OTHERWISE
	LIGHTNING ARRESTOR
	FUSE
	GROUNDING SHIELD CONNECTION
	GROUND
	TRANSFORMER, SECONDARY VOLTAGES, PHASE AND RATING INDICATED AS APPLICABLE
	PUSH BUTTON SWITCH, NORMALLY OPEN
	PUSH BUTTON SWITCH, NORMALLY CLOSED
	PUSH-TO-TEST INDICATING LIGHT / LETTER INDICATES COLOR: A-AMBER, B-BLUE, C-CLEAR, G-GREEN, R-RED, W-WHITE
	SELECTOR SWITCH-MAINTAINED CONTACT: X=CLOSED, C CONTACT POSITION
	MOTOR SPACE HEATER
	FLOW SWITCH OPENS ON INCREASE IN FLOW
	FLOW SWITCH CLOSURES ON INCREASE IN FLOW
	FLOAT SWITCH OPENS ON RISING LEVEL
	FLOAT SWITCH CLOSURES ON RISING LEVEL
	PRESSURE OR VACUUM SWITCH OPENS ON RISING PRESSURE
	PRESSURE OR VACUUM SWITCH CLOSURES ON RISING PRESSURE
	TEMPERATURE SWITCH OPENS ON RISING TEMPERATURE
	TEMPERATURE SWITCH CLOSURES ON RISING TEMPERATURE
	RTU/PLC DISCRETE OUTPUT
	RTU/PLC DISCRETE INPUT
	ELECTRICALLY OPERATED VALVE S-SOLENOID M-MOTORIZED
	ELECTRICALLY OPERATED 3-WAY VALVE S-SOLENOID M-MOTORIZED
	MOTOR
	FLOW TRANSMITTER
	LEVEL TRANSMITTER, RANGE INDICATED

NOTE:
1. THIS IS A SUPPLEMENTAL STANDARD INSTRUMENTATION LEGEND. SOME SYMBOLS MAY APPEAR ON THIS LEGEND AND NOT ON THE PLANS.

INSTRUMENTATION ABBREVIATIONS	
A	- AMMETER, AMPERE
AC	- ALTERNATING CURRENT
ACC	- ANALYZER INDICATING CONTROLLER
AB	- AIR OR AIR COMPRESSOR
AT	- ANALYZER INDICATING TRANSMITTER
B	- BLENDER
B/CV/S	- SOLENOID BUTTERFLY CONTROL VALVE
BV/M	- MOTORIZED BUTTERFLY CONTROL VALVE
BV/P	- PNEUMATIC BUTTERFLY CONTROL VALVE
BV	- BALL VALVE
BV/M	- MOTORIZED BALL VALVE
BV/S	- SOLENOID BALL VALVE
BW	- BACKWASH
C	- CONTACTOR/CIRCUIT
CB	- CIRCUIT BREAKER
CBL	- CABLE
CCT	- CIRCUIT
COMP	- COMPRESSOR
CON	- CONVEYOR
CND	- CONDUIT
CP	- CONTROL PANEL
CPS	- CONTROL PANEL TRANSFORMER
CR	- CONTROL RELAY
DC	- DIRECT CURRENT
DI	- DIGITAL INPUT
DO	- DISSOLVED OXYGEN OR DIGITAL OUTPUT
DPT	- DIFFERENTIAL PRESSURE TRANSMITTER
DS	- DOOR SWITCH
EX or EXST	- EXISTING
EF	- EXHAUST FAN
ENC	- ENCLOSURE
ETM	- ELAPSED TIME METER
F	- FAN
FT	- FLOW INDICATING TRANSMITTER
FS	- FLOW SWITCH
FU	- FUSE
G	- GROUND
GFI	- GROUND FAULT CIRCUIT INTERRUPT
H	- HEATER OR HEAT TRACE
HS	- HAND SWITCH
L	- LINE POWER
LA	- LIGHTNING ARRESTOR
LS	- LEVEL SWITCH OR LINE SWITCH
LI	- LEVEL INDICATING TRANSMITTER
M	- MOTOR OR FLOW METER ELEMENT
MCC	- MOTOR CONTROL CENTER
MFR	- MANUFACTURER
N	- NEUTRAL
NA	- NON-AUTOMATIC
NEC	- NATIONAL ELECTRIC CODE
NEMA	- NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
OIF	- OPERATOR INTERFACE TERMINAL
OL	- OVERLOAD RELAY
P	- PUMP
PB	- PULL BOX
PI	- PRESSURE INDICATING TRANSMITTER
PLC	- PROGRAMMABLE LOGIC CONTROLLER
PLD	- PANELBOARD
PS	- PRESSURE SWITCH
PV/M	- MOTORIZED PLUG VALVE
QL	- INDICATING LIGHT
RECEPT	- RECEPTACLE
RTU	- REMOTE TELEMETRY UNIT
RW	- RECYCLE WATER
SPD	- SURGE PROTECTION DEVICE
S/V	- SOLENOID VALVE
SW	- SWITCH
TDR	- TELE CONDUIT OR TURBIDIMETER
TR	- TIME DELAY RELAY
TS	- THERMOSTAT OR TEMPERATURE SWITCH
TI	- TEMPERATURE INDICATING TRANSMITTER
TYP	- TYPICAL
UH	- UNIT HEATER
UT	- ULTRASONIC TRANSMITTANCE TRANSMITTER
UPS	- UNINTERRUPTIBLE POWER SUPPLY
UV	- ULTRAVIOLET
UVT	- ULTRASONIC TRANSMITTANCE
V	- VOLTAGE, VOLTS
VFD	- VARIABLE FREQUENCY DRIVE
VIT	- VACUUM INDICATING TRANSMITTER
W	- WATER
WT	- WEIGHT INDICATING TRANSMITTER
WP	- WEATHERPROOF (NEMA 4)
XFRM	- TRANSFORMER
XS	- EXISTING SWITCH

