

**AGENDA  
MEETING OF THE BOARD OF COMMISSIONERS  
HUMBOLDT BAY HARBOR, RECREATION AND CONSERVATION DISTRICT**

**DATE:** January 23, 2020  
**TIME:** Executive Closed Session 6:00 P.M.  
Regular Session 7:00 P.M.  
**PLACE:** Woodley Island Marina Meeting Room

*The Meeting Room is wheelchair accessible. Accommodations and access to Harbor District meetings for people with other handicaps must be requested of the Director of Administrative Services at 443-0801 at least 24 hours in advance of the meeting.*

**1. Call to Order Closed Session at 6:00 P.M.**

**2. Public Comment**

*Note: This portion of the Agenda allows the public to speak to the Board on the various issues not itemized on this Agenda. A member of the public may also request that a matter appearing on the Consent Calendar be pulled and discussed separately. Pursuant to the Brown Act, the Board may not take action on any item that does not appear on the Agenda. Each speaker is limited to speak for a period of three (3) minutes regarding each item on the Agenda. Each speaker is limited to speak for a period of three (3) minutes during the PUBLIC COMMENT portion of the Agenda regarding items of special interest to the public not appearing on the Agenda that are within the subject matter jurisdiction of the Board of Commissioners. The three (3) minute time limit may not be transferred to other speakers. The three (3) minute time limit for each speaker may be extended by the President of the Board of Commissioners or the Presiding Member of the Board of Commissioners at the regular meeting of the District. The three (3) minute time limit for each speaker may be enforced by the President of the Board of Commissioners or the Presiding Member of the Board of Commissioners at the regular meeting of the District.*

**3. Move to Executive Closed Session**

- a) CONFERENCE WITH REAL PROPERTY NEGOTIATORS. Terms of potential acquisition and/or lease of real property on the Samoa Peninsula, Humboldt County, with Assessor's Parcel Numbers, 401-112-021 and 401-112-024 California pursuant to California Government Code § 54956.8. District negotiators: Larry Oetker, Executive Director and Ryan Plotz, District Counsel. Negotiating party: California Marine Investments LLC. Under negotiation: price and payment terms.
- b) CONFERENCE WITH REAL PROPERTY NEGOTIATORS. Terms of potential purchase of real property with Assessor's Parcel Numbers 002-162-001, 002-161-001, 002-162-018, 014-161- 013, 014-161-014, and 014-161-006, and 014-161-007 in the Eureka, Humboldt County, California pursuant to California Government Code § 54956.8. District negotiators: Larry Oetker, Executive Director and Ryan Plotz, District Counsel. Negotiating party: Ted Loring. Under negotiation: price and payment terms.
- c) CONFERENCE WITH LEGAL COUNSEL--ANTICIPATED LITIGATION. Initiation of litigation pursuant to paragraph (4) of subdivision (d) of Section 54956.9: (One case) (Glasshouse Gardens Inc)
- d) CONFERENCE WITH REAL PROPERTY NEGOTIATORS. Terms of potential acquisition and/or lease of real property on the Samoa Peninsula, Humboldt County, with Assessor's Parcel Numbers, 401-031-056 pursuant to California Government Code § 54956.8. District negotiators: Larry Oetker, Executive Director and Ryan Plotz, District Counsel. Negotiating party: Pete Oringer, Timber Heritage Association. Under negotiation: price and payment terms.

**4. Call to Order Regular Session at 7:00 P.M. and Roll Call**

**5. Pledge of Allegiance**

**6. Election of Board President, Vice President and Secretary**

*Summary:* District Ordinance No. 6, Article II Officers, Section 6 states: "The President, Vice-President and Secretary shall be elected at the annual meeting of the Board of Commissioners of the District from among

the members of said Board of Commissioners, and shall hold office for one year or until their successors are elected and qualified. All Officers shall serve during the pleasure of the Board of Commissioners of the District.”

**7. Report on Executive Closed Session**

**8. Public Comment**

*Note: This portion of the Agenda allows the public to speak to the Board on the various issues not itemized on this Agenda. A member of the public may also request that a matter appearing on the Consent Calendar be pulled and discussed separately. Pursuant to the Brown Act, the Board may not take action on any item that does not appear on the Agenda. Each speaker is limited to speak for a period of three (3) minutes regarding each item on the Agenda. Each speaker is limited to speak for a period of three (3) minutes during the PUBLIC COMMENT portion of the Agenda regarding items of special interest to the public not appearing on the Agenda that are within the subject matter jurisdiction of the Board of Commissioners. The three (3) minute time limit may not be transferred to other speakers. The three (3) minute time limit for each speaker may be extended by the President of the Board of Commissioners or the Presiding Member of the Board of Commissioners at the regular meeting of the District. The three (3) minute time limit for each speaker may be enforced by the President of the Board of Commissioners or the Presiding Member of the Board of Commissioners at the regular meeting of the District.*

**9. Consent Calendar**

- a) Consideration of Acceptance of Permit Application 2020-01 for Filing
- b) Receive District Financial Reports for September, October and November 2019
- c) Approval of Meeting Minutes for October 24, 2019 Regular Board Meeting
- d) Approval of Meeting Minutes for November 14, 2019 Special Board Meeting
- e) Approval of Meeting Minutes for December 12, 2019 Special Board Meeting

**10. Communications and Reports**

- a) Executive Director's Report
- b) Staff Reports
- c) District Counsel and District Treasurer Reports
- d) Commissioner and Committee Reports
- e) Others

**11. Unfinished Business - NONE**

**12. New Business**

**a) Humboldt Bay Management Plan Billboard Policy Amendment**

*Recommendation:* Staff recommends the Board amend the Humboldt Bay Management Plan with a clear policy regarding permitting of billboards.

*Background:* There are existing billboards that occur within tidal and submerged lands granted to the District. The District has regulatory jurisdiction over these areas. On December 30, 2019, the District received an application to rebuild a billboard that collapsed during a storm. It is anticipated that similar applications will be received by the District in the future. The Humboldt Bay Management Plan does not adequately define District policy regarding billboards. District staff requests that the District Board of Commissioners provide direction regarding revisions to the Humboldt Bay Management Plan that would provide clarity regarding billboard policy. Specifically, District staff seeks direction as to whether billboard maintenance or construction can be permitted by the District.

**b) Update on the formation of the Volunteer Boat Captain Program:**

*Recommendation:* Staff Recommends that the Board receive a report regarding the progress in forming a Volunteer Boat Captain Program.

*Summary:* Due to recent staff changes, there are a limited number of District staff qualified to captain District owned vessels. This is a particular problem for the District's fireboat which could be called for an emergency situation at any time. At the September meeting the Board requested that Staff begin the process to recruit and form a Volunteer Boat Captain Program.

**c) Consideration of Resolution 2020-01, A Resolution Declaring that Governing Body and Volunteers Shall Be Deemed Employees of the District for the Purpose of Providing Workers' Compensation Coverage**

*Recommendation:* Staff recommends the Board Adopt Resolution 2020-01 for the Governing Body and Volunteers.

*Summary:* The Special District Risk Management Authority (SDRMA) requires an annual Resolution in order to extend Workers' Compensation coverage to their Governing Body members and/or volunteers. If adopted, such persons will be deemed as employees for workers' compensation benefit. The Resolution permits the Governing Body to designate the categories of persons who the District desires to "deem" to be employees for this purpose by checking the boxes associated with those categories on the Resolution. Any persons designated will need to be listed under the Workers' Compensation Program and must pay an annual premium to enable coverage.

**13. Administrative and Emergency Permits - NONE**

**14. Adjournment**

**STAFF REPORT – HARBOR DISTRICT MEETING**

**January 23, 2020**

**TO:** Honorable Board President and Harbor District Board Members

**FROM:** Larry Oetker, Executive Director

**TITLE:** Consideration of Acceptance of Permit Application 2020-01 for Filing

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**RECOMMENDATION:** Staff recommends the Board: Accept Permit Application 2020-01 for filing, and direct Staff to process the application.

**BACKGROUND:** The County of Humboldt has submitted to the District an application for replacing a three-span bridge that crosses Swain Slough with a single span bridge. Construction is planned for 2020.

**DISCUSSION:** After accepting the permit application for filing, District staff would facilitate a 30-day public review process and if appropriate would draft a permit for consideration by the Board. The County of Humboldt is the lead agency and the District would rely on the County's California Environmental Quality Act (CEQA) documentation for CEQA compliance.

**ATTACHMENTS:**

A. Permit Application 2020-01



# HUMBOLDT BAY HARBOR, RECREATION AND CONSERVATION DISTRICT



P.O. BOX 1030  
Eureka, California 95502  
phone (707) 443-0801  
fax (707) 443-0800

## PERMIT APPLICATION

Date Filed \_\_\_\_\_

| General Information  | For District Use   |
|--|--|
| 1.) Name, Address, phone # and email of Developer, Project Sponsor and Legal Owner   | A. Application No. _____<br><br>Application Type:<br>Franchise <input type="checkbox"/><br>Permit <input type="checkbox"/><br>Lease <input type="checkbox"/> |
| 2.) Address of Project and Assessor's block, lot and Parcel Number   | B. Date Received by Harbor District  |
| 3.) Contact person Name, Address, phone #  | C. Date Accepted for filing by Commission  |
|  | D. Date of Public Notice   |
|  | E. Date of Environmental Compliance  |
|  | F. Date of Public Notice   |
| 4.) Attach list of names and addresses of all adjoining property owners  | G. Date of Public Hearings   |
| 5.) List and describe any other related Project Permits & Other Public Approvals required, including those required by City, Regional, State & Federal Agencies. | H. Date of Commission Action<br><br>Approval: _____<br>Conditional _____<br>Disapproval _____  |
| 6.) Existing City/County Zoning  | I. Expiration Date   |
| 7.) Proposed Site Use (Project Title)  | Comments   |

Describe proposed project

**PRE-PROJECT EELGRASS CHECKLIST**

Please complete the Eelgrass Pre-project Checklist below. Note that the checklist questions relate to the Area of Potential Effect (APE) associated with your project, which incorporates a surrounding buffer inclusive of the limits of potential construction and/or maintenance-related activities that could affect eelgrass habitat. Provide a copy of the completed questionnaire along with your permit application and a map depicting the proposed project location, potential eelgrass depth range -10 to +4 feet, and benchmark eelgrass distribution in the vicinity of the proposed project. Maps should be of an appropriate scale to clearly depict the preliminary/proposed APE boundary in relation to both existing and potential eelgrass resources as provided in the Humboldt Bay Eelgrass Comprehensive Management Plan and associated webpage ([humboltdbay.org/eelgrass-management-plan](http://humboltdbay.org/eelgrass-management-plan)). Here you'll find information and links including [eelgrass information for permit applicants](#), [a baseline eelgrass distribution map](#), and the [Humboldt Bay Eelgrass Comprehensive Management Plan](#). Contact the Harbor District office with questions (443-0801).

**For New Projects:**

|    |   | YES | NO |
|----|---|-----|----|
| a) | Is the project located within 100 feet of previously mapped (known) eelgrass habitat?   |     |    |
| b) | Will any construction or new operational traffic occur within the vicinity of existing eelgrass?  |     |    |
| c) | Is any portion of the project located in an area with depths ranging from -10 to +4 feet?   |     |    |
| d) | Does the project result in new cover, shading or other form of light reduction of open water areas ranging in depth from -10 to +4 feet?                                |     |    |
| e) | Is the project anticipated to affect wind or tidal circulation patterns within the bay?   |     |    |
| f) | Could the project affect ambient water temperature or clarity or result in new effluent (including stormwater) discharge point?   |     |    |
| g) | Does the project result in any placement of fill, including shoreline armor?  |     |    |
| h) | Is the project anticipated to lead to an increase in boat traffic that could affect nearby eelgrass habitat through grounding, prop scarring, wake, or shading impacts? |     |    |

**For Maintenance/Repair Projects and Construction Activities:**

|    |  | YES | NO |
|----|--|-----|----|
| i) | Is project construction likely to increase turbidity? To what extent and for what duration?  |     |    |
| j) | Will construction require the use of a barge or other vessel that may temporarily impact the bay floor (e.g. spud poles, anchoring, prop scarring, etc.) within known eelgrass habitat or within depths ranging from -10 to +4 feet? |     |    |
| k) | Will construction require the use of turbidity curtains in proximity to eelgrass habitat?  |     |    |
| l) | Will project construction result in temporary shading from moored/anchored working vessel(s)?  |     |    |

If you responded yes to any of the questions above, your project may have the potential to affect eelgrass habitat and you'll need to conduct a preliminary eelgrass survey. Please refer to the District's [Eelgrass Management Plan webpage](#) for further guidance and a list of local agency contacts should you have additional questions.

Answer all questions completely on a separate page. If the question does not apply to your project, so indicate by marking N.A. Contact Harbor District Office with questions.

### PROJECT DESCRIPTION

8. Site Size
9. Square Footage
10. Number of floors of construction
11. Amount of off-street parking provided
12. Attach plans
13. Proposed scheduling
14. Associated projects
15. Anticipated incremental development
16. If residential, include the number of units, schedule of unit sizes, range of sale prices or rents, and type of household size expected.
17. If commercial, indicate the type, whether neighborhood, city or regionally oriented, square footage of sales area, and loading facilities
18. If industrial, indicate type, estimated per shift employment & loading facilities.
19. If institutional, indicate the major function, estimated per shift employment, occupancy, loading facilities, and community benefits derived from the project.
20. If the project involves a variance, conditional use or recognizing application, state this and indicate clearly why the application is required.

Are the following items applicable to the project or its effects? Answer yes or no.  
Discuss all items answered yes.

21. Change in existing features of any bays, tidelands, beaches, lakes or hills, or substantial alteration of ground contours.
22. Change in scenic views or vistas from existing residential areas or public lands or roads.
23. Change in pattern, scale or character of general area of project.
24. Significant amounts of solid waste or litter.
25. Change in dust, ash, smoke, fumes or odors in vicinity.
26. Change in ocean, bay, lake, stream or ground water quality or quantity, or alteration of existing drainage patterns.
27. Substantial change in existing noise or vibration levels in the vicinity.
  - A. During Construction
  - B. During Project Utilization
28. Site on filled land or on slope of 10% or more.



- 29. Use of disposal or potentially hazardous materials, such as toxic substances, flammable or explosives.
- 30. Substantial change in municipal services demand (police, fire, water, sewage, etc.)
- 31. Substantially increase fossil fuel consumption (electricity, oil, natural gas, etc.).
- 32. Relationship to larger project or series of projects

ENVIRONMENTAL SETTING:

- 33. Describe the project site as it exists before the project including information on topography, soil stability, plants and animals, and any cultural, historical, or scenic aspects. Describe any existing structures on the site and the use of the structures. Attach photographs of the site. Photos will be accepted.
- 34. Describe the surrounding properties, including information on plants and animals and any cultural, historical, or scenic aspects. Indicate the type of land use (residential, commercial, etc.) intensity of land use (one-family, apartment houses, shops, department stores, etc.) and the scale of development (height, frontage, set-back, rear yard, etc.) Attach photographs of the vicinity. Photos accepted.

----- Questions 35; and 36 MUST BE ANSWERED! -----

- 35. How will the proposed use or activity promote the public health, safety, comfort, and convenience?
- 36. How is the requested grant, permit, franchise, lease, right, or privilege required by the public convenience and necessity?  
-----
- 37. Financial statement:
  - A. Estimated project cost.
  - B. How will the project be financed?
- 38. Describe fully directions necessary to arrive at project site.
- 39. The Applicant agrees to as a condition of the permit being issued, to indemnify and hold harmless the Humboldt Bay, Harbor Recreation and Conservation District from any and all claims, demands, or liabilities for attorneys' fees obtained from or against demands for attorney's fees, costs of suit, and costs of administrative records made against District by any and all third parties as a result of third party environmental actions against District arising out of the subject matter of this application and permit, including, but not limited to, attorney's fees, costs of suit, and costs of administrative records obtained by or awarded to third parties pursuant to the California Code of Civil Procedure Section 1021.5 or any other applicable local, state, or federal laws, whether such attorneys' fees, costs of suit, and costs of administrative records are direct or indirect, or incurred in the compromise, attempted compromise, trial, appeal, or arbitration of claims for attorneys' fees and costs of administrative records in connection with the subject matter of this application and permit

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**NOTE**

The District hereby advises the Applicant that, under California Public Resources Code (PRC) Section 21089, the District when a lead agency under the California Environmental Quality Act (CEQA) of 1970, as amended, pertaining to an Environmental Impact Report (EIR) or a Negative Declaration (MND/ND) may charge and collect from the Applicant a reasonable fee in order to recover the estimated costs incurred by the District in preparing an EIR or MND/ND for the project and the procedures necessary for PRC compliance on the Applicants project.

In the event your project contains an analysis of issues pertaining to CEQA, for which District staff is not competent to independently review, or District requires the same in preparation of an EIR or MND/ND for the project, the District may retain a reviewing consultant to evaluate the content of the Administrative-Draft EIR and Final EIR or MND/ND with respect to these issues. The cost of such reviewing consultant services shall be borne by the Applicant.

**CERTIFICATION:** I hereby certify that the statements furnished above and in the attached exhibits present the information required for this initial evaluation to the best of my ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief. And I agree to indemnify the District as described in part 39 of this application.

Dated: \_\_\_\_\_

\_\_\_\_\_

For \_\_\_\_\_

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## Answers to Questions for Harbor District Permit

**Project Name:** Pine Hill Road at Swain Slough Bridge Replacement Project  
**Applicant:** Humboldt County Department of Public Works  
**Date:** January 2, 2020

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### Question No.

1. Humboldt County Public Works  
1106 2nd Street  
Eureka, CA 95501  
(707) 445-7741
2. The bridge project on Pine Hill Road runs through APN # 302-181-008
3. Andrew Bundschuh  
Environmental Permitting and Compliance Manager  
1106 2nd Street  
Eureka, CA 95501  
707-445-7741  
[abundschuh@co.humboldt.ca.us](mailto:abundschuh@co.humboldt.ca.us)
4. List of names and addresses of all adjoining property owners:  
APN 302-181-008; Robert Prior (TR), PO Box 23, Eureka, CA 95502  
APN 302-151-019; Andrew Chamberlain, 1701 Obispo Ave, Long Beach, CA 90804  
APN 302-151-020; Lou and Elizabeth Jacobson, 979 Pine Hill Road, Eureka, CA 95503  
APN 302-161-003; Northcoast Regional Land Trust, PO Box 398, Bayside, CA 95524
5. Other Permits:  
NMFS/USFWS - Biological Opinions  
CDFW - 1602 Permit  
RWQCB - 401 Certification  
Army Corps - 404 Nationwide Permit
6. Bridge project is on existing county/public roadway. County right-of-way.

7. Pine Hill Road Bridge over Swain Slough - Bridge Replacement Project
8. Site Size: The area of impact includes the roadway, the bridge and a small portion of the adjoining property for wetland/seasonal ditch re/creation. The county plans to improve 400 feet of roadway on each side of the bridge as well as replace the bridge. Dimensions would be roughly 1000 feet long by 50 feet wide. Please see attached maps depicting the total area of the project including right-of-way and temporary construction easement needs. Estimated area of project is 50,000 sq. ft.
9. As explained above, the estimated size is roughly 1000 feet long by 50 feet wide for a total area of ~50,000 sf. However, much of the work will occur in the roadway and not extend out into Swain Slough or Martin Slough. Therefore, the above area is over-exaggerated.
10. N/A
11. N/A
12. Attached
13. A construction schedule will not be known until the contract is awarded. However, the plan is to have HCSD replace the water line in April/May of 2020 and then construction activities related to the bridge replacement will occur in May/June and be completed by November 2020.
14. Replacement of the bridge will require HCSD to relocate a water line that is currently attached to the bridge. HCSD is planning on directional drilling the new water line underneath the slough channel with the entrance and exit points along the roadway. See attached plans.
15. N/A
16. N/A
17. N/A
18. N/A
19. N/A
20. N/A

**Yes/No Questions**

21. No
22. No; the bridge replacement project will not have a change in scenic views from existing properties, lands or roads. The bridge will be slightly wider and longer than the existing bridge, but this is being done to bring it to standards.
23. No
24. No; There will be wastes/debris disposal from the project, but all wastes will be disposed of in an approved upland facility.
25. No
26. Yes; the longer bridge will have a benefit to Swain Slough by widening the channel and thus reducing tidal flooding. The project will also remove existing concrete bridge columns and debris from the channel. The project will also replace two storm drain culverts that will help in existing drainage of stormwater runoff.
27.
  - a. During construction there will a period of time with changes in noise levels. During the demolition of the old bridge, use of heavy equipment, and pile driving activities associated with the new piles for the abutments.

- b. Once the new bridge is in place, there will be no increases in use or noise.
- 28. No
- 29. No
- 30. No; as stated earlier, HCSD will be replacing the existing water line with a larger water line using directional drilling. There will be a short period of lapse of service, but the end result will be a larger water line with better service.
- 31. No
- 32. No

**Environmental Setting**

- 33. This bridge replacement project is being funded through FHWA Highway Bridge Program and administered through Caltrans Local Assistance. Complete compliance with NEPA and CEQA were done, including studies and reports relating to cultural resources, sensitive plants and animals, etc. The project was determined to have no significant impact on resources and/or the environment. There will be no significant change in the project site from pre- to post-construction. Pine Hill Road bisects agricultural lands and Due to the need to widen the approaches and new bridge, the county has acquired a small strip of property on each side (north/south) of the project in order to recreate roadside ditches. The new ditches will be wider and will help with the overall drainage of the area.
- 34. As mentioned above, the surrounding land is mostly agricultural/grazing lands. There are a few residential properties on the east side of the bridge. The best way to get an idea of this rural area is via Google Earth and/or County WebGIS. Lat: 40.752553°, -124.182592°.
- 35. The existing bridge is structurally deficient and does not meet current standards. Replacing the bridge with one that is wider and to current standards will promote public safety as well as provide pedestrians a safe route across the bridge.
- 36. The requested permit is required as State Lands has deferred jurisdiction to the Harbor District.
- 37.
  - a. The estimated construction costs of the bridge replacement project is 2.4 million dollars.
  - b. The bridge is 100% funded through federal highway's (FHWA) Highway Bridge Program (HBP). This bridge has been programmed for replacement since 2012.
- 38. The bridge site is located on Pine Hill Road at Post Mile 0.20. It is accessed off of Elk River Road just south of Herrick Ave.
- 39. Agreed.
  - a. The County of Humboldt is the lead agency for CEQA and a Notice of Exemption was posted with the county clerk's office in 2016.



BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

|                             |   |
|-----------------------------|---|
| ROAD NAME: PINE HILL ROAD   | MILE POST: 0.19   |
| ROAD NO.: 3J430             | EA NO.:   |
| PROJECT NO.: BRLO-5904(112) | PPNO.:  |
| CONTRACT NO.: 594020        | DRAWING FILE NAME: S:\Client\Humboldt\007-300 Pine Hill\CAD\Roadway\007300R\Map.dgn |
| PLOT DATE: 552212005        | REVISION DATE: 5-21-2015  |

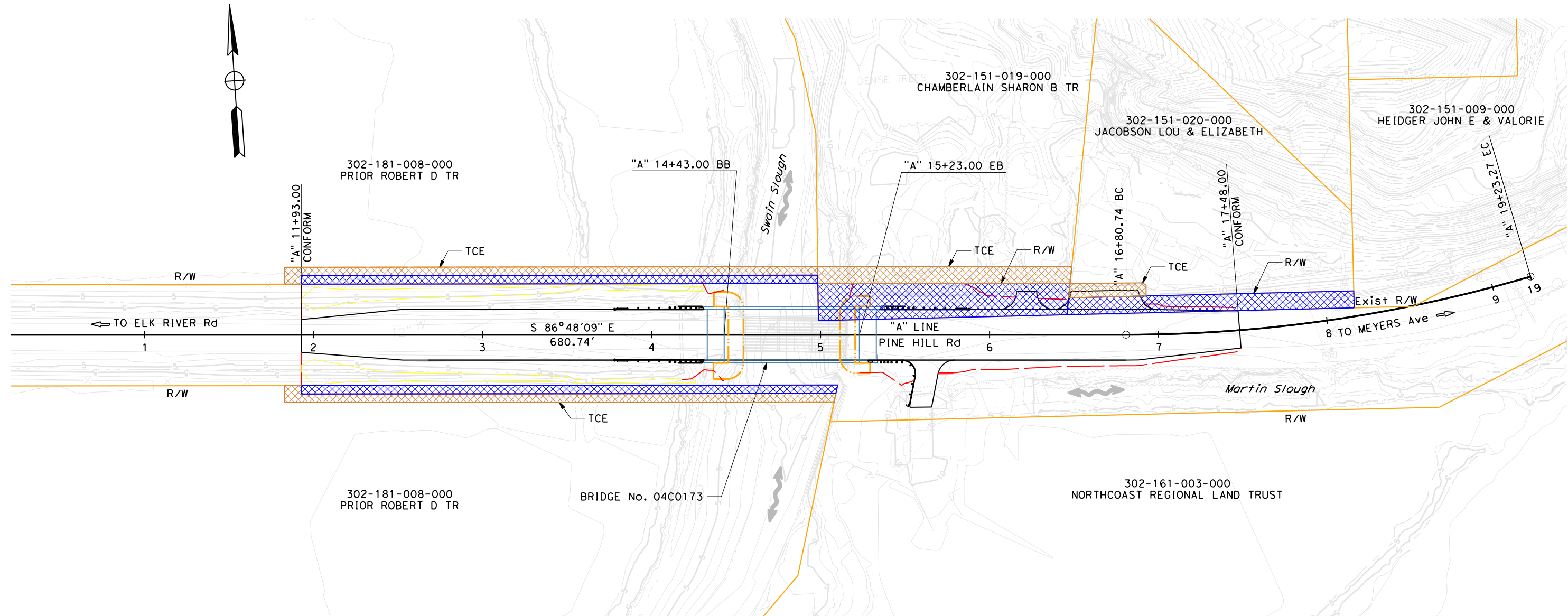
|                 |
|-----------------|
| DESIGNED BY: KP |
| DRAWN BY: KP    |
| REVIEWED BY: JJ |
| APPROVED BY:    |

|  |
|--|
| COUNTY OF HUMBOLDT<br>DEPARTMENT OF PUBLIC WORKS |
| PINE HILL ROAD BRIDGE OVER SWAIN SLOUGH          |
| RIGHT OF WAY NEEDS                               |

SHEET 1 OF 11

**LEGEND:**

- TEMPORARY CONSTRUCTION EASEMENT
- PERMANENT ROADWAY EASEMENT



| APN             | OWNER                    | TOTAL PARCEL SF | PERMANENT ROADWAY EASEMENT SF | TEMPORARY CONSTRUCTION EASEMENT SF | REMAINDER SF |
|-----------------|--------------------------|-----------------|-------------------------------|------------------------------------|--------------|
| 302-181-008-000 | PRIOR ROBERT D TR        | 914,760         | 3,110                         | 3,310                              | 911,650      |
| 302-151-019-000 | CHAMBERLAIN SHARON B TR  | 110,642         | 2,995                         | 1,500                              | 107,647      |
| 302-151-020-000 | JACOBSON LOU & ELIZABETH | 20,909          | 1,695                         | 370                                | 19,214       |

**RIGHT OF WAY NEEDS**  
SCALE: 1"=30'  
**RW-1**

**Project Report**  
Swain Slough Bridge on Pine Hill Road

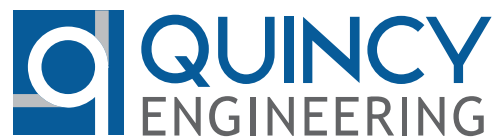
Federal Project No. BRLO-5904 (112)  
Existing Bridge No. 04C0173  
New Bridge No. 04C0260



Prepared For:  
**County of Humboldt**  
Department of Public Works



Prepared By:



October 2019

developing YOUR vision | delivering YOUR project

Prepared by:



---

Jason P. Jurrens, P.E.  
Project Engineer  
Quincy Engineering, Inc.

Submitted by

(916) 368-9181

---

James Foster, P.E.  
Project Manager  
Quincy Engineering, Inc.

Date

Telephone

Approved by

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Tony Seghetti, P.E.  
County of Humboldt  
Department of Public Works

Date

Telephone



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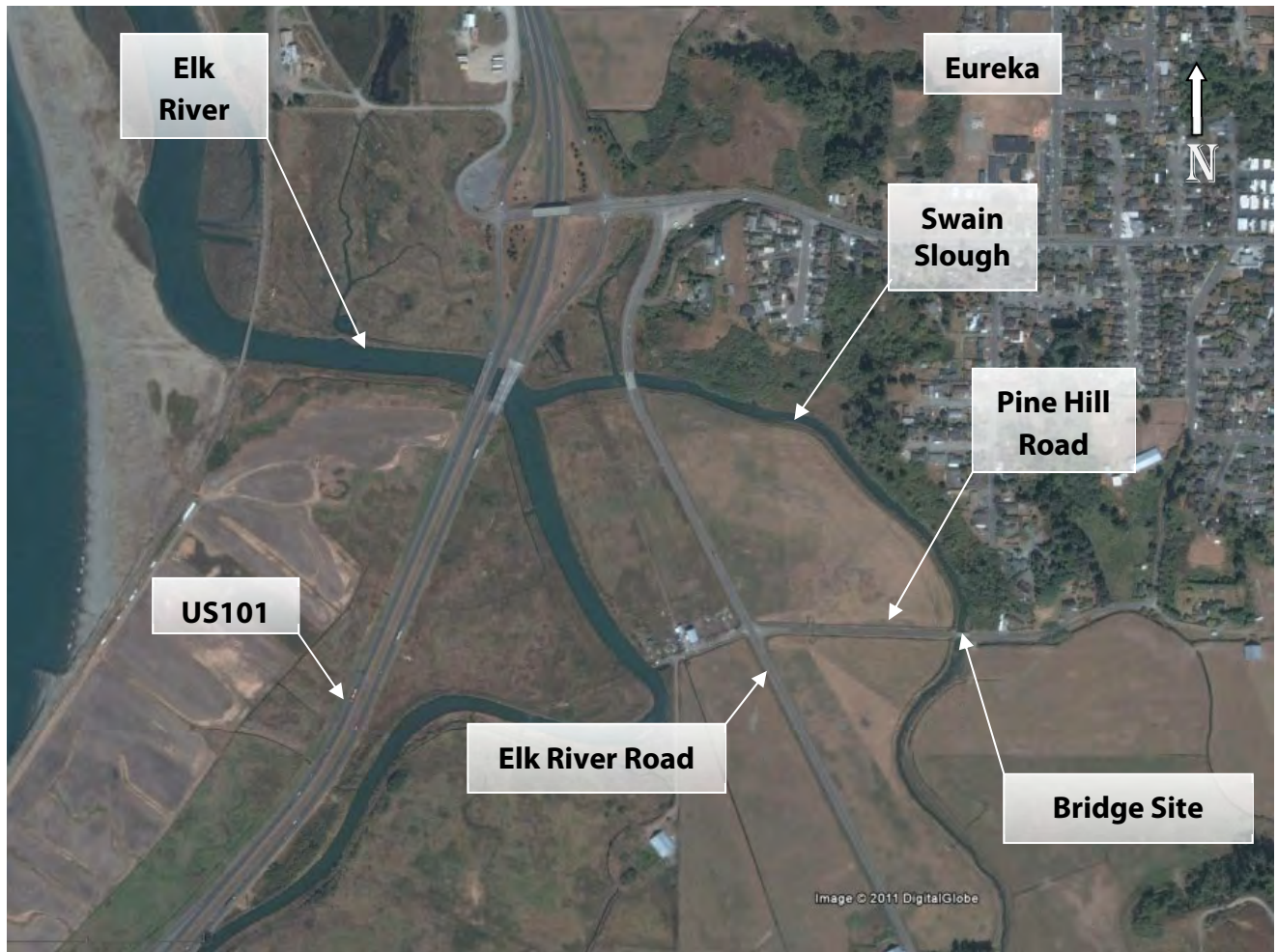
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## VICINITY MAP



*Photo 1 – Aerial View of Project Site (From Google Earth)*



## EXECUTIVE SUMMARY

Humboldt County Department of Public Works is proposing to replace the Swain Slough Bridge (Bridge No. 04C-0173) at Pine Hill Road. The existing bridge is located just south of Eureka on Pine Hill Road (a local rural two-lane road) approximately 0.2 miles east of Elk River Road. Pine Hill Road provides the access across Swain Slough for local residences to Elk River Road.

The purpose of this project is to improve public safety by providing a safe and permanent solution for traffic to cross Swain Slough. This will be accomplished by replacing the existing structurally deficient, three-span timber-stringer bridge with a new single-span concrete structure. The existing bridge has been in service since 1955 and is currently classified as structurally deficient. Due to poor sufficiency rating, the existing bridge qualifies for Federal funding.

Pine Hill Road is classified as a Local Road which qualifies for 100% reimbursement of the bridge replacement cost from federal aid. Other costs of the rehabilitation project such as preliminary engineering, right-of-way, and others are funded by the Federal Highway Bridge Program (HBP) which will provide approximately 100% of the total project cost.

This project is currently scheduled to begin construction of the new bridge in spring of 2020. Traffic will be detoured 1.6 miles during construction while the new bridge is constructed on the existing roadway alignment. Full closure of Pine Hill Road at the location of the bridge is anticipated for construction, which allows the use of the paved approach roadways to be used as construction staging area. This allows minimal construction footprints reducing environmental impacts to Swain Slough. Traffic will then be permanently shifted onto the new structure once construction is completed.

The existing facility consists of a three-span simply supported timber-stringer structure, with concrete deck and curbs. According to the latest Bridge Inspection Report (BIR), the bridge length is approximately 63' long with three equal length spans of approximately 21' and the bridge width is approximately 20'. The substructure consists of reinforced concrete abutments and reinforced concrete bent cap on pile extensions. The BIR also notes the deteriorating condition of the bridge; with 11 out of the 20 timber bridge railing posts as well as the top 1" of the north exterior girder showing signs of rot and moderate to severe vertical cracking on concrete piles extensions. The existing facility has been designated as structurally deficient with a 2017 sufficiency rating of 42.6 and a superstructure rating of 4.

This project will improve public safety by replacing this structurally deficient bridge. It will also improve traffic operations by widening the bridge to provide 10' lanes and 5' shoulders in each direction and replace all traffic safety features to meet current standards. Rehabilitation and widening of the existing bridge is cost prohibitive and not considered feasible.

Replacing the bridge on the existing alignment was chosen due to the lowest construction cost, least environmental impacts, speed of construction, and least new right-of-way needs. With the detour only being approximately 1.6 miles, the most practical and cost-effective roadway alignment was to close Pine Hill Road for one construction season and replace the bridge on its existing alignment.



There were two bridge types considered for this project location:

- The Single-Span Precast Wide-Flange Concrete Girder bridge is recommended as it will not require falsework to construct and will eliminate the need for any piers within the limits of the Slough. This alternative will reduce construction time due to wide flange girders precast off project location and available for erection immediately. Precast manufacturer has confirmed the viability of shipping this length of girders to project site. In addition, this alternative lends to a structure depth that will conform to the proposed roadway profile and will not encroach on the channel hydraulic highwater surface elevation. Furthermore, this alternative will decrease the environmental impacts on an environmentally sensitive area. Based on constructability, functionality, economic considerations and local boundary conditions, a single span precast- prestressed concrete girder is a viable structure alternative for this project.
- A Single-Span Cast in Place Post-Tensioned Box Girder bridge was also considered for this project because it can provide the same minimum structure depth to adhere to the hydraulic requirements without raising the proposed profile. Similar to the preferred precast alternative, this option is also single span and would preclude the need for piers within the slough. However, the cast in place construction would require falsework which will most likely require driven piles during construction which will further disturb the environmentally sensitive slough. A bridge General Plan for this option is included in Appendix G for further reference.

Based on the information contained in this project report, the project development team recommends replacing the bridge on existing alignment utilizing a Single-Span Precast Prestressed Reinforced Concrete Wide Flange Girder bridge. This alternative meets the project goals, reduces construction schedule duration, is cost competitive, and minimizes temporary and permanent environmental and right-of-way impacts from the project.

The project costs for constructing the recommended structure type/alignment is summarized as follows:

| Project Construction Cost |                    |
|---------------------------|--------------------|
| Structure Construction    | \$1,206,000        |
| Bridge Removal            | \$50,4000          |
| Slope Protection          | \$25,000           |
| Channel Work              | \$40,000           |
| Detour                    | \$10,000           |
| Approach Roadway          | \$499,000          |
| Mobilization              | \$183,000          |
| <b>Total</b>              | <b>\$2,013,000</b> |



| Project Costs |                    |
|---------------|--------------------|
| PE            | \$500,000          |
| CON           | \$2,000,000        |
| CE            | \$300,000          |
| CONT          | \$500,000          |
| RW            | \$50,000           |
| <b>TOTAL</b>  | <b>\$3,350,000</b> |

The project development schedule is summarized as follows:

| Project Milestone                     | Proposed Delivery Date   |
|---------------------------------------|--------------------------|
| Environmental Document Approval       | July 2016                |
| Plans, Specifications & Estimate      | January 2020             |
| Project Permits Secured               | December 2019            |
| Utility Coordination and Right-of-Way | December 2019            |
| Advertise Project                     | March 2020               |
| Award Contract                        | May 2020                 |
| Project Construction                  | June 2020 – October 2020 |

The project team recommends approval of the project report and continuing the project to develop the final PS&E package leading to construction of a replacement bridge.

## INTRODUCTION

Humboldt County Department of Public Works is proposing to replace the Swain Slough Bridge (Bridge No. 04C-0173) at Pine Hill Road. The existing bridge is located just south of Eureka on Pine Hill Road (a local rural two-lane road) approximately 0.2 miles east of Elk River Road. Pine Hill Road provides the access across Swain Slough for local residences to Elk River Road.

The purpose of this project is to improve public safety by providing a safe and permanent solution for traffic to cross Swain Slough. This will be accomplished by replacing the existing structurally deficient, three-span timber-stringer bridge with a new single span concrete structure. The existing bridge has been in service since 1955 and is currently classified as structurally deficient. Due to poor sufficiency rating, the existing bridge qualifies for Federal funding.

Pine Hill Road is classified as a Local Road which qualifies for 100% reimbursement of the bridge replacement cost from federal aid. Other cost of the rehabilitation project such as preliminary engineering, right-of-way, and others are funded by the Federal Highway Bridge Program (HBP) which will provide approximately 100% of the total project cost.

This project is currently scheduled to begin construction of the new bridge in spring of 2020. Traffic will be detoured 1.6 miles during construction while the new bridge is constructed on



the existing roadway alignment. Full closure of Pine Hill Road at the location of the bridge is anticipated for construction, which allows the use of the paved approach roadways to be used as construction staging area. This allows minimal construction footprints reducing environmental impacts to Swain Slough. Traffic will then be permanently shifted onto the new structure once construction is completed.

## EXISTING FACILITY

The existing facility consists of a three-span simply-supported timber-stringer structure, with concrete deck and curbs. According to the latest Bridge Inspection Report (BIR), the bridge length is approximately 63' long with three equal length spans of approximately 21' and the bridge width is approximately 20'. The substructure consists of reinforced concrete abutments and reinforced concrete bent cap on pile extensions. The BIR also notes the deteriorating condition of the bridge; with 11 out of the 20 timber bridge railing posts as well as the top 1" of the north exterior girder showing signs of rot and moderate to severe vertical cracking on concrete piles extensions, as shown in Figure 1. The existing facility has been designated as structurally deficient with a 2017 sufficiency rating of 42.6 and a superstructure rating of 4.



Figure 1: Vertical Cracking on Piles

## DESIGN CRITERIA

All alternatives must meet the following criteria:

- **Roadway Design**

Roadway design will be based on ***"AASHTO Policy on Geometric Design of Highways and Streets 2011, 6<sup>th</sup> Edition Green Book"*** along with County standards where appropriate.

- **Bridge Design**

Final bridge design will be performed in accordance with ***"AASHTO LRFD Bridge Design Specifications, Sixth Edition, and the Caltrans Amendments preface dated November 2011"***. The latest updated versions of Caltrans bridge design manuals will also be utilized when applicable.

- **Seismic Design**

Seismic design will be performed in accordance with the Caltrans ***"Seismic Design Criteria Version 1.6 November 2010"*** and the latest information available from Caltrans Earthquake Research.

- **Hydraulic Analysis**

The ***Caltrans "Local Assistance Procedures Manual"*** requires that the bridge soffit be 2' above the 50-year flood elevation and that the bridge be capable of conveying the 100-year flood or the flood of record.



## ROADWAY ALTERNATIVES

Replacing the bridge on the existing alignment was chosen due to the lowest construction cost, least environmental impacts, speed of construction, and least new right-of-way needs. With the detour only being approximately 1.6 miles, the most practical and cost-effective roadway alignment was to close Pine Hill Road for one construction season and replace the bridge on its



Figure 2: Looking East & West on Pine Hill Road

existing alignment. Building the new bridge either upstream or downstream of the existing bridge, or staging the new bridge construction to keep the existing bridge open during construction would result in significantly more impacts to the channel, wetlands, and farmlands.

The existing roadway has 10' traffic lanes with minimal shoulders. The 2009 traffic counts recorded an Average Daily Traffic (ADT) of 341 vehicles per day, which increases to 582 vehicles per day in 2036 at a 2% per year increase. The proposed road and bridge cross section will consist of 10' lanes, 5' shoulders, 2' choker, and 2' for barrier railing for a total width of 34'. This is 14' wider than the existing 20' wide structure. 1.5:1 side slopes will be utilized to further reduce impacts to the adjacent wetlands and farmlands. This configuration is in conformance with AASHTO's *Guidelines for Geometric Design of Highways and Streets* and the *2012 Humboldt County General Plan*. This 30' clear width meets the minimum design standard when considering functional classification, design speed, and terrain for the project location.

The roadway classification for Pine Hill Road is a local rural road in flat terrain. Given the context of the existing roadway within the project limits and the need to raise the vertical profile for hydraulic concerns, a 35-mph proposed design speed is appropriate. This speed satisfies AASHTO standards Exhibit 5-1 for local roads and satisfies AASHTO's *Policy on Geometric Design of Highways and Streets* guidelines.

The general alignment of Pine Hill Road through the project site is an east-west direction. There are no significant obstacles or small radius curves to reduce the stopping sight distance. This allows for the bridge to be constructed on the existing alignment with no skew.

The existing profile along the bridge deck must be raised approximately 3' vertically to meet the slough hydraulic and tidal change requirements. The minimum soffit elevation is required to be at or above the King Tide elevation of 8.5', per WRECO's hydraulics evaluations. In order to accomplish vertical change and stay within the AASHTO guidance for profile grade and vertical curves that meet the 35-mph design speed, the proposed roadway profile uses a 120' long sag curve leading into a 180' long crest curve and ending with a 160' long sag curve.





Levees are located at the southeast, northwest, and southwest corners of the existing bridge. These levees are maintained by the property owners and the project will not be making improvements to the levees. A minimal amount of conforming at the levees to accommodate the raising of the bridge grade is anticipated.

### **Approach Guardrail**

The existing bridge has no approach guard railings or attached end treatments. This bridge replacement project will significantly improve the roadway approach features by protecting each corner of the new bridge with a conventional end treatment system.

## **STRUCTURE ALTERNATIVES**

### **Single-Span Precast Prestressed Reinforced Concrete Wide-Flange Girder**

The single-span precast wide-flange concrete girder bridge is recommended as it will not require falsework to construct and will eliminate the need for any piers within the limits of the slough. This alternative will reduce construction time due to wide flange girders precast off-project location and available for erection immediately. The precast manufacturer has confirmed the viability of shipping this length of girders to project site. In addition, this alternative lends to a structure depth that will conform to the proposed roadway profile and will not encroach on the channel hydraulic highwater surface elevation. Furthermore, this alternative will decrease the environmental impacts on an environmentally sensitive area. Based on constructability, functionality, economic considerations and local boundary conditions, a single-span precast prestressed concrete girder is a viable structure alternative for this project.

### **Rejected Structure Alternative**

A single-span cast in place post-tensioned concrete box girder bridge was also considered for this project because it can provide the same minimum structure depth to adhere to the hydraulic requirements without raising the proposed profile. Similar to the preferred precast alternative, this option is also single-span and would preclude the need for piers within the slough. However, the cast in place construction would require falsework which will most likely require driven piles during construction which will further disturb the environmentally sensitive slough. A bridge General Plan for this option is included in Appendix G for further reference.

Based on the information contained in this project report, the project development team recommends replacing the bridge on existing alignment utilizing a single-span precast prestressed reinforced concrete wide flange girder bridge. This alternative meets the project goals, reduces construction schedule duration, is cost competitive, and minimizes temporary and permanent environmental, and right-of-way impacts from the project.