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

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REVISIONS		
NO.	DATE	DESCRIPTION

DES: JME CKD: BGM JOB NO.:
 DRN: JME DATE: 11/16/22 2273-02

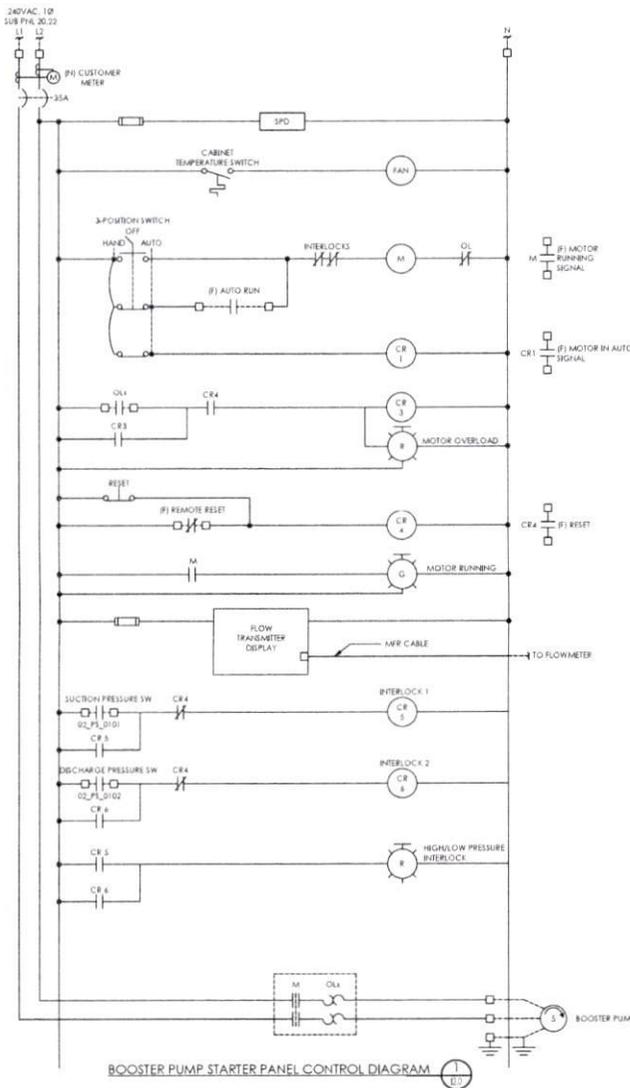
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 Trinidad-Westhaven Emergency Interfile Project
**INSTRUMENTATION SYMBOLS AND
 ABBREVIATIONS**

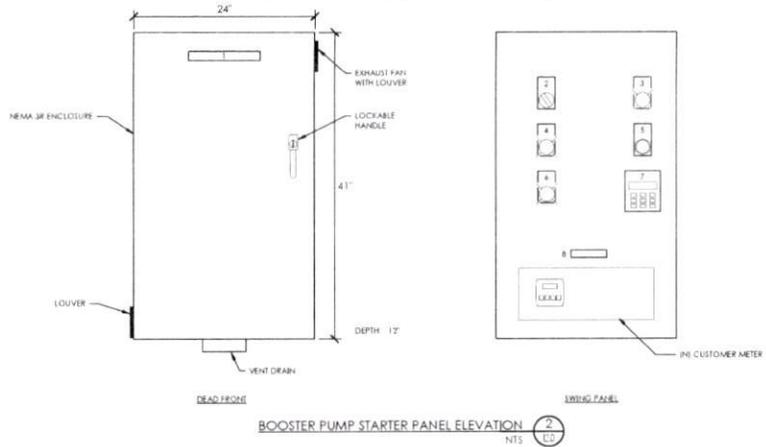
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NAMEPLATE SCHEDULE		
ITEM	DEVICE	NAMEPLATE/INSCRIPTION
1	NAMEPLATE	BOOSTER PUMP STARTER PNL
2	3 POSITION SWITCH	MOTOR CONTROL HAND - OFF - (P) AUTO
3	INDICATOR LIGHT	MOTOR RUNNING
4	INDICATOR LIGHT	MOTOR OVERLOAD
5	PUSH BUTTON	ALARM RESET
6	INDICATOR LIGHT	HIGH/LOW PRESSURE INTERLOCK
7	REMOTE FLOW TRANSMITTER	INTERIE FLOW
8	ELECTRICAL POWER METER	INTERIE POWER METER



BOOSTER PUMP STARTER PANEL CONTROL DIAGRAM

BOOSTER PUMP STARTER PANEL ELEVATION

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BASED ON: CHECK ON ORIGINAL DRAWING
 IF FOR ONE FROM ORIGINAL CHECK REVISIONS CORRECT ACCORDINGLY