A permanent sheet piling system will be constructed around the new bridge footing which will eliminate the need for Rock Slope Protection (RSP) to protect the abutment. The width between the abutments of the existing bridge is approximately 58.5'. The width between the sheet piling is 65.5' for an overall channel widening of 7.0'. The channel will be widened 1.7' on the easterly bank and 5.3' on the westerly bank. All existing RSP will be removed from the channel.



## Bridge Railing

With the proposed 35 mph design speed along Pine Hill Road, metal bridge railing is proposed instead of conventional concrete barriers which are more commonly associated with higher speed conditions. Concrete Bridge Railing (Type 85 Modification) will be mounted on top of the bridge edge of deck. To accommodate the thickness of the metal rail elements and still maintain a 30' clear width, the overall proposed structure width will be 34' – 0".

## DESIGN EXCEPTIONS

A single design exception for hydraulic freeboard will be required. The basic rule for hydraulic design of bridges is that they should be designed to pass the two percent (2%) probability flood or tide (Q50) or the flood-of-record, whichever is greater without causing objectionable backwater, excessive flow velocities, or encroaching on through traffic lanes. Sufficient freeboard, the vertical clearance between the lowest structural member, and the water surface elevation of the design flood should be provided. A minimum freeboard of 2' is often assumed for preliminary bridge design. An evaluation should be performed to determine, if horizontal and vertical driftway requirements warrant a modified freeboard. The freeboard for controlled flow waterways, such as irrigation canals, shall be required by the regulatory agency having jurisdiction.

- The final design should be able to convey the base flood, Q100.
- The base flood (Q100) or overtopping flood, whichever is greater shall be used to evaluate the costs, risks and impacts associated with encroachments on the 100-year base flood plain.
- Construction projects in areas vulnerable to Sea Level Rise to begin planning for potential impacts by considering a range of SLR scenarios for the years 2050 and 2100

The non-standard design element is hydraulic clearance. The bridge deck has been designed to remain dry during the 100-year flow. Swain Slough, Martin Slough, and Elk River all become one large backwater during high flow events. This backwater is made worse during a high flow coupled with a Humboldt Bay high tide. Conveyance under the bridge is not a factor as each of these waterways go out of bank during the high flows. The bridge as designed does not cause objectionable backwater and does not provide freeboard due to drift.

The approach roadways leading to the bridge become inundated during the high flows. The bridge is not accessible from the adjacent County roads during flood events and the County has no plans to improve the approach roadways to meet standard flood elevation.

The bridge has been designed to accommodate a future raise if Sea Level Rise becomes an issue in the future. The footing has been sized for a taller bridge and jacking points have been detailed to facilitate raising this single span bridge.

## DRAINAGE

Existing drainage patterns will generally be preserved. Drainage along the northeastern side of Pine Hill Road generally flows to the northeast corner of the bridge and into Swain Slough. An existing ditch will be re-graded with a new pipe and energy dissipating device added to enhance this system. The drainage patterns at the southeast corner of the bridge will not change as it



currently sheet flows off the roadway and into Martin Slough. The existing pipe beneath the westerly approach will be replaced with a new 18" pipe which will maintain the existing drainage patterns. Water flows into the southwest field through a breach in the levee and flows towards the bridge. A portion of the flow crosses into the northwest field via the existing pipe, and a portion overtops the road at the midpoint between the Swain Slough Bridge and Elk River Road. The water then flows to a depressed area along the northwest levee before re-entering Swain Slough midway between the Swain Slough Bridge and the Elk River Road Bridge. The construction of the Swain Slough Bridge will not alter these preexisting drainage patterns.

### **TRAFFIC CONTROL/DETOUR**

The County has indicated that it will be acceptable to close the existing roadway and detour traffic during construction of the replacement bridge and the approach roadway. Detour to Meyers Avenue, just northeast of the facility, may be used by local residence living near the existing facility during construction.

### **CONSTRUCTION METHODS AND CONTRACTOR ACCESS**

It is anticipated that excavators, dozers, cranes, dump trucks, concrete trucks, concrete pumps, pile driving hammers, and pile drilling equipment may be required to remove the existing bridge and construct the new bridge. Construction is anticipated to be completely within one construction season. With a full road closure in place, contractor will have access to the project site from both embankments. The Contractor will use the approach roadways as the staging area which will reduce the environmental impacts to the project area. No staging of equipment will occur in the wetland or agricultural areas.

Some dewatering of the sheetpile cofferdam will be required. The contractor will utilize temporary tanks that will be staged on the existing asphalt roadway approaches. The water that is collected will be disposed of offsite.

Settlement due to embankment construction is anticipated. The contractor will add approximately 1' of additional fill to the each of the approaches along with a settlement monitoring system to determine the quantity and duration of settlement. Once the settlement has occurred, the additional fill will be removed.

Removal of the concrete bridge piers will be accomplished at a very low tide by excavating around each pier, pulling each pier over with an excavator, breaking it off below the mud line, and removing them from the slough channel. No concussive hammering of the existing concrete piers during demolition is required. The excavated pier pits will be backfilled with the sediment removed or with clean gravel after demolition. Installing sheet piling around the piers to contain sediment was investigated but was discarded as this will cause more disturbance to the channel than the described method.

In-channel work is limited and will consist of removal of the existing columns, removal of trash and debris from the channel, and the removal of sediment from in front of the sheet piling. All in-channel work will be performed at low tide with minimal flow in Swain Slough. There is no work and/or impacts to Martin Slough.

Work is anticipated to occur during daylight hours.



## RIGHT-OF-WAY

The project site is located adjacent to four parcels that have several owners. Right-of-way will be required from three of the four parcels and will include Temporary Construction Easements (TCEs) and Permanent Roadway Easements (PREs). The following table details the APN, Owners, and needed R/W types:

| APN             | OWNER                    | R/W Type |
|-----------------|--------------------------|----------|
| 302-181-008-000 | PRIOR ROBERT D TR        | PRE, TCE |
| 302-151-019-000 | CHAMBERLAIN ANDREW SUCTR | PRE, TCE |
| 302-151-020-000 | JACOBSON LOU & ELIZABETH | TCE      |

## UTILITIES

The Humboldt Community Services District (HCSD) owns and operates a 12" water line that is connected to the north side of the existing Swain Slough Bridge. This water line serves the Humboldt Hill area. HCSD requires this water line remain in service due to the lack of a redundant loop facility within their system.

HCSD will be relocating this waterline using Horizontal Directional Drilling (HDD) that will occur before the construction of the new bridge. The alignment of the new water line has been coordinated with the design of the new bridge and will not be in conflict once it has been relocated. HCSD will include BMPs in the project and will provide details of the process to address the Coastal Commission concerns including "frac-out".



Figure 3: Existing Water Line

## ENVIRONMENTAL/PERMITS

The replacement of the Swain Slough Bridge will require both CEQA and NEPA clearances. As the delegated Federal Highway Administration lead agency due to the use of federal funds, Caltrans has determined that the project is a NEPA Categorical Exclusion under 23 CFR 771.117(d): activity (d)(13). Humboldt County as the CEQA lead agency has determined that this project fits the definition of a Class 2 Categorical Exemption (CEQA Guidelines, Section 15302) as it involves the replacement of an existing public facility on the same site with the same purpose and capacity as the structure being replaced. Furthermore, this project has been analyzed under both CEQA and NEPA and it has been determined that the project, as designed, will not adversely impact air quality, water quality, historical or cultural resource, or any other environmental area. The project will improve vehicular/pedestrian/bicyclist safety and reduce the potential of accidents and injuries. This project fits within the definition of the Class 2 Categorical Exemption as set forth in CEQA Guidelines, Section 15302. Additionally, Humboldt County has determined that none of the exceptions to the Categorical Exemptions set forth in CEQA Guidelines, Section 15300.2, apply. As such, Humboldt County has concluded that this Categorical Exemption applies to this project.



The technical studies to support these determinations include:

### **Cultural Resources**

An Archaeological Study Report (ASR) and Historic Property Study Report (HPSR) were prepared in January of 2013 and it was determined that there are no cultural or historical resources within the project area, therefore there will be No Historic Properties Affected by the project.

### **Biological Resources**

A Biological Assessment/Essential Fish Habitat Assessment (BA/EFHA) was submitted to the National Marine Fisheries Service (NMFS) to address potential impacts to federally listed fish species. NMFS completed the Section 7 consultation and issued a Biological Opinion on September 25, 2015 which concluded that the project is likely to adversely affect Northern California DPS steelhead, SON CC ESU coho salmon, and California Coastal ESU Chinook salmon, but is not likely to jeopardize the species. NMFS also concluded the project is likely to result in an adverse effect to critical habitat for the Coastal SON CC ESU coho salmon, California ESU Chinook salmon ESU, and the Northern California DPS steelhead. The project is not likely to destroy or adversely modify critical habitat. In the Biological Opinion (BO), the National Marine Fisheries Service determined that incidental take would occur to all three salmonid species in the form of capture during fish relocation and by exposure to lethal noise levels resulting from pile driving. NMFS expects no more than one juvenile of each species to be injured and no more than two juveniles of each species will be killed as a result of constructing the project. NMFS also concluded that the project would adversely affect Essential Fish Habitat for Pacific salmon species. While the proposed action contains measures to minimize adverse effects to EFH, NMFS provided additional conservation measures to further offset the adverse effects.

The BA/EFHA was also submitted to the U.S. Fish and Wildlife Service (USFWS) to address potential impacts to the federally listed tidewater goby. The USFWS completed the Section 7 consultation and issued a Biological Opinion on September 24, 2015 which concluded that the project is likely to adversely affect the species but is not likely to jeopardize the species. They also concluded the project action area is not located within designated critical habitat for the species. In the BO, USFWS determined that incidental take would occur to tidewater goby in the form of capture during fish relocation and/or during dewatering activities. The USFWS expects no more than five adult gobies to be injured or killed as a result of constructing the Project. Conservation measures to reduce impacts to salmonids and gobies will be followed and are included in the attached Environmental Commitment Record (ECR).

A Natural Environment Study was prepared in October 2014 and included a wetland delineation. The delineation found that U.S. jurisdictional waters and three-parameter wetlands occupy 0.989 acres of the BSA. State jurisdictional waters and two- and one-parameter coastal wetlands occupy 1.165 acres of the BSA. The project design minimized impacts on wetlands to the extent practicable. All other design considerations would have a greater impact on wetlands. Since the project design with the least impact on wetlands was selected, the project is in compliance with the Wetlands Only Practicable Finding Alternative. Minimization measures to reduce impacts on wetlands and waters are included in the ECR. A Wetlands Mitigation and Monitoring Plan shall be prepared and provided to the U.S. Army Corps of Engineers, North Coast RWQCB, California Coastal Commission, and the CDFW for review and approval.



### **Farmlands**

The project will have no permanent impact on prime or unique farmland. Temporary impacts on non-prime agricultural land will be less than significant.

### **Floodplain**

The project will not result in any longitudinal or significant encroachment on the 100-year flood plain.

### **Other Environmental Considerations**

Review of the project site and project plans indicate that the project would not result in substantial adverse impacts to the visual environment. Other than a temporary increase in ambient noise from heavy equipment working during construction hours there are no long-term sound impacts associated with the project. Upon project completion, noise levels will return to pre-construction ambient levels. There are no known hazardous waste issues in the project area.

### **Permits**

- 404 Permit from the U.S. Army Corps of Engineers
- 401 from the Regional Water Quality Control Board
- 1602 from the Department of Fish and Wildlife
- Coastal Development Permit from the California Coastal Commission

### **GEOTECHNICAL/FOUNDATIONS**

SHN Consulting Engineers & Geologist submitted a preliminary foundation memorandum for the proposed bridge on September of 2012 shown in Appendix I. Foundations for the abutments will most likely consist of Caltrans Class-45 standard driven pile foundations. A Preliminary Foundation Report will be provided prior to the design phase of the project.

### **SEISMIC**

The project site is located within one of the most seismically active areas of the State. Caltrans Seismic Design Criteria version 1.6 (November 2010) will be utilized for the bridge design. Quincy will perform an equivalent static seismic analysis of the proposed bridge. The recommended ARS curve for seismic design will be provided by the geotechnical engineer and included in the foundation report.

### **FALSEWORK**

Falsework will not be required within the limits of the slough for the preferred precast concrete girder alternative. This will be a great advantage to minimize impact to the project site compared to other cast in place alternatives. This will also benefit the construction schedule by reducing the overall time needed to construct the bridge.



## DECK PROTECTION

This project is located within a marine environment, therefore additional corrosion mitigation techniques is required. Special protection measures such as thicker concrete cover and epoxy coated reinforcement are required to provide proper protection.

## HYDRAULICS

The clear span of the proposed bridge is longer than the current structure and will improve the existing hydraulic condition. Furthermore, the vertical profile of the proposed bridge is being raised such that the entire superstructure will clear the anticipated King Tide elevation. A draft design hydraulic and location hydraulic study report has been prepared and is included in Appendix J.

The Pine Hill Road over Swain Slough Bridge Replacement Project (Project) site crosses over Swain Slough immediately downstream of its confluence with Martin Slough. The mouth of Martin Slough is separated from Swain Slough by a levee and tide gates. The confluence of Swain Slough with Elk River is 0.5 mi downstream of the Project site. Elk River eventually drains into Humboldt Bay approximately 1.5 mi further downstream. Because of its close proximity to Humboldt Bay, the project is tidally influenced.



*Figure 4: Profile view looking north*

The peak discharges for Swain/Martin sloughs were estimated using a rainfall/runoff model. The 100-year and 50-year peak discharge values for Swain/Martin sloughs were estimated to be 2,490 cubic feet per second (cfs) and 2,200 cfs, respectively. The hydraulic characteristics at the Project site were evaluated using the Hydrologic Engineering Centers River Analysis System (HEC-RAS) modeling software, Version 4.1.0 developed by the U.S. Army Corps of Engineers (USACE).

### 100-Year Water Surface Elevations and Freeboard at Upstream Face of Bridges

| Alternative | Lowest Bridge Soffit Elevation (ft*) | Water Surface Elevation (ft*) | Available Freeboard (ft) |
|-------------|--------------------------------------|-------------------------------|--------------------------|
| Existing    | 9.3                                  | 12.1                          | -2.8                     |
| Proposed    | 8.9                                  | 12.1                          | -3.2                     |

Note: \* The elevations reference the North American Vertical Datum of 1988 (NAVD 88)



### 50-Year Water Surface Elevations and Freeboard at Upstream Face of Bridges

| Alternative | Lowest Bridge Soffit Elevation (ft*) | Water Surface Elevation (ft*) | Available Freeboard (ft) |
|-------------|--------------------------------------|-------------------------------|--------------------------|
| Existing    | 9.3                                  | 11.5                          | -2.2                     |
| Proposed    | 8.9                                  | 11.5                          | -2.6                     |

Note: \* The elevations reference the North American Vertical Datum of 1988 (NAVD 88)

The proposed bridge is designed based on the tidal elevations at Humboldt Bay and there are provisions to raise the bridge in the future to address sea level rise, but the currently proposed bridge is not designed to account for sea level rise. The bridge foundations are designed for the superstructure to be able to be raised in the future to accommodate sea level rise. Sea level rise estimates for the Project site were estimated using information from the following three studies:

- The Probability of Sea Level Rise (Environmental Protection Agency [EPA]1995)
- Climate Change Scenarios and Sea Level Rise Estimates for the California 2009
- Climate Change Scenarios Assessment (Cayan 2009), and
- The Proceedings of National Academy of Science (PNAS) (Vermeer and Rahmstorf 2009)

### Sea Level Rise Estimates for the Year 2100 near Humboldt Bay, California

| Method/Source | Sea Level Rise (ft) |      |
|---------------|---------------------|------|
|               | High                | Low  |
| EPA           | 3.0                 | -0.8 |
| CAYAN         | 4.6                 | 3.3  |
| PNAS          | 4.9                 | 1.3  |

### CHANNEL SCOUR/SLOPE PROTECTION

Based on field reviews and the maintenance report history, scour is a concern that needs to be addressed at this site. Appropriate protective countermeasures include placement of rock slope protection along each embankment slope in order to provide a more stable slough and reduce erosion along the abutment slopes. Vibrated permanent sheet piling will be installed to a depth that is below the anticipated scour which will protect the abutments in the future. The new abutments will be placed further apart to improve flow characteristics in the stream channel.

### CONSTRUCTION COSTS

The bridge construction cost for the preferred alternative is based on the 30% level design which is estimated to be \$1,206,000. A 10% mobilization and 25% contingency was assumed when computing the total cost from the current level of design. Construction cost estimates for the preferred alternative is detailed and shown on Table 1. The construction costs analysis estimates have been presented based on Caltrans Comparative Bridge Cost and preliminary roadway quantities with unit prices from similar projects. Table 2 includes cost estimates





associated with utility coordination/relocation, right-of-way, environmental mitigation, or construction engineering that are eligible for federal aid.

**Table 1: Structure Construction Cost**

| Alternative                            | Bridge Square Footage | Total Construction Cost |
|--|-----------------------|-------------------------|
| Preferred Alt. – PC/PS W-Flange Girder | 2,720 sq. ft.         | \$1,206,000             |

**Table 2: Construction Cost Analysis**

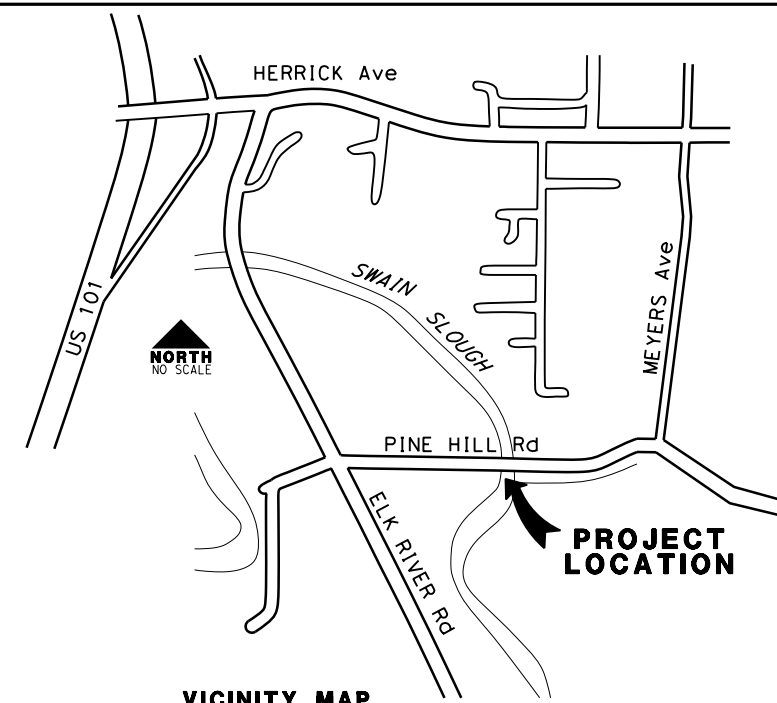
| Construct Bridge | Bridge Removal | Slope Protection | Channel Work | Detour   | Approach Roadway | Utility Relocation | Mobilization | Total Construction |
|------------------|----------------|------------------|--------------|----------|------------------|--------------------|--------------|--------------------|
| \$1,206,000      | \$50,400       | \$25,000         | \$40,000     | \$10,000 | \$499,000        | \$0                | \$183,000    | \$2,013,000        |

## CONCLUSIONS

An 80' single-span precast-prestressed concrete wide flange girder built on the existing horizontal alignment is the preferred structure type. With many bridge type comparison issues such as cost, foundations, and constructability being considered, precast-prestressed concrete wide flange girder is the most ideal replacement type at this site.

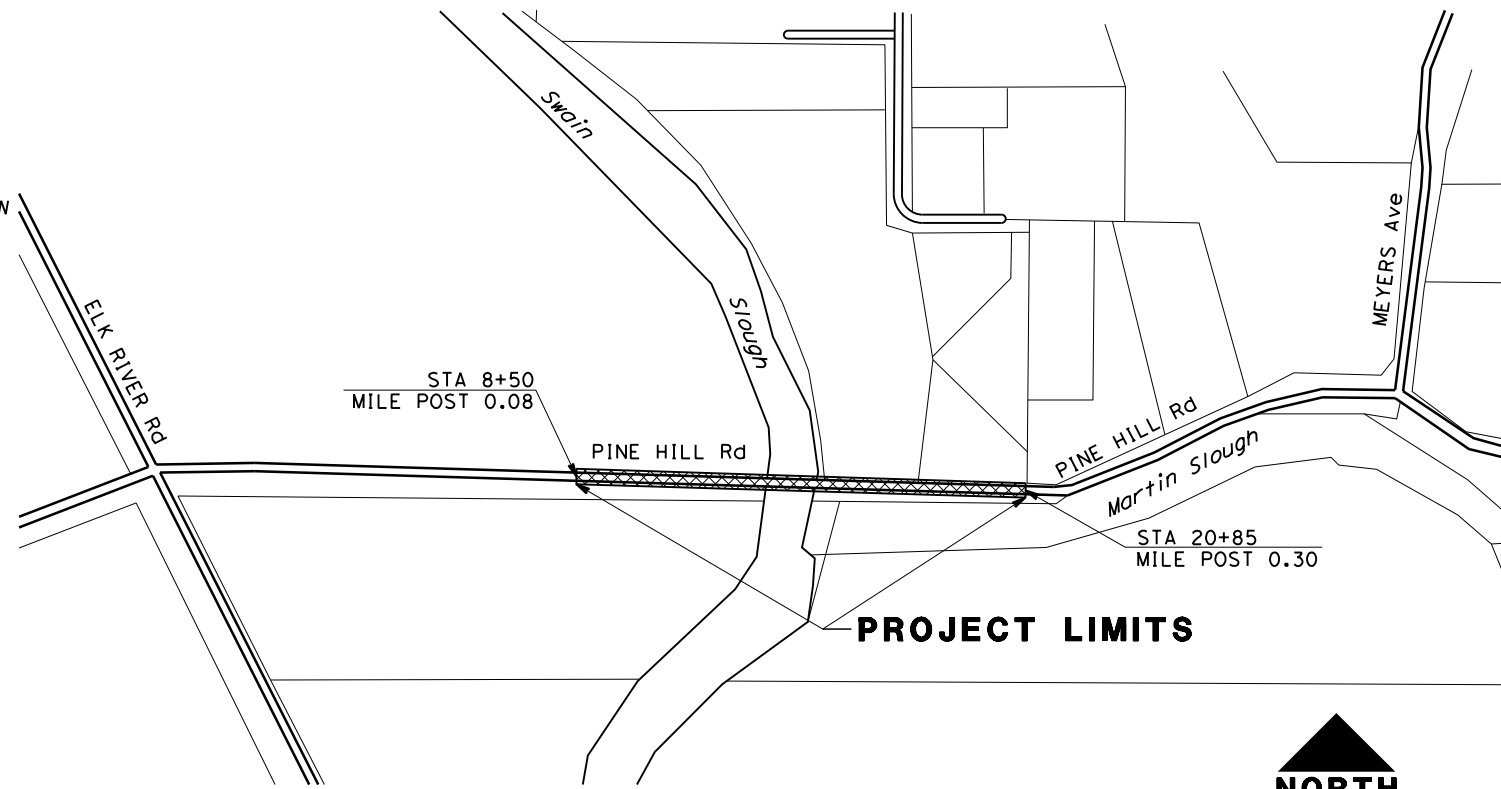
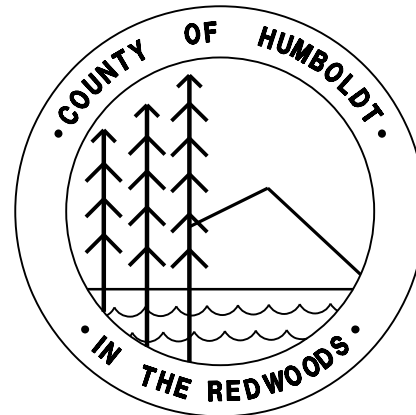
## ATTACHMENTS

- A. Preliminary Environmental Study
- B. Type Selection Memo
- C. NEPA Determination
- D. CEQA Determination
- E. Natural Environment Study
- F. Archaeological Study Report (ASR)
- G. Historic Property Study Report (HPSR)
- H. Preferred Alternative
- I. Preliminary Project Cost Estimates
- J. Preliminary Foundation Report
- K. Hydraulics Information
- L. Bridge Inspection Records Information System Report



VICINITY MAP  
NOT TO SCALE

COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
PROJECT PLANS FOR CONSTRUCTION OF  
**PINE HILL ROAD  
OVER SWAIN SLOUGH BRIDGE No. 04C0260**  
FEDERAL PROJECT NO. BRLO-5904[112]

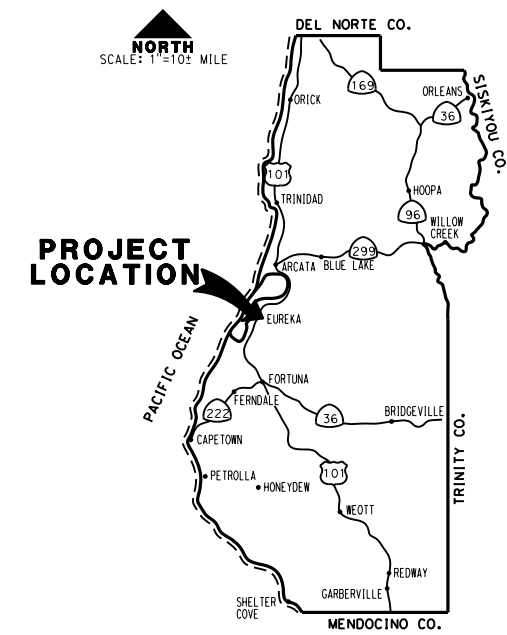


VICINITY MAP

|  |                           |
|--|---------------------------|
| ROAD NAME: PINE HILL ROAD  | DESIGNED BY: KP           |
| ROAD NO.: 3J430  | MILE POST: 0.19           |
| PROJECT NO.: BRLO-5904(112)  | EA NO.:                   |
| CONTRACT NO.: 594020   | PPNO.:                    |
| DRAWING FILE NAME: S:\Client\Humboldt\07-300 Pine Hill\CAD\Roadway\07300rdb001.dgn | REVIEWED BY: JJ           |
| PLOT DATE: 12-3-2019   | REVISION DATE: 11-19-2019 |
| APPROVED BY:   |                           |

|  |
|--|
| COUNTY OF HUMBOLDT<br>DEPARTMENT OF PUBLIC WORKS |
| <b>PINE HILL ROAD BRIDGE OVER SWAIN SLOUGH</b>   |
| COVER SHEET,<br>SHEET INDEX AND DETAILS          |

SHEET  
**1**  
OF  
**28**



LOCATION MAP  
SCALE: 1"=10± MILE

**APPLICABLE STANDARD PLANS**

CALTRANS STANDARD PLANS DATED 2018.  
(SEE SPECIAL PROVISIONS STANDARD PLAN LIST)

**NOTES**

THE CONTRACTOR SHALL HAVE A CLASS "A" LICENSE  
FOR THIS PROJECT.

**INDEX OF SHEETS**

- ROADWAY PLANS
- 1 COVER SHEET
- 2 TYPICAL CROSS SECTIONS
- 3 LAYOUT
- 4 PROFILE
- 5 CONSTRUCTION DETAILS
- 6 EROSION CONTROL PLAN
- 7 CONTOUR GRADING AND ROCK SLOPE PROTECTION
- 8 DRAINAGE PLAN
- 9 DRAINAGE PROFILES
- 10 DRAINAGE DETAILS
- 11 UTILITY PLAN
- 12 DETOUR PLAN
- 13 SUMMARY OF QUANTITIES
- STRUCTURE PLANS
- 14 GENERAL PLAN
- 15 DECK CONTOURS
- 16 FOUNDATION PLAN
- 17 ABUTMENT LAYOUT
- 18 ABUTMENT DETAILS No.1
- 19 ABUTMENT DETAILS No.2
- 20 TYPICAL SECTION
- 21 GIRDER LAYOUT
- 22 WIDE FLANGE GIRDER DETAILS No.1
- 23 WIDE FLANGE GIRDER DETAILS No.2
- 24 CONSTRUCTION SEQUENCE
- 25 MISCELLANEOUS DETAILS

**BASIS OF BEARINGS**

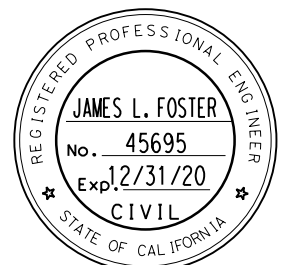
CC83 EPOCH 2007.00 BASED ON CONTROL BY BRIAN SOUSA. PLS  
FOR LIDAR SURVEY (PT NOS. 1510 & 1512)  
CONVERGENCE ANGLE 01°25'43"  
COMBINATION FACTOR 0.999900144

**BASIS OF ELEVATION**

NAVD88 BASED ON SAME SOUSA SURVEY  
(WHICH WAS VIA STATIC GPS TIES TO NGS CONTROL AT MURRAY FIELD)

**RECOMMENDED**

*James L. Foster* 12/3/2019  
DATE



**APPROVED**

HUMBOLDT COUNTY DATE



|                        |                       |                      |
|------------------------|-----------------------|----------------------|
| ORIGINAL LOW BID PRICE | CONSTRUCTED BY        | RESIDENT ENGINEER    |
|                        | PROJECT COMPLETED / / | CONSTRUCTION COST \$ |

**NOTES:**

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. CLASS 2 AGGREGATE BASE EXTENDED AT SAME DEPTH UNDER APPROACH SLAB.
3. FOR DITCH FLOW ELEVATIONS, SEE DRAINAGE DETAILS



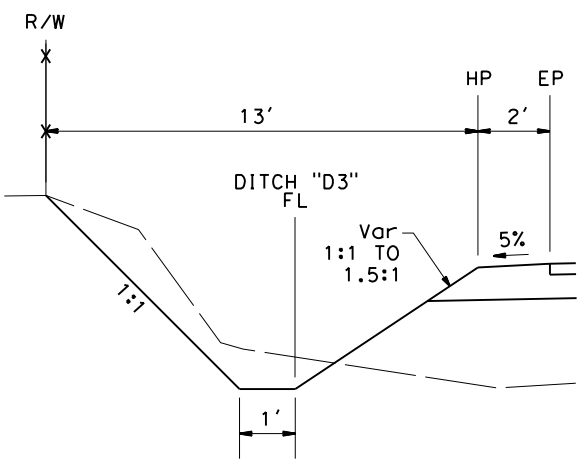
BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

|  |                           |                 |
|--|---------------------------|-----------------|
| ROAD NAME: PINE HILL ROAD  | MILE POST: 0.19           | DESIGNED BY: KP |
| ROAD NO.: 3J430  | EA NO.:                   | DRAWN BY: KP    |
| PROJECT NO.: BRLO-5904(112)  | PPNO.:                    | REVIEWED BY: JJ |
| CONTRACT NO.: 594020   |                           | APPROVED BY:    |
| DRAWING FILE NAME: S:\Client\Humboldt\07-300 Pine Hill\CAD\Roadway\07300rca001.dgn |                           |                 |
| PLOT DATE: 12-3-2019   | REVISION DATE: 11-19-2019 |                 |

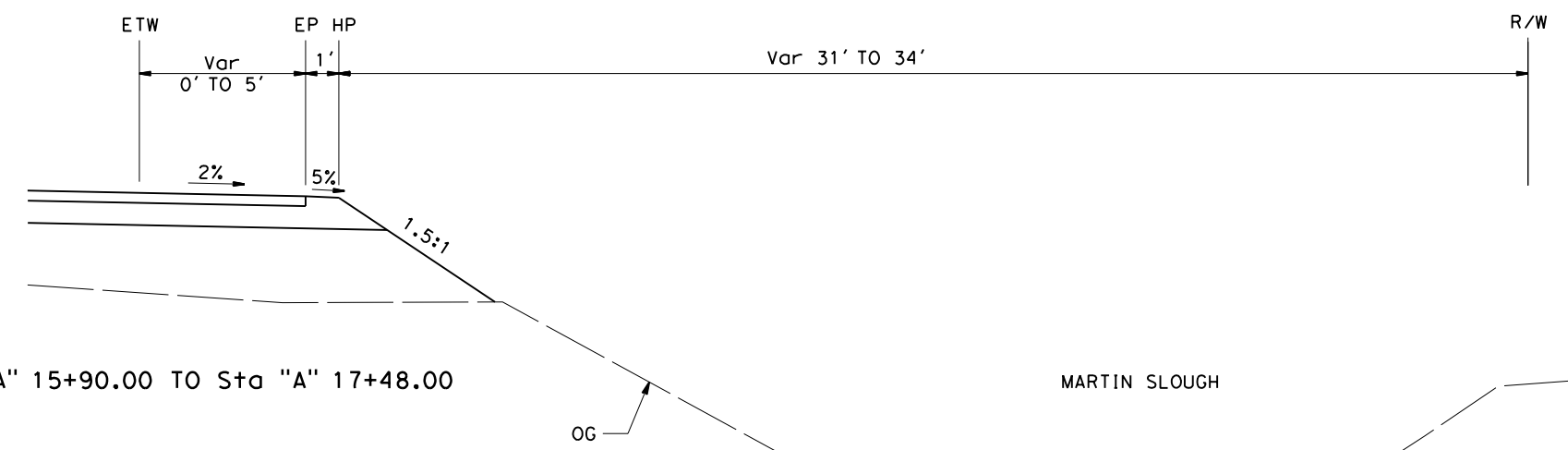
|  |                                      |
|--|--------------------------------------|
| COUNTY OF HUMBOLDT<br>DEPARTMENT OF PUBLIC WORKS | SHEET<br><b>2</b><br>OF<br><b>28</b> |
| PINE HILL ROAD BRIDGE OVER SWAIN SLOUGH          |                                      |
| TYPICAL CROSS SECTIONS                           |                                      |

**DESIGN DESIGNATION (COUNTY ROAD)**

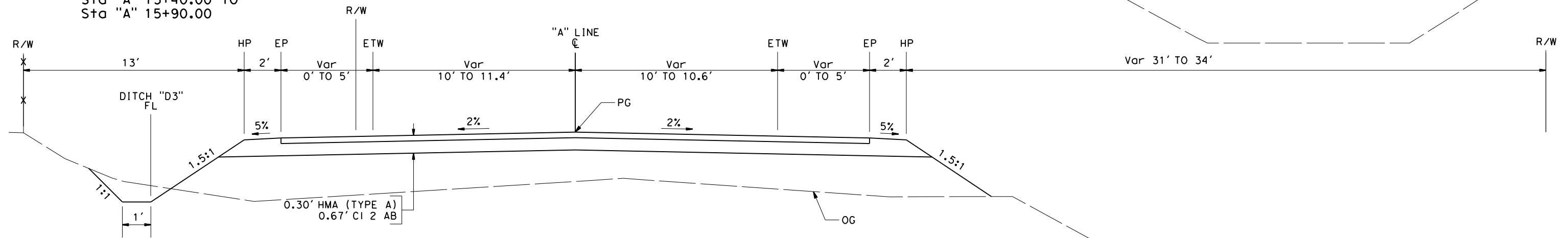
2009 ADT = 341  
2036 ADT = 582  
TRUCKS= 3% V = 35 MPH  
LOCAL RURAL ROAD



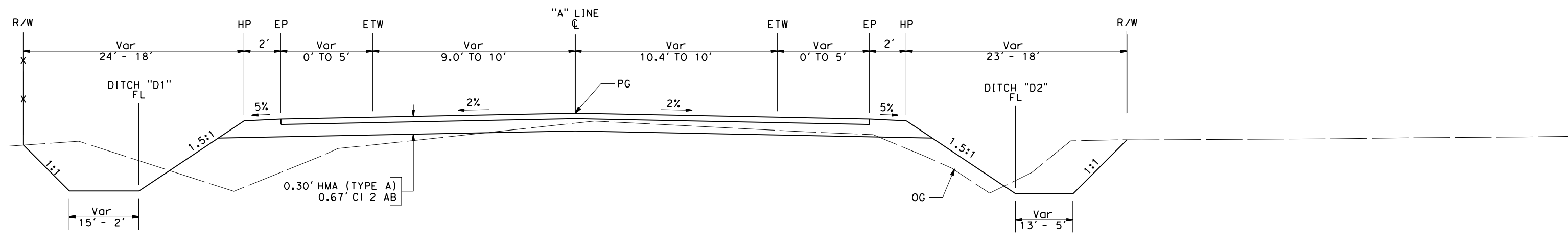
Sta "A" 15+40.00 TO Sta "A" 15+90.00



Sta "A" 15+90.00 TO Sta "A" 17+48.00



**PINE HILL ROAD**  
Sta "A" 15+23.00 EB TO Sta "A" 17+48.00



**PINE HILL ROAD**  
Sta "A" 11+93.00 TO Sta "A" 14+43.00 BB

**NOTES:**

- FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.
- PINE HILL ROAD TO MYERS (MEYERS) AVE - 60' WIDE PER 62 DEEDS 372 UNABLE TO LOCATE POINT OF BEGINNING-HELD EXISTING ROAD AS BEST EVIDENCE OF DEEDED R/W. ALSO 60' WIDE PER BOOK 6 OF MAPS PAGE 40 (PT NOS. 417, 418, 421 & 422) NOTE THIS DOES NOT FIT EXISTING ROAD VERY WELL.
- IMPLIED COMMON LAW DEDICATION FOR OTHER AREAS FALLING WITHIN MAINTAINED ROAD VIA LONG TERM PUBLIC USE AND MAINTENANCE BY THE COUNTY.
- TRAFFIC STRIPES SHALL BE 4" WIDE, MODIFIED FROM CALTRANS STANDARD PLANS A20A AND A20B.



BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

|                             |  |                 |
|-----------------------------|--|-----------------|
| ROAD NAME: PINE HILL ROAD   | MILE POST: 0.19  | DESIGNED BY: KP |
| ROAD NO.: 3J430             | EA NO.:  | DRAWN BY: KP    |
| PROJECT NO.: BRLO-5904(112) | PPNO.:   | REVIEWED BY: JJ |
| CONTRACT NO.: 594020        | DRAWING FILE NAME: S:\Client\Humboldt\07-300 Pine Hill\CAD\Roadway\07300red001.dgn | APPROVED BY:    |
| PLOT DATE: 12-3-2019        | REVISION DATE: 11-19-2019  |                 |

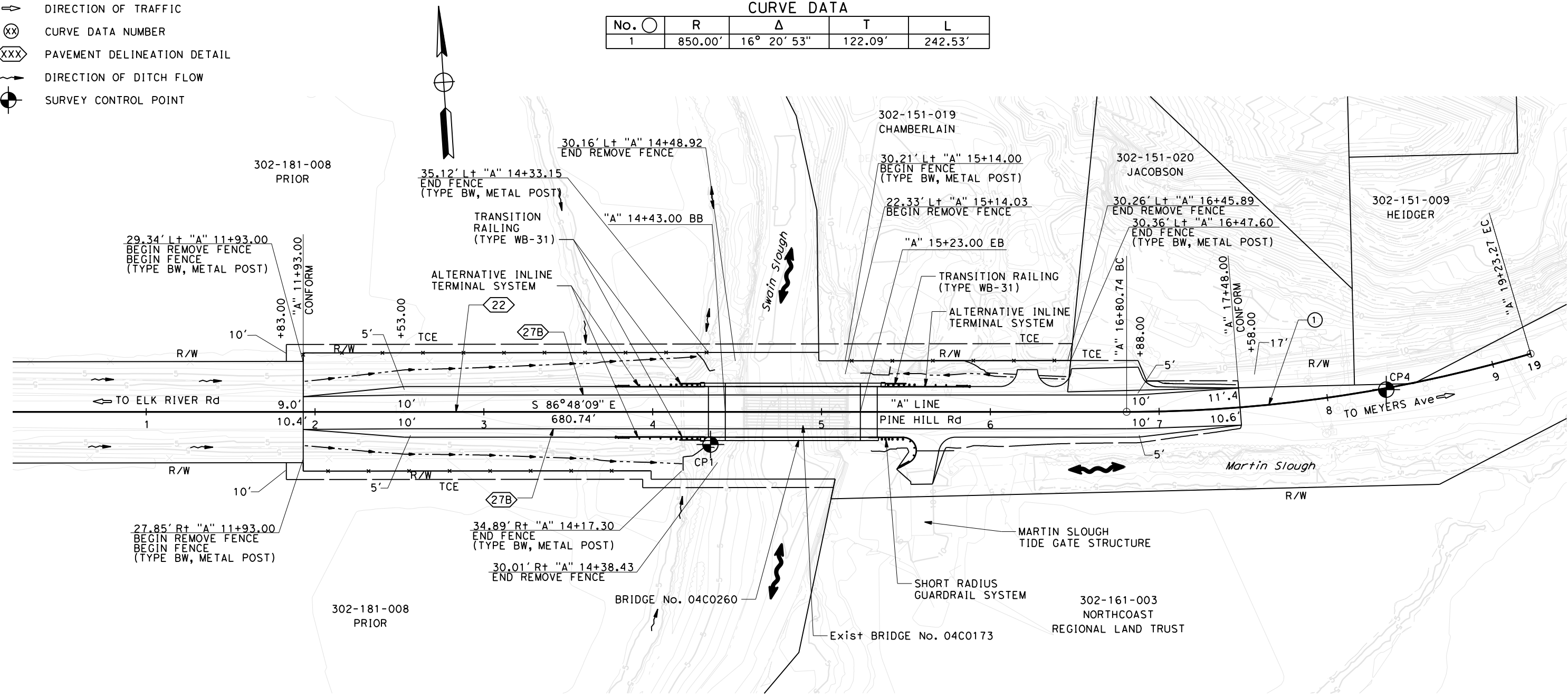
|  |                  |
|--|------------------|
| COUNTY OF HUMBOLDT<br>DEPARTMENT OF PUBLIC WORKS | SHEET 3<br>OF 28 |
| PINE HILL ROAD BRIDGE OVER SWAIN SLOUGH          |                  |
| LAYOUT   |                  |

**LEGEND:**

- DIRECTION OF TRAFFIC
- CURVE DATA NUMBER
- PAVEMENT DELINEATION DETAIL
- DIRECTION OF DITCH FLOW
- SURVEY CONTROL POINT

**CURVE DATA**

| No. | R       | Δ           | T       | L       |
|-----|---------|-------------|---------|---------|
| 1   | 850.00' | 16° 20' 53" | 122.09' | 242.53' |



**SURVEY CONTROL DATA**

| No. | NORTHING    | EASTING     | ELEV   | LINE | STATION  | OFFSET    | DESCRIPTION          |
|-----|-------------|-------------|--------|------|----------|-----------|----------------------|
| CP1 | 2164937.002 | 5957031.194 | 10.172 | "A"  | 14+34.23 | 19.36' Rt | SET 80DSPIKE         |
| CP2 | 2165008.312 | 5956085.236 | 9.142  | "A"  |          |           | BRASSCAPHUMCORE19203 |
| CP4 | 2164947.122 | 5957432.660 | 9.366  | "A"  | 18+35.19 | 0.88' Rt  | SET MAGNAIL&DPWTAG   |
| CP5 | 2165073.438 | 5957926.179 | 8.956  | "A"  |          |           | FD1510               |

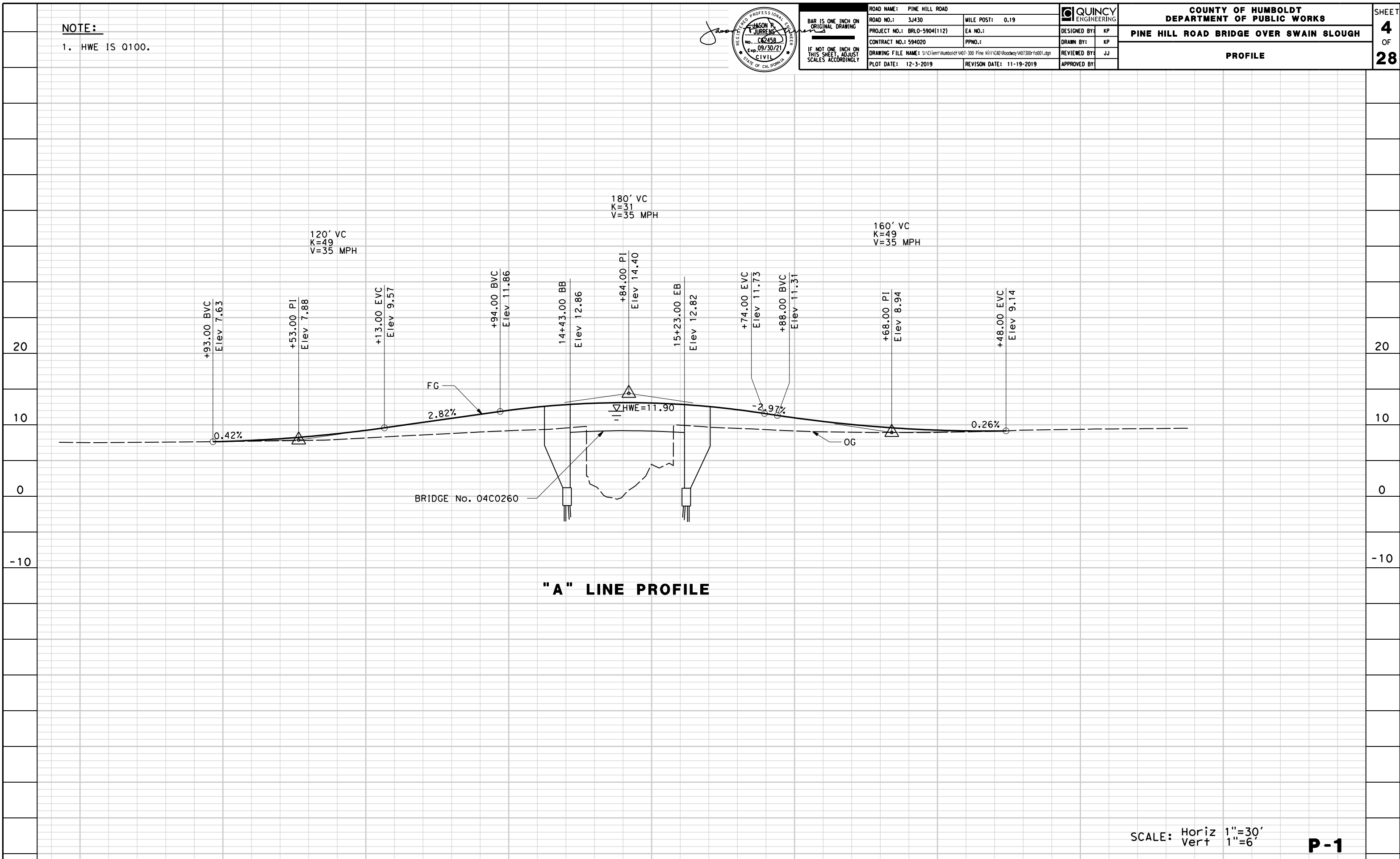
NOTE:  
1. HWE IS 0100.