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PACE ENGINEERING

DES: JIM CKD: BGE JOB NO: 247389
 DWN: JMS DATE: 11/18/23

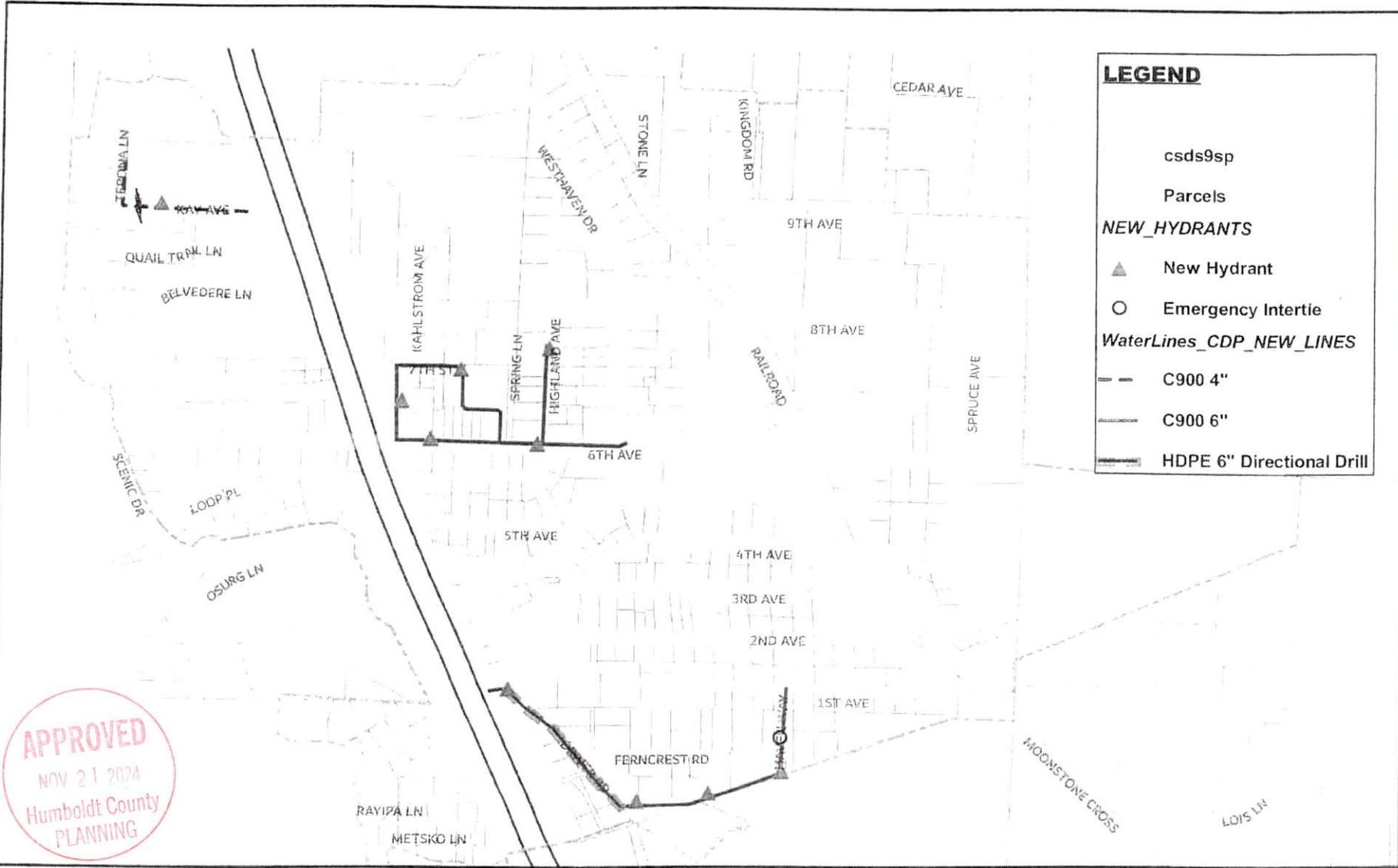
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 Trinidad-Westhaven Emergency Intertie Project
**BOOSTER PUMP STARTER PANEL CONTROL
 DIAGRAM**

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LEGEND

- csds9sp
- Parcels
- NEW_HYDRANTS**
 - ▲ New Hydrant
 - Emergency Intertie
- WaterLines_CDP_NEW_LINES**
 - - - C900 4"
 - C900 6"
 - ▬ HDPE 6" Directional Drill

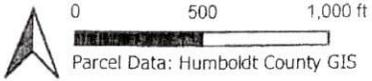


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Westhaven Community Service District

Water Main Replacement 2023-2024

**Proposed Hydrants and Water Main Type and Diameter.
 Location approximate, not from survey.**

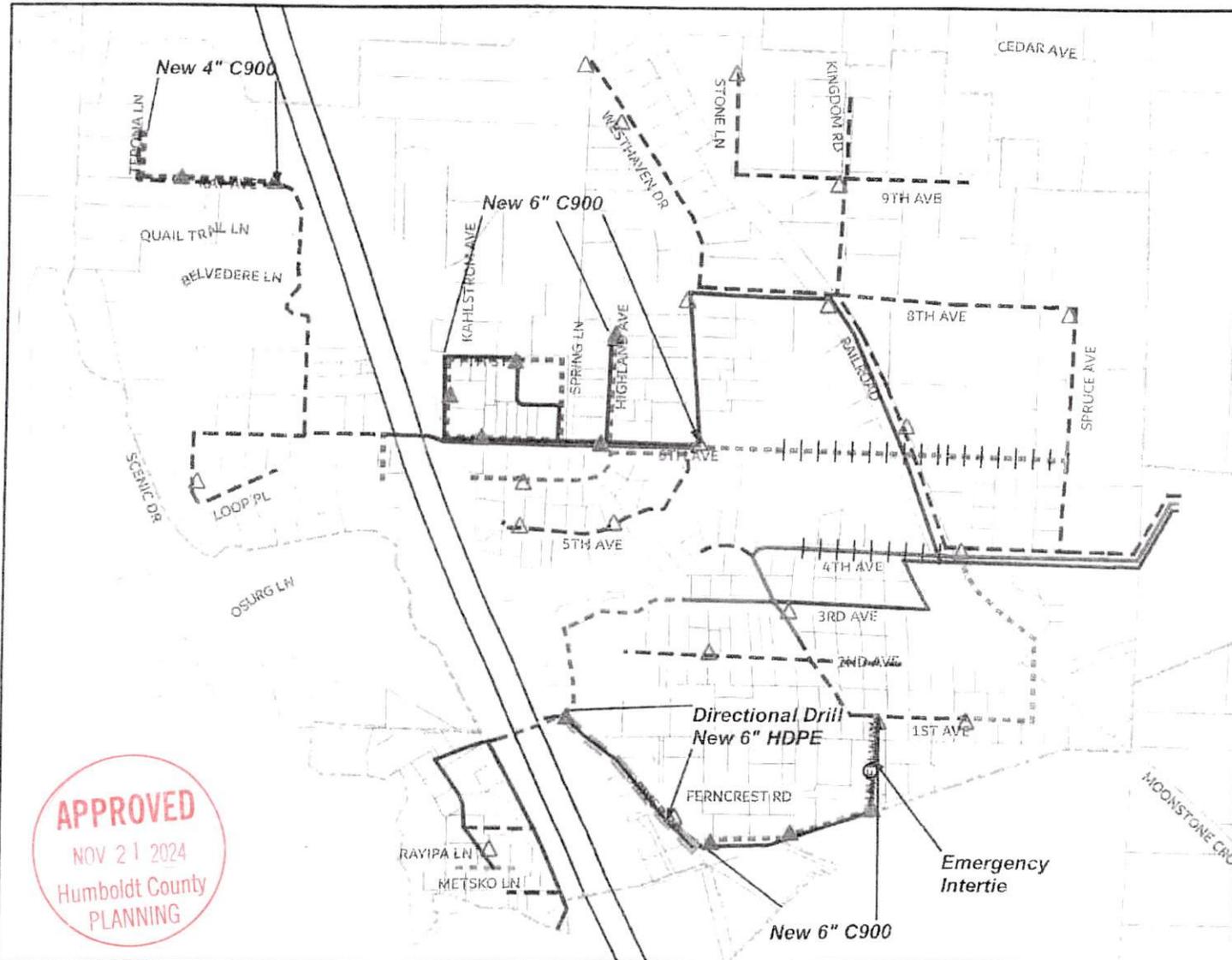


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C:\Users\jllano\Desktop\WCS\GIS\Projects\WCS\CDP Waterlines\20221.rpt

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LEGEND

- △ HYDRANTS
- (E) WATER MAINS
 - PE, 2"
 - PVC, 2"
 - SCH 40, 2"
 - SCH 80, 2"
 - AC, 3"
 - SCH 40, 3"
 - AC, 4"
 - C900, 4"
 - C900, 6"
 - ||| Out of Service
 - WCSD Boundary
- NEW HYDRANTS
 - ▲ New Hydrant
 - Emergency Intertie
- (N) Water Mains
 - C900 4"
 - C900 6"
 - HDPE 6" Directional Drill

Westhaven Community Service District

Water Main Replacement 2023-2024

Proposed Hydrants and Water Main Type and Diameter.
Location approximate, not from survey.