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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

|                             |   |                 |
|-----------------------------|---|-----------------|
| ROAD NAME: PINE HILL ROAD   | MILE POST: 0.19   | DESIGNED BY: KP |
| ROAD NO.: 3J430             | EA NO.:   | DRAWN BY: KP    |
| PROJECT NO.: BRLO-5904(112) | PPNO.:  | REVIEWED BY: JJ |
| CONTRACT NO.: 594020        | DRAWING FILE NAME: S:\Client\Humboldt\07-300 Pine Hill\CAD\Roadway\07300r\001.dgn | APPROVED BY:    |
| PLOT DATE: 12-3-2019        | REVISION DATE: 11-19-2019   |                 |

|  |               |
|--|---------------|
| COUNTY OF HUMBOLDT<br>DEPARTMENT OF PUBLIC WORKS | SHEET 4 OF 28 |
| PINE HILL ROAD BRIDGE OVER SWAIN SLOUGH          |               |
| PROFILE  |               |



"A" LINE PROFILE

SCALE: Horiz 1"=30'  
Vert 1"=6'

P-1

|         |       |       |       |       |       |       |       |       |       |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| STATION | 11+00 | 12+00 | 13+00 | 14+00 | 15+00 | 16+00 | 17+00 | 18+00 | TOTAL |
| Exc     |       |       |       |       |       |       |       |       |       |
| Emb     |       |       |       |       |       |       |       |       |       |

**NOTES:**

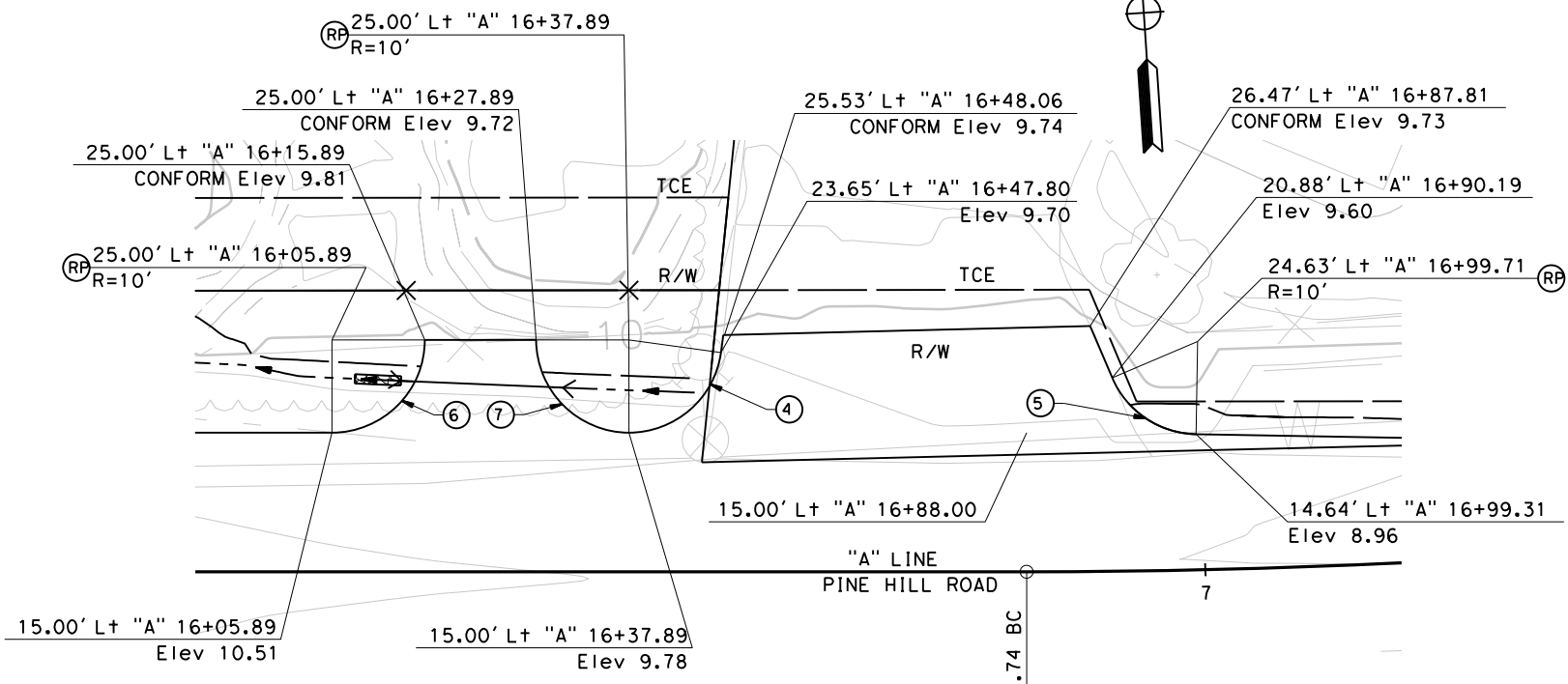
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.



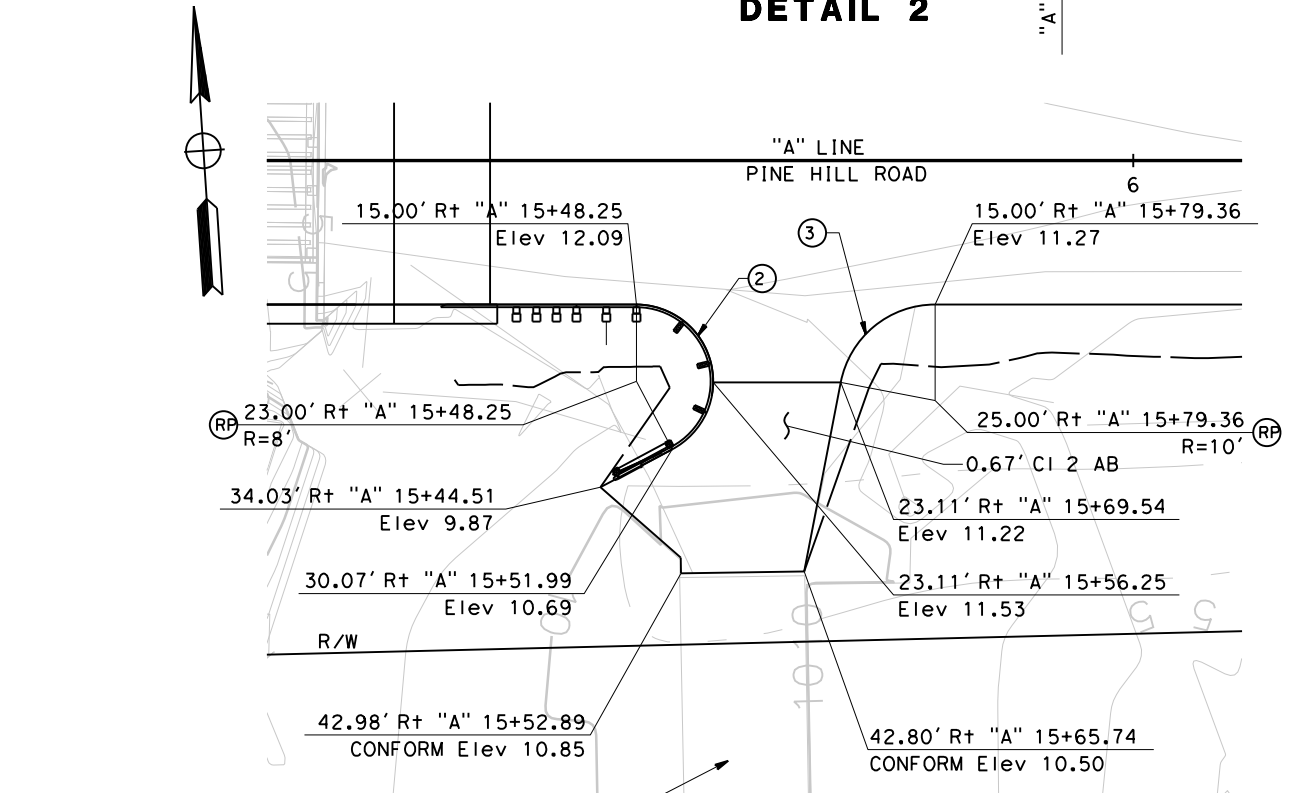
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

|  |                           |                 |
|--|---------------------------|-----------------|
| ROAD NAME: PINE HILL ROAD  | MILE POST: 0.19           | DESIGNED BY: KP |
| ROAD NO.: 3J430  | EA NO.:                   | DRAWN BY: KP    |
| PROJECT NO.: BRLO-5904(112)  | PPNO.:                    | REVIEWED BY: JJ |
| CONTRACT NO.: 594020   |                           | APPROVED BY:    |
| DRAWING FILE NAME: S:\Client\Humboldt\07-300 Pine Hill\CAD\Roadway\07300rpd001.dgn |                           |                 |
| PLOT DATE: 12-3-2019   | REVISION DATE: 11-19-2019 |                 |

|  |               |
|--|---------------|
| COUNTY OF HUMBOLDT<br>DEPARTMENT OF PUBLIC WORKS | SHEET 5 OF 28 |
| PINE HILL ROAD BRIDGE OVER SWAIN SLOUGH          |               |
| CONSTRUCTION DETAILS                             |               |



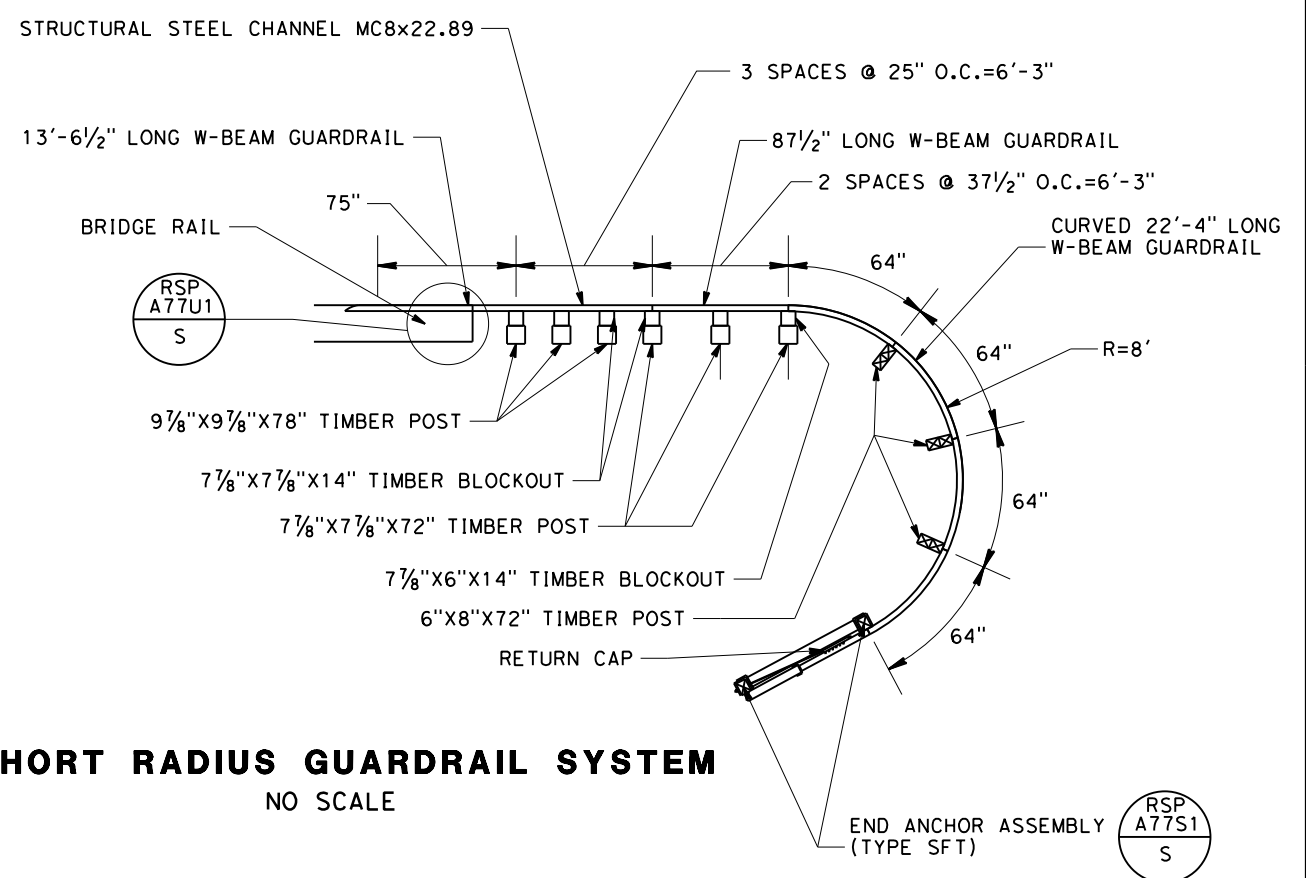
**DETAIL 2**



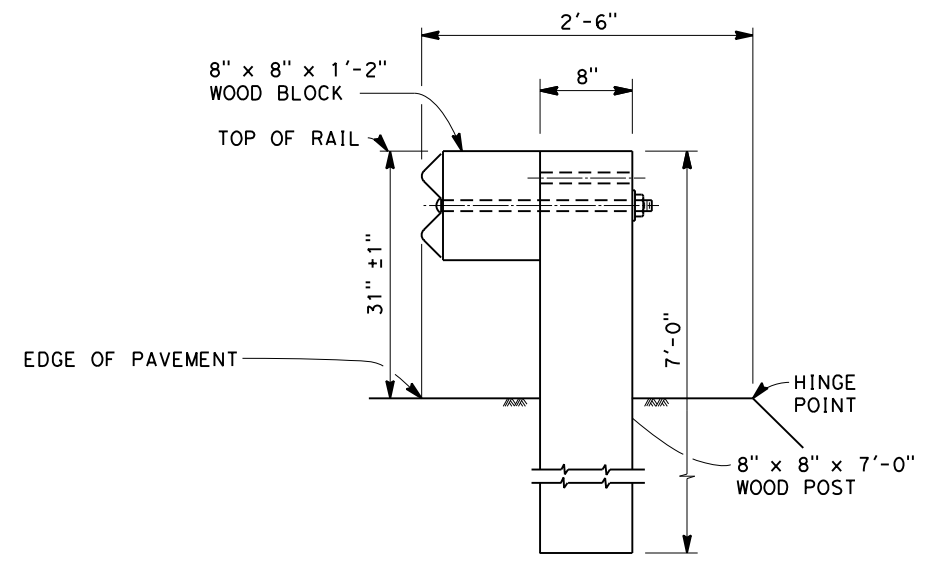
**DETAIL 1**

**CURVE DATA**

| No. ○ | R      | Δ            | T      | L      |
|-------|--------|--------------|--------|--------|
| 2     | 8.00'  | 100° 54' 40" | 9.69'  | 14.09' |
| 3     | 10.00' | 79° 05' 20"  | 8.26'  | 13.80' |
| 4     | 10.00' | 82° 13' 54"  | 8.73'  | 14.35' |
| 5     | 10.00' | 65° 59' 24"  | 6.49'  | 11.52' |
| 6     | 10.00' | 90° 00' 00"  | 10.00' | 15.71' |
| 7     | 10.00' | 90° 00' 00"  | 10.00' | 15.71' |



**SHORT RADIUS GUARDRAIL SYSTEM**  
NO SCALE



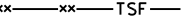


**NARROW ROADWAY INSTALLATION POST EMBEDMENT**  
NO SCALE

**NOTES:**

- FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.
- LOCATION OF FIBER ROLLS ARE SCHEMATIC. ACTUAL PLACEMENT LOCATIONS OF FIBER ROLLS SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

**LEGEND:**

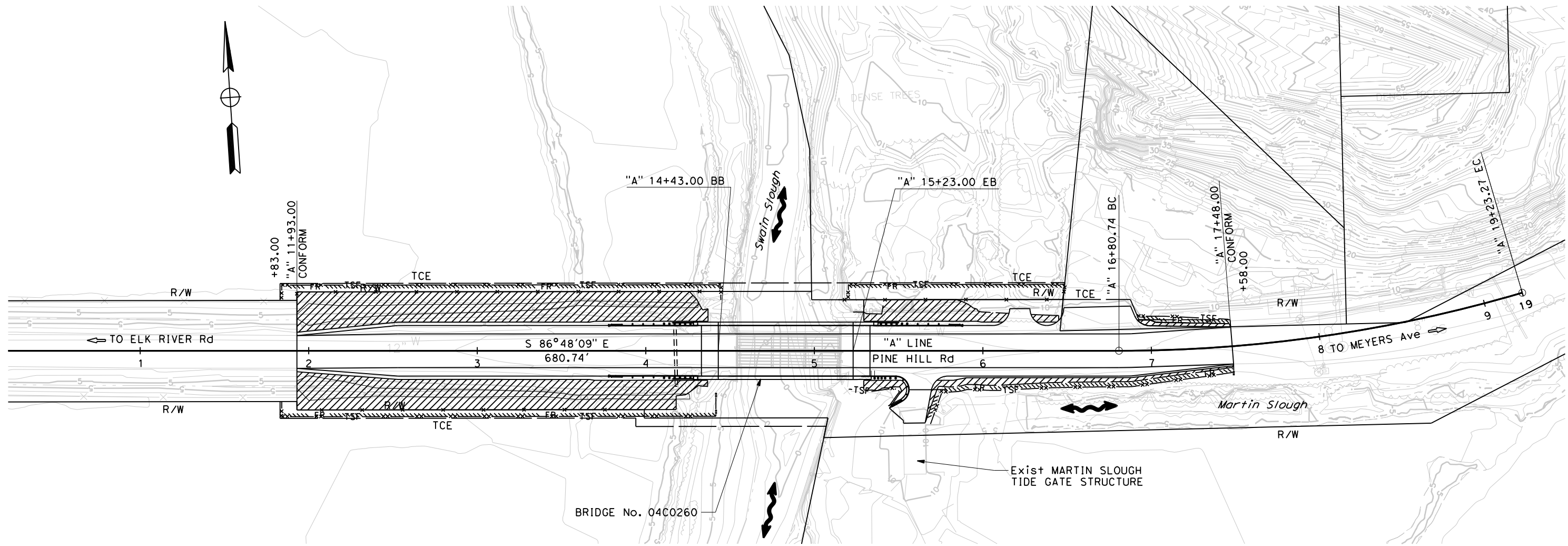
-  EROSION CONTROL
-  FR FIBER ROLL
-  TSF TEMPORARY HIGH-VISIBILITY FENCE



BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

|                             |  |                 |
|-----------------------------|--|-----------------|
| ROAD NAME: PINE HILL ROAD   | MILE POST: 0.19  | DESIGNED BY: KP |
| ROAD NO.: 3J430             | EA NO.:  | DRAWN BY: KP    |
| PROJECT NO.: BRLO-5904(112) | PPNO.:   | REVIEWED BY: JJ |
| CONTRACT NO.: 594020        | DRAWING FILE NAME: S:\Client\Humboldt\07-300 Pine Hill\CAD\Roadway\07300rge001.dgn | APPROVED BY:    |
| PLOT DATE: 12-3-2019        | REVISION DATE: 11-19-2019  |                 |

|  |               |
|--|---------------|
| COUNTY OF HUMBOLDT<br>DEPARTMENT OF PUBLIC WORKS | SHEET 6 OF 28 |
| PINE HILL ROAD BRIDGE OVER SWAIN SLOUGH          |               |
| EROSION CONTROL PLAN                             |               |



**EROSION CONTROL**

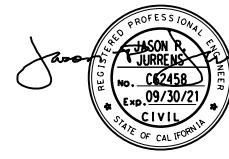
| SEQUENCE | ITEM                                     | MATERIAL    |                       | APPLICATION RATE | REMARKS            |
|----------|--|-------------|-----------------------|------------------|--------------------|
|          |  | DESCRIPTION | TYPE                  |                  |                    |
| STEP 1   | HYDROSEED                                | SEED        | MIX                   | 28 LB/ACRE       |                    |
|          |  | FIBER       | WOOD                  | 1000 LB/ACRE     |                    |
| STEP 2   | ROLLED EROSION CONTROL PRODUCT (BLANKET) | BLANKET     | TYPE A                |                  |                    |
| STEP 3   | FIBER ROLLS                              | FIBER ROLL  | 8 TO 10 INCHES IN Dia |                  | TYPE 2 INSTALATION |

**SEED MIX**

| BOTANICAL NAME (COMMON NAME)               | POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT) |
|--|--|
| WESTERN YARROW (ACHILLEA MILLEFOLIUM)      | 1  |
| SAN DIEGO BENTGRASS (AGROSTIS PALLENS)     | 1  |
| CLUSTERED FIELD SEDGE (CAREX PRAEGRACILIS) | 5  |
| SLENDER HAIRGRASS (DESCHAMPSIA ELONGATA)   | 1  |
| BARLEY (HORDEUM BRACHYANTHERUM)            | 20   |
| TOAD RUSH (JUNCUS BUFONIUS)                | 0  |

**NOTES:**

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.
2. FOR STEEL SHEET PILING, SEE BRIDGE PLANS.



BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

|                             |  |
|-----------------------------|--|
| ROAD NAME: PINE HILL ROAD   | MILE POST: 0.19  |
| ROAD NO.: 3J430             | EA NO.:  |
| PROJECT NO.: BRLO-5904(112) | PPNO.:   |
| CONTRACT NO.: 594020        | DRAWING FILE NAME: S:\Client\Humboldt\07-300 Pine Hill\CAD\Roadway\07300rhd001.dgn |
| PLOT DATE: 12-3-2019        | REVISION DATE: 11-19-2019  |

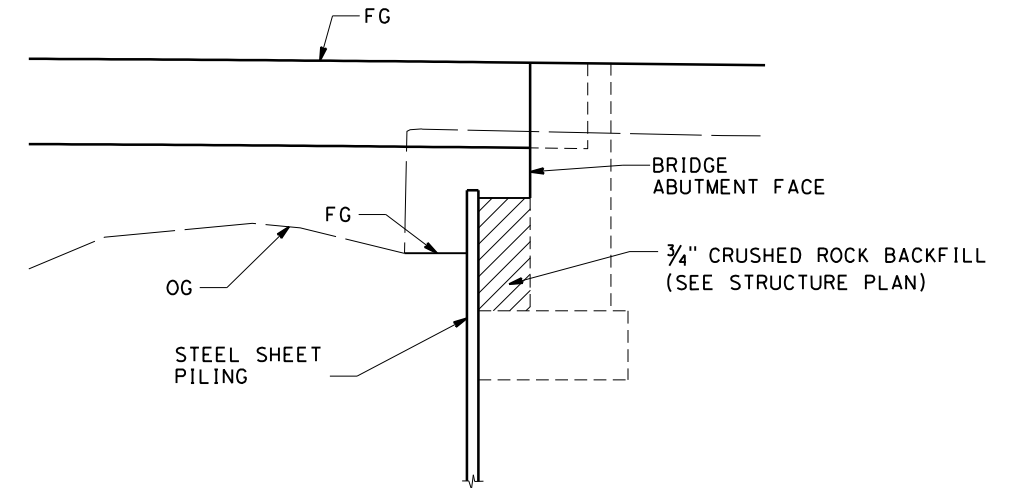
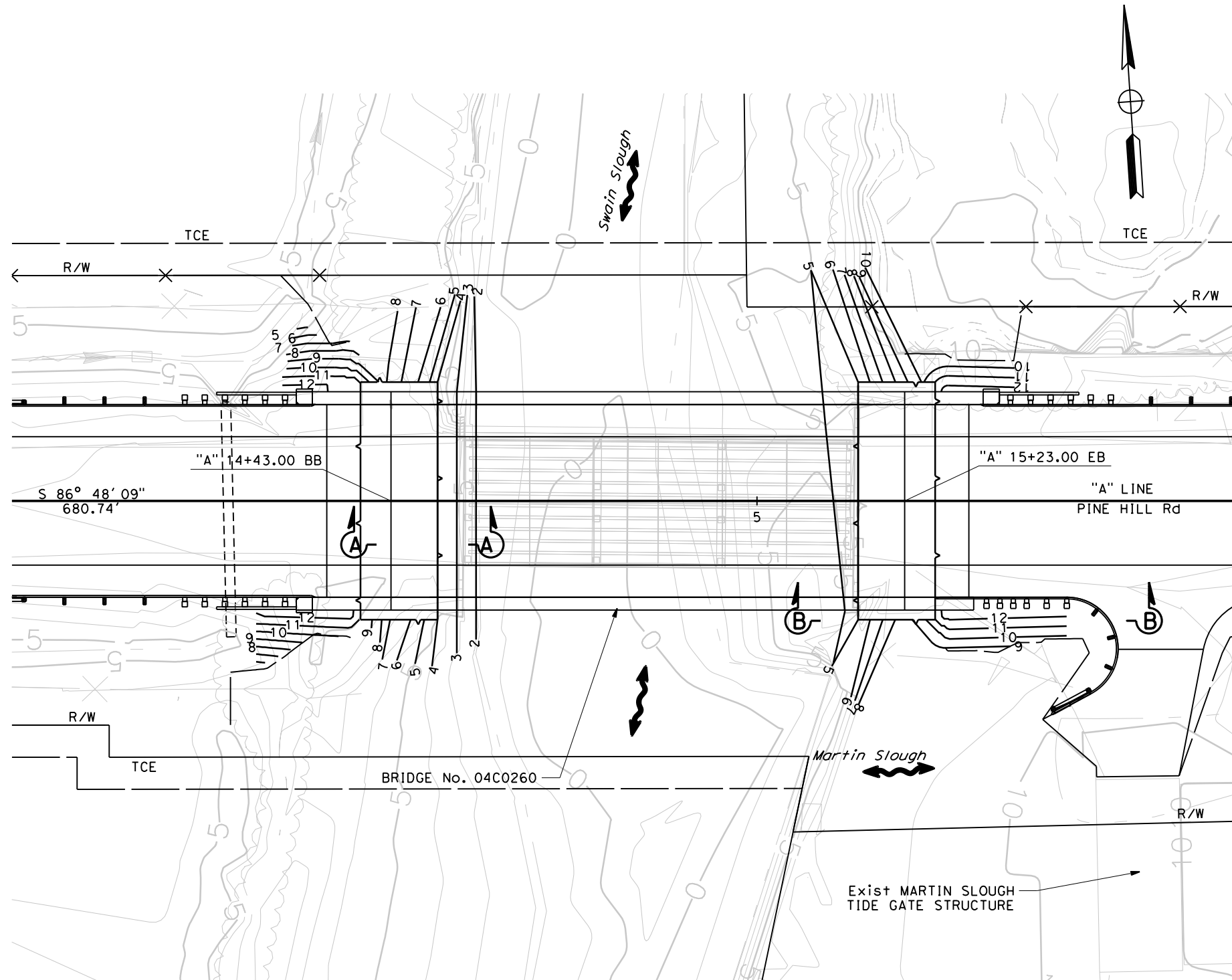
|                 |
|-----------------|
| DESIGNED BY: KP |
| DRAWN BY: KP    |
| REVIEWED BY: JJ |
| APPROVED BY:    |

|  |
|--|
| COUNTY OF HUMBOLDT<br>DEPARTMENT OF PUBLIC WORKS |
| PINE HILL ROAD BRIDGE OVER SWAIN SLOUGH          |
| CONTOUR GRADING AND<br>ROCK SLOPE PROTECTION     |

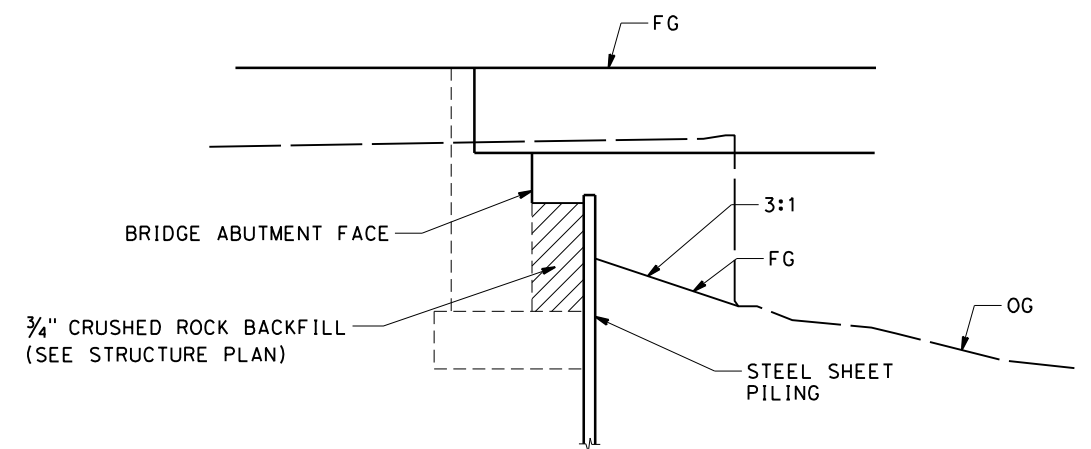
SHEET 7 OF 28

**LEGEND:**

— — — — — LIMITS OF STEEL SHEET PILING



**B-B**  
NO SCALE



**A-A**  
NO SCALE

THIS PLAN ACCURATE FOR CONTOUR GRADING WORK ONLY.



**NOTES:**

- FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.
- CONTRACTOR SHALL POSITIVELY DETERMINE ALL HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTIBILITY OF THE DRAINAGE SYSTEM AS SHOWN ON PLANS.

**LEGEND:**

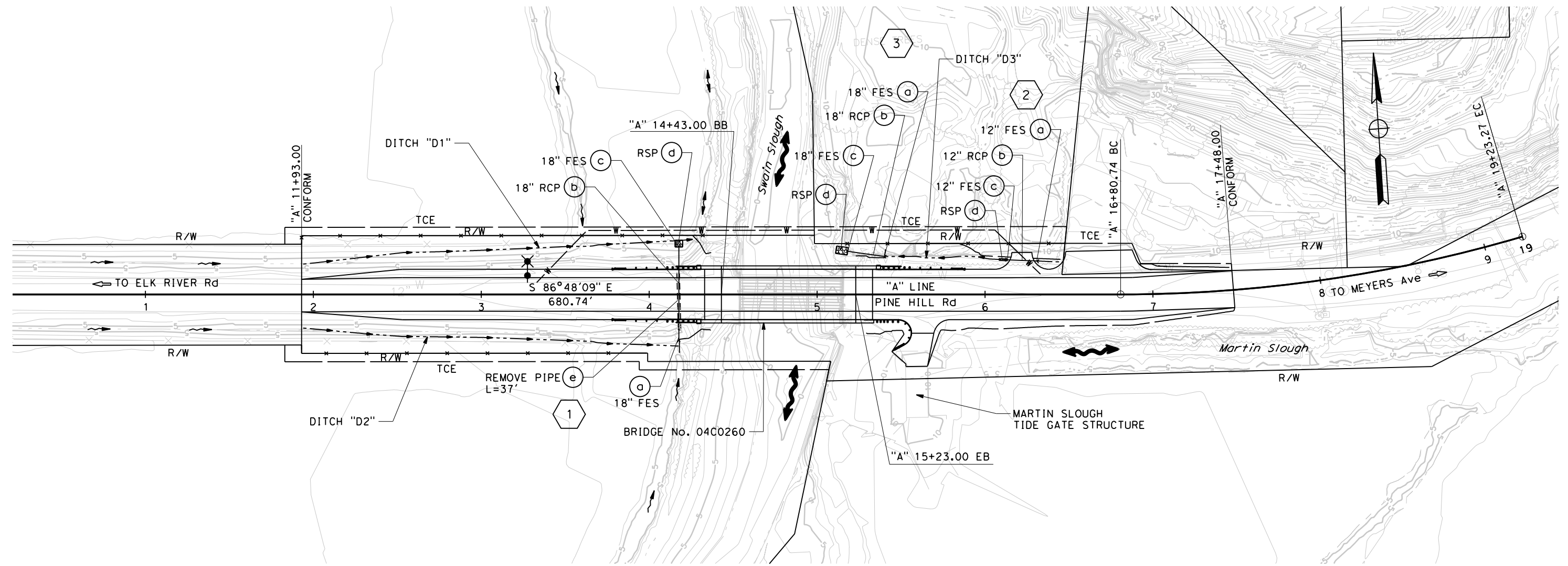
- XXX DRAINAGE SYSTEM NUMBER
- XX DRAINAGE UNIT NUMBER
- DIRECTION OF DITCH FLOW
- W— WATER LINE (BY OTHERS)



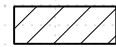
|   |                           |                    |  |
|---|---------------------------|--------------------|--|
| ROAD NAME: PINE HILL ROAD   |                           | QUINCY ENGINEERING |  |
| ROAD NO.: 3J430   | MILE POST: 0.19           | DESIGNED BY: KP    |  |
| PROJECT NO.: BRLO-5904(112)   | EA NO.:                   | DRAWN BY: KP       |  |
| CONTRACT NO.: 594020  | PPNO.:                    | REVIEWED BY: JJ    |  |
| DRAWING FILE NAME: S:\Client\Humboldt\07-300 Pine Hill\CAD\Roadway\07300r\001.dgn |                           | APPROVED BY:       |  |
| PLOT DATE: 12-3-2019  | REVISION DATE: 11-19-2019 |                    |  |

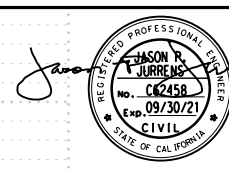
|  |  |
|--|--|
| COUNTY OF HUMBOLDT<br>DEPARTMENT OF PUBLIC WORKS |  |
| PINE HILL ROAD BRIDGE OVER SWAIN SLOUGH          |  |
| DRAINAGE PLAN                                    |  |

SHEET 8 OF 28



**LEGEND:**

 MINOR CONCRETE (PIPE ENCASEMENT)



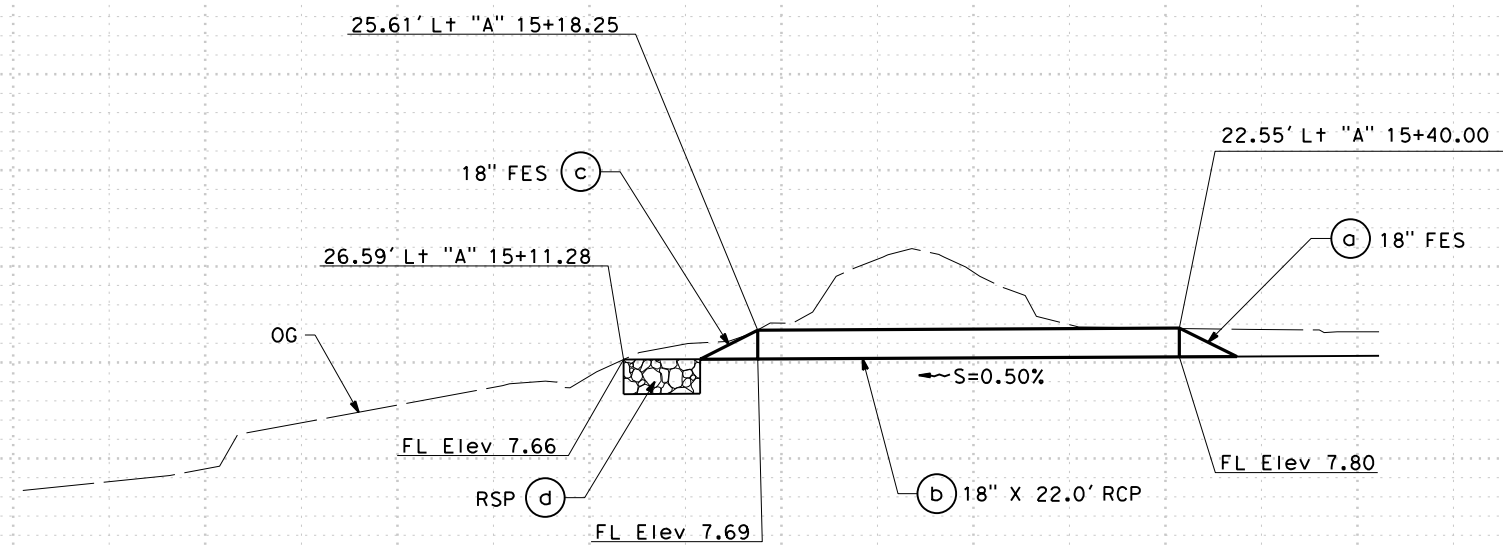
BAR IS ONE INCH ON ORIGINAL DRAWING  
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|               |                |                    |  |
|---------------|----------------|--------------------|--|
| ROAD NAME:    | PINE HILL ROAD | MILE POST:         | 0.19   |
| ROAD NO.:     | 3J430          | EA NO.:            |  |
| PROJECT NO.:  | BRLO-5904(112) | PPNO.:             |  |
| CONTRACT NO.: | 594020         | DRAWING FILE NAME: | S:\Client\Humboldt\07-300 Pine Hill\CAD\Roadway\07300r\001.dgn |
| PLOT DATE:    | 12-3-2019      | REVISION DATE:     | 11-19-2019   |

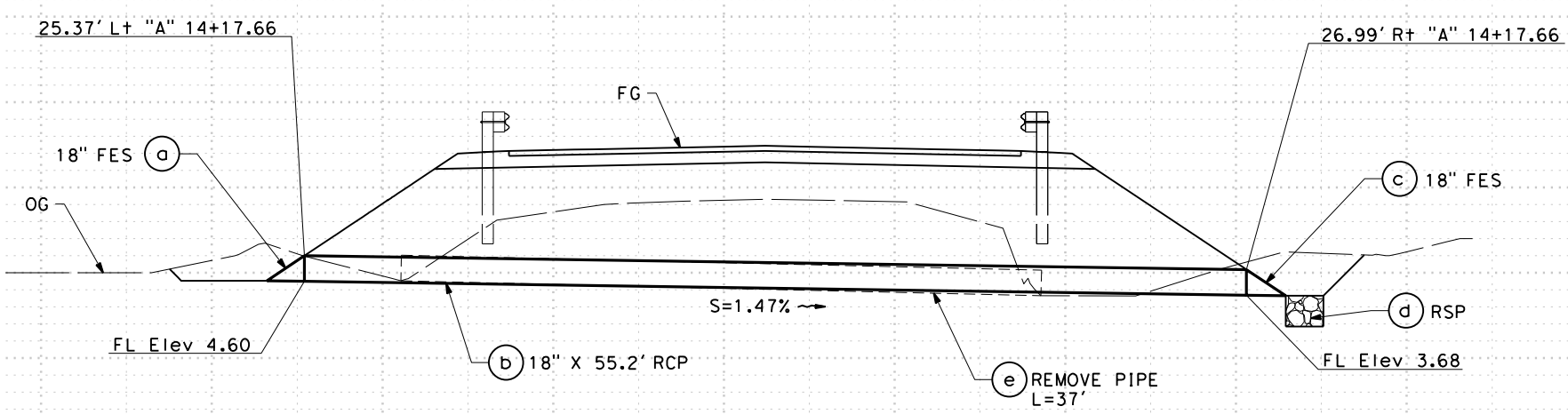
|              |    |
|--------------|----|
| DESIGNED BY: | KP |
| DRAWN BY:    | KP |
| REVIEWED BY: | JJ |
| APPROVED BY: |    |

|  |
|--|
| COUNTY OF HUMBOLDT<br>DEPARTMENT OF PUBLIC WORKS |
| <b>PINE HILL ROAD BRIDGE OVER SWAIN SLOUGH</b>   |
| <b>DRAINAGE PROFILES</b>                         |

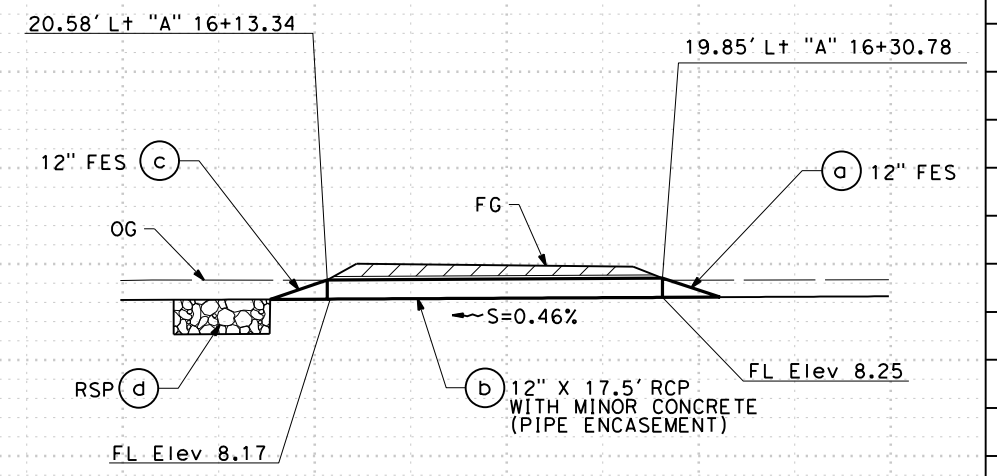
SHEET **9**  
OF  
**28**



**DRAINAGE SYSTEM No. 3**  
"A" 15+18.25 TO "A" 15+40.00



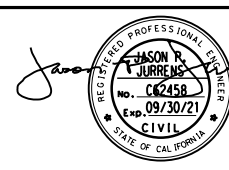
**DRAINAGE SYSTEM No. 1**  
"A" 14+17.66



**DRAINAGE SYSTEM No. 2**  
"A" 16+13.34 TO "A" 16+30.78

**NOTES:**

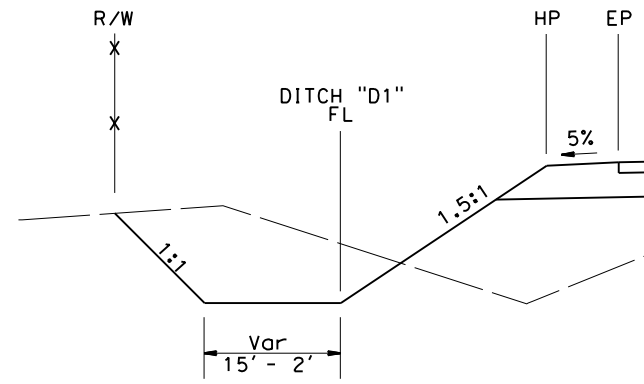
- FOR RSP CLASS AND DIMENSIONS, SEE TABLE 1.
- FOR FLARED END SECTION DETAILS NOT SHOWN, SEE STANDARD PLAN D94B.
- CUTOFF WALL ONLY PRESENT WITH CONCRETE FES, SEE STANDARD PLAN D94B.



BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

|                             |  |                 |
|-----------------------------|--|-----------------|
| ROAD NAME: PINE HILL ROAD   | MILE POST: 0.19  | DESIGNED BY: KP |
| ROAD NO.: 3J430             | EA NO.:  | DRAWN BY: KP    |
| PROJECT NO.: BRLO-5904(112) | PPNO.:   | REVIEWED BY: JJ |
| CONTRACT NO.: 594020        | DRAWING FILE NAME: S:\Client\Humboldt\07-300 Pine Hill\CAD\Roadway\07300r1c001.dgn | APPROVED BY:    |
| PLOT DATE: 12-3-2019        | REVISION DATE: 11-19-2019  |                 |

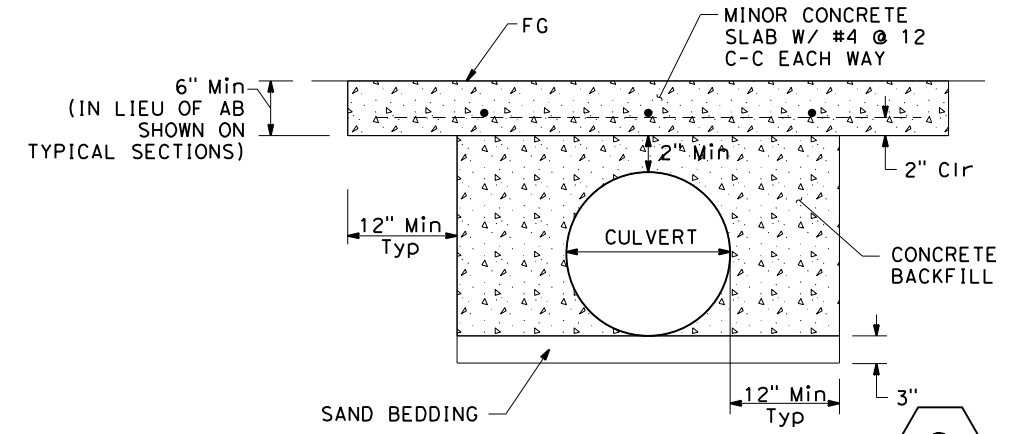
|  |                                       |
|--|---------------------------------------|
| <b>QUINCY ENGINEERING</b><br>COUNTY OF HUMBOLDT<br>DEPARTMENT OF PUBLIC WORKS<br><b>PINE HILL ROAD BRIDGE OVER SWAIN SLOUGH</b><br><b>CONSTRUCTION DETAILS</b> | SHEET<br><b>10</b><br>OF<br><b>28</b> |
|--|---------------------------------------|



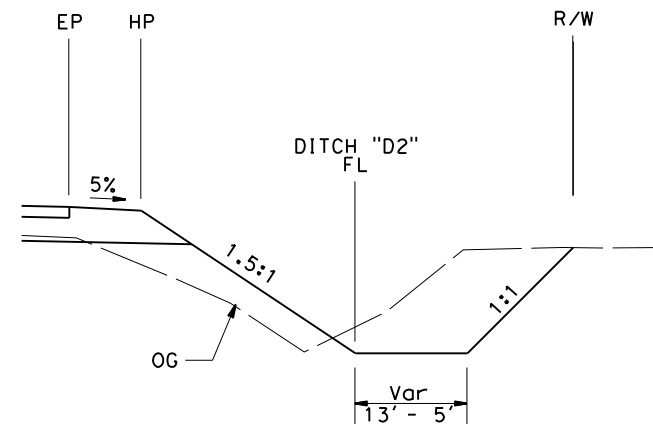
**DITCH "D1"**

Sta "A" 11+93.00 TO Sta "A" 14+29.00

| STATION  | LINE | OFFSET | L+/R+ | WIDTH | FL Elev | SLOPE (%) |
|----------|------|--------|-------|-------|---------|-----------|
| 11+93.00 | "A"  | 15.91  | L+    | 15.91 | 4.07    |           |
| 12+00.00 | "A"  | 16.67  | L+    | 15.25 | 4.05    | -0.29     |
| 12+20.00 | "A"  | 18.93  | L+    | 12.95 | 4.00    | -0.25     |
| 12+40.00 | "A"  | 21.30  | L+    | 10.47 | 3.95    | -0.25     |
| 12+60.00 | "A"  | 23.00  | L+    | 8.78  | 3.96    | 0.05      |
| 12+80.00 | "A"  | 23.57  | L+    | 7.55  | 3.97    | 0.05      |
| 13+00.00 | "A"  | 24.27  | L+    | 6.73  | 3.98    | 0.05      |
| 13+20.00 | "A"  | 25.11  | L+    | 6.25  | 3.97    | -0.05     |
| 13+40.00 | "A"  | 25.97  | L+    | 5.62  | 3.95    | -0.10     |
| 13+60.00 | "A"  | 26.50  | L+    | 6.71  | 4.17    | 1.10      |
| 13+80.00 | "A"  | 28.04  | L+    | 5.17  | 4.01    | -0.80     |
| 14+00.00 | "A"  | 29.13  | L+    | 2.81  | 3.85    | -0.80     |
| 14+20.00 | "A"  | 30.22  | L+    | 2.44  | 3.58    | -1.35     |
| 14+29.00 | "A"  | 30.96  | L+    | 2.42  | 3.26    | -3.56     |



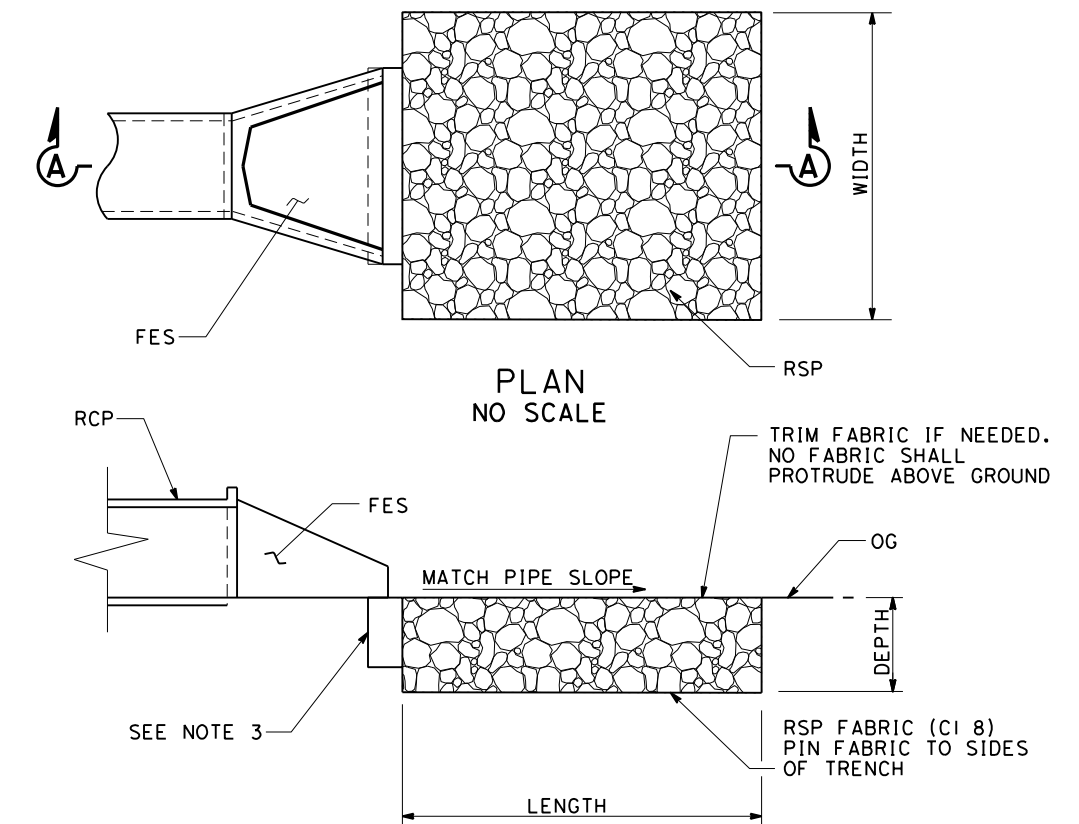
**MINOR CONCRETE (PIPE ENCASEMENT)**



**DITCH "D2"**

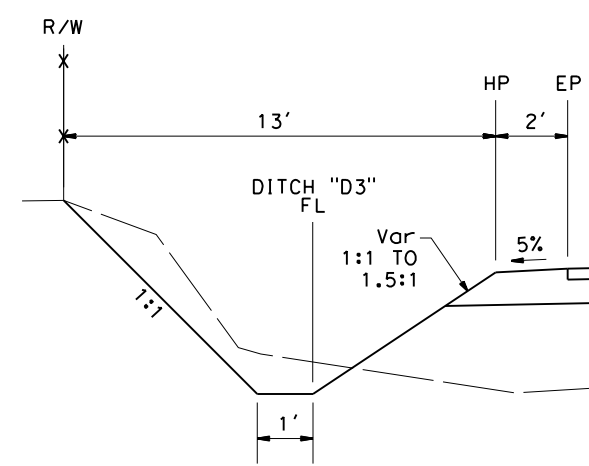
Sta "A" 11+93.00 TO Sta "A" 14+18.00

| STATION  | LINE | OFFSET | L+/R+ | WIDTH | FL Elev | SLOPE (%) |
|----------|------|--------|-------|-------|---------|-----------|
| 11+93.00 | "A"  | 17.97  | R+    | 13.80 | 3.62    |           |
| 12+00.00 | "A"  | 18.57  | R+    | 13.16 | 3.60    | -0.29     |
| 12+20.00 | "A"  | 20.39  | R+    | 11.25 | 3.52    | -0.40     |
| 12+40.00 | "A"  | 22.09  | R+    | 9.62  | 3.61    | 0.45      |
| 12+60.00 | "A"  | 23.12  | R+    | 8.83  | 3.88    | 1.35      |
| 12+80.00 | "A"  | 23.31  | R+    | 8.94  | 4.14    | 1.30      |
| 13+00.00 | "A"  | 23.62  | R+    | 8053  | 4.41    | 1.35      |
| 13+20.00 | "A"  | 24.30  | R+    | 7.52  | 4.51    | 0.50      |
| 13+40.00 | "A"  | 25.04  | R+    | 6052  | 4.58    | 0.35      |
| 13+60.00 | "A"  | 25.75  | R+    | 7.79  | 4.67    | 0.45      |
| 13+80.00 | "A"  | 27.42  | R+    | 5015  | 4.43    | -1.20     |
| 14+00.00 | "A"  | 28.01  | R+    | 4.50  | 4.59    | 0.80      |
| 14+18.00 | "A"  | 28.74  | R+    | 5.45  | 4.53    | -0.33     |



**ROCK SLOPE PROTECTION (RSP)**  
NO SCALE

| DRAINAGE UNIT | RSP CLASS                   | LENGTH | DEPTH | WIDTH |
|---------------|-----------------------------|--------|-------|-------|
|               |                             | FT     | FT    | FT    |
| 1d            | 150 LB, CLASS III, METHOD B | 3.0    | 1.8   | 4.5   |
| 2d            | 150 LB, CLASS III, METHOD B | 5.0    | 1.8   | 1.0   |
| 3d            | 150 LB, CLASS III, METHOD B | 7.0    | 1.8   | 4.5   |



**DITCH "D3"**

Sta "A" 15+40.00 TO Sta "A" 15+90.00

| STATION  | LINE | OFFSET | L+/R+ | FL Elev | SLOPE (%) |
|----------|------|--------|-------|---------|-----------|
| 15+40.00 | "A"  | 22.05  | L+    | 7.80    |           |
| 15+60.00 | "A"  | 21.96  | L+    | 7.90    | 0.50      |
| 15+80.00 | "A"  | 21.63  | L+    | 8.00    | 0.50      |
| 15+90.00 | "A"  | 21.66  | L+    | 8.05    | 0.50      |
| 16+00.00 | "A"  | 20.70  | L+    | 8.10    | 0.50      |
| 16+13.34 | "A"  | 20.08  | L+    | 8.17    | 0.52      |
| 16+30.79 | "A"  | 19.36  | L+    | 8.25    | 0.46      |
| 16+40.00 | "A"  | 19.01  | L+    | 8.30    | 0.54      |
| 16+44.96 | "A"  | 18.83  | L+    | 8.33    | 0.60      |



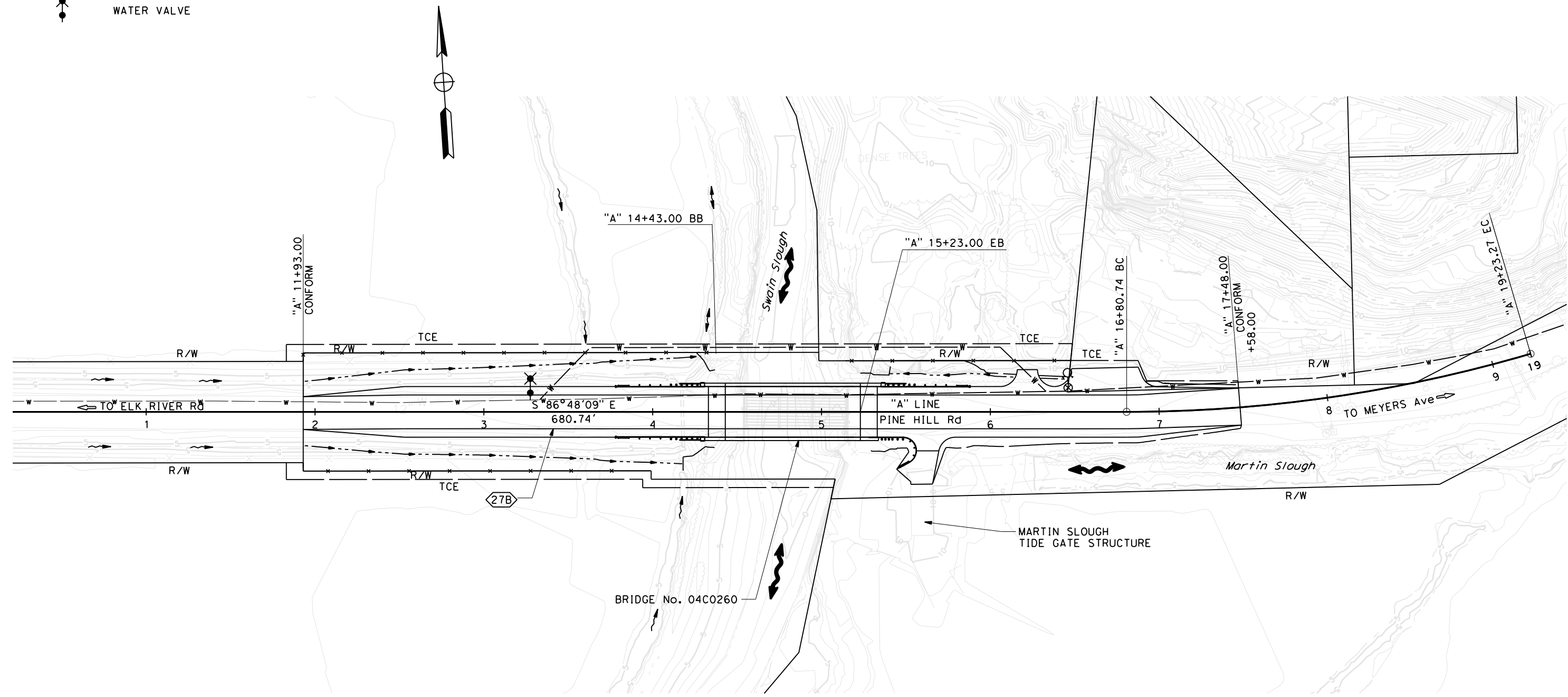
BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

|                             |  |                 |
|-----------------------------|--|-----------------|
| ROAD NAME: PINE HILL ROAD   | MILE POST: 0.19  | DESIGNED BY: KP |
| ROAD NO.: 3J430             | EA NO.:  | DRAWN BY: KP    |
| PROJECT NO.: BRLO-5904(112) | PPNO.:   | REVIEWED BY: JJ |
| CONTRACT NO.: 594020        | DRAWING FILE NAME: S:\Client\Humboldt\07-300 Pine Hill\CAD\Roadway\07300rka001.dgn | APPROVED BY:    |
| PLOT DATE: 12-3-2019        | REVISION DATE: 11-19-2019  |                 |

|  |                |
|--|----------------|
| COUNTY OF HUMBOLDT<br>DEPARTMENT OF PUBLIC WORKS | SHEET 11 OF 28 |
| PINE HILL ROAD BRIDGE OVER SWAIN SLOUGH          |                |
| UTILITY PLAN                                     |                |

**LEGEND:**





- DIRECTION OF TRAFFIC
- EXISTING WATER LINE
- RELOCATED WATER LINE (BY OTHERS)
- EXISTING WATER VALVE
- WATER VALVE



**NOTES:**

1. THIS PLAN ACCURATE FOR DETOUR WORK ONLY.
2. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. R11-2 SIGNS MOUNTED ON BARRICADE.

**LEGEND:**

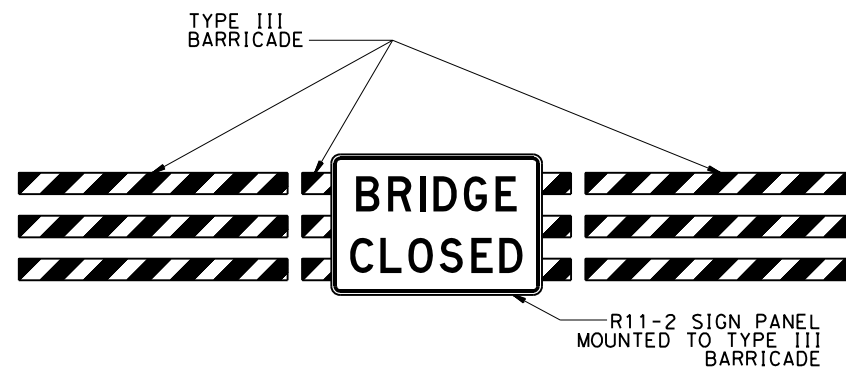
-  CONSTRUCTION AREA
-  CONSTRUCTION AREA SIGN
-  TYPE III BARRICADE
-  USE WITH FLASHERS AT NIGHT



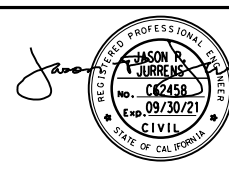
**A-1 SIGN DETAIL**  
NO SCALE

**TYPE III BARRICADE**

| LINE         | STATION | EA       |
|--------------|---------|----------|
| "A"          | 8+50    | 3        |
| "A"          | 20+85   | 3        |
| <b>TOTAL</b> |         | <b>6</b> |



**BRIDGE CLOSURE DETAIL**

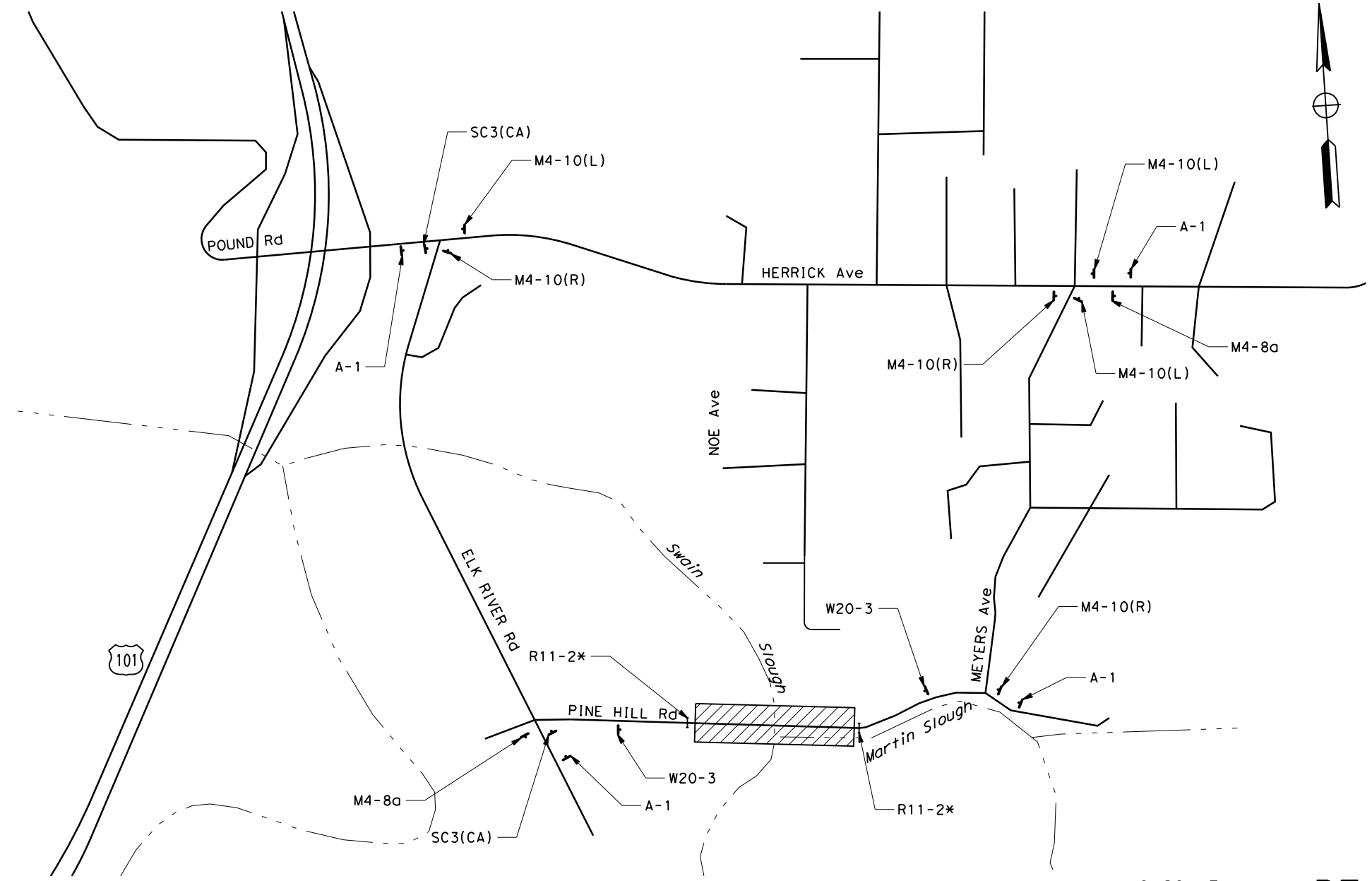


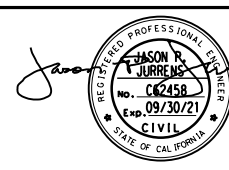
|  |                             |                           |                      |                 |              |
|--|-----------------------------|---------------------------|----------------------|-----------------|--------------|
| ROAD NAME: PINE HILL ROAD  |                             | MILE POST: 0.19           |                      | DESIGNED BY: KP |              |
| ROAD NO.: 3J430  | PROJECT NO.: BRLO-5904(112) | EA NO.:                   | CONTRACT NO.: 594020 | PPNO.:          | DRAWN BY: KP |
| DRAWING FILE NAME: S:\Client\Humboldt\07-300 Pine Hill\CAD\Roadway\07300rmp001.dgn |                             |                           | REVIEWED BY: JJ      |                 |              |
| PLOT DATE: 12-3-2019   |                             | REVISION DATE: 11-19-2019 |                      |                 |              |
| APPROVED BY:   |                             |                           |                      |                 |              |

|  |  |                                   |
|--|--|-----------------------------------|
| <b>COUNTY OF HUMBOLDT<br/>DEPARTMENT OF PUBLIC WORKS</b> |  | <b>SHEET<br/>12<br/>OF<br/>28</b> |
| <b>PINE HILL ROAD BRIDGE OVER SWAIN SLOUGH</b>           |  |                                   |
| <b>DETOUR PLAN</b>                                       |  |                                   |

**CONSTRUCTION AREA SIGNS**

| SIGN CODE | PANEL SIZE | SIGN MESSAGE                             | NUMBER OF POSTS AND SIZE | NUMBER OF SIGNS |
|-----------|------------|--|--------------------------|-----------------|
| R11-2     | 48" x 30"  | ROAD CLOSED                              | 1 - 4" x 6"              | 2               |
| W20-3     | 36" x 36"  | ROAD CLOSED AHEAD                        | 1 - 4" x 6"              | 2               |
| M4-8a     | 24" x 18"  | END DETOUR                               | 1 - 4" x 6"              | 2               |
| M4-10(R)  | 48" x 18"  | DETOUR ARROW SIGN                        | 1 - 4" x 6"              | 3               |
| M4-10(L)  | 48" x 18"  | DETOUR ARROW SIGN                        | 1 - 4" x 6"              | 3               |
| SC3(CA)   | 36" x 12"  | DETOUR WITH ARROW                        | 1 - 4" x 6"              | 2               |
| A-1       | XX" x XX"  | PINE HILL ROAD<br>CLOSED AT SWAIN SLOUGH | 2 - 4" x 6"              | 4               |





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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

|  |                           |                 |
|--|---------------------------|-----------------|
| ROAD NAME: PINE HILL ROAD  | MILE POST: 0.19           | DESIGNED BY: KP |
| ROAD NO.: 3J430  | EA NO.:                   | DRAWN BY: KP    |
| PROJECT NO.: BRLO-5904(112)  | PPNO.:                    | REVIEWED BY: JJ |
| CONTRACT NO.: 594020   |                           | APPROVED BY:    |
| DRAWING FILE NAME: S:\Client\Humboldt\07-300 Pine Hill\CAD\Roadway\07300rpo001.dgn |                           |                 |
| PLOT DATE: 12-3-2019   | REVISION DATE: 11-19-2019 |                 |

|  |                                       |
|--|---------------------------------------|
| COUNTY OF HUMBOLDT<br>DEPARTMENT OF PUBLIC WORKS<br><b>PINE HILL ROAD BRIDGE OVER SWAIN SLOUGH</b> | SHEET<br><b>13</b><br>OF<br><b>28</b> |
| <b>SUMMARY OF QUANTITIES</b>   |                                       |

**ROADWAY ITEMS**

| FROM | TO                 | ROADWAY EXCAVATION | EMBANKMENT (N) | IMPORTED BORROW | CLASS 2 AGGREGATE BASE | HOT MIX ASPHALT (TYPE A) | REMOVE FENCE | REMOVE MARKER | FENCE (TYPE BW, METAL POST) | COMMENTS                    |     |
|------|--------------------|--------------------|----------------|-----------------|------------------------|--------------------------|--------------|---------------|-----------------------------|-----------------------------|-----|
| LINE | STATION            | LINE               | STATION        | CY              | CY                     | CY                       | TON          | LF            | EA                          | LF                          |     |
| "A"  | 11+93.00           | "A"                | 14+43.00 BB    | 420             | 686                    | 266                      | 232          | 156           |                             |                             |     |
| "A"  | 15+23.00 EB        | "A"                | 17+48.00       | 102             | 271                    | 169                      | 219          | 159           |                             |                             |     |
| "A"  | 15+67.59           |                    |                | 2               | 21                     | 19                       |              |               |                             | DWY AT TIDAL GATE STRUCTURE |     |
| "A"  | ABUTMENT 1         |                    |                | 36              | 1                      | -35                      |              |               |                             | CONTOUR GRADING             |     |
| "A"  | ABUTMENT 2         |                    |                | 23              | 2                      | -21                      |              |               |                             | CONTOUR GRADING             |     |
| "A"  | 11+93.00 LT        | "A"                | 14+48.92 LT    |                 |                        |                          |              | 256           |                             |                             |     |
| "A"  | 19+93.00 RT        | "A"                | 14+38.43 RT    |                 |                        |                          |              | 246           |                             |                             |     |
| "A"  | 15+14.03 LT        | "A"                | 16+45.89 LT    |                 |                        |                          |              | 136           |                             |                             |     |
| "A"  | 11+93.00 LT        | "A"                | 14+33.15 LT    |                 |                        |                          |              |               | 246                         |                             |     |
| "A"  | 11+93.00 RT        | "A"                | 14+17.30 RT    |                 |                        |                          |              |               | 232                         |                             |     |
| "A"  | 15+14.00 LT        | "A"                | 16+47.60 LT    |                 |                        |                          |              |               | 134                         |                             |     |
|      | EXIST BRIDGE BB L+ |                    |                |                 |                        |                          |              |               | 1                           | EXIST BRIDGE                |     |
|      | EXIST BRIDGE BB R+ |                    |                |                 |                        |                          |              |               | 1                           | EXIST BRIDGE                |     |
|      | EXIST BRIDGE EB L+ |                    |                |                 |                        |                          |              |               | 1                           | EXIST BRIDGE                |     |
|      | EXIST BRIDGE EB R+ |                    |                |                 |                        |                          |              |               | 1                           | EXIST BRIDGE                |     |
|      |                    |                    |                | 583             | 981                    | 398                      | 451          | 315           | 638                         | 4                           | 612 |

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

**DRAINAGE ITEMS**

| DRAINAGE SYSTEM | DRAINAGE UNIT No. | STATION      | 12" CONCRETE FLARED END SECTION | 18" CONCRETE FLARED END SECTION | 12" REINFORCED CONCRETE PIPE | 18" REINFORCED CONCRETE PIPE | ROCK SLOPE PROTECTION (150 LB, CLASS III, METHOD B) | RSP FABRIC (CLASS 8) | REMOVE PIPE | DESCRIPTION   |
|-----------------|-------------------|--------------|---------------------------------|---------------------------------|------------------------------|------------------------------|---|----------------------|-------------|---|
|                 |                   |              | EA                              | EA                              | LF                           | LF                           | CY  | SQYD                 | LF          |   |
| 1               | a                 | "A" 14+17.66 |                                 | 1                               |                              |                              |   |                      |             | 18" CONCRETE FLARED END SECTION                       |
|                 | b                 |              |                                 |                                 |                              |                              |   |                      | 55.2        | 18" X 55.2' RCP                                       |
|                 | c                 | "A" 14+17.66 |                                 | 1                               |                              |                              |   |                      |             | 18" CONCRETE FLARED END SECTION                       |
|                 | d                 |              |                                 |                                 |                              | 0.9                          | 5.9   |                      |             | RSP (150 LB, CLASS III, METHOD B)                     |
|                 | e                 |              |                                 |                                 |                              |                              |   |                      | 37          | REMOVE PIPE 18"                                       |
| 2               | a                 | "A" 16+30.78 | 1                               |                                 |                              |                              |   |                      |             | 12" CONCRETE FLARED END SECTION                       |
|                 | b                 |              |                                 |                                 | 17.5                         |                              |   |                      |             | 12" X 17.5' RCP WITH MINOR CONCRETE (PIPE ENCASEMENT) |
|                 | c                 | "A" 16+13.34 | 1                               |                                 |                              |                              |   |                      |             | 12" CONCRETE FLARED END SECTION                       |
|                 | d                 |              |                                 |                                 |                              | 0.3                          | 4.4   |                      |             | RSP (150 LB, CLASS III, METHOD B)                     |
| 3               | a                 | "A" 15+40.00 |                                 | 1                               |                              |                              |   |                      |             | 18" CONCRETE FLARED END SECTION                       |
|                 | b                 |              |                                 |                                 |                              |                              |   |                      | 22.0        | 18" X 22.0' RCP                                       |
|                 | c                 | "A" 15+18.25 |                                 | 1                               |                              |                              |   |                      |             | 18" CONCRETE FLARED END SECTION                       |
|                 | d                 |              |                                 |                                 |                              |                              |   |                      |             | RSP (150 LB, CLASS III, METHOD B)                     |
|                 |                   | TOTAL        | 2                               | 4                               | 17.5                         | 77.2                         | 3.3   | 19.8                 | 37          |   |

**GUARD RAILING**

| FROM  | TO       | TRANSITION RAILING (TYPE WB-31) | ALTERNATIVE IN LINE TERMINAL SYSTEM | SHORT RADIUS GUARDRAIL SYSTEM | OBJECT MARKER (TYPE P) |    |    |    |    |
|-------|----------|---------------------------------|-------------------------------------|-------------------------------|------------------------|----|----|----|----|
| LINE  | FROM     | OFFSET                          | LINE                                | TO                            | OFFSET                 | EA | EA | EA | EA |
| "A"   | 13+78.25 | 15.00' L+                       | "A"                                 | 14+28.25                      | 15.00' L+              | 1  | 1  |    | 1  |
| "A"   | 13+78.25 | 15.00' R+                       | "A"                                 | 14+28.25                      | 15.00' R+              | 1  | 1  |    | 1  |
| "A"   | 15+37.75 | 15.00' L+                       | "A"                                 | 15+87.75                      | 15.00' L+              | 1  | 1  |    | 1  |
| "A"   | 15+33.75 | 15.00' R+                       | "A"                                 | 15+44.51                      | 34.03' R+              |    |    | 1  | 1  |
| TOTAL |          |                                 |                                     |                               |                        | 3  | 3  | 1  | 4  |

**EROSION CONTROL**

| LINE  | FROM        | TO          | LT/RT | ROLLED EROSION CONTROL PRODUCT (BLANKET) | HYDROSEED | TEMPORARY HIGH-VISIBILITY FENCE | FIBER ROLLS |
|-------|-------------|-------------|-------|--|-----------|---------------------------------|-------------|
|       |             |             |       | SQFT                                     | SQFT      | LF                              | LF          |
| "A"   | 11+93.00    | 14+43.00 BB | LT    | 4463                                     | 4463      | 271                             | 262         |
| "A"   | 11+93.00    | 14+43.00 BB | RT    | 4282                                     | 4282      | 273                             | 259         |
| "A"   | 14+43.00 BB | 17+48.00    | LT    | 1015                                     | 1015      | 196                             | 184         |
| "A"   | 14+43.00 BB | 17+48.00    | RT    | 681                                      | 681       | 244                             | 221         |
| TOTAL |             |             |       | 10441                                    | 10441     | 984                             | 926         |

**PAVEMENT DELINEATION**

| FROM     | TO       | THERMOPLASTIC TRAFFIC STRIPE | PAVEMENT MARKER (RETRO-REFLECTIVE) |          |        |            |             |              |        |
|----------|----------|------------------------------|------------------------------------|----------|--------|------------|-------------|--------------|--------|
| LINE     | STATION  | OFFSET                       | LINE                               | STATION  | OFFSET | DETAIL No. | 4" WHITE FT | 4" YELLOW FT | TYPE D |
| "A"      | 11+93.00 |                              | "A"                                | 17+48.00 |        | 22         |             | 1110         | 48     |
| "A"      | 11+93.00 | RT                           | "A"                                | 17+48.00 | RT     | 27B        | 555         |              |        |
| "A"      | 11+93.00 | LT                           | "A"                                | 17+48.00 | LT     | 27B        | 555         |              |        |
| SUBTOTAL |          |                              |                                    |          |        |            | 1110        | 1110         |        |
| TOTAL    |          |                              |                                    |          |        |            |             | 2220         | 48     |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 01   | Hum    | CR    | 0.19                     | 14       | 28           |

Scott McCauley 12-3-19  
 REGISTERED CIVIL ENGINEER DATE

SCOTT A. MCCAULEY  
 No. 71495  
 Exp. 12-31-19  
 CIVIL  
 STATE OF CALIFORNIA

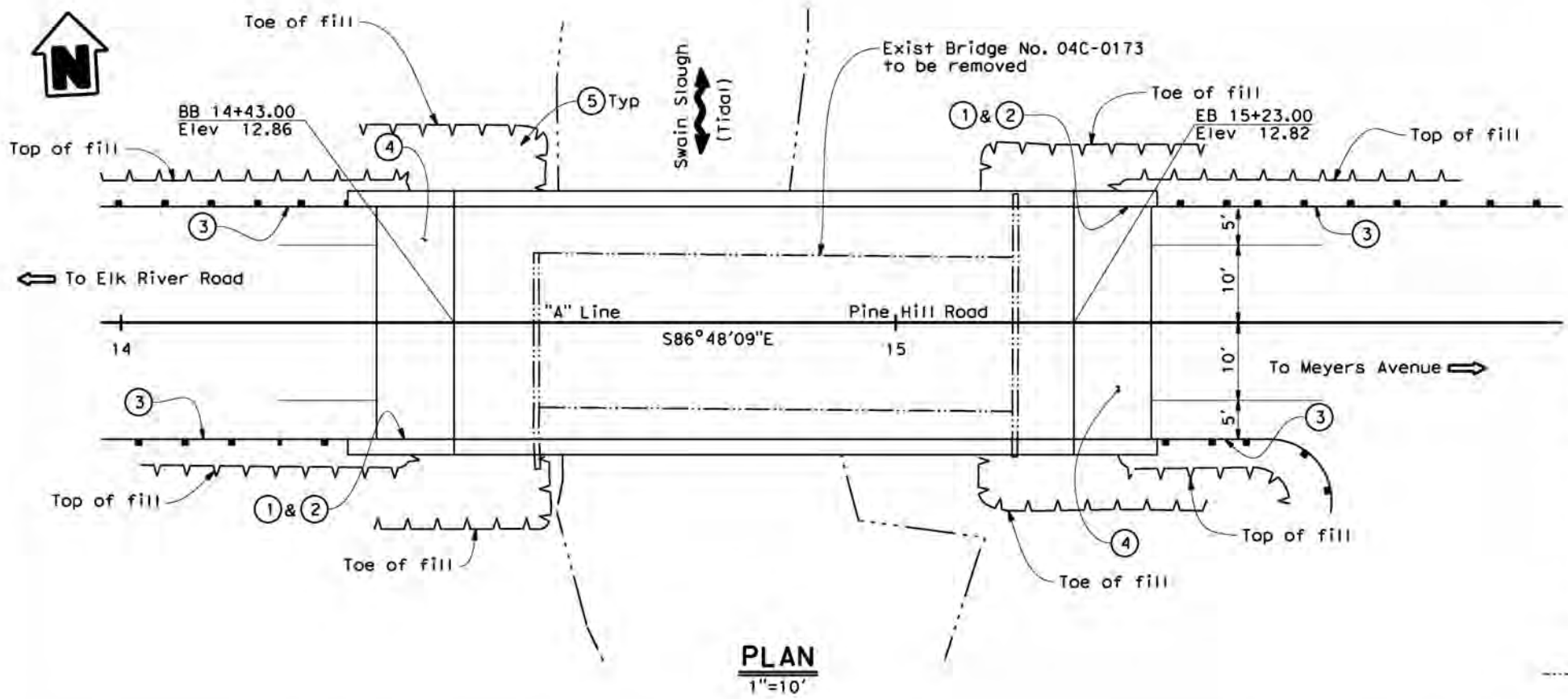
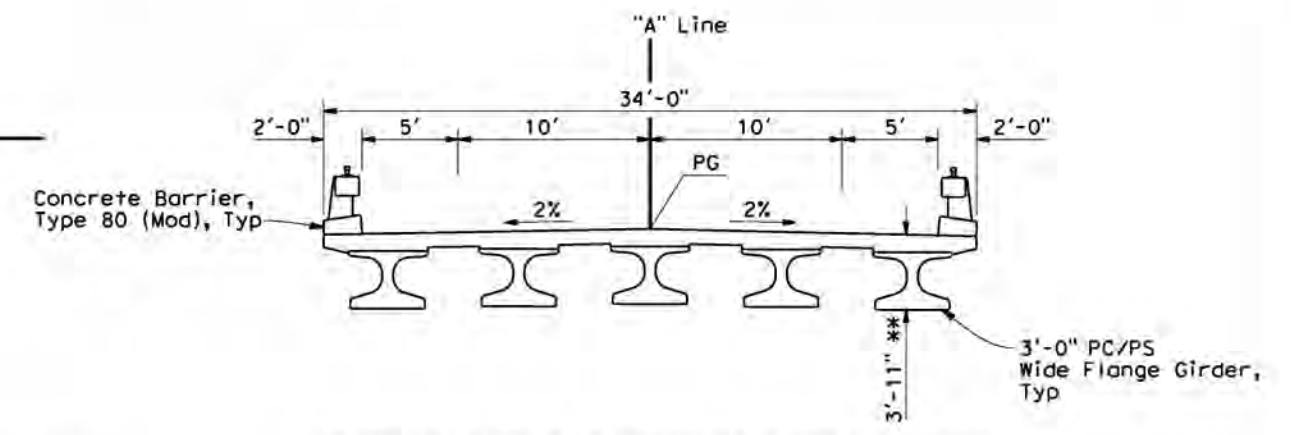
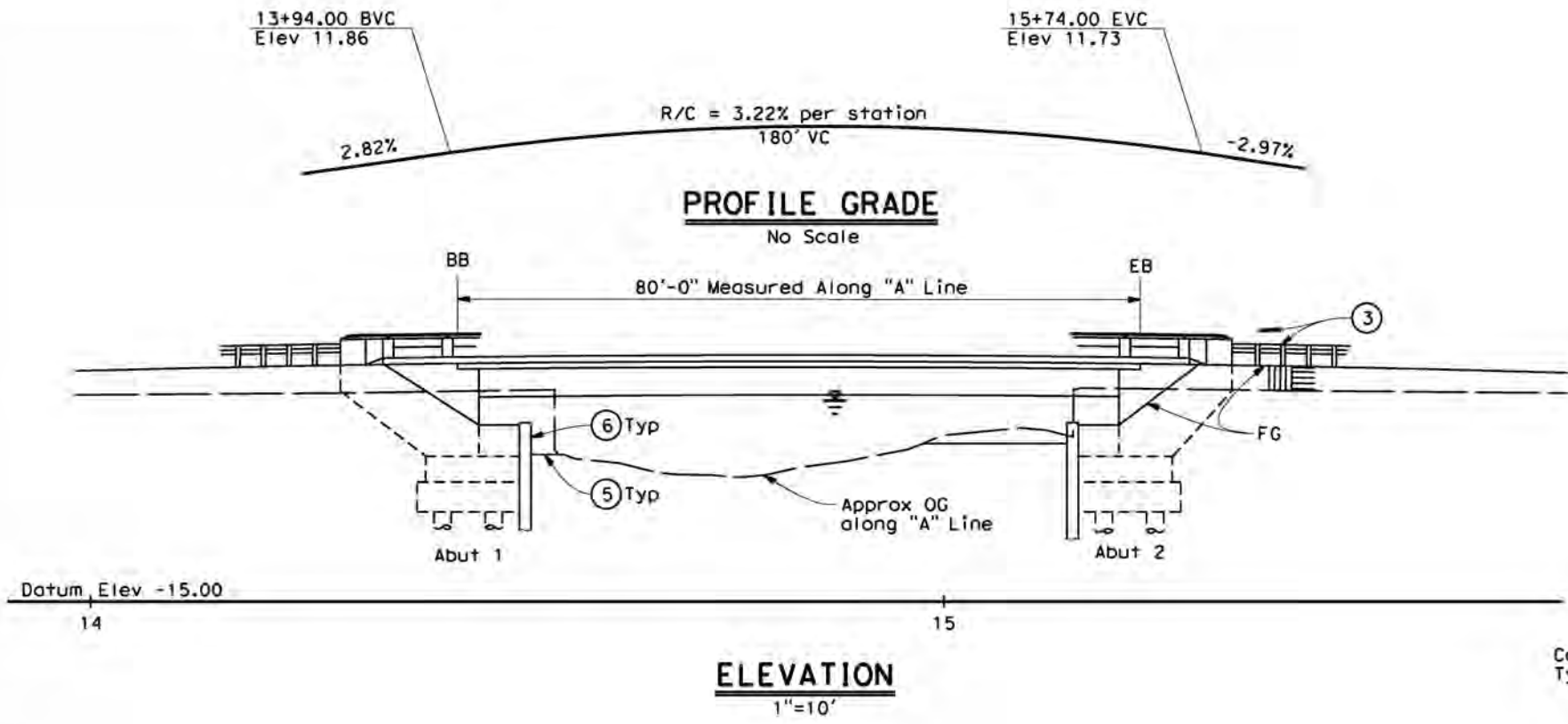
PLANS APPROVAL DATE  
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QUINCY ENGINEERING, INC  
 11017 Cobblerock Drive, Suite 100  
 Rancho Cordova, CA 95670

COUNTY OF HUMBOLDT  
 DEPARTMENT OF PUBLIC WORKS  
 106 2nd Street  
 Eureka, CA 95501

### INDEX TO PLANS

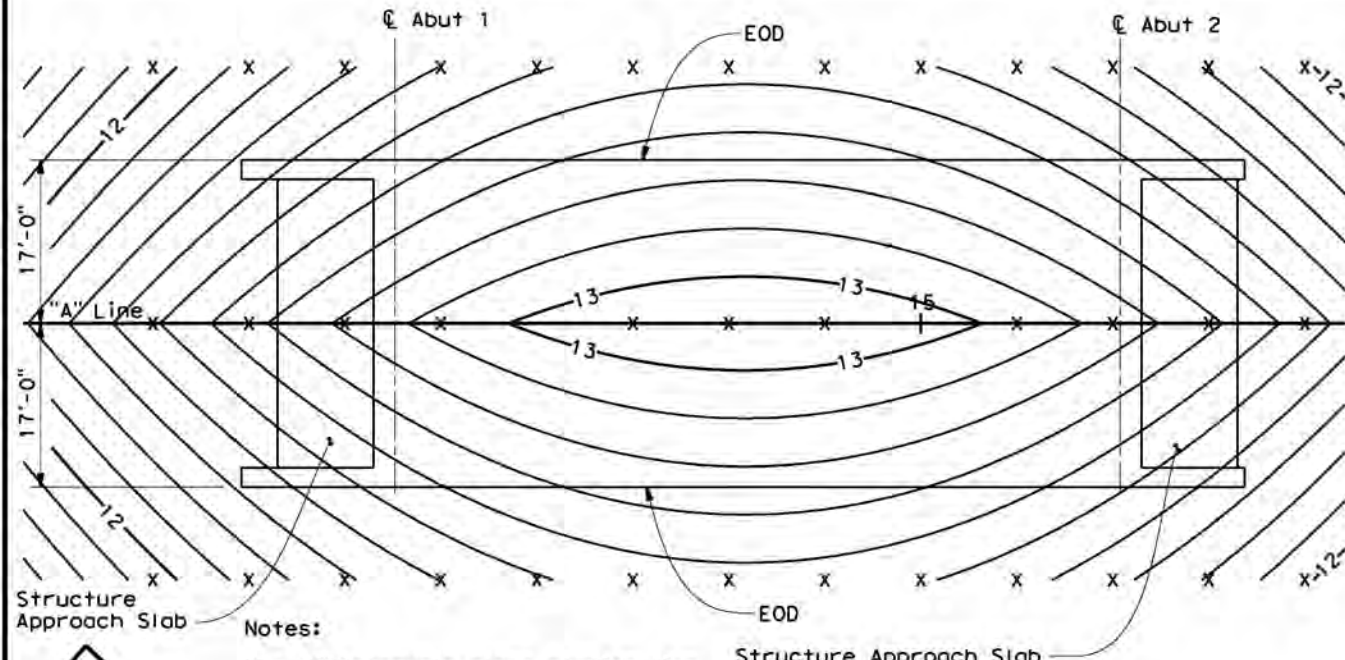
| Sheet No. | Title                            |
|-----------|----------------------------------|
| 1         | General Plan                     |
| 2         | Deck Contours                    |
| 3         | Foundation Plan                  |
| 4         | Abutment Layout                  |
| 5         | Abutment Details No. 1           |
| 6         | Abutment Details No. 2           |
| 7         | Typical Section                  |
| 8         | Girder Layout                    |
| 9         | Wide Flange Girder Details No. 1 |
| 10        | Wide Flange Girder Details No. 2 |
| 11        | Construction Sequence            |
| 12        | Miscellaneous Details            |
| 13        | Log of Test Borings No. 1        |
| 14        | Log of Test Borings No. 2        |
| 15        | Log of Test Borings No. 3        |



- Notes:
- ① Paint Bridge Number "Bridge No. 04C0260"
  - ② Paint "Swain Slough Bridge"
  - ③ MGS, see Road Plans
  - ④ Structure Approach Type E0(10)
  - ⑤ Contour Grading, see Road Plans
  - ⑥ Steel Sheet Piling, see "Miscellaneous Details" sheet
  - ≡ King Tide water surface elevation = 8.5' NAVD
  - Existing structure, Br. No. 04C0173, to be removed

|  |                        |                 |                                 |  |  |                    |   |
|--|------------------------|-----------------|---------------------------------|--|--|--------------------|---|
| DESIGN OVERSIGHT                             | DESIGN BY L. Smith     | CHECKED J. Chou | LOAD & RESISTANCE FACTOR DESIGN | LIVE LOADS: HL93 AND PERMIT DESIGN VEHICLE | PREPARED FOR THE COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS | BRIDGE NO. 04C0260 | <b>SWAIN SLOUGH BRIDGE GENERAL PLAN</b>         |
| SIGN OFF DATE                                | DETAILS BY B. Maechler | CHECKED J. Chou | LAYOUT BY L. Smith              | CHECKED J. Chou                            | PROJECT ENGINEER Scott McCauley                                | POST MILES 0.19    |   |
| DESIGN GENERAL NOTES (ENGLISH) (REV.7/16/10) | QUANTITIES BY J. Cruz  | CHECKED H. Chou | SPECIFICATIONS BY S. McCauley   | PLANS AND SPECS COMPARED                   | UNIT: PROJECT NUMBER & PHASE:                                  | CONTRACT NO.:      | REVISION DATES                                  |
| Page 47 of 91                                |                        |                 |                                 | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3  |                    | DISREGARD PRINTS BEARING EARLIER REVISION DATES |
|  |                        |                 |                                 |  |  |                    | SHEET 1 OF 15                                   |

USERNAME => SCOTTW DATE PLOTTED => 12/31/2019 TIME PLOTTED => 9:40:16 AM  
 FILE => S:\Client\Humboldt\H07-300 Pine Hill\CA0\NBridge\H07300a-gp01.dgn



### GENERAL NOTES LOAD AND RESISTANCE FACTOR DESIGN

**DESIGN:** AASHTO LRFD Bridge Design Specifications, 6th Edition with California Amendments

**SEISMIC DESIGN:** Caltrans Seismic Design Criteria (SDC) Version 1.7 dated April 2013

**DEAD LOAD:** Includes 35 psf for future wearing surface. The dead load between girders has been increased by 10% to allow for the use of steel deck forms.

**LIVE LOADING:** HL93 and Permit Design Vehicle.

**SEISMIC LOADING:** Peak Ground Acceleration = 0.3 g  
Soil Profile: Vs30 = 140m/s  
Movement Magnitude: Mmax = 7.25

**Tsunami LOADING:** Tsunami design based on Caltrans "Tsunami Forces on Selected California Coastal Bridges" (Report No. CAB-1983) dated June 2013  
Assumed Tsunami WSE = 20.0'  
Initial impact velocity = 15.0 ft/s  
Max Mass Movement flux Velocity = 10.6 ft/s

**REINFORCED CONCRETE:** fy = 60 ksi  
fc = 3.6 ksi, unless otherwise specified  
n = 8

**PRECAST PRESTRESSED CONCRETE:** See "Prestressing Notes" in "Wide Flange Girder Details No.1" sheet.

**PILES:** ASTM A252, Grade 3  
Fy = 45 ksi Fu = 66 ksi

**SEA LEVEL RISE:** Abutments have been designed to accommodate a future 4'-6" grade raise due to sea level rise. See "Abutment Details No. 1" for limits of wing wall design.

**PERMANENT STEEL SHEET PILES:** Type: Z-Section  
ASTM A572 Grade 60  
Fy = 60 ksi

**ANCHOR TIE DOWNS:** Threaded rods shall conform to ASTM F1554 Grade 105 and shall be hot-dipped galvanized. Nuts shall conform to ASTM A563 Grade DH and shall be hot-dipped galvanized hardened washers shall conform to ASTM F436 and shall be hot-dipped galvanized. Bearing Plates shall conform to ASTM A572 Grade 50 and shall be hot-dipped galvanized.

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 01   | Hum    | CR    | 0.19                     | 15       | 28           |

REGISTERED CIVIL ENGINEER  
DATE: 12-3-19  
SCOTT A. MCCAULEY  
No. 71495  
Exp. 12-31-19  
CIVIL  
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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Rancho Cordova, CA 95670

COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
1106 2nd Street  
Eureka, CA 95501

### STANDARD PLANS DATED 2018

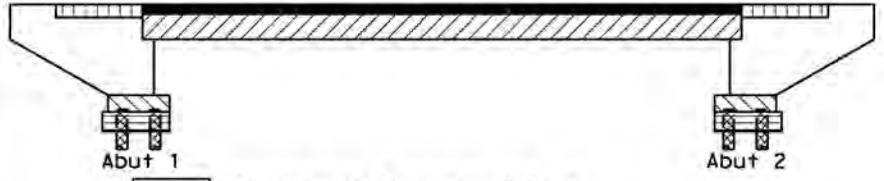
- A3A Abbreviations (sheet 1 of 3)
  - A3B Abbreviations (sheet 2 of 3)
  - A3C Abbreviations (sheet 3 of 3)
  - A10A Legend - Lines and Symbols (sheet 1 of 5)
  - A10B Legend - Lines and Symbols (sheet 2 of 5)
  - A10C Legend - Lines and Symbols (sheet 3 of 5)
  - A10D Legend - Lines and Symbols (sheet 4 of 5)
  - A10E Legend - Lines and Symbols (sheet 5 of 5)
  - A10F Legend - Soil (Sheet 1 of 2)
  - A10G Legend - Soil (Sheet 2 of 2)
  - A62B Limits of Payment for Excavation and Backfill Bridge Surcharge and Wall
  - RSP B0-1 Bridge Details
  - B0-3 Bridge Details
  - B0-5 Bridge Details
  - B0-13 Bridge Details
  - B6-21 Joint Seals (Maximum Movement Rating = 2")
  - B9-4 Structure Approach Type E0 (10)
  - B9-5 Structure Approach Slab Details
  - B11-51 Tubular Handrailing
  - B11-60 Concrete Barrier Type 80 (Sheet 1 of 2)
  - B11-61 Concrete Barrier Type 80 (Sheet 2 of 2)
- STANDARD PLAN SHEET NO. (with circle and arrow symbol)  
DETAIL NO.
- RSP REVISED STANDARD PLAN SHEET NO. (with circle and arrow symbol)  
DETAIL NO.

**Notes:**  
X = 10' intervals along station line  
Contours Intervals = 0.10'  
Contours do not include camber

**PLAN**  
1"=10'

### QUANTITIES

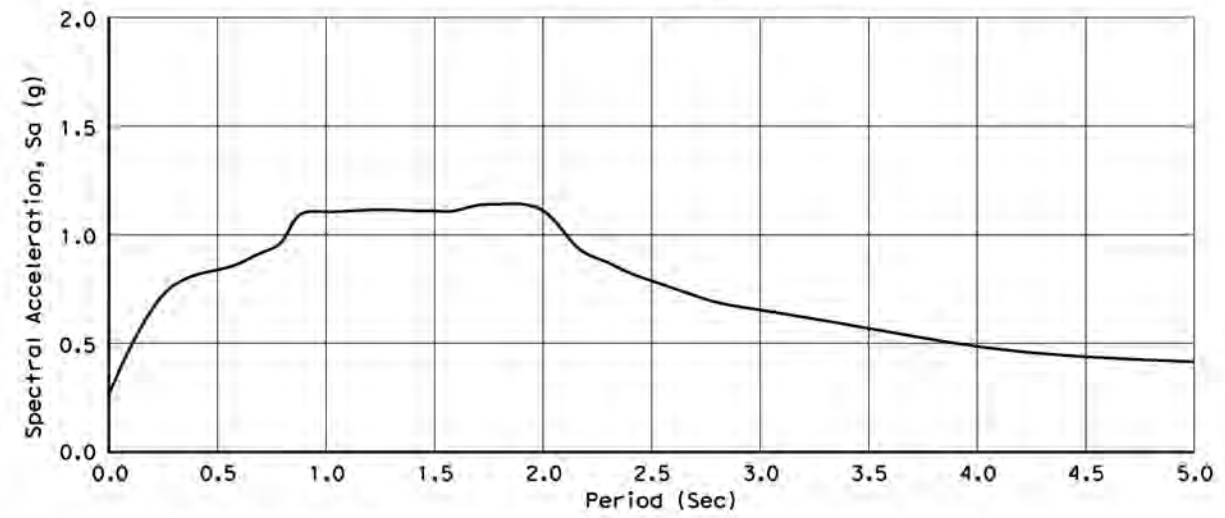
|   |           |
|---|-----------|
| Bridge Removal  | LUMP SUM  |
| Structure Excavation (Type A)                         | 370 CY    |
| Structure Backfill (Bridge)                           | 117 CY    |
| Crushed Rock Backfill                                 | 51 CY     |
| Temporary Shoring                                     | LUMP SUM  |
| Furnish Sheet Pile Shoring                            | 5002 SOFT |
| Drive Steel Sheet Pile                                | 5002 SOFT |
| Furnish 24" Cast-In-Steel-Shell Concrete Piling       | 2446 LF   |
| Drive 24" Cast-In-Steel-Shell Concrete Piling         | 24 EA     |
| Seal Course Concrete                                  | 116 CY    |
| Structural Concrete, Bridge Footing                   | 91 CY     |
| Structural Concrete, Bridge                           | 86 CY     |
| Structural Concrete, Bridge (Polymer Fiber)           | 99 CY     |
| Structure Concrete, Approach Slab (Type E0)           | 23 CY     |
| Furnish Precast Prestressed Concrete Girder (70'-80') | 5 EA      |
| Erect Precast Prestressed Concrete Girder             | 5 EA      |
| Joint Seal (MR = 1/2")                                | 68 LF     |
| Bar Reinforcing Steel (Epoxy Coated) (Bridge)         | 121209 LB |
| Miscellaneous Metal                                   | 1430 LB   |
| Concrete Barrier, Type 80 (Mod)                       | 209 LF    |



- Structural Concrete, Bridge
- Prestressed Concrete PC/PS Wide Flange Girder
- Structural Concrete, Bridge (Polymer Fiber) (fc = 4.0 ksi @ 28 days)
- Structural Concrete, Bridge Footing
- Structural Concrete, Approach Slab
- Seal Course Concrete
- Structural Concrete, Bridge (Piles) (fc = 4.0 ksi @ 28 days)

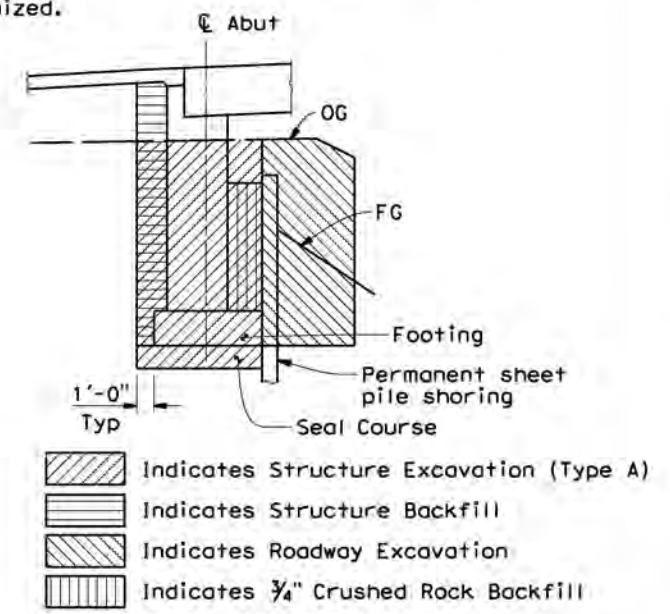
### CONCRETE STRENGTH AND TYPE LIMITS

No Scale



### ACCELERATION RESPONSE SPECTRA CURVE (SITE SPECIFIC)

No Scale



### LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL

No Scale

|   |                  |
|---|------------------|
| X | DESIGN OVERSIGHT |
| X | SIGN OFF DATE    |

|            |                |                 |
|------------|----------------|-----------------|
| DESIGN     | BY L. Smith    | CHECKED J. Chou |
| DETAILS    | BY B. Maechler | CHECKED J. Chou |
| QUANTITIES | BY J. Cruz     | CHECKED H. Chou |

PREPARED FOR THE  
COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS

Scott McCauley  
PROJECT ENGINEER

|            |         |
|------------|---------|
| BRIDGE NO. | 04C0260 |
| POST MILE  | 0.19    |

### SWAIN SLOUGH BRIDGE DECK CONTOURS

DESIGN DETAIL (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: PROJECT NUMBER & PHASE: X CONTRACT NO.: X

|   |                |       |    |
|---|----------------|-------|----|
| DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET | OF |
|   | 5/22/15        | 2     | 15 |

DATE PLOTTED => 12/3/2019 USERNAME => SCOTTW TIME PLOTTED => 9:40:17 AM



### LOAD AND RESISTANCE FACTOR DESIGN PILE DATA TABLE

| LOCATION | PILE TYPE    | NOMINAL RESISTANCE (kips) |         | DESIGN TIP ELEVATION        | SPECIFIED TIP ELEVATION | NOMINAL DRIVING RESISTANCE kips |
|----------|--------------|---------------------------|---------|-----------------------------|-------------------------|---------------------------------|
|          |              | COMPRESSION               | TENSION |                             |                         |                                 |
| Abut 1   | CISS 24x0.75 | 360                       | N/A     | -120.0(a); -35.0(b); -55(c) | -120.0                  | 460                             |
| Abut 2   | CISS 24x0.75 | 360                       | N/A     | -85.0(a); -35.0(b); -55(c)  | -85.0                   | 410                             |

- (1) Design Tip Elevation is controlled by the following demands:  
 (a) Compression, (b) Tension, (c) Lateral Load  
 (2) Do not raise the tip elevation

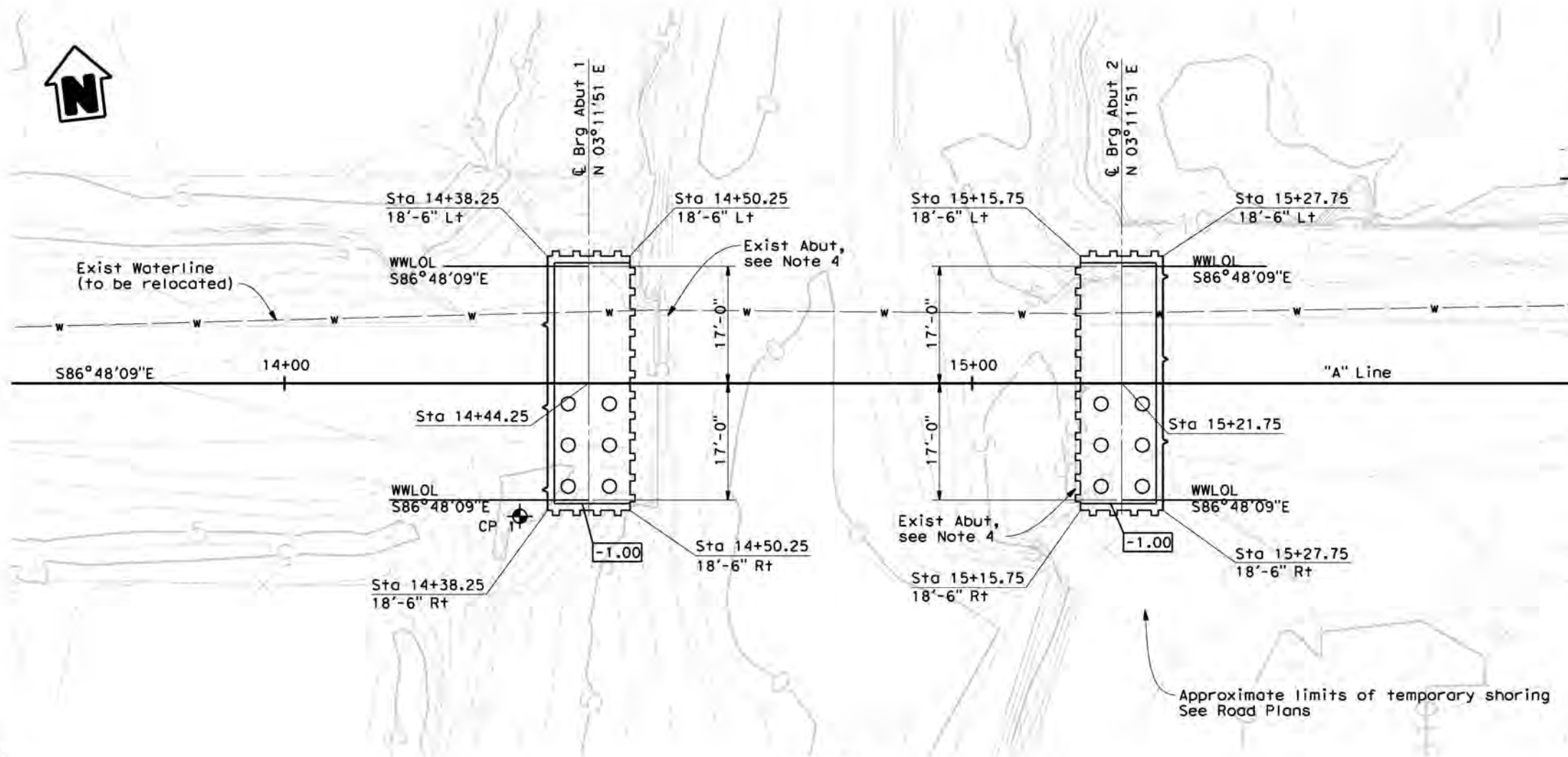
### SCOUR DATA TABLE

| SUPPORT No. | LONG TERM (DEGRADATION AND CONTRACTION) SCOUR ELEVATION (ft) | SHORT TERM (LOCAL) SCOUR DEPTH (ft) |
|-------------|--|-------------------------------------|
| Abut 1      | -1.1   | 8.2                                 |
| Abut 2      | -1.1   | 8.6                                 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 01   | Hum    | CR    | 0.19                     | 16       | 28           |

REGISTERED CIVIL ENGINEER  
 DATE 12-3-19  
 PLANS APPROVAL DATE

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 11017 Cobblerock Drive, Suite 100  
 Rancho Cordova, CA 95670  
**COUNTY OF HUMBOLDT**  
 DEPARTMENT OF PUBLIC WORKS  
 1106 2nd Street  
 Eureka, CA 95501



- Legend:**
- X.XX Indicates bottom of footing elevation
  - Indicates driven vertical pile, not all piles shown
  - w— Indicates existing 12" Waterline
  - w— Indicates Temporary Shoring
  - w— Indicates Steel Sheet Piling, see Note 2
  - ⊕ Indicates survey control point

- Notes:**
- Seal course not shown.
  - For permanent sheet pile shoring specified tip elevation and details, see "Miscellaneous Details" sheet.
  - For Utility information, see Road Plans.
  - Existing abutment locations shown are approximate. Contractor shall field verify actual abutment locations prior to constructing sheet pile and notify Engineer of potential conflict.

**PLAN**  
1"=10'

### SURVEY CONTROL DATA

| No. | NORTHING    | EASTING     | ELEV   | LINE | STATION  | OFFSET    | DESCRIPTION          |
|-----|-------------|-------------|--------|------|----------|-----------|----------------------|
| CP1 | 2164937.002 | 5957031.194 | 10.172 | "A"  | 14+34.23 | 19.36' Rt | SET80DSPIKE          |
| CP2 | 2165008.312 | 5956085.236 | 9.142  | "A"  |          |           | BRASSCAPHUMCORE19203 |
| CP4 | 2164947.122 | 5957432.660 | 9.366  | "A"  | 18+35.19 | 0.88' Rt  | SETMAGNAIL&DPWTAG    |
| CP5 | 2165073.438 | 5957926.179 | 8.956  | "A"  |          |           | FD1510               |

Note:  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

### HYDROLOGIC SUMMARY

Drainage area: 5.5 Square Miles

|                                   | Design Flood | Base Flood |
|-----------------------------------|--------------|------------|
| Frequency (years)                 | 50           | 100        |
| Discharge (cubic feet per second) | 2200         | 2490       |
| Water Surface Elev at Bridge (ft) | 11.5         | 12.1       |

Flood plain data based upon information available when the plans were prepared and are shown to meet Federal requirements. The accuracy of said information is not warranted by the County and interested or affected parties should make their own investigations.

X  
 GEOTECHNICAL PROFESSIONAL APPROVAL DATE

|   |   |  |  |  |                                      |  |
|---|---|--|--|--|--------------------------------------|--|
| X<br>DESIGN OVERSIGHT<br>X<br>SIGN OFF DATE     | SCALE: As shown<br>VERT. DATUM NAVD 1988<br>HORZ. DATUM CCS 83 Zone 1 | PHOTOGRAMMETRY AS OF: 08/2012<br>ALIGNMENT TIES See Survey County Data | DESIGN BY L. Smith<br>CHECKED J. Chou      | PREPARED FOR THE<br><b>COUNTY OF HUMBOLDT</b><br>PUBLIC WORKS DEPARTMENT | BRIDGE NO.<br>04C0260                | <b>SWAIN SLOUGH BRIDGE</b><br><b>FOUNDATION PLAN</b> |
|   | SURVEYED BY County<br>DRAFTED BY County<br>CHECKED BY County          | DETAILS BY L. Smith<br>CHECKED J. Chou                                 | QUANTITIES BY J. Cruz<br>CHECKED H. Chou   |  | PROJECT ENGINEER<br>Scott McCauley   |  |
| FOUNDATION PLAN (REV. 03/14/12)                 |   |  | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS |  | UNIT: X<br>PROJECT NUMBER & PHASE: X | CONTRACT NO.: X                                      |
| DISREGARD PRINTS BEARING EARLIER REVISION DATES |   |  |  |  |                                      | REVISION DATES<br>5/22/15                            |
| Page 40 of 01                                   |   |  |  |  |                                      | SHEET 3 OF 15  |

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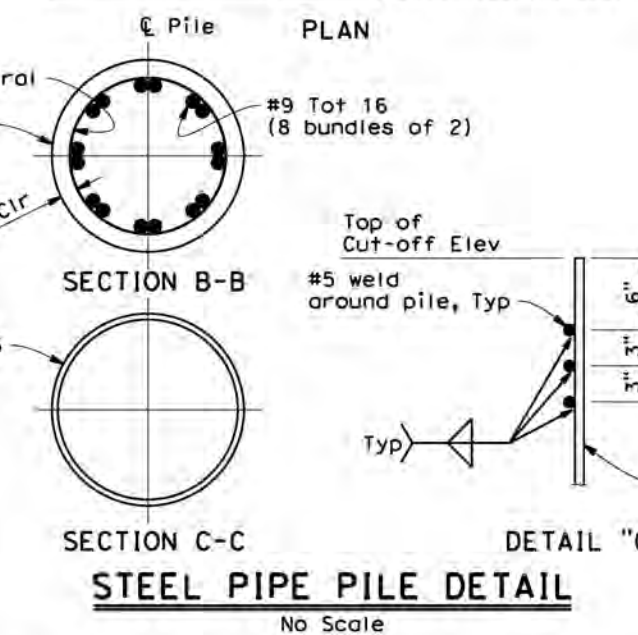
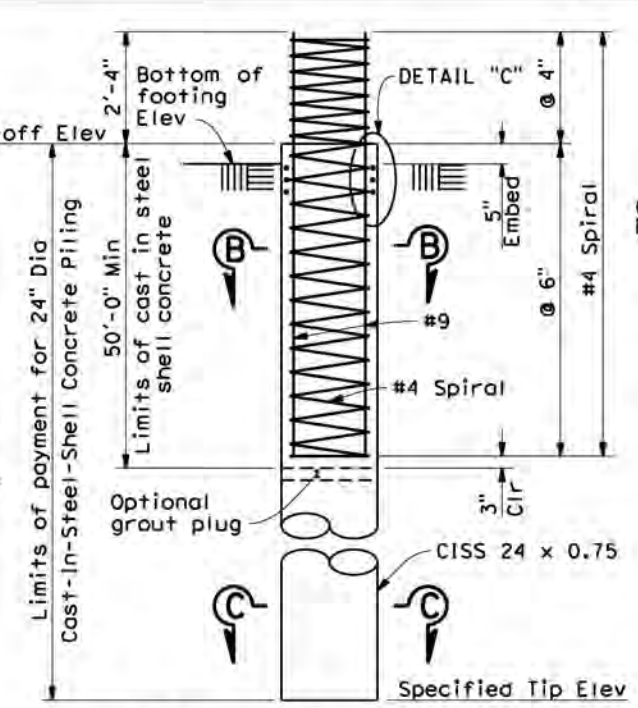
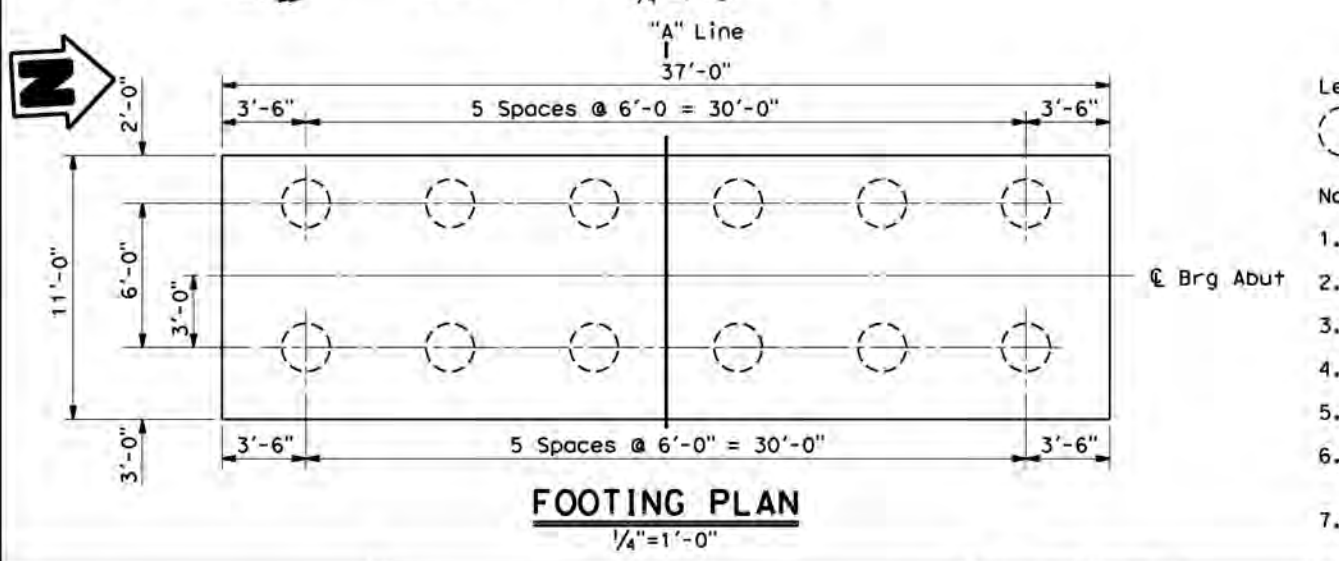
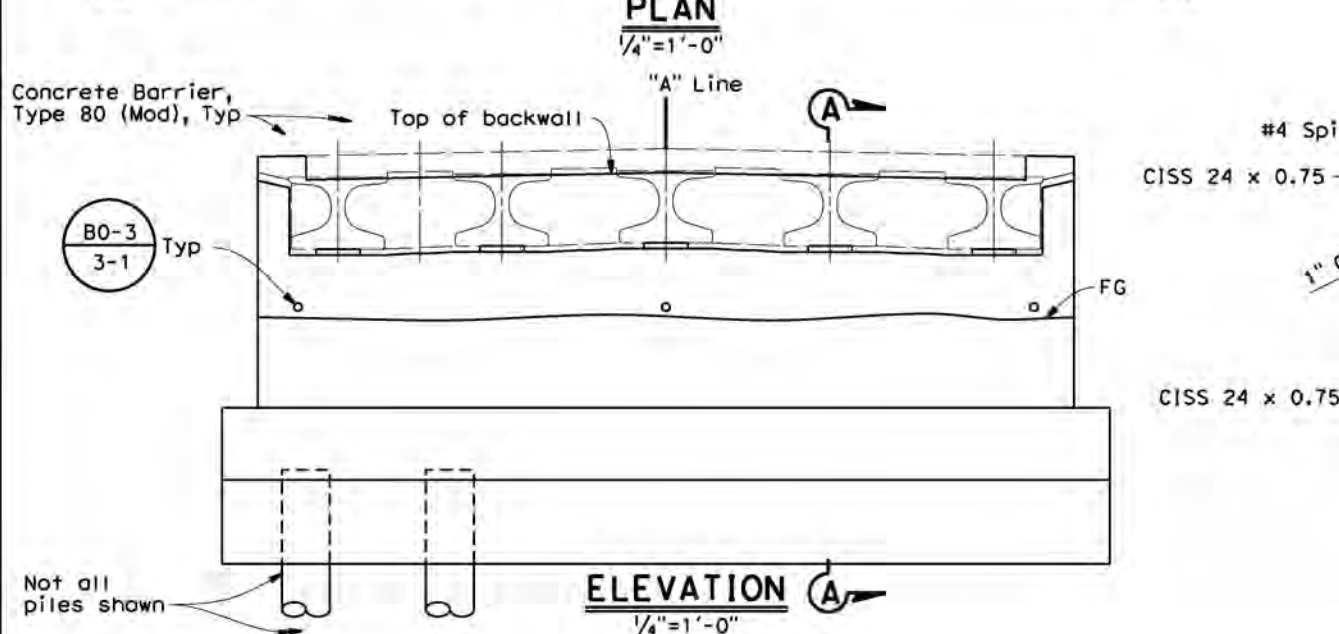
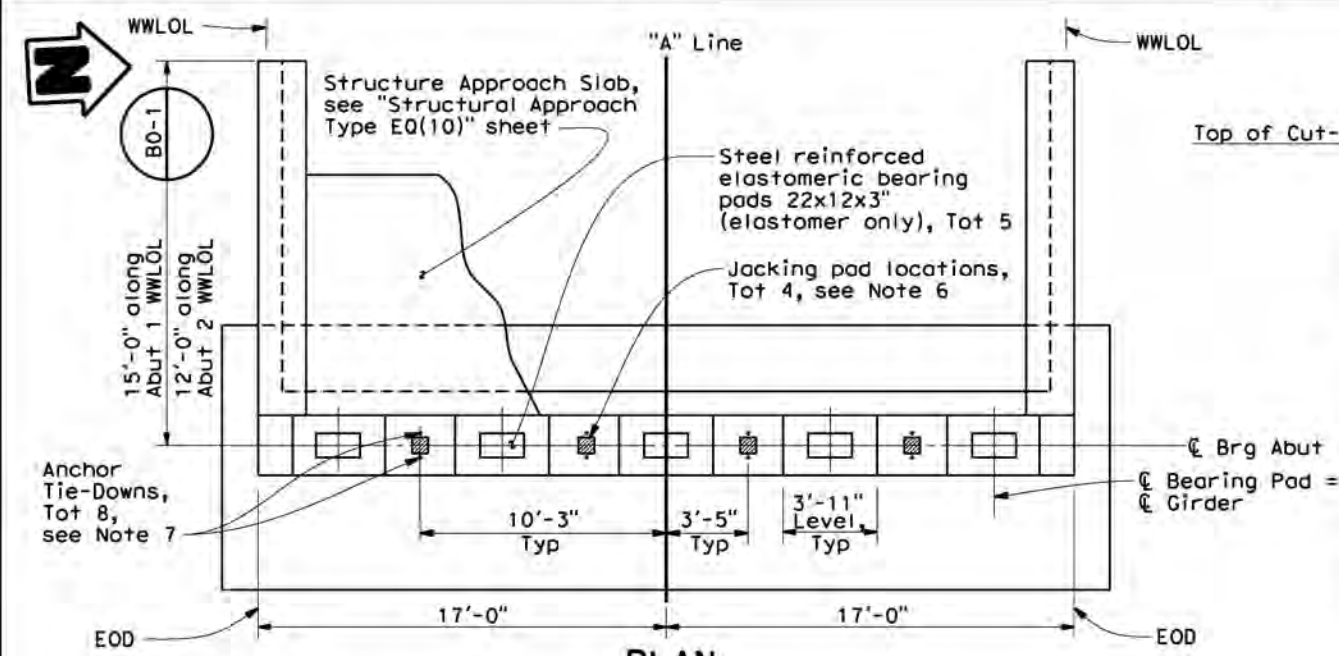
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 01   | Hum    | CR    | 0.19                     | 17       | 28           |

Scott McCauley  
 REGISTERED CIVIL ENGINEER  
 DATE 12-3-19  
 EXP. 12-31-19  
 CIVIL  
 STATE OF CALIFORNIA

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 1106 2nd Street  
 Eureka, CA 95501

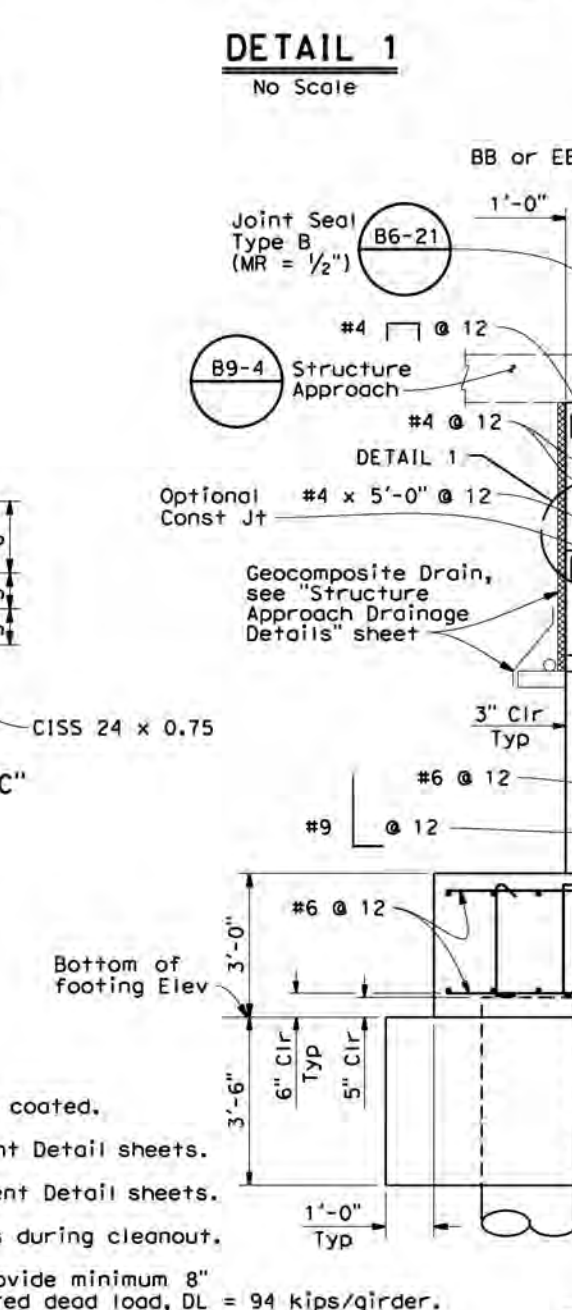
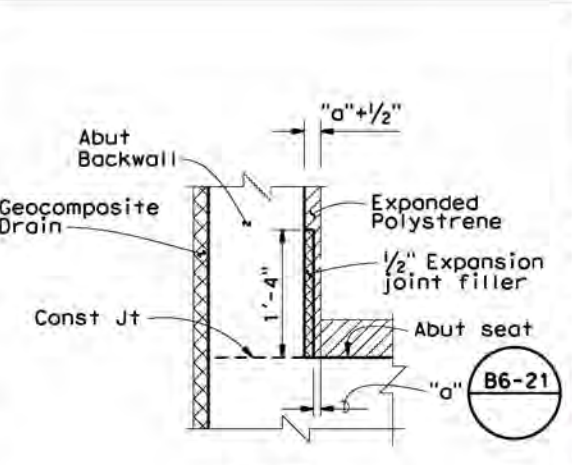


**Legend:**

○ Indicates vertical CISS 24 x 0.75

**Notes:**

1. Abutment 1 shown, Abutment 2 similar.
2. All reinforcement shall be pre-fabricated epoxy coated.
3. For sections and details not shown, see Abutment Detail sheets.
4. For Elastomeric Bearing Pad Details, see Abutment Detail sheets.
5. Retain 15 feet of undisturbed soil plug in piles during cleanout.
6. Jacking pads are for future grade rise only. Provide minimum 8" square level surface for jacking pads. Unfactored dead load, DL = 94 kips/girder.
7. For Anchor Tie-Down and Permanent Sheet Pile shoring details, see "Miscellaneous Details" sheet.



|   |                  |
|---|------------------|
| X | DESIGN OVERSIGHT |
| X | SIGN OFF DATE    |

|            |                |                 |
|------------|----------------|-----------------|
| DESIGN     | BY L. Smith    | CHECKED J. Chou |
| DETAILS    | BY B. Maechler | CHECKED J. Chou |
| QUANTITIES | BY J. Cruz     | CHECKED H. Chou |

PREPARED FOR THE  
**COUNTY OF HUMBOLDT**  
 DEPARTMENT OF PUBLIC WORKS

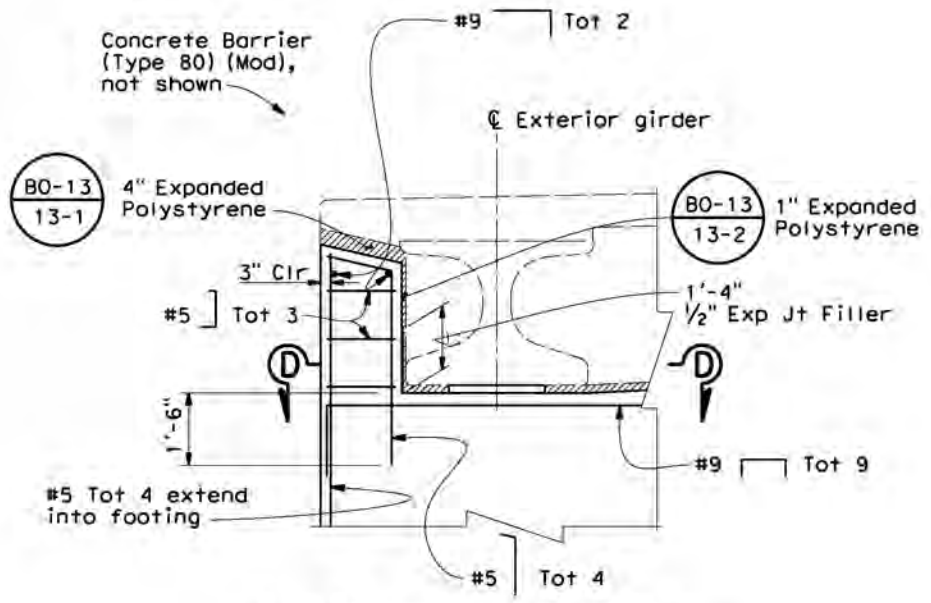
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| BRIDGE NO.              | 04C0260 |
| POST MILE               | 0.19    |
| UNIT:                   | X       |
| PROJECT NUMBER & PHASE: | X       |

**SWAIN SLOUGH BRIDGE**  
**ABUTMENT LAYOUT**

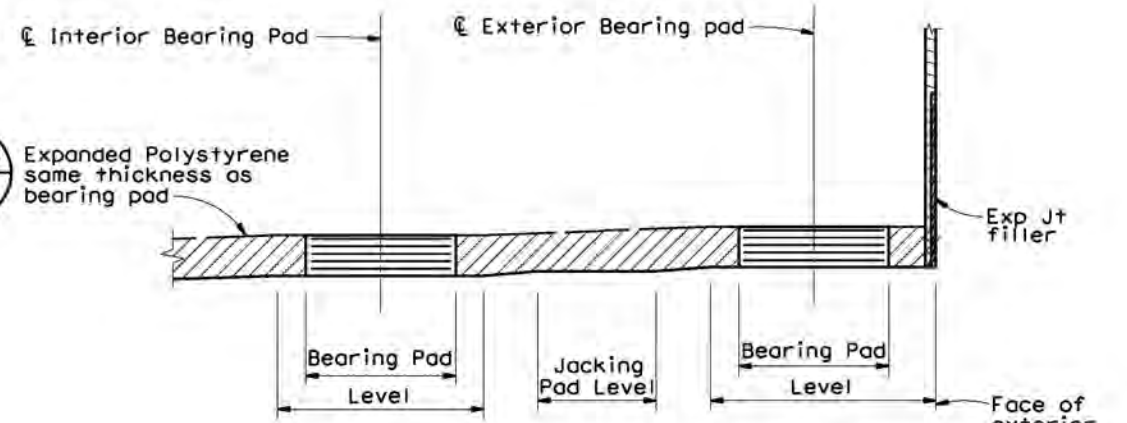
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 01   | Humb   | CR    | 0.19                     | 18       | 28           |

Scott McCauley 12-3-19  
 REGISTERED CIVIL ENGINEER DATE  
 REGISTERED PROFESSIONAL ENGINEER  
 SCOTT A. MCCAULEY  
 No. 71495  
 Exp. 12-31-19  
 CIVIL  
 STATE OF CALIFORNIA

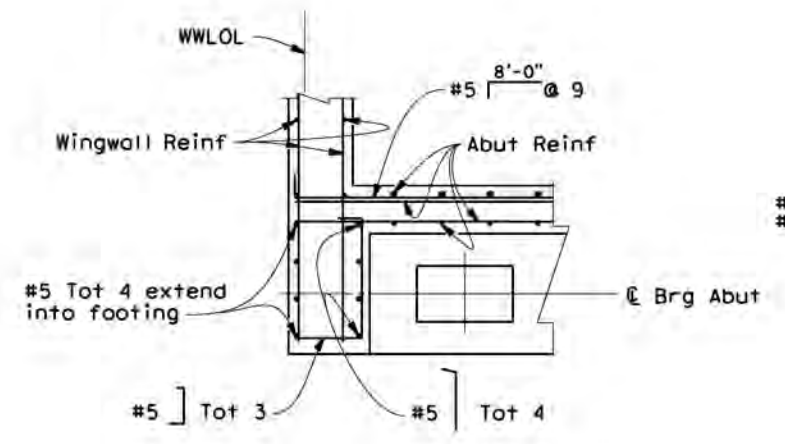
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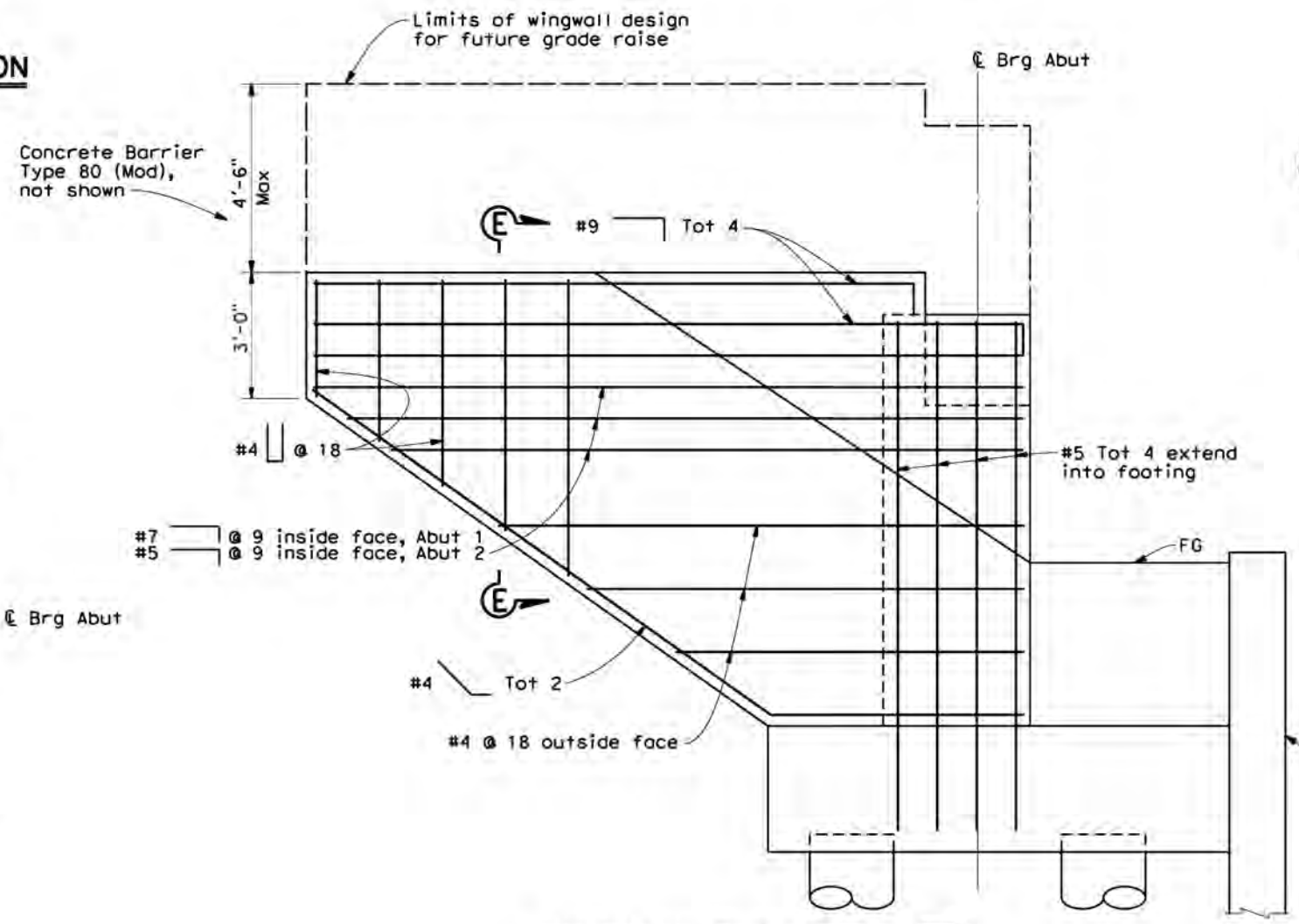
**SHEAR KEY ELEVATION**  
1/2"=1'-0"



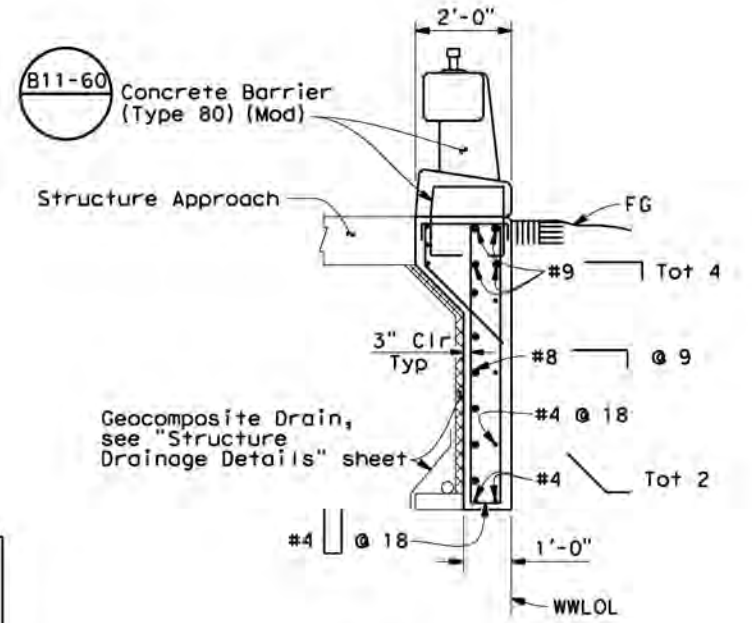
**BEARING PAD DETAIL**  
No Scale



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



**WINGWALL ELEVATION**  
1/2"=1'-0"



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

- Notes:
- All reinforcement shall be pre-fabricated epoxy coated.
  - For Anchor Tie-Down and Permanent Sheet Pile shoring details, see "Miscellaneous Details" sheet.

|   |                  |
|---|------------------|
| X | DESIGN OVERSIGHT |
| X | SIGN OFF DATE    |

|            |                |                 |
|------------|----------------|-----------------|
| DESIGN     | BY L. Smith    | CHECKED J. Chou |
| DETAILS    | BY B. Maechler | CHECKED J. Chou |
| QUANTITIES | BY J. Cruz     | CHECKED H. Chou |

|                            |  |            |
|----------------------------|--|------------|
| PREPARED FOR THE           |  | BRIDGE NO. |
| COUNTY OF HUMBOLDT         |  | 04C0260    |
| DEPARTMENT OF PUBLIC WORKS |  | POST MILE  |
|                            |  | 0.19       |

|                         |   |
|-------------------------|---|
| UNIT:                   | X |
| PROJECT NUMBER & PHASE: | X |
| CONTRACT NO.:           | X |

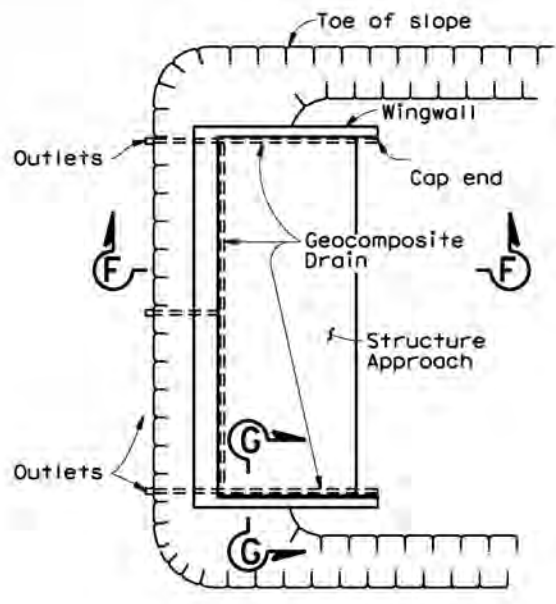
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|-------------------------------|----------|
| <b>SWAIN SLOUGH BRIDGE</b>    |          |
| <b>ABUTMENT DETAILS No. 1</b> |          |
| REVISION DATES                | SHEET OF |
| 5/2/15                        | 5 15     |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 01   | Hum    | CR    | 0.19                     | 19       | 28           |

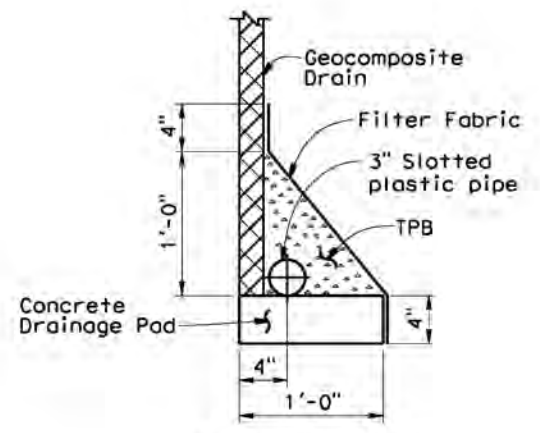
Scott McCauley 12-3-19  
 REGISTERED CIVIL ENGINEER DATE  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 71495  
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 CIVIL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE  
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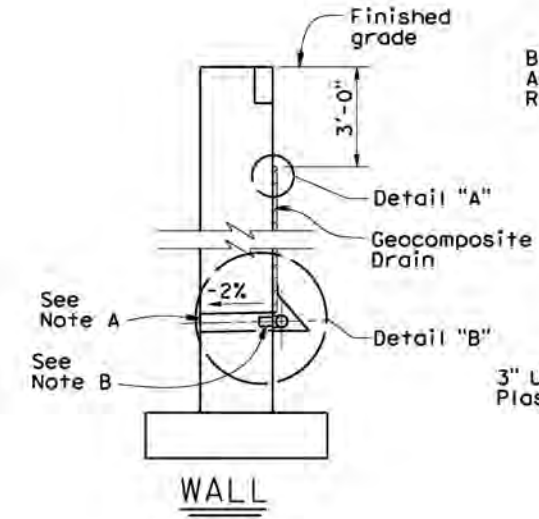
QUINCY ENGINEERING, INC  
 11017 Cobblecreek Drive, Suite 100  
 Rancho Cordova, CA 95670  
 COUNTY OF HUMBOLDT  
 DEPARTMENT OF PUBLIC WORKS  
 1106 2nd Street  
 Eureka, CA 95501



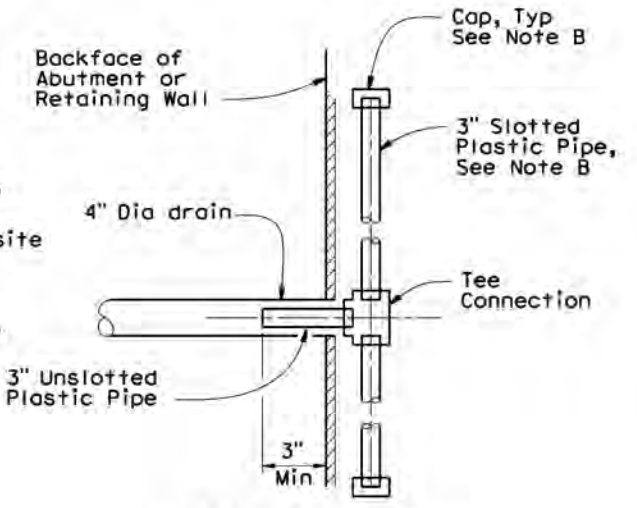
**PLAN**  
No Scale



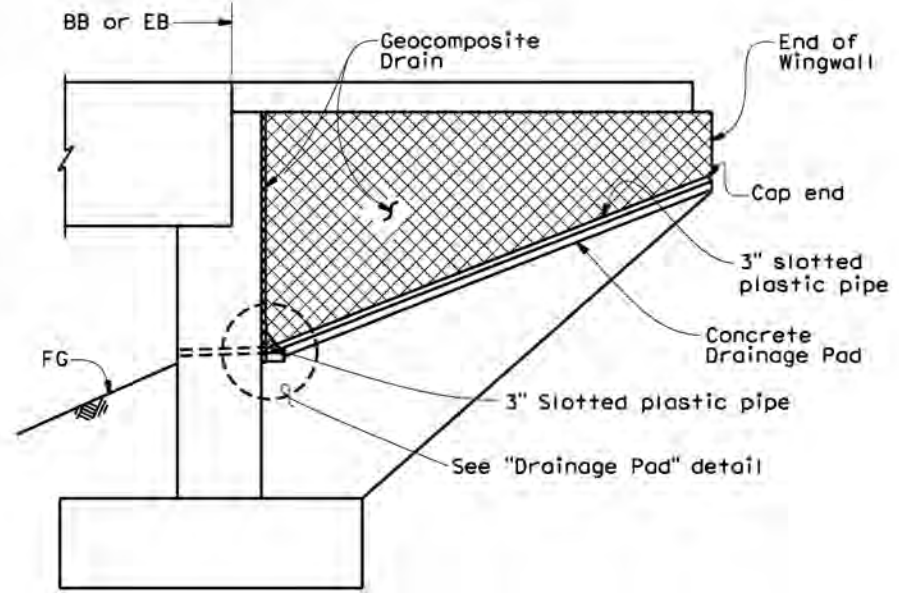
**DRAINAGE PAD**  
No Scale



**WALL SECTION**

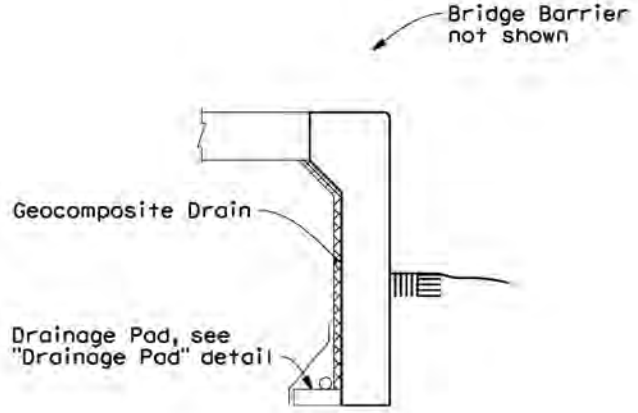


**SECTION A-A**

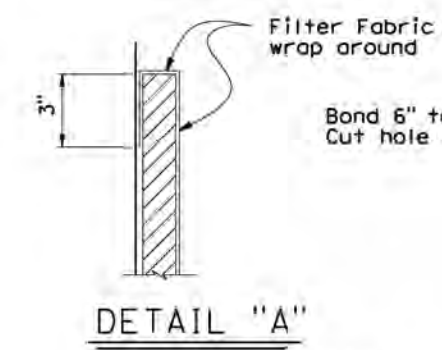


**SECTION F-F**  
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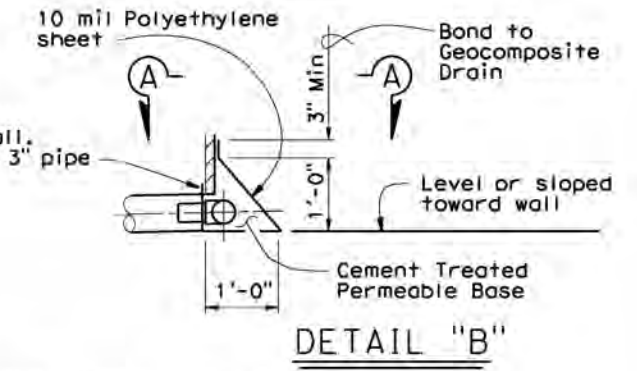
NOTE: TPB not shown for clarity.



**SECTION G-G**  
No Scale



**DETAIL "A"**



**DETAIL "B"**

**ALTERNATIVE DRAINAGE DETAILS  
WEEP HOLE AND GEOCOMPOSITE DRAIN**

No Scale

- Notes:
- 4" Dia drains at intermediate sag points and at 25' max center to center. Exposed wall drains shall be located 3"± above finished grade.
  - Geocomposite drain, cement treated permeable base, and 3" Dia slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" Dia drain.
  - Connect the low end of plastic pipe to the main outlet pipe as applicable.

|   |                  |
|---|------------------|
| X | DESIGN OVERSIGHT |
| X | SIGN OFF DATE    |

|            |                |                 |
|------------|----------------|-----------------|
| DESIGN     | BY L. Smith    | CHECKED J. Chou |
| DETAILS    | BY B. Maechler | CHECKED J. Chou |
| QUANTITIES | BY J. Cruz     | CHECKED H. Chou |

|  |         |
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| BRIDGE NO.   | 04C0260 |
| POST MILE  | 0.19    |

|                         |   |
|-------------------------|---|
| UNIT:                   | X |
| PROJECT NUMBER & PHASE: | X |

|            |         |
|------------|---------|
| BRIDGE NO. | 04C0260 |
| POST MILE  | 0.19    |

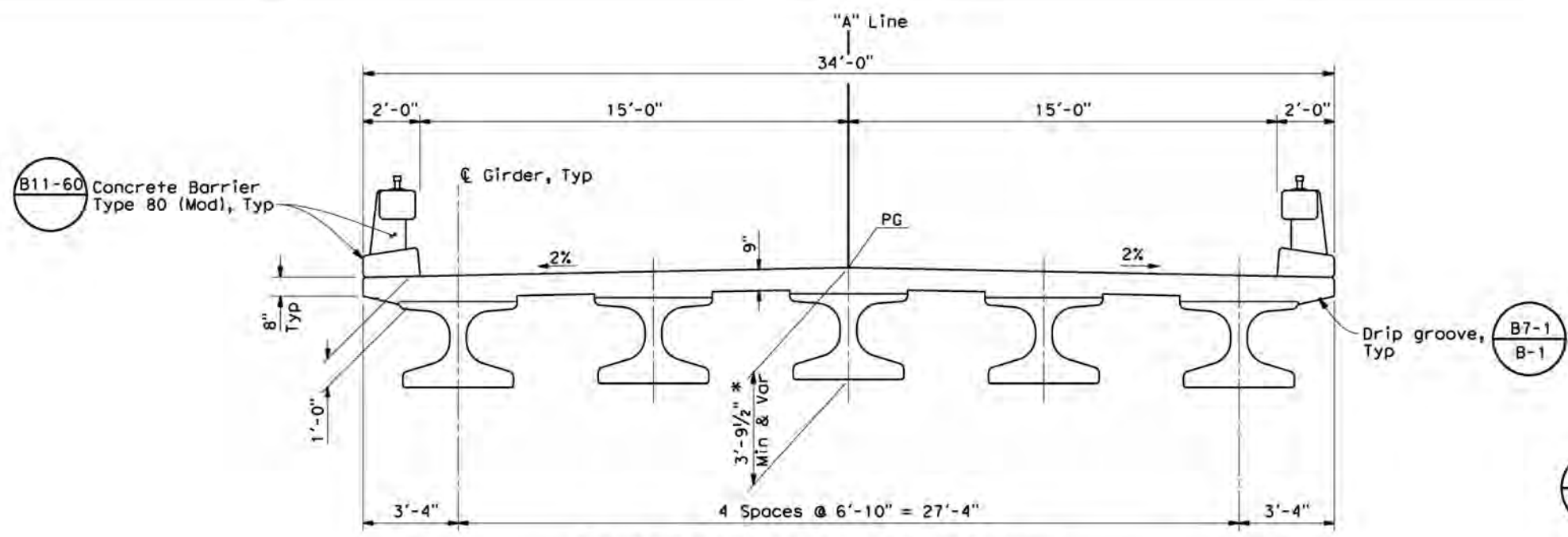
|                               |               |
|-------------------------------|---------------|
| <b>SWAIN SLOUGH BRIDGE</b>    |               |
| <b>ABUTMENT DETAILS No. 2</b> |               |
| REVISION DATES                | SHEET 6 OF 15 |

FILE => S:\Client\Humboldt\H07-300\_Plan\_H11\CAQ\Bridg\H07300a-f-a02d+02.dgn

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
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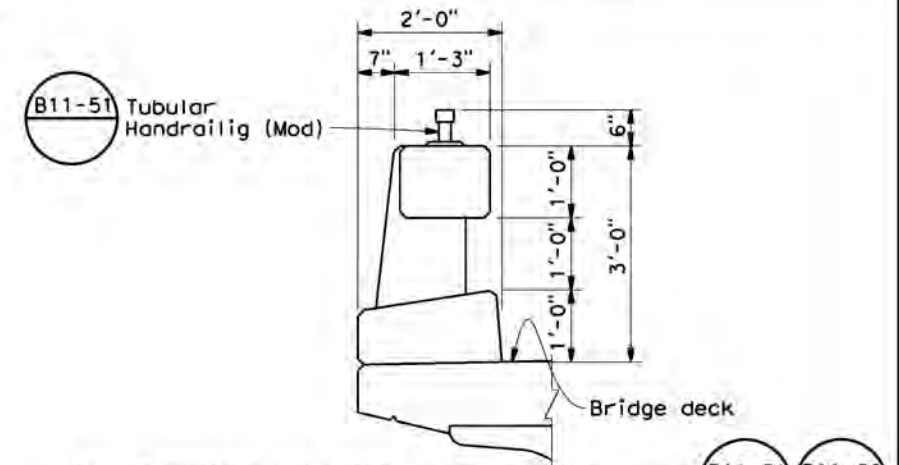
Scott McCauley 12-3-19  
 REGISTERED CIVIL ENGINEER DATE  
 REGISTERED PROFESSIONAL ENGINEER  
 SCOTT A. MCCAULEY  
 No. 71495  
 Exp. 12-31-19  
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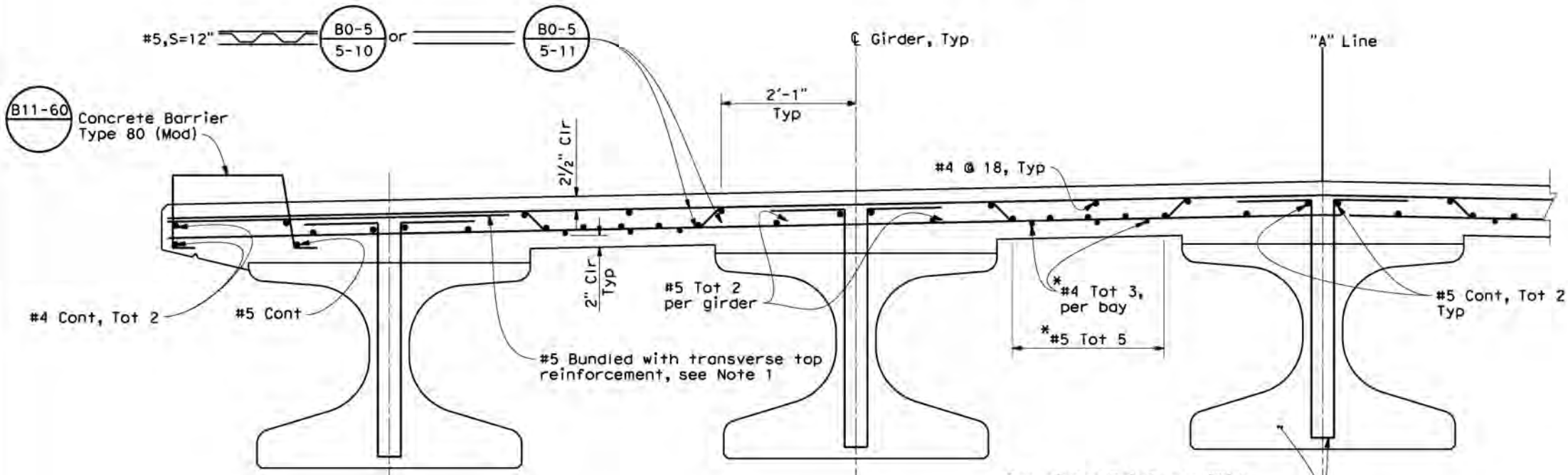
\* 1/2" Minimum haunch at support (along centerline of girder)  
 2" Haunch thickness at mid span (along centerline of girder)

**TYPICAL SECTION**  
 3/4" = 1'-0"



For dimensions and reinforcement not shown, see B11-51 B11-60

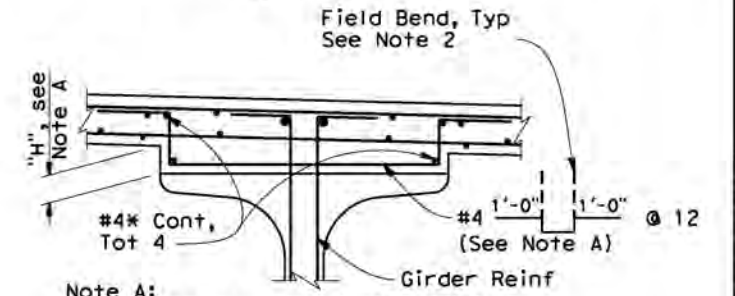
**TYPE 80 (Mod) DETAIL**  
 3/4" = 1'-0"



For girder Reinf, see "Wide Flange Girder Details No.1" sheet

**PART TYPICAL SECTION**  
 3/4" = 1'-0"

\* Distribution Reinforcement, see Note 3



Note A:  
 Reinforcement shown is in addition to Typical Section Reinf. Reinf to be placed over length of each girder where H > 2".

**HAUNCH DETAILS**  
 3/4" = 1'-0"

Notes:

1. Provide additional top transverse deck reinforcement for a distance of 5 feet at the ends of barrier rail at expansion joint. Bundle with top transverse reinforcement on bridge and extend 16" beyond centerline of exterior girder.
2. All reinforcement shall be pre-fabricated epoxy coated.
3. For limits of distribution reinforcement into end diaphragm, see "Girder Layout" sheet.

|   |                  |
|---|------------------|
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| DESIGN     | BY L. Smith    | CHECKED J. Chou |
| DETAILS    | BY B. Maechler | CHECKED J. Chou |
| QUANTITIES | BY J. Cruz     | CHECKED H. Chou |

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|------------|---------|
| BRIDGE NO. | 04C0260 |
| POST MILE  | 0.19    |

**SWAIN SLOUGH BRIDGE**  
**TYPICAL SECTION**

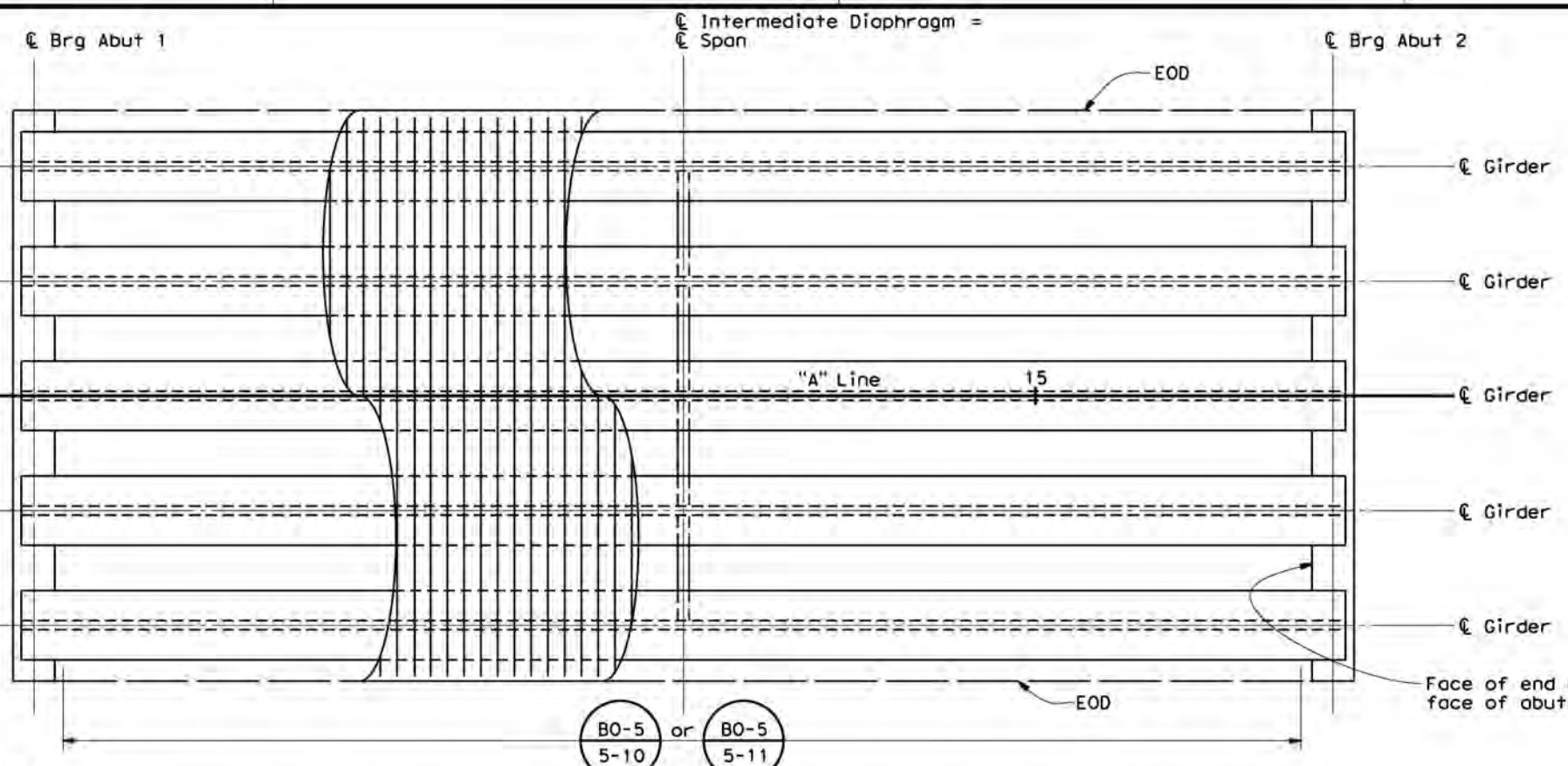
DESIGN DETAIL (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

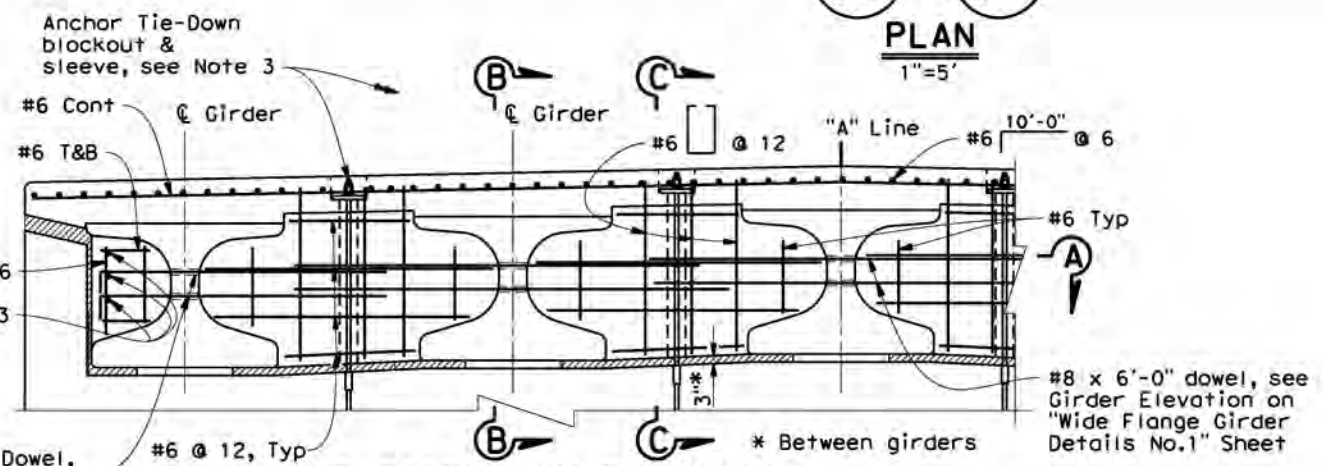
UNIT: PROJECT NUMBER & PHASE: X CONTRACT NO.: X

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| REVISION DATES | SHEET | OF |
| 5/22/15        | 7     | 15 |

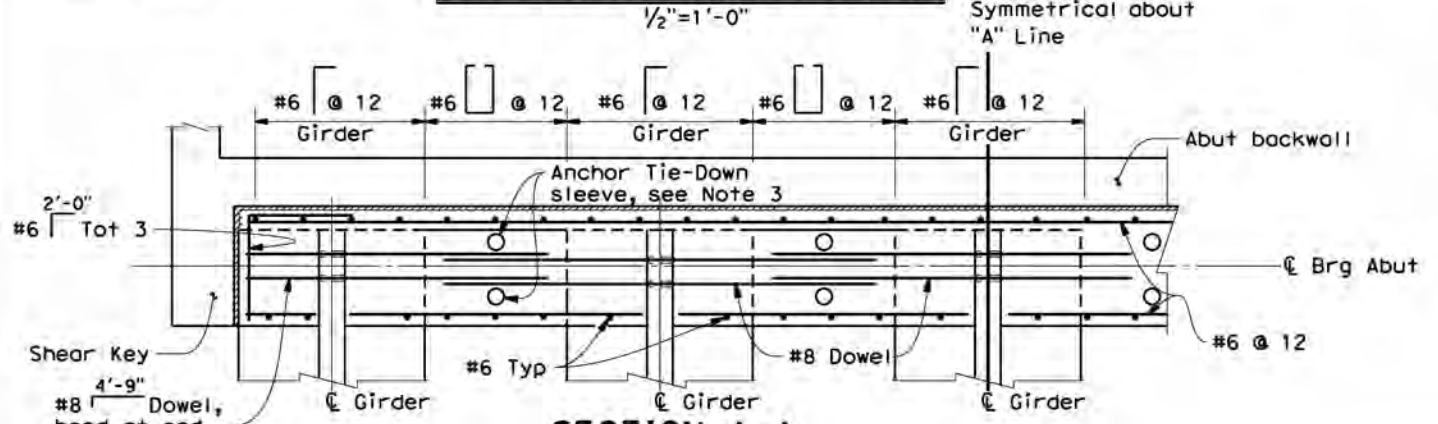
USERNAME => SCOTTW DATE PLOTTED => 12/31/2019 TIME PLOTTED => 9:40:24 AM



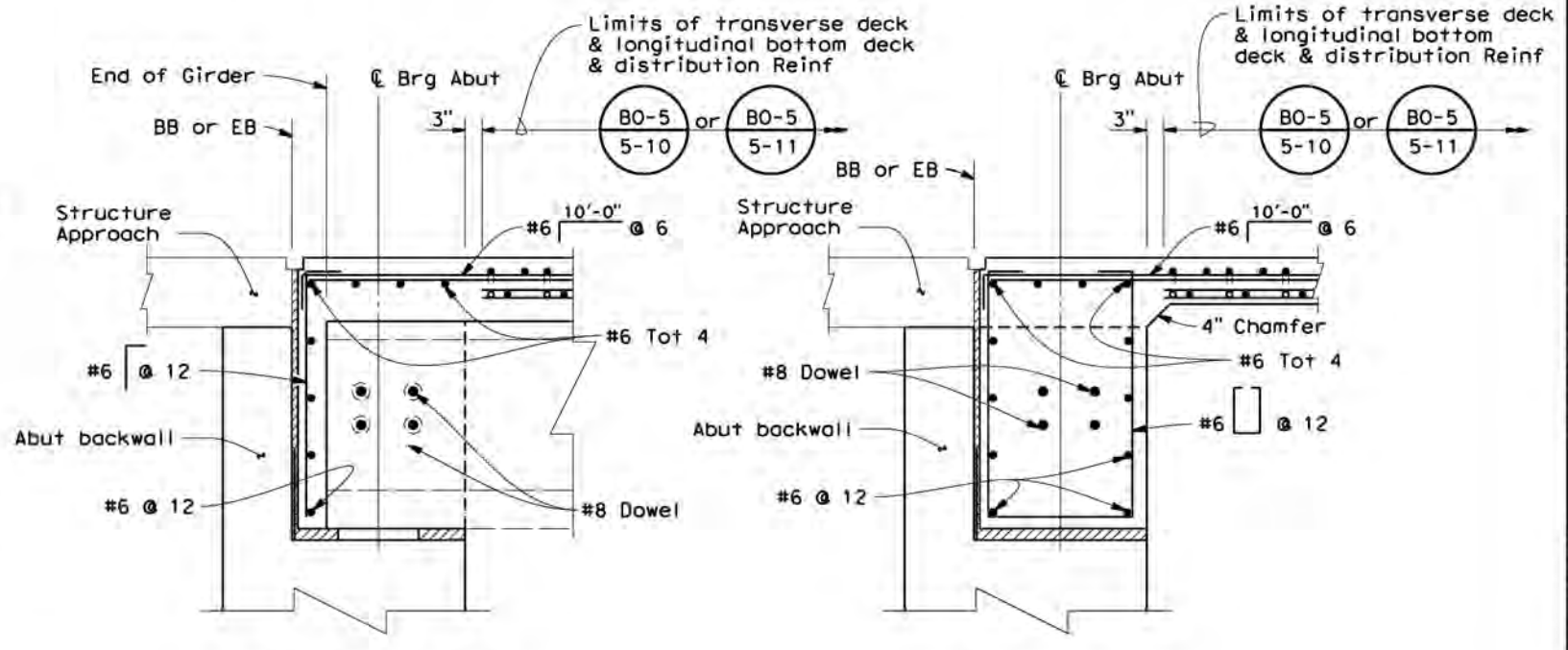
**PLAN**  
1"=5'



**END DIAPHRAGM ELEVATION**  
1/2"=1'-0"



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



**SECTION B-B**  
3/4"=1'-0"

**SECTION C-C**  
3/4"=1'-0"

- Notes:
1. For Intermediate Diaphragm, see "Wide Flange Girder Details No. 2" sheet.
  2. All reinforcement shall be pre-fabricated epoxy coated.
  3. Adjust reinforcement to clear sleeve. For Anchor Tie-Down details, see "Miscellaneous Details" sheet.

|      |        |       |                          |          |              |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
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Scott McCauley 12-3-19  
 REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER  
 SCOTT A. MCCAULEY  
 No. 71495  
 Exp. 12-31-19  
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| QUANTITIES | BY J. Cruz     | CHECKED H. Chou |

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| BRIDGE NO. | 04C0260 |
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**SWAIN SLOUGH BRIDGE**  
**GIRDER LAYOUT**

USERNAME => SCOTT DATE PLOTTED => 12/3/2019 TIME PLOTTED => 9:40:25 AM

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|------|--------|-------|--------------------------|----------|--------------|
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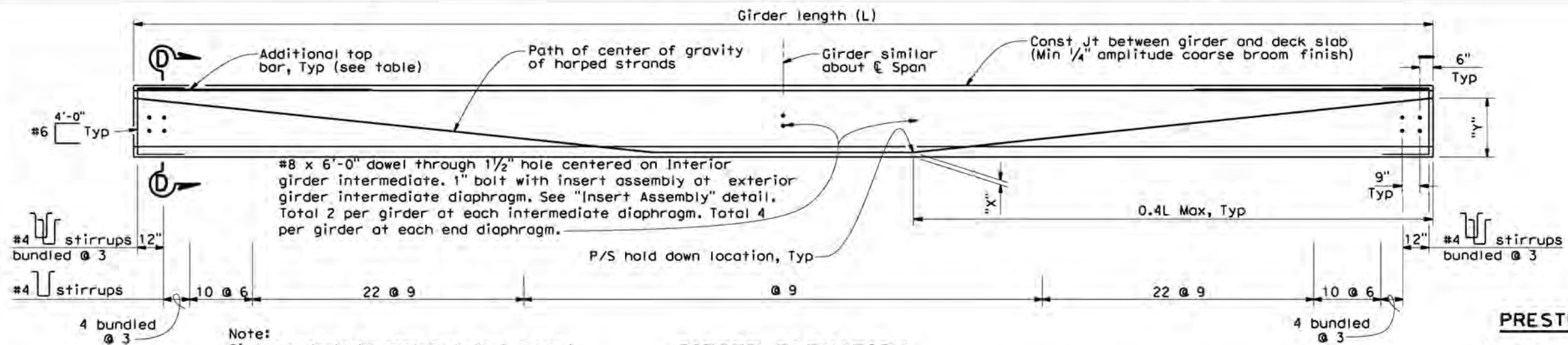
REGISTERED PROFESSIONAL ENGINEER  
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 Exp. 12-31-19  
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Note: Girder ends to be cast such that a level surface is provided at bearing pads

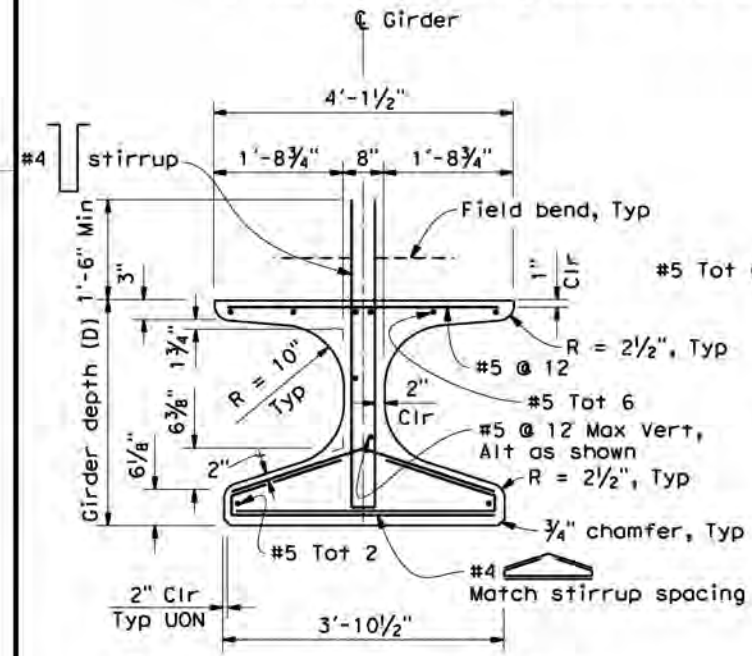
**GIRDER ELEVATION**  
No Scale

| LOCATION    | GIRDER LENGTH (L) | GIRDER DEPTH (D) | "X" (in)         |                | JACKING FORCE (P) | As, Min (in') | CONCRETE STRENGTH (ksi) |     | MIDSPAN DEAD LOAD DEFLECTION (in) |      | ADDITIONAL TOP BAR (EACH END) |
|-------------|-------------------|------------------|------------------|----------------|-------------------|---------------|-------------------------|-----|-----------------------------------|------|-------------------------------|
|             |                   |                  | Straight Strands | Harped Strands |                   |               | f'ci                    | f'c | DECK                              | RAIL |                               |
| ALL GIRDERS | 79'-0"            | 36"              | 3.75             | 4.75           | 1300 kips         | 6.4           | 5.5                     | 6.5 | 0.9                               | 0.10 | #8 x 8' Tot 4                 |

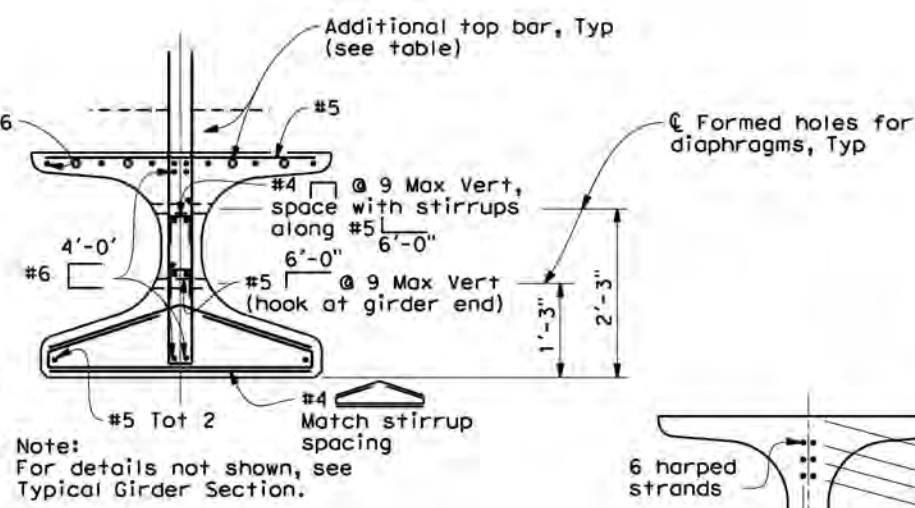
\* Prestressing steel c.g. dimension is for harped strands only. See Strand Template detail.

**PRESTRESSING NOTES**

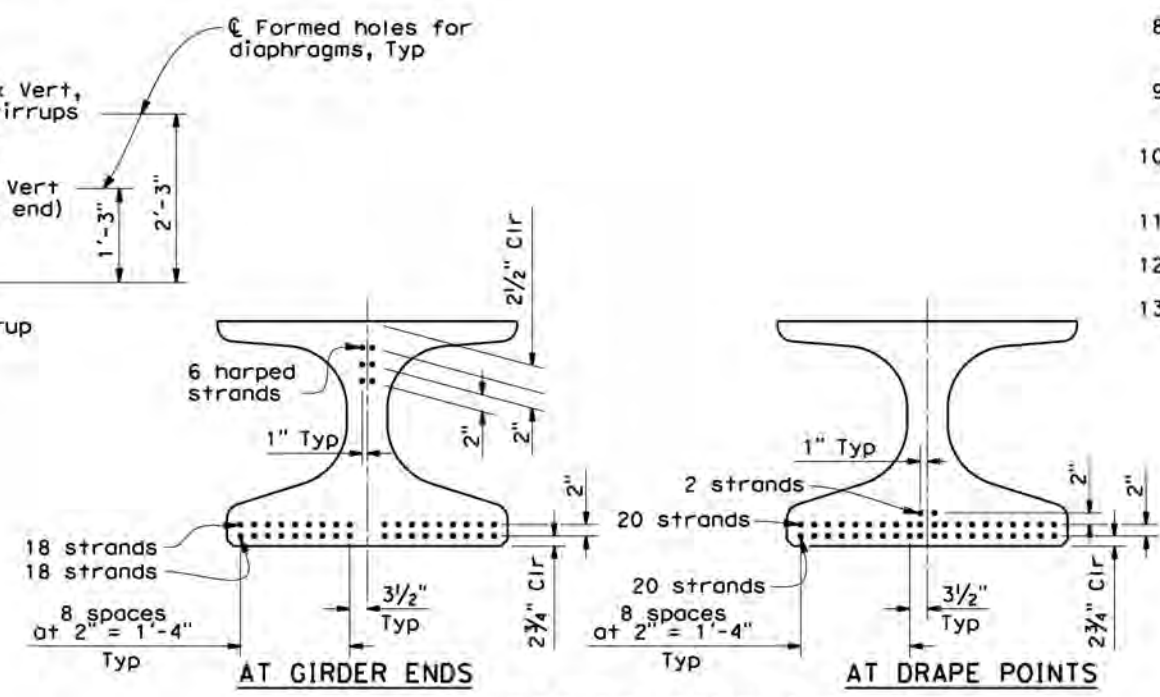
- The Jacking Force (P) is the jacking force required at the point of control along the span. The jacking force does not include any fabrication specific losses.
- The maximum tensile stress in the prestressing steel upon release shall not exceed 75% of the specified minimum ultimate tensile strength of the prestressing steel.
- The maximum temporary tensile stress (jacking stress) in the prestressing steel shall not exceed 80% of the specified minimum ultimate tensile strength of the prestressing steel.
- Concrete strength:  
f'ci is at time of initial stressing  
f'c is at 28 days
- Deflection components are informational and will be used to set screed line elevations.
- Screed line elevations for deck concrete will be determined by the Engineer.
- Prestressing strand shall be 270 ksi low relaxation.
- Strands shall be placed as low as possible in the strand template and symmetrical about C girder.
- Strands may be bundled in groups consisting of 3 vertically, 2 horizontally, and separated at the ends.
- The minimum distance "S" between groups or individual strands is 1 3/4" for 0.5" diameter strand.
- "S" is measured between centers of adjacent strands.
- Approval by the Engineer is required for deviation.
- The prestressing stand and all reinforcement shall be pre-fabricated epoxy coated.



**TYPICAL GIRDER SECTION**  
No Scale



**SECTION D-D**  
No Scale



**STRAND TEMPLATE**

Note: Template shown is for 0.5" diameter strand

Note: For Welded Wire Reinforcement (WWR), see "Wide Flange Girder Details No. 2" sheet.

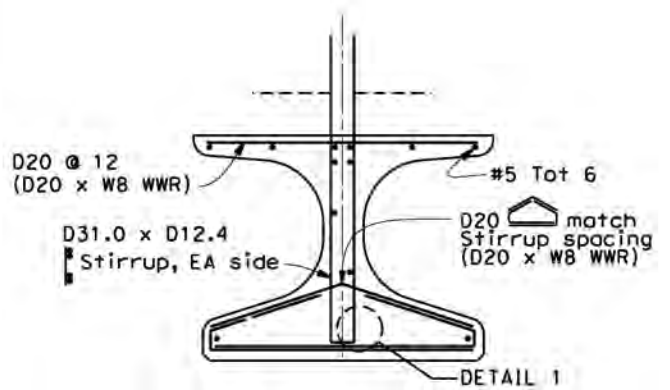
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|--|---|---|---|---|
| X DESIGN OVERSIGHT<br>X SIGN OFF DATE<br>DESIGN DETAIL (REV. 03/14/12) | DESIGN BY L. Smith<br>CHECKED J. Chou     | PREPARED FOR THE<br><b>COUNTY OF HUMBOLDT</b><br>DEPARTMENT OF PUBLIC WORKS | BRIDGE NO. 04C0260<br>POST MILE 0.19            | <b>SWAIN SLOUGH BRIDGE</b><br><b>WIDE FLANGE GIRDER DETAILS No. 1</b> |
|  | DETAILS BY B. Maechler<br>CHECKED J. Chou |   | PROJECT ENGINEER Scott McCauley                 |   |
|  | QUANTITIES BY J. Cruz<br>CHECKED H. Chou  | UNIT: PROJECT NUMBER & PHASE: X<br>CONTRACT NO.: X                          | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES<br>SHEET 9 OF 15                                       |

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 FILE: S:\Client\Humboldt\H07-300\Plan\H07\CAD\Bridg\H07300c-1-gd101.dgn

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 01   | Hum    | CR    | 0.19                     | 23       | 28           |

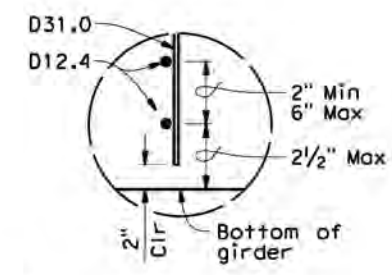
Scott McCauley 12-3-19  
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 REGISTERED PROFESSIONAL ENGINEER  
 SCOTT A. MCCAULEY  
 No. 71495  
 Exp. 12-31-19  
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- Notes:
1. For details shown but not noted, see "Typical Girder Section" detail.
  2. WB WWR not shown.

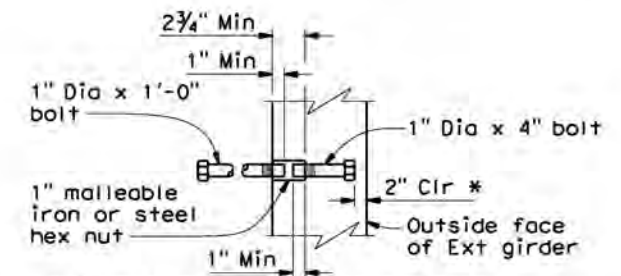
**WELDED WIRE REINFORCEMENT (WWR) ALTERNATIVE**  
No Scale



- Notes:
1. Bottom of stirrup WWR detail shown, top similar.
  2. Longitudinal wire area shall be 40% or greater of vertical deformed wire's area.

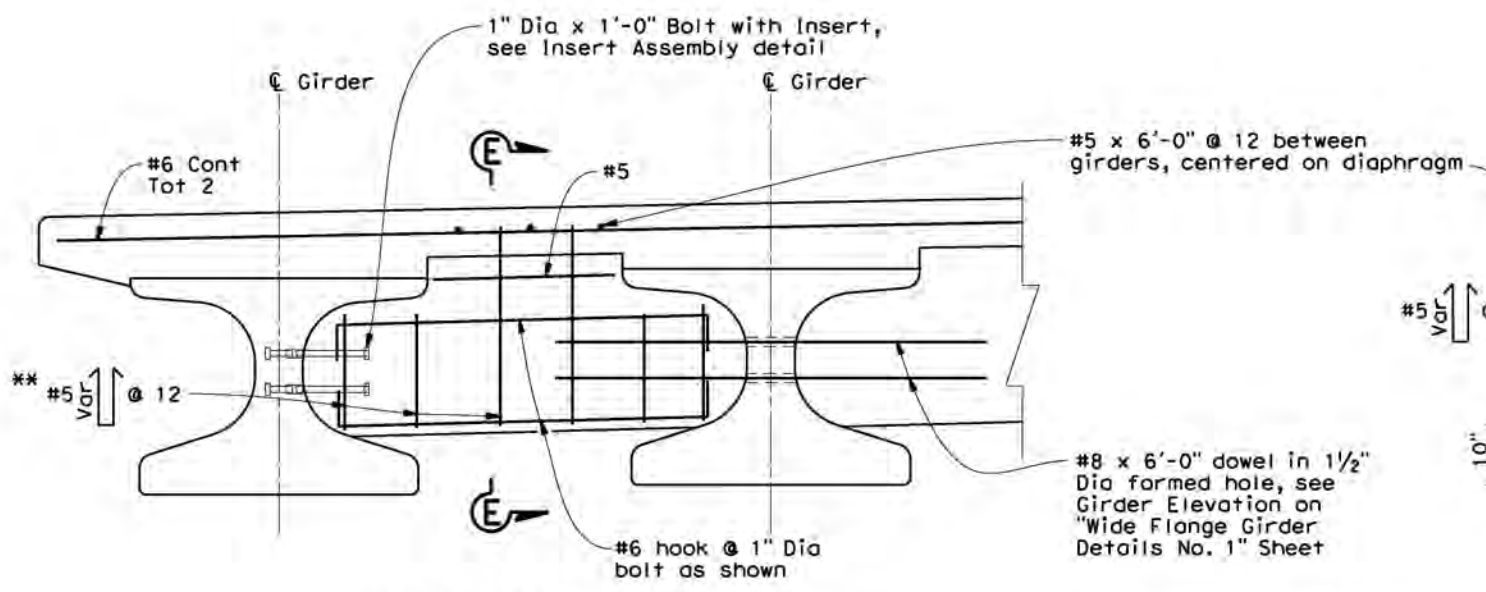
**DETAIL 1**  
No Scale

Note:  
1) All reinforcement shall be pre-fabricated epoxy coated.



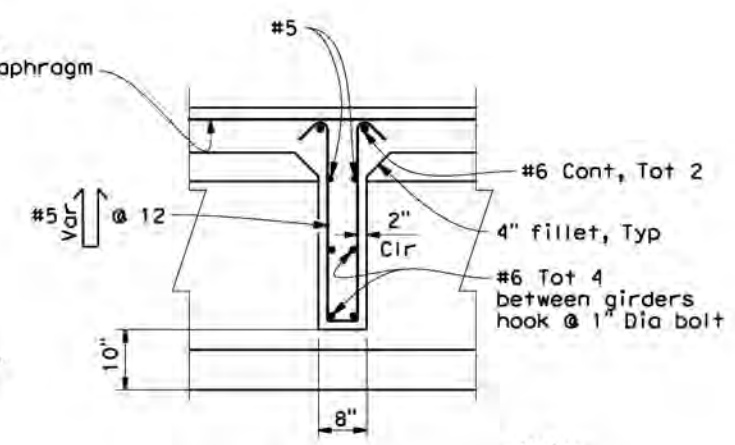
\* Dimension may be increased when insert assembly is used at end block

**INSERT ASSEMBLY**  
No Scale



**INTERMEDIATE DIAPHRAGM**  
1/2"=1'-0"

\*\* Hooks inward below girder top flange



**SECTION E-E**  
3/4"=1'-0"

Note:  
Diaphragm may be vertical or normal to deck grade

|   |                  |
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| DESIGN     | BY L. Smith    | CHECKED J. Chou |
| DETAILS    | BY B. Maechler | CHECKED J. Chou |
| QUANTITIES | BY J. Cruz     | CHECKED H. Chou |

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Scott McCauley  
 PROJECT ENGINEER  
 BRIDGE NO. 04C0260  
 POST MILE 0.19

**SWAIN SLOUGH BRIDGE**  
**WIDE FLANGE GIRDER DETAILS No. 2**

USERNAME = scottm DATE PLOTTED = 3-12-2019 9:40:27 AM



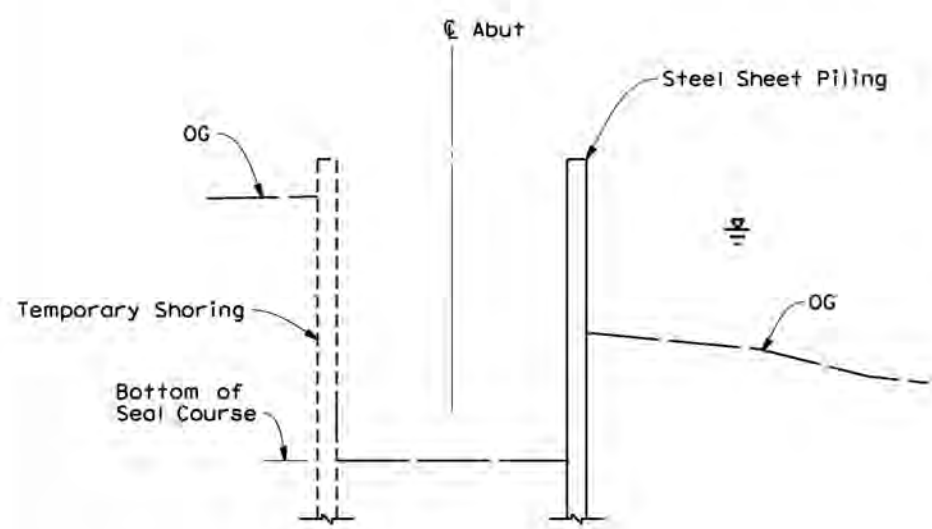
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 01   | Hum    | CR    | 0.19                     | 24       | 28           |

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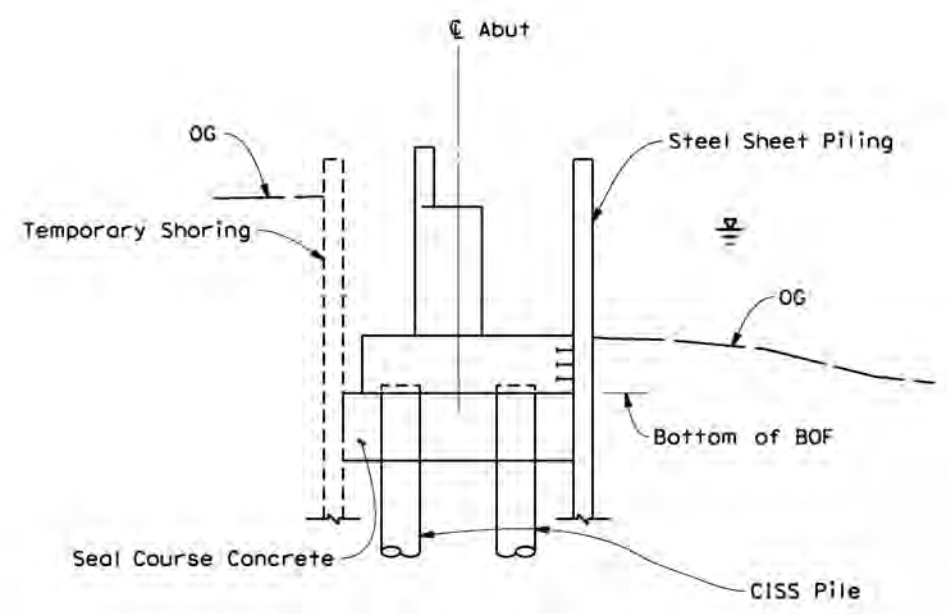
Notes:

1. Temporary Shoring and Steel Sheet Piling shall prevent seepage with Abut footing construction area, contamination of slough from removal of sediments, & leeching of seal course and footing concrete.



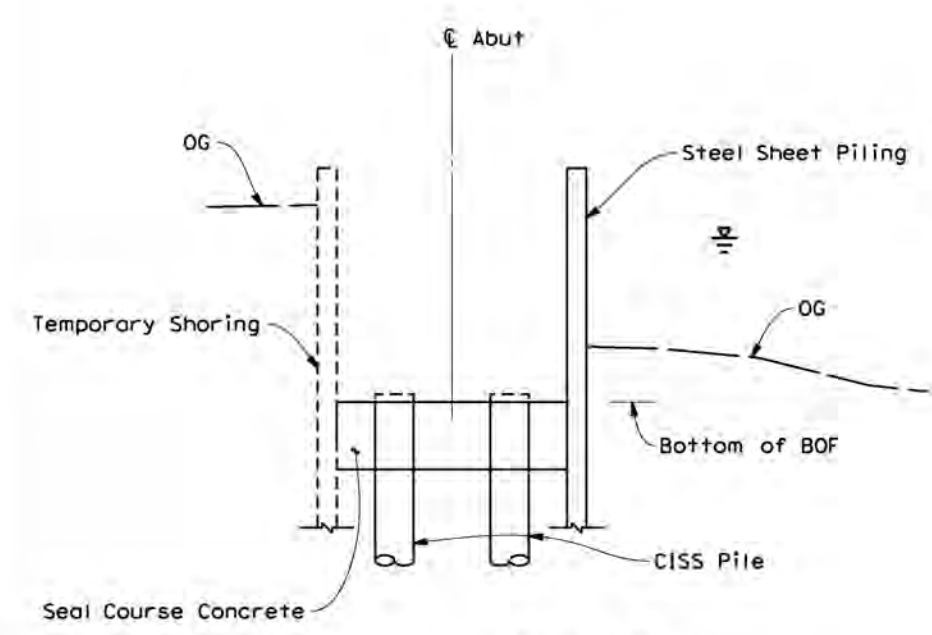
**Step 1**  
No Scale

- Step 1:
- 1) Install Temporary Shoring and Steel Sheet Piling
  - 2) Excavate to bottom of seal course



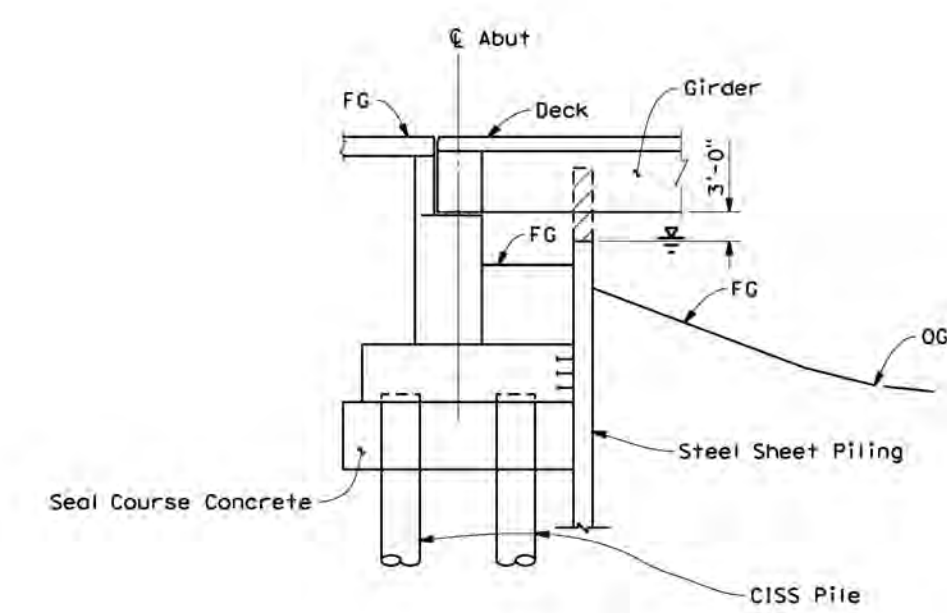
**Step 3**  
No Scale

- Step 3:
- 1) Install studs on sheet pile. Form and pour abutment footing. Pour abutment footing concrete neat along permanent sheet pile shoring.
  - 2) Construct abutment, stem, and backwall



**Step 2**  
No Scale

- Step 2:
- 1) Drive CISS Piles
  - 2) Install Seal Course Concrete



**Step 4**  
No Scale

- Step 4:
- 1) Remove Temporary Shoring
  - 2) Backfill in front of and behind Abutment
  - 3) Cut-off top of permanent sheet pile to maintain 3'-0" vertical clearance to soffit
  - 4) Place girders and construct superstructure

Legend:  

 Approx ordinary high-tide water surface elevation (WSE)

|   |                  |
|---|------------------|
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| X | SIGN OFF DATE    |

|            |                |                 |
|------------|----------------|-----------------|
| DESIGN     | BY L. Smith    | CHECKED J. Chou |
| DETAILS    | BY B. Maechler | CHECKED J. Chou |
| QUANTITIES | BY J. Cruz     | CHECKED H. Chou |

PREPARED FOR THE  
 COUNTY OF HUMBOLDT  
 DEPARTMENT OF PUBLIC WORKS  
 Scott McCauley  
 PROJECT ENGINEER

|                                 |                 |
|---------------------------------|-----------------|
| BRIDGE NO.                      | 04C0260         |
| POST MILE                       | 0.19            |
| UNIT: PROJECT NUMBER & PHASE: X | CONTRACT NO.: X |

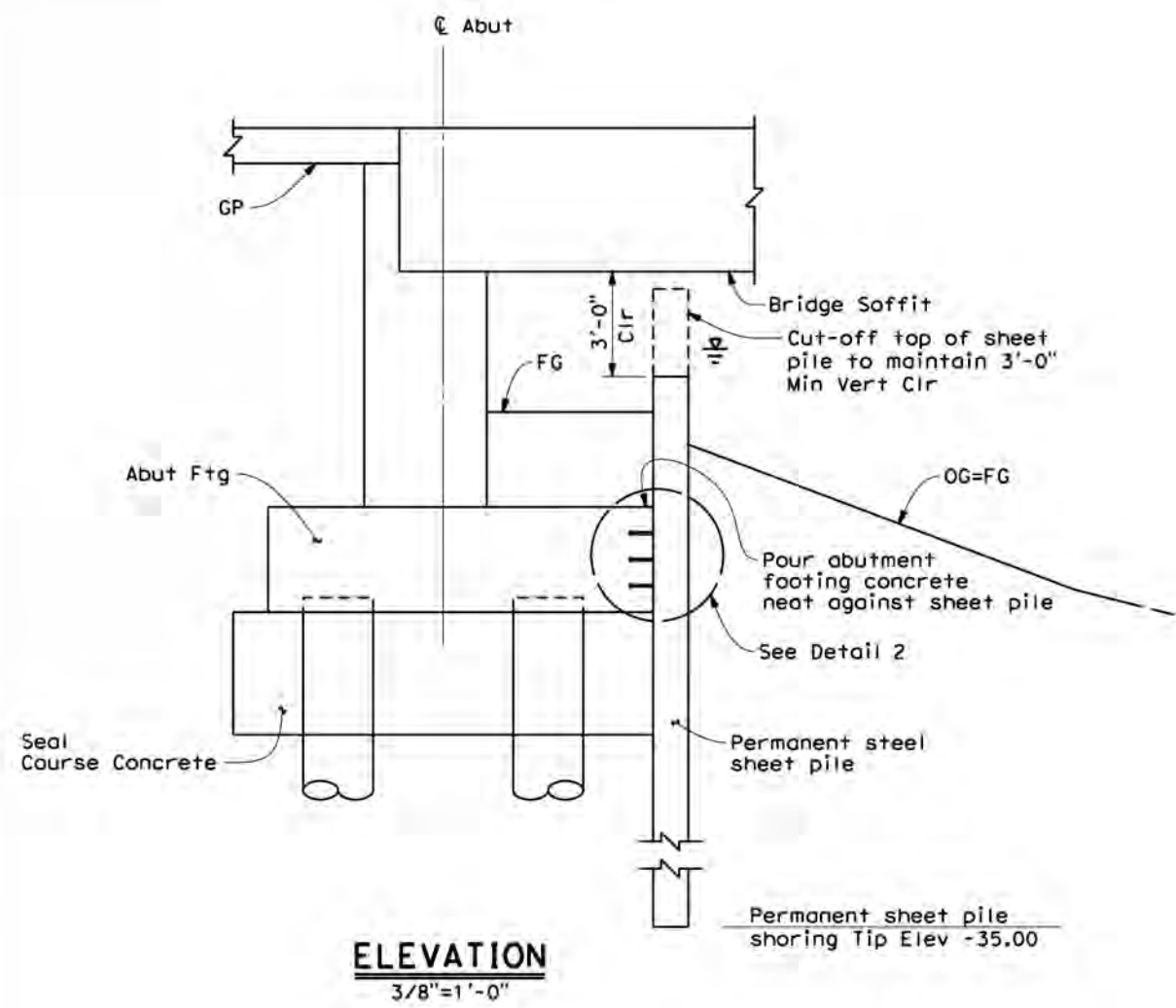
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| <b>SWAIN SLOUGH BRIDGE</b>   |                |
| <b>CONSTRUCTION SEQUENCE</b> |                |
| REVISION DATES               | SHEET 11 OF 15 |

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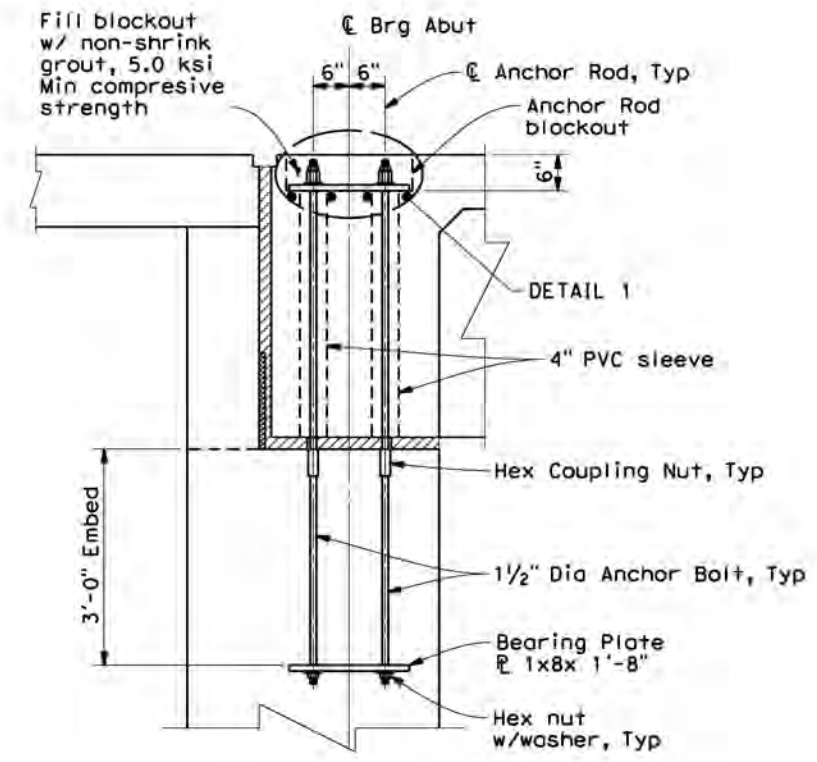
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|------|--------|-------|--------------------------|----------|--------------|
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Scott McCauley 12-3-19  
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 REGISTERED PROFESSIONAL ENGINEER  
 SCOTT A. MCCAULEY  
 No. 71495  
 Exp. 12-31-19  
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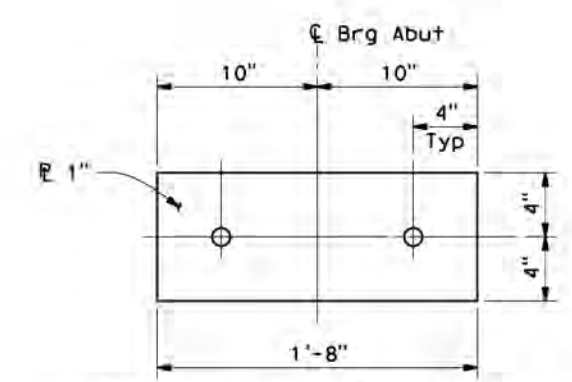
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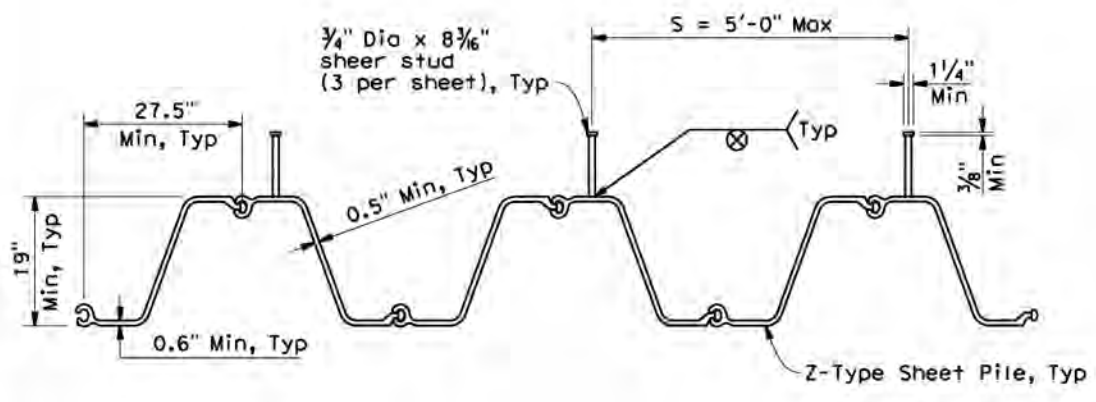
**ELEVATION**  
3/8"=1'-0"



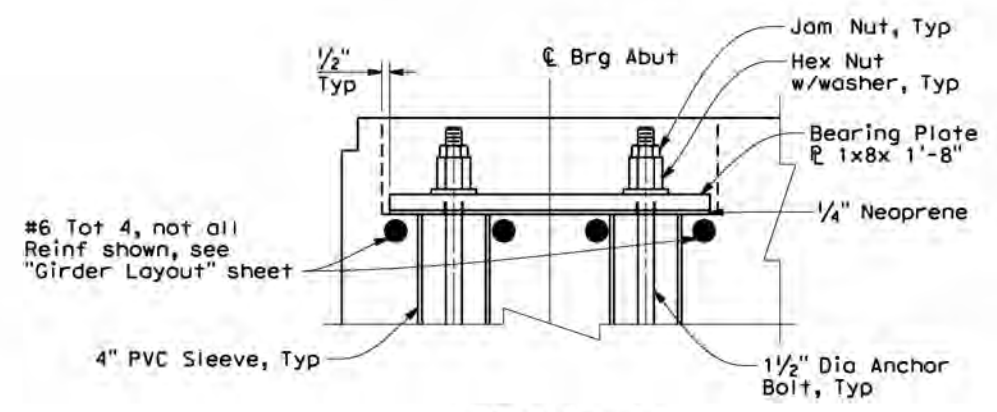
**ANCHOR TIE-DOWN DETAIL**  
3/4"=1'-0"



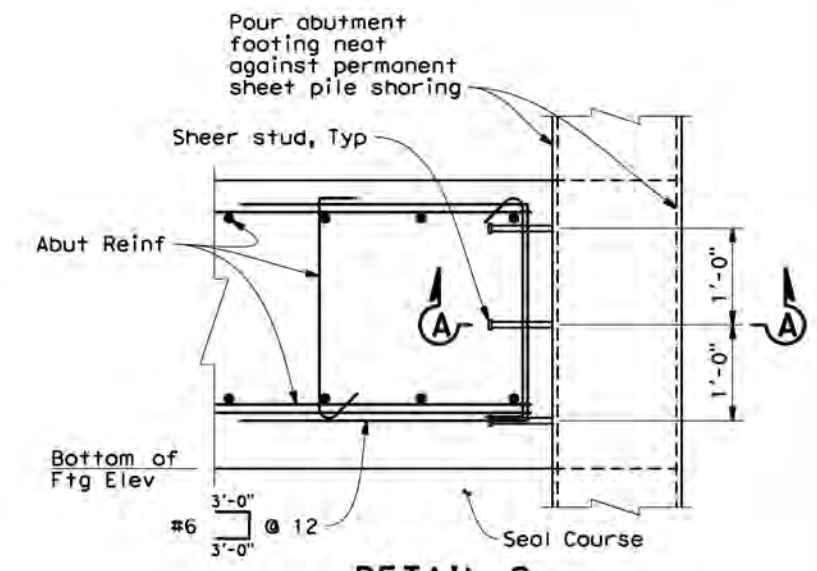
**BEARING PLATE DETAIL**  
3/4"=1'-0"



**SECTION A-A**  
3/8"=1'-0"



**DETAIL 1**  
3/4"=1'-0"



**DETAIL 2**  
3/4"=1'-0"

Legend:  
 Approx ordinary high-tide water surface elevation (WSE)

|   |                  |
|---|------------------|
| X | DESIGN OVERSIGHT |
| X | SIGN OFF DATE    |

|            |                |                 |
|------------|----------------|-----------------|
| DESIGN     | BY L. Smith    | CHECKED J. Chou |
| DETAILS    | BY B. Maechler | CHECKED J. Chou |
| QUANTITIES | BY J. Cruz     | CHECKED H. Chou |

PREPARED FOR THE  
 COUNTY OF HUMBOLDT  
 DEPARTMENT OF PUBLIC WORKS

|                  |                |
|------------------|----------------|
| BRIDGE NO.       | 04C0260        |
| PROJECT ENGINEER | Scott McCauley |
| POST MILE        | 0.19           |

**SWAIN SLOUGH BRIDGE**  
**MISCELLANEOUS DETAILS**

DESIGN DETAIL (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: PROJECT NUMBER & PHASE: X CONTRACT NO.: X

|                |       |    |
|----------------|-------|----|
| REVISION DATES | SHEET | OF |
| 5/2/15         | 12    | 15 |

USERNAME => SCOTT DATE PLOTTED => 12/3/2019 TIME PLOTTED => 9:40:29 AM

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 01   | HUM    | CR    |                          | 26       | 28           |

CERTIFIED ENGINEERING GEOLOGIST DATE \_\_\_\_\_

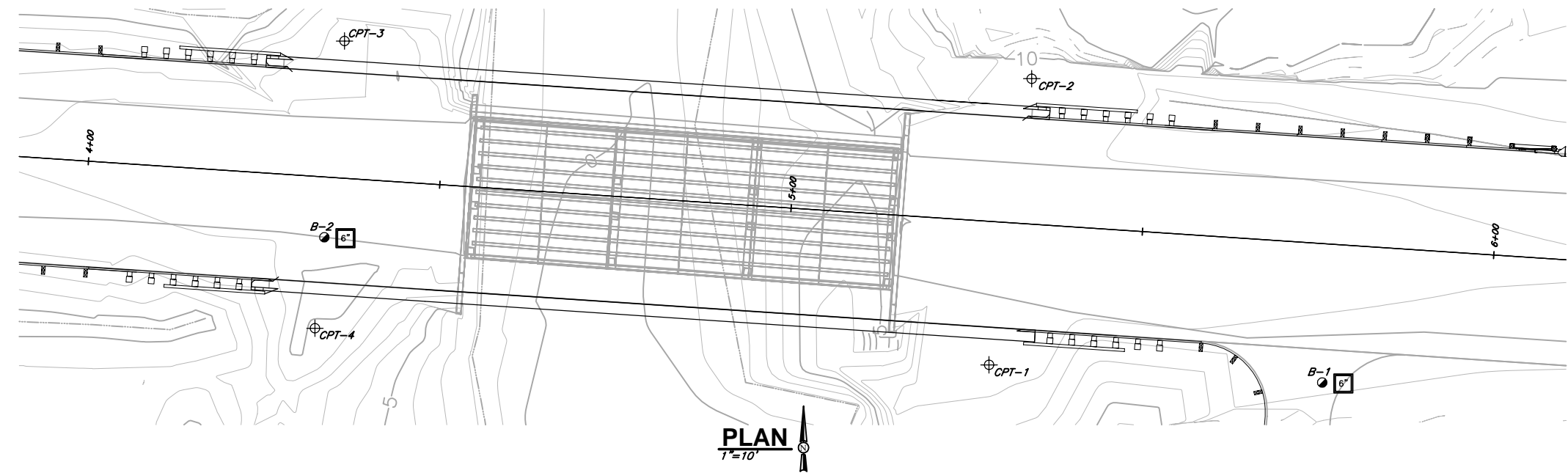
PROFESSIONAL GEOLOGIST  
 Gary Simpson  
 No. 2107  
 CERTIFIED ENGINEERING GEOLOGIST  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE \_\_\_\_\_

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

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.  
 812 W WABASH  
 EUREKA, CA 95501  
 FILE No. 012163

QUINCY ENGINEERING, INC.  
 3247 RAMOS CIRCLE  
 SACRAMENTO, CA 95827-2501



**NOTES:**

1. THIS LOTB SHEET WAS PREPARED IN ACCORDANCE WITH THE "CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL" (2010).
2. FIELD CLASSIFICATION OF SOILS WAS IN ACCORDANCE WITH ASTM D2488-06 "DESCRIPTION AND IDENTIFICATION OF SOILS (VISUAL-MANUAL PROCEDURE)".
3. STANDARD PENETRATION TESTS WERE COMPLETED IN ACCORDANCE WITH ASTM D 1586-11 USING A HAMMER WITH AN AUTOMATED DROP SYSTEM. DRILL RODS WERE 1 5/8-INCH DIAMETER "A" RODS; 1.4-INCH INSIDE DIAMETER SPLIT SPOON SAMPLER WAS DRIVEN WITHOUT BRASS LINERS.
4. 2.5-INCH INSIDE DIAMETER MODIFIED CALIFORNIA SAMPLER WAS DRIVEN IN THE SAME MANNER AS SPT, BUT WITH BRASS LINERS.
5. 3.0-INCH SHELBY TUBE WAS PUSHED INTO SOFT SOILS.
6. THE LENGTH OF EACH SAMPLES INTERVAL IS SHOWN GRAPHICALLY ON THE BORING LOG. WHOLE NUMBER BLOW COUNTS ("N") REPRESENT THE "STANDARD PENETRATION RESISTANCE" INTERVAL IN ACCORDANCE WITH ASTM D1586-11. WHERE LESS THAN 1 FOOT OF PENETRATION IS ACHIEVED, THE BLOW COUNT SHOWN IS FOR THAT FRACTION OF THE INTERVAL ACTUALLY PENETRATED AND THE AMOUNT OF PENETRATION IS SHOWN IN INCHES.
7. SPT HAMMER ENERGY MEASUREMENTS WERE NOT TAKEN DURING FIELD EXPLORATION.
8. GROUNDWATER SURFACE (GWS) ELEVATIONS IN THE BORINGS INDICATED ON THE LOG OF TEST BORINGS SHEETS REFLECT THE FLUID LEVEL IN THE BORING ON THE SPECIFIED DATE.
9. SEISMIC CONE PENETRATION TESTING LOGS SHOW SHEAR WAVE VELOCITY IN FEET PER SECOND.
10. ELECTRONIC MEDIA FOR PLAN VIEW PROVIDED BY QUINCY ENGINEERING.
11. BORING AND CPT ELEVATIONS ESTIMATED FROM TOPOGRAPHY PROVIDED BY QUINCY ENGINEERING.

|  |  |   |   |                        |                     |                   |
|--|--|---|---|------------------------|---------------------|-------------------|
| DESIGN OVERSIGHT                                 | DRAWN BY<br>C. NEWELL                      | John Dailey, G.E.                             | PREPARED FOR THE<br>STATE OF CALIFORNIA<br>DEPARTMENT OF TRANSPORTATION | BRIDGE NO.<br>04C-0173 | PINE HILL BRIDGE    |                   |
| SIGN OFF DATE                                    | CHECKED BY<br>G.D. SIMPSON                 | FIELD INVESTIGATION BY:<br>DATE: October 2012 | Jason P. Jurens<br>PROJECT ENGINEER                                     | POST MILES             | LOG OF TEST BORINGS |                   |
| GS GEOLOGIST LOG SHEET (ENGLISH) (REV. 03/14/12) | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS |   | UNIT:<br>PROJECT NUMBER & PHASE: X                                      | CONTRACT NO.: X        | REVISION DATES      | SHEET OF<br>13 15 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 01   | HUM    | CR    |                          | 27       | 28           |

CERTIFIED ENGINEERING GEOLOGIST DATE \_\_\_\_\_

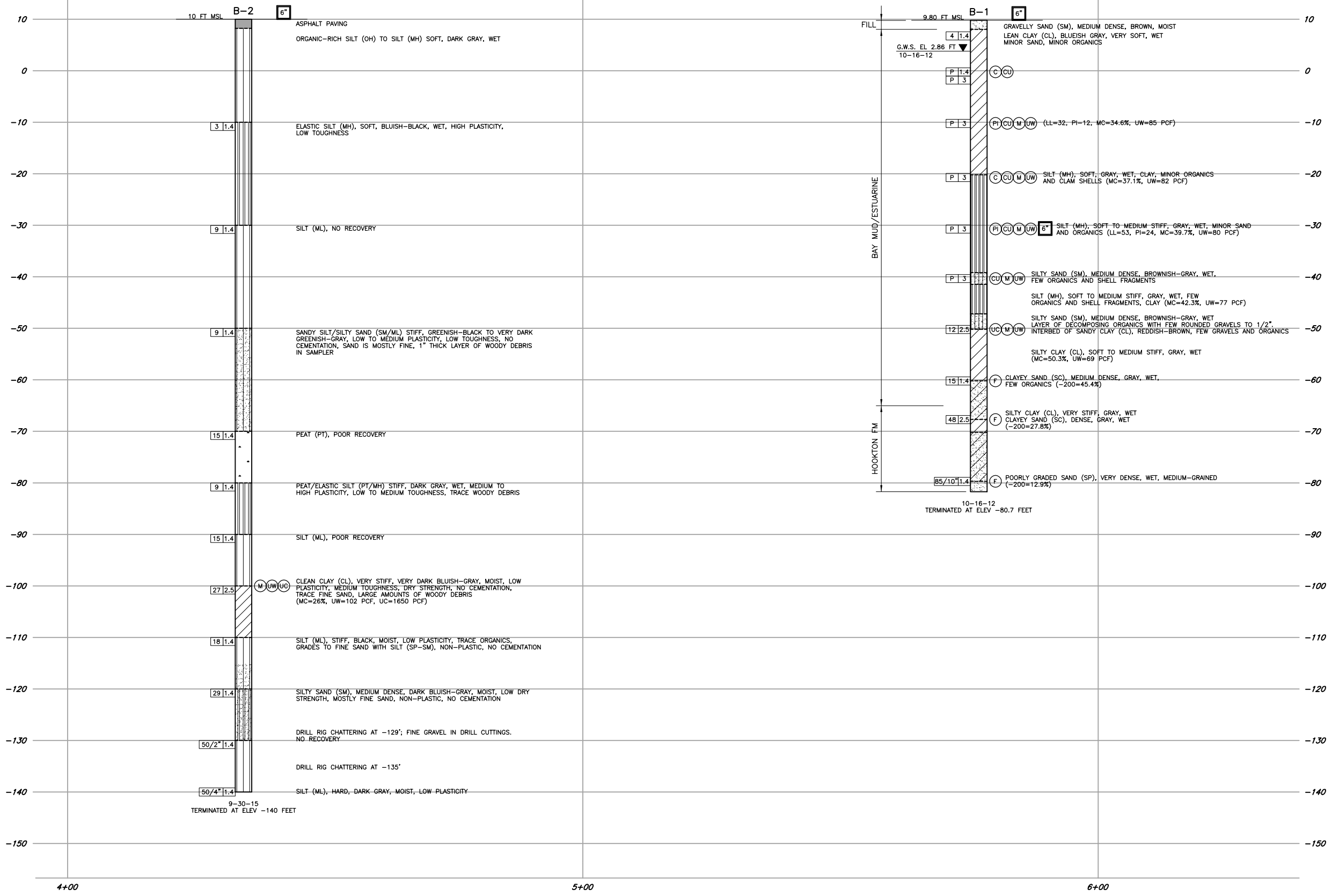
PROFESSIONAL GEOLOGIST  
 Gary Simpson  
 No. 2107  
 CERTIFIED ENGINEERING GEOLOGIST  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE \_\_\_\_\_

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SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.  
 812 W WABASH  
 EUREKA, CA 95501 FILE No. 012163

QUINCY ENGINEERING, INC.  
 3247 RAMOS CIRCLE  
 SACRAMENTO, CA 95827-2501



**PROFILE**  
 NTS

|  |  |   |   |                        |   |                     |
|--|--|---|---|------------------------|---|---------------------|
| DESIGN OVERSIGHT   | DRAWN BY<br>C. NEWELL                      | John Dailey, G.E.                             | PREPARED FOR THE<br>STATE OF CALIFORNIA<br>DEPARTMENT OF TRANSPORTATION | BRIDGE NO.<br>04C-0173 | PINE HILL BRIDGE                                |                     |
| SIGN OFF DATE  | CHECKED BY<br>G.D. SIMPSON                 | FIELD INVESTIGATION BY:<br>DATE: October 2012 | Jason P. Jurens<br>PROJECT ENGINEER                                     | POST MILES             | LOG OF TEST BORINGS                             |                     |
| GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REV. 03/14/12) | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS |   | UNIT:<br>PROJECT NUMBER & PHASE: X                                      | CONTRACT NO.: X        | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES<br>X |
|  |  |   |   |                        | SHEET<br>14                                     | OF<br>15            |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 01   | HUM    | CR    |                          | 28       | 28           |

CERTIFIED ENGINEERING GEOLOGIST DATE \_\_\_\_\_

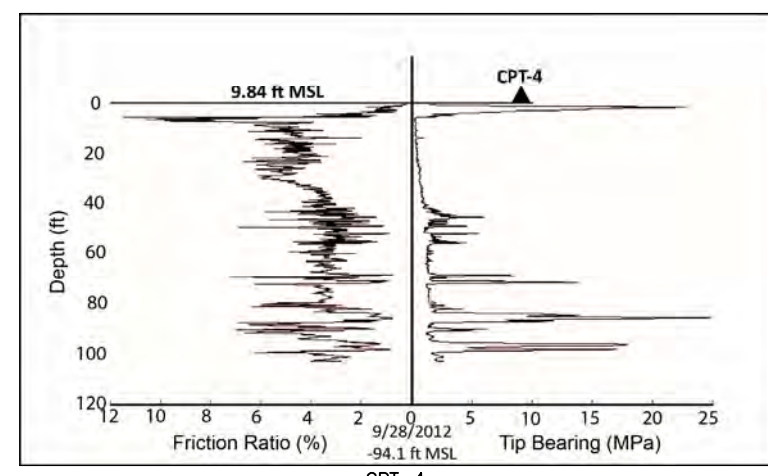
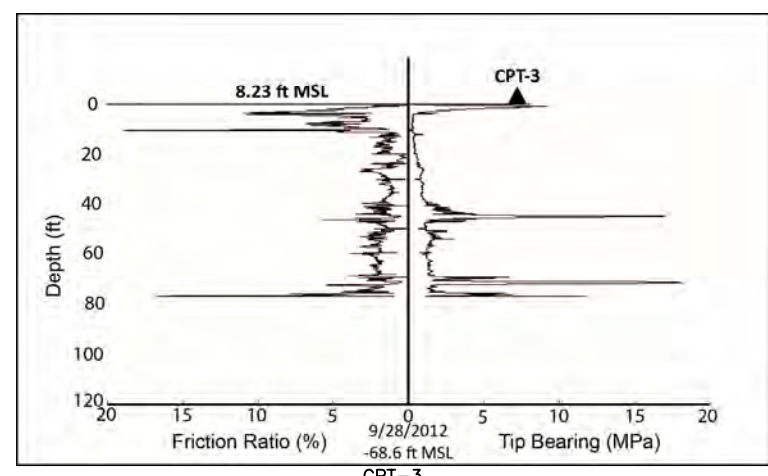
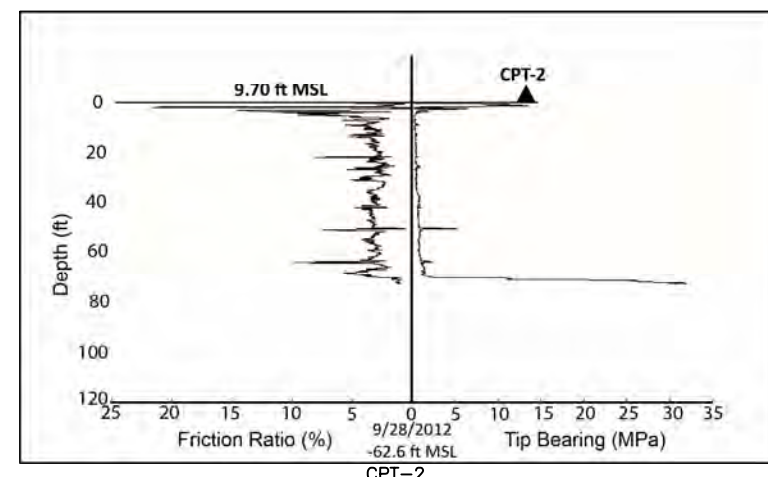
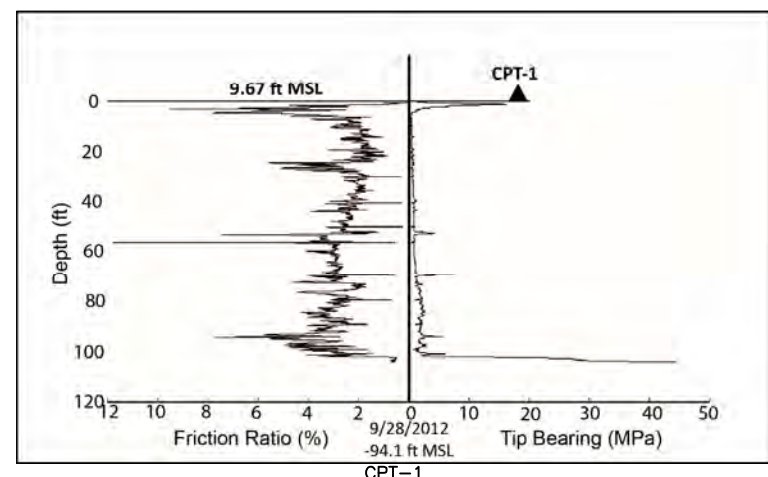
PROFESSIONAL GEOLOGIST  
 Gary Simpson  
 No. 2107  
 CERTIFIED ENGINEERING GEOLOGIST  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE \_\_\_\_\_

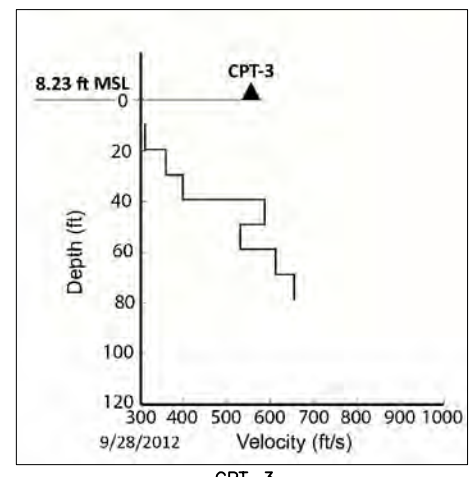
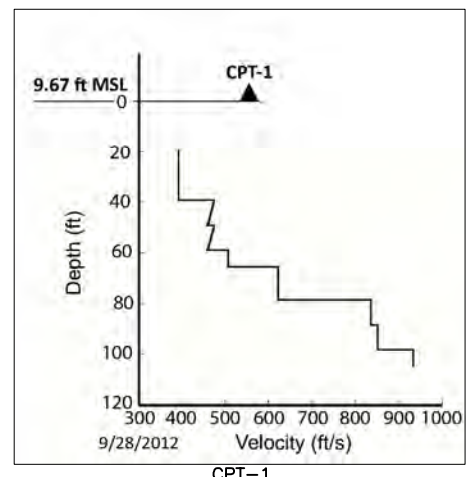
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SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.  
 812 W WABASH  
 EUREKA, CA 95501 FILE No. 012163

QUINCY ENGINEERING, INC.  
 3247 RAMOS CIRCLE  
 SACRAMENTO, CA 95827-2501



**CONE PENETRATION TEST (CPT) BORINGS**



**SEISMIC CONE PENETRATION BORINGS**

|  |  |                    |   |                                    |                     |   |
|--|--|--------------------|---|------------------------------------|---------------------|---|
| DESIGN OVERSIGHT   | DRAWN BY<br>C. NEWELL                      | John Dailey, G.E.  | PREPARED FOR THE<br>STATE OF CALIFORNIA<br>DEPARTMENT OF TRANSPORTATION | BRIDGE NO.<br>04C-0173             | PINE HILL BRIDGE    |   |
| SIGN OFF DATE  | CHECKED BY<br>G.D. SIMPSON                 | DATE: October 2012 | PROJECT ENGINEER<br>Jason P. Jurens                                     | POST MILES                         | LOG OF TEST BORINGS |   |
| GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REV. 03/14/12) | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS |                    |   | UNIT:<br>PROJECT NUMBER & PHASE: X | CONTRACT NO.: X     | DISREGARD PRINTS BEARING EARLIER REVISION DATES |
|  |  |                    |   | REVISION DATES                     | SHEET               | OF  |
|  |  |                    |   | X                                  | 15                  | 15  |

GENERAL NOTES:

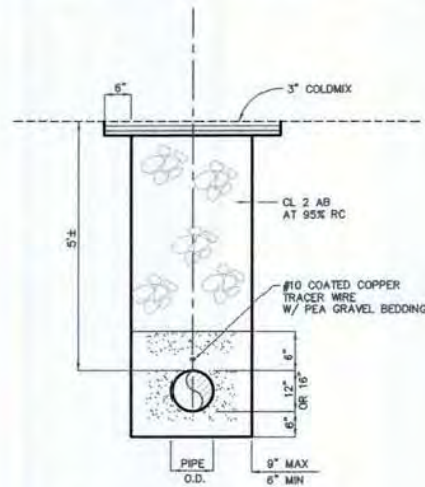
- THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, SECTION, JOINT OR FITTING REQUIRED TO COMPLETE THE PROJECT. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION. EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF EXCAVATION FOR ENTRY/EXIT PITS SHALL BE VERIFIED AS TO CONDITION, SIZE, AND LOCATION BY UNCOVERING, PROVIDED SUCH IS PERMITTED BY LOCAL PUBLIC AUTHORITIES WITH JURISDICTION, BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES, BEFORE PROCEEDING.
- THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS NOT PROVIDED BY OWNER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE TO THE OWNER A COPY OF THE TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE EXCAVATION OF ANY TRENCH OVER 5 FEET IN DEPTH.
- CONTRACTOR SHALL PERFORM TRENCH WORK IN CONFORMANCE WITH THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY REQUIREMENTS AND SHALL CONFORM TO ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH STANDARDS, RULES, REGULATIONS, AND ORDERS ESTABLISHED BY THE STATE OF CALIFORNIA AND OTHER APPLICABLE AGENCIES.
- CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, GENERAL CONTRACTOR WILL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. ALL WORK AND EQUIPMENT SHALL COMPLY WITH THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY REQUIREMENTS. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY, AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY, AND DEFEND THE OWNER, THE ENGINEER AND HIS/HER CONSULTANTS.
- THE CONTRACTOR SHALL INDEPENDENTLY REVIEW GROUND, TOPOGRAPHY, AND TREE CONDITIONS THROUGHOUT THE SITE, AND ASSUME THE RISK OF COMPLETING THE WORK SET OUT ON THESE PLANS, REGARDLESS OF ROCK, WATER TABLE, OR OTHER CONDITIONS THAT MAY BE ENCOUNTERED IN THE COURSE OF THE WORK.
- ANY DISCREPANCY DISCOVERED BY THE CONTRACTOR IN THESE PLANS, OR ANY FIELD CONDITIONS DISCOVERED BY THE CONTRACTOR THAT MAY DELAY OR OBSTRUCT THE PROPER COMPLETION OF THE WORK SHOWN HEREIN, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE ENGINEER IMMEDIATELY UPON DISCOVERY. SAID NOTIFICATION SHALL BE IN WRITING.
- ALL UNDERGROUND IMPROVEMENTS SHALL BE INSTALLED TESTED AND APPROVED PRIOR TO PAVING. THE CONTRACTOR SHALL NOT BEGIN EXCAVATING UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD. THE CONTRACTOR SHALL NOTIFY EACH APPLICABLE ENTITY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) TWO WORKING DAYS BEFORE DIGGING AT (800) 227-2600 FOR LOCATES.
- GRADING AND CONSTRUCTION CONTRACTORS SHALL STOP WORK AND NOTIFY THE OWNER AND THE ENGINEER IF CULTURAL RESOURCES ARE DISCOVERED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL GIVE THE INSPECTOR 48 HOURS ADVANCE NOTICE OF ANY CONSTRUCTION OR REQUIRED TESTING.
- SHOULD THE CONTRACTOR OR ANY OF HIS AGENTS OR EMPLOYEES ENCOUNTER OR DISCOVER MATERIALS THAT APPEAR TO BE HAZARDOUS DURING THE PERFORMANCE OF THE WORK, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY AND SUSPEND WORK IN THE AFFECTED AREA UNTIL THE ENGINEER HAS INSPECTED THE LOCATION AND MATERIALS IN QUESTION. SHOULD IT BE NECESSARY TO UNDERTAKE REMEDIATION, THE ENGINEER WILL GIVE WRITTEN NOTICE TO SUSPEND WORK IN THE AFFECTED AREA UNTIL THE PROPER COURSE OF ACTION HAS BEEN DETERMINED. OPERATIONS IN THE AFFECTED AREA SHALL BE RESUMED ONLY UPON WRITTEN NOTICE BY THE ENGINEER.
- ALL SITE GRADING WILL BE INSPECTED BY THE ENGINEER. COMPACTION TESTING WILL BE CONDUCTED IN EACH LIFT AFTER SUFFICIENT DENSITIES HAVE BEEN ACHIEVED IN THE CONTRACTOR'S OPINION. ANY SOILS THAT FAIL TO MEET THE REQUIRED COMPACTION LEVELS SHALL BE REMOVED AND RECOMPACTED. ALL COSTS ASSOCIATED WITH ACHIEVING COMPACTION STANDARDS SHALL BE INCLUDED IN THE CONTRACTOR'S ORIGINAL BID.
- ALL BACKFILL MATERIAL WITHIN THE ROAD RIGHT OF WAY SHALL BE CL 2 AGGREGATE BASE, 3/4 INCH MAX. PER CALTRANS SPECIFICATION SECTION 26, 95% RELATIVE COMPACTION. NO CHANGES OR MODIFICATIONS SHALL BE MADE TO THESE PLANS WITHOUT WRITTEN APPROVAL BY THE ENGINEER.
- CONSTRUCTION TO COMPLY WITH TECHNICAL REPORTS COMPLETED FOR THE PROJECT.

PROJECT SPECIFIC NOTES

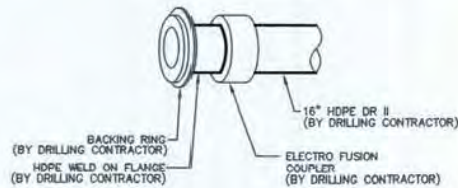
- THE CONTRACTORS ARE ENCOURAGED TO FAMILIARIZE THEMSELVES WITH THE PERMITS AND AGREEMENTS BY OVERSIGHT AGENCIES, THE SPECIAL CONDITIONS OF APPROVAL AND REQUIREMENTS FOR EXECUTION OF THE WORK AS DESCRIBED IN THESE DOCUMENTS:  
A. HUMBOLDT COUNTY ENCROACHMENT PERMIT  
B. HDD FRAC-OUT CONTINGENCY PLAN
- THESE NOTES DO NOT ATTEMPT TO REITERATE ALL REQUIREMENTS OF THE DOCUMENTS MENTIONED ABOVE. THE CONTRACTOR SELECTED TO PERFORM THE WORK OF THIS HORIZONTAL DIRECTIONAL DRILL PROJECT SHALL BE RESPONSIBLE FOR CONFORMING TO THE REQUIREMENTS AND SPECIAL CONDITIONS OF THE DOCUMENTS MENTIONED ABOVE, AND FOR PERFORMING THE WORK AS SHOWN ON THE PLANS, AS SPECIFIED IN THE CONTRACT DOCUMENTS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. IN THE CASE OF A CONFLICT OR CONTRADICTION, ADVISE THE ENGINEER AND OWNER BEFORE PROCEEDING.
- THE CONTRACTOR SELECTED TO PERFORM THE HDD PROJECT SHALL HAVE A CALIFORNIA CSLB C-34 PIPELINE OR A-GENERAL ENGINEERING CLASSIFICATION, AND SHALL PROVIDE A COPY OF THE LICENSE TO THE OWNER BEFORE COMMENCEMENT OF DRILLING ACTIVITIES.
- THE CONTRACTOR SHALL HAVE COPIES OF AGREEMENTS AND PERMITS FROM ALL OVERSIGHT AGENCIES ONSITE THROUGHOUT CONSTRUCTION AND SHALL MAKE SAID DOCUMENTS AVAILABLE TO AGENCY PERSONNEL UPON REQUEST.
- TEMPORARY FENCING SHALL BE PLACED AROUND THE CONSTRUCTION AREA PERIMETER AS NEEDED.
- EXCAVATED SOIL SHALL NOT BE PLACED OR STORED WHERE IT MAY BE SUBJECT TO ENTERING DRAINAGE FACILITIES. ALL ONSITE STOCKPILES OF SOIL AND CONSTRUCTION MATERIALS SHALL BE CONTAINED AT ALL TIMES TO MINIMIZE THE DISCHARGE OF SEDIMENT OR OTHER POLLUTANTS.
- THE CONTRACTOR SHALL IMPLEMENT CONSTRUCTION BEST MANAGEMENT PRACTICES (BMP'S) AND AVOIDANCE AND MINIMIZATION MEASURES DURING CONSTRUCTION AS DESCRIBED IN THE HUMBOLDT COUNTY ENCROACHMENT PERMIT. BMP'S SHALL BE IMMEDIATELY AVAILABLE FOR DEPLOYMENT AT ALL TIMES TO PREVENT DISCHARGES TO WATERS OF THE STATE.
- DURING ALL DRILLING, REAMING, AND PULL-BACK OPERATIONS, A QUALIFIED OBSERVER (SOIL ENGINEER OR BIOLOGICAL MONITOR EXPERIENCED IN MONITORING FOR FRAC-OUTS) SHALL MONITOR THE BORE PATH.
- THE CONTRACTOR SHALL IMMEDIATELY STOP CONSTRUCTION OPERATIONS AND IMPLEMENT THE FRAC-OUT CONTINGENCY PLAN IN THE EVENT OF ANY DRILLING FLUID RELEASE. IMMEDIATELY NOTIFY THE OWNER AND ENGINEER OF THE RELEASE. DIRECTIONAL DRILLING OPERATIONS SHALL NOT RESUME UNTIL THE FRAC-OUT IS LOCATED, CONTAINED, CLEANED UP, AND APPROVED BY THE ENGINEER. THE HDD MEANS AND METHODS EMPLOYED BY THE CONTRACTOR SHALL BE COMPATIBLE WITH PERTINENT SECTIONS OF THE HORIZONTAL DIRECTIONAL DRILLING: FRAC-OUT CONTINGENCY.
- THE CONTRACTOR SHALL HAVE AVAILABLE ONSITE, AT ALL TIMES, MATERIALS NECESSARY FOR CLEANUP OF DRILLING FLUIDS RELEASE AND PETROCHEMICAL SPILLS, AS DESCRIBED IN THE CONTRACT DOCUMENTS.
- ALL EQUIPMENT USED DURING CONSTRUCTION SHALL BE FREE OF OIL AND FUEL LEAKS. STATIONARY EQUIPMENT SHALL USE DRIP PANS AND OTHER DEVICES TO PREVENT SOIL AND WATER CONTAMINATION BY OIL OR OTHER PETROCHEMICAL PRODUCTS. CONTRACTOR SHALL HAVE "SPILL-KITS" AVAILABLE FOR ALL EQUIPMENT.
- DRILLING CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL SPILLS.

PAVING

- ALL ASPHALT CONCRETE SHALL BE IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS SECTION 39.
- ASPHALT MATERIAL SHALL BE HMA TYPE A WITH 1/2 INCH AGGREGATE GRADATION. ASPHALT BINDER SHALL BE PG64-16.
- ASPHALT CONCRETE SHALL BE INSTALLED AND TESTED ACCORDING TO THE "STANDARD PROCESS" SPECIFIED IN SECTION 39. ACCEPTANCE CRITERIA PER CALTRANS TEST 309.
- WHERE NEW PAVING MEETS EXISTING PAVEMENT, EXISTING PAVEMENT SHALL BE SAWCUT.
- APPLY TACK COAT TO CONTACT SURFACES OF CURBS, GUTTERS, AND EXISTING PAVEMENT. PLACE ASPHALT CONCRETE WITHIN 24 HOURS OF APPLYING PRIMER OR TACK COAT. TACK COAT SHALL BE TYPE SS-1.
- MAXIMUM COMPACTED LIFT THICKNESS IS 3 INCHES.
- COMPACT PAVEMENT BY ROLLING TO A MINIMUM OF 95% OF MAXIMUM DENSITY. DO NOT DISPLACE OR EXTRUDE PAVEMENT FROM POSITION. HAND COMPACT IN AREAS INACCESSIBLE TO MECHANICAL ROLLING EQUIPMENT. PERFORM ROLLING WITH CONSECUTIVE PASSES TO ACHIEVE SMOOTH FINISH WITHOUT ROLLER MARKS.
- AGGREGATE BASE SHALL MEET THE REQUIREMENTS DESCRIBED IN THE GENERAL COMPACTION SECTION OF THESE SPECIFICATIONS. COMPACTED TO 95% RELATIVE COMPACTION PER ASTM D1557/D6938. UNLESS OTHERWISE SHOWN ON THESE PLANS, NEW ASPHALT CONCRETE SURFACES AND NEW FINISH GRADE SURFACES SHALL BE INSTALLED SO AS TO MAINTAIN EXISTING SURFACE DRAINAGE PATTERNS.

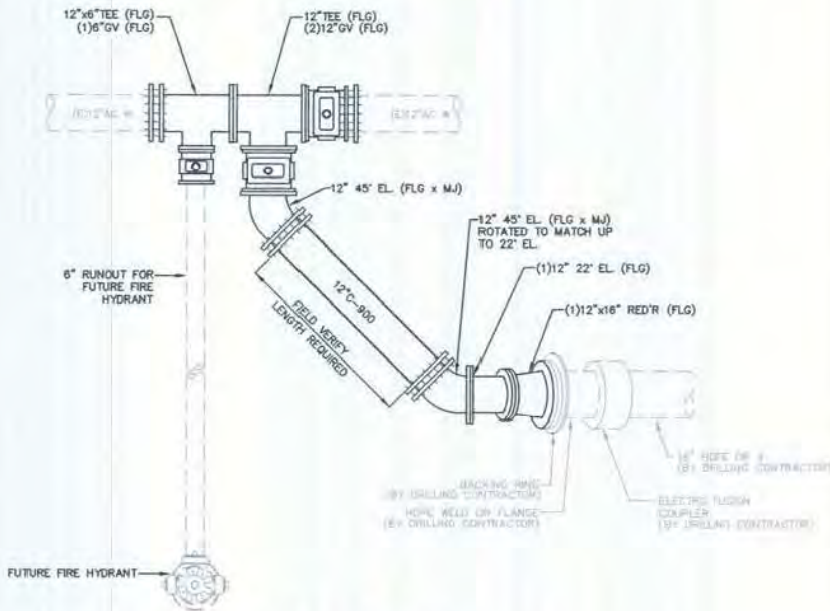


TYPICAL TRENCH SECTION  
NTS



- NOTES:
- DRILL CONTRACTOR TO LEAVE FINAL FLANGE DEPTH AT 4'±
  - FINAL TIE-IN TO BE DONE BY HCSD FORCES AT A LATER DATE.

END OF PIPELINE DETAIL  
TYPICAL BOTH ENDS  
(BY DRILL CONTRACTOR)  
NOT TO SCALE



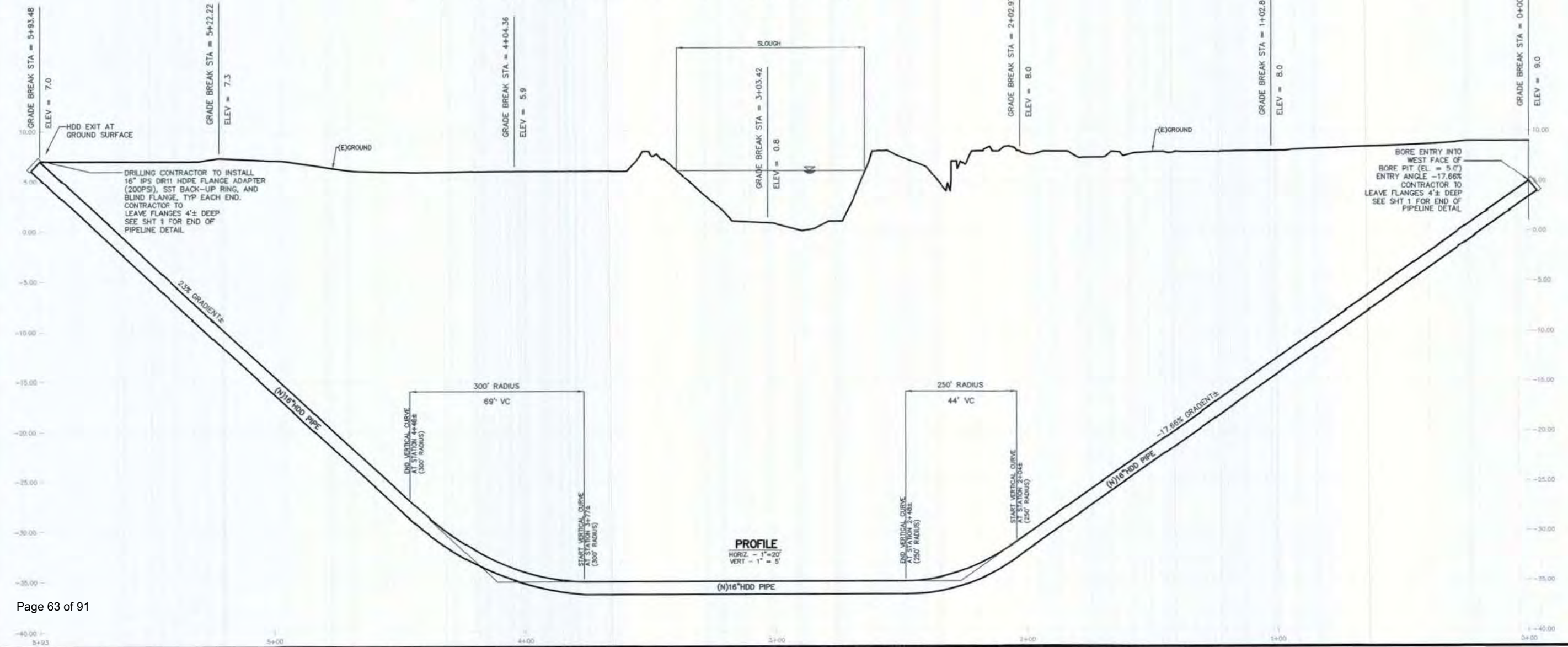
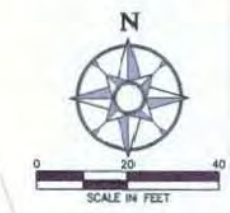
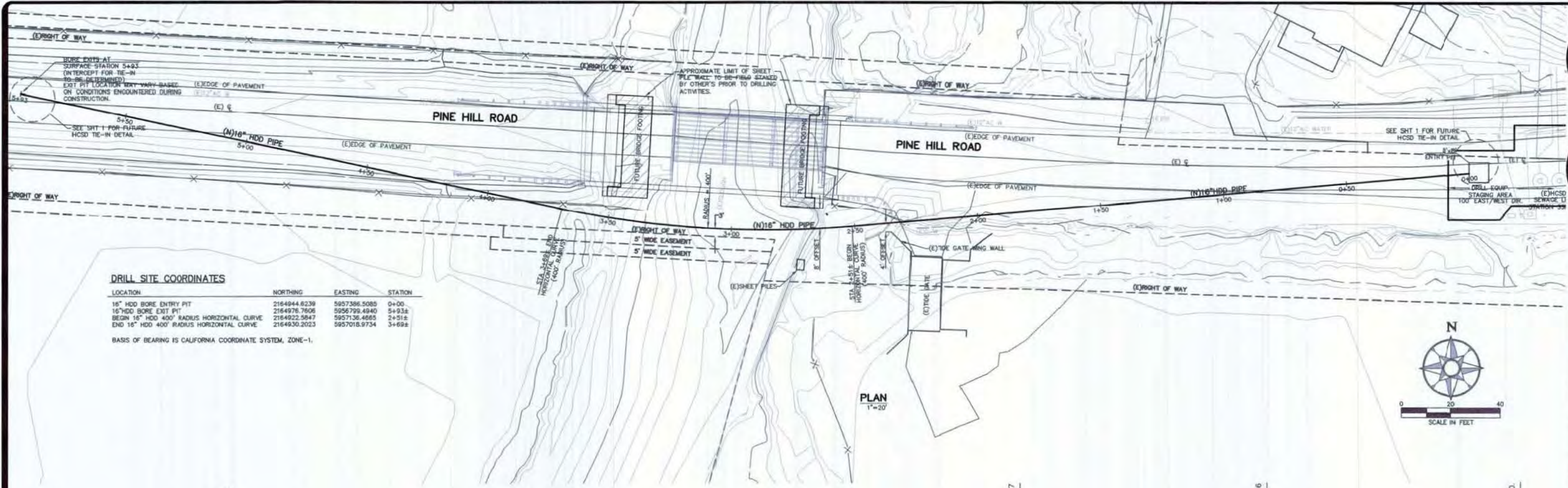
CONNECTION DETAIL  
TYPICAL BOTH SIDES  
(BY HCSD FORCES)  
NOT TO SCALE



Humboldt  
Community  
Services  
District  
3555 WALNUT DRIVE, EUREKA, CA 95503 (707) 443-5558 FAX: (707) 443-0818  
Water Distribution Sewage Collection Street Lighting

PINE HILL BRIDGE 16" HDPE  
WATER MAIN BYPASS  
HUMBOLDT COUNTY, CALIFORNIA  
NOTES AND DETAILS  
PINE HILL ROAD  
0+00 TO 5+93±

|                |               |
|----------------|---------------|
| DATE           | NOVEMBER 2019 |
| SCALE          | AS SHOWN      |
| DRAWN          | CHECKED       |
| BB             |               |
| JOB NO.        | 011707        |
| DRAWING NUMBER |               |



**Humboldt Community Services District**  
 2005 WALNUT DRIVE, CURTIS, CA 95555  
 (707) 445-4555 FAX: (707) 445-0818  
 Water Distribution Street Lighting Sewage Collection

**PINE HILL BRIDGE 16" HDPE WATER MAIN BYPASS**  
 HUMBOLDT COUNTY, CALIFORNIA

PLAN & PROFILE  
 PINE HILL ROAD  
 0+00 TO 5+93±

|                |               |
|----------------|---------------|
| DATE           | NOVEMBER 2019 |
| SCALE          | AS SHOWN      |
| DRAWN          | CHECKED       |
| BB             |               |
| JOB NO.        | 011707        |
| DRAWING NUMBER |               |

## HUMBOLDT BAY HARBOR, RECREATION, AND CONSERVATION DISTRICT

Monthly Cash Flow Analysis

For The Months Ended November 30, 2019, October 31, 2019 and September 30, 2019

|  | <u>11/30/19</u>       | <u>10/31/19</u>       | <u>9/30/19</u>        |
|--|-----------------------|-----------------------|-----------------------|
| <b><u>Account Balances</u></b>                     |                       |                       |                       |
| Checking   | \$ 16,080             | \$ 23,610             | \$ 70,100             |
| Savings  | 5,524                 | 6,523                 | 32,104                |
| Tariff   | 204                   | 112                   | 398                   |
| County Treasury                                    | 98,994                | 838,994               | 838,994               |
| Cash on hand                                       | 1,280                 | 355                   | 355                   |
| <b>Total Cash</b>                                  | <b><u>122,082</u></b> | <b><u>869,594</u></b> | <b><u>941,951</u></b> |
| Add: Accounts Receivable (less doubtful accounts)  | 419,814               | 351,401               | 303,092               |
| Less: Accounts Payable                             | (277,775)             | (878,637)             | (205,140)             |
| Available Cash and Receivables                     | <u>\$ 264,121</u>     | <u>\$ 342,358</u>     | <u>\$ 1,039,903</u>   |
| <b><u>Change in Cash Balance</u></b>               |                       |                       |                       |
| Balance, Beginning of Month                        | \$ 869,594            | \$ 941,951            | \$ 923,945            |
| Monthly Deposits                                   | 129,597               | 195,136               | 251,123               |
| Monthly Payments                                   | (877,109)             | (267,493)             | (233,117)             |
| Balance, End of Month                              | <u>\$ 122,082</u>     | <u>\$ 869,594</u>     | <u>\$ 941,951</u>     |
| <b><u>Monthly Payments Summary</u></b>             |                       |                       |                       |
| Significant/Unusual Expenses:                      |                       |                       |                       |
| Dredging payments                                  | \$ 633,000            |                       |                       |
| Third payroll in month                             |                       | \$ 19,828             |                       |
| Samoa outfall maintenance                          | 54,500                |                       |                       |
| Semi-annual property tax expense                   | 19,637                |                       |                       |
| Two monthly insurance payments in same month       |                       | 30,202                |                       |
| Sub-total, Unusual Expenses                        | <u>707,137</u>        | <u>50,030</u>         | <u>-</u>              |
| General operating expenses and other misc. expense | 169,972               | 217,463               | \$ 233,117            |
| Total Cash Payments                                | <u>\$ 877,109</u>     | <u>\$ 267,493</u>     | <u>\$ 233,117</u>     |
| <b><u>Monthly Deposits Summary</u></b>             |                       |                       |                       |
| Significant/Unusual Revenues:                      |                       |                       |                       |
| Property taxes and interest income                 |                       |                       | \$ 41,000             |
| Interest Payment on NMTC note receivable           |                       |                       | 40,187                |
| Sub-total, Unusual Revenues                        | <u>-</u>              | <u>-</u>              | <u>81,187</u>         |
| General revenues                                   | <u>\$ 129,597</u>     | <u>\$ 195,136</u>     | <u>\$ 169,936</u>     |
| Total Cash Receipts                                | <u>\$ 129,597</u>     | <u>\$ 195,136</u>     | <u>\$ 251,123</u>     |



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## Humboldt Bay Harbor, Recreation &amp; Conservation District

## Balance Sheet

As of November 30, 2019

01/15/20

Accrual Basis

Nov 30, 19

## ASSETS

## Current Assets

## Checking/Savings

|                                      |             |
|--------------------------------------|-------------|
| 10901 · RESTRICTED - COUNTY TREASURY | 302,090.88  |
| 10600.1 · Cash in bank, Tariff BBVA  | 204.22      |
| 10700.1 · Cash in bank, Water BBVA   | 5,523.76    |
| 10200.1 · Cash in BBVA, Checking     | 9,163.77    |
| 10000 · PETTY CASH ON HAND           | 150.00      |
| 10100 · CHANGE FUND ON HAND          | 400.00      |
| 10111 · COIN MACHINE FUND            | 730.00      |
| 10200 · CASH IN BANK, CHECKING       | 6,915.73    |
| 10400 · CASH IN COUNTY - FUND 2720   | 44,241.50   |
| 10500 · CASH IN COUNTY - FUND 3872   | 54,752.48   |
| 10902 · RESTRICTED CASH OFFSET       | -302,090.88 |

Total Checking/Savings 122,081.46

## Accounts Receivable

|                          |            |
|--------------------------|------------|
| 12000 · ACCTS RECEIVABLE | 723,676.69 |
|--------------------------|------------|

Total Accounts Receivable 723,676.69

## Other Current Assets

|                                 |              |
|---------------------------------|--------------|
| 12600 · Note Receivable - NMTC  | 5,849,375.00 |
| 12100 · ALLOW FOR BAD DEBTS     | -303,888.93  |
| 12200 · TAXES RECEIVABLE        | 427,000.00   |
| 12300 · INTEREST RECEIVABLE     | 30,878.32    |
| 12700 · PREPAID EXPENSES        | 79,101.45    |
| 12800 · LEASE RECEIVABLE        | 28,414.87    |
| 12900 · Accounts Receivable FSM | 25.85        |

Total Other Current Assets 6,110,906.56

Total Current Assets 6,956,664.71

## Fixed Assets

|                            |           |
|----------------------------|-----------|
| 14900 · DOG RANCH PROPERTY | 7,507.70  |
| 14800 · SHIPWRECK PROPERTY | 45,088.05 |

## CAPITAL ASSETS, NET

|  |                |
|--|----------------|
| 16900 · Dredge                           | 1,215,423.27   |
| 16800 · REDWOOD TERMINAL 2               | 2,613,169.43   |
| 16700 · AQUAPONICS PILOT FACILITY        | 96,036.61      |
| 16600 · TABLE BLUFF LIGHTHOUSE           | 361.44         |
| 16500 · HOMELAND SECURITY EQUIPMENT      | 2,254,007.60   |
| 16400 · REDWOOD DOCK PROPERTY            | 3,010,194.30   |
| 16100 · MARINA DREDGE, CONSTR IN PROGRES | 2,597,760.95   |
| 16000 · KING SALMON                      | 15,143.99      |
| 15900 · DREDGING COSTS                   | 215,226.78     |
| 15800 · SHELTER COVE                     | 2,386,247.10   |
| 15700 · FL BOAT BLDG & REPAIR FACILITY   | 4,302,259.53   |
| 15600 · MARINA                           | 10,529,004.29  |
| 15500 · MARINA, RESTAURANT COMPLEX       | 34,100.00      |
| 15200 · OPERATING EQUIPMENT              | 314,098.74     |
| 15100 · OFFICE EQUIPMENT                 | 193,303.88     |
| 15000 · AUTOMOTIVE EQUIPMENT             | 95,639.08      |
| 17000 · ACCUMULATED DEPRECIATION         | -18,630,092.17 |

Total CAPITAL ASSETS, NET 11,241,884.82

Total Fixed Assets 11,294,480.57

## Other Assets

|                                   |            |
|-----------------------------------|------------|
| 19000 · Deferred Outflows of PERS | 290,427.00 |
|-----------------------------------|------------|

Total Other Assets 290,427.00

**TOTAL ASSETS 18,541,572.28**

## LIABILITIES &amp; EQUITY

## Humboldt Bay Harbor, Recreation &amp; Conservation District

01/15/20

## Balance Sheet

Accrual Basis

As of November 30, 2019

Nov 30, 19

## Liabilities

## Current Liabilities

## Accounts Payable

20000 · ACCOUNTS PAYABLE

270,517.46

Total Accounts Payable

270,517.46

## Credit Cards

20112 · US Bank Visa

5,713.68

Total Credit Cards

5,713.68

## Other Current Liabilities

24002 · Groundlease Current Def Income

60,092.31

24000 · Ground Lease Deferred Income

3,906,000.00

## Payroll tax &amp; Withholding Liab

21900 · UNION DUES DEDUCTIBLE

3.00

21701 · PERS DEFERRED COMPENSATION

100.00

21700 · PERS RETIREMENT

4,014.46

21600 · PERS CARE/MEDICAL INSURANCE

24,156.68

21300 · STATE UNEMPLOYMENT TAX

95.11

2100 · PAYROLL LIABILITIES

13,699.22

Total Payroll tax &amp; Withholding Liab

42,068.47

20100 · LEASE PAYABLE TO HBDA

-15,161.00

20200 · NOTES PAYABLE

294,796.12

20400 · ACCRUED WAGES PAYABLE

15,456.92

20500 · ACCRUED INTEREST

102,572.73

20600 · ACCRUED VACATION PAYABLE

27,863.05

20800 · DEPOSITS ON HAND

20808 · WAIT LIST DEPOSIT

1,900.00

20801 · KEY DEPOSITS ON HAND

12,420.00

20802 · PLUG DEPOSITS ON HAND

920.00

20803 · SLIP DEPOSITS ON HAND

39,739.06

20804 · STORAGE DEPOSITS

3,471.65

20806 · LEASE SECURITY DEPOSIT

41,383.42

20807 · STORAGE DEPOSIT - REDWOOD DOCK

2,750.26

Total 20800 · DEPOSITS ON HAND

102,584.39

22000 · DEFERRED LEASE INCOME

85,721.70

28000 · DEFERRED INCOME

116,290.94

28500 · OTHER DEFERRED CREDITS

196,132.28

Total Other Current Liabilities

4,934,417.91

Total Current Liabilities

5,210,649.05

## Long Term Liabilities

24003 · Groundlease Current Offset

-60,092.31

24001 · Gound Lease Amortization

-224,083.85

27200 · Deferred Inflows of PERS

159,317.00

27000 · Net Pension Liability

921,868.00

25700 · BOND PAYABLE 2014 REFINANCING

2,502,518.78

25800 · BBVA Loan Payable

1,281,256.18

25600 · Note Payable-Coast Seafoods Co.

1,062,680.00

25500 · OPEB Liability

394,887.00

25200 · CONTRACTS PAYABLE

71,558.22

25900 · LESS CURRENT PORTION

-294,796.12

Total Long Term Liabilities

5,815,112.90

Total Liabilities

11,025,761.95

## Equity

3000 · OPENING BALANCE EQUITY

925.45

30500 · INVESTMENT IN FIXED ASSETS

9,134,021.36

# Humboldt Bay Harbor, Recreation & Conservation District

## Balance Sheet

As of November 30, 2019

---

|  | Nov 30, 19                  |
|--|-----------------------------|
| 30900 · RESTRICTED FUND BALANCE        | 995,896.86                  |
| 31200 · GENERAL FUND BALANCE           |                             |
| 31000 · FUND BALANCE - TIDELANDS TRUST | -1,872,303.20               |
| 31200 · GENERAL FUND BALANCE - Other   | -713,391.36                 |
| Total 31200 · GENERAL FUND BALANCE     | -2,585,694.56               |
| 3900 · RETAINED EARNINGS               | 30,000.00                   |
| Net Income                             | -66,596.38                  |
| Total Equity                           | 7,508,552.73                |
| <b>TOTAL LIABILITIES &amp; EQUITY</b>  | <b><u>18,534,314.68</u></b> |

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Humboldt Bay Harbor, Recreation & Conservation District

Profit & Loss

01/15/20

July through November 2019

Accrual Basis

|  | Jul - Nov 19 |
|--|--------------|
| <b>Ordinary Income/Expense</b>         |              |
| <b>Income</b>                          |              |
| <b>Dredging Revenue</b>                |              |
| 41318 · Dredging Surcharge - T         | 36,447.79    |
| <b>Total Dredging Revenue</b>          | 36,447.79    |
| <b>Float Replacement Account</b>       |              |
| 41418 · Float Replacement              | 23,746.23    |
| <b>Total Float Replacement Account</b> | 23,746.23    |
| <b>Harbor Surcharge</b>                |              |
| 40908 · Harbor Improvement Surcharge-T | 47,586.80    |
| <b>Total Harbor Surcharge</b>          | 47,586.80    |
| <b>Utility Surcharge</b>               |              |
| 40409 · Utility Surcharge - NT         | 26,111.50    |
| 40418 · Utility Surcharge, Marina Dock | 20,328.32    |
| <b>Total Utility Surcharge</b>         | 46,439.82    |
| <b>Tax Revenue</b>                     |              |
| 43809 · TIMBER YIELD TAX GUAR G/NT     | 5,000.00     |
| 43609 · HOMEOWNERS EXEMPT G/NT         | 5,835.00     |
| 43509 · Property Tax Revenues          | 456,165.00   |
| <b>Total Tax Revenue</b>               | 467,000.00   |
| <b>Other Revenue</b>                   |              |
| 45909 · Other Revenue - NT             | 5,165.20     |
| 45908 · Other Revenue - T              | 535,928.81   |
| <b>Total Other Revenue</b>             | 541,094.01   |
| <b>Interest Revenue</b>                |              |
| 43109 · Interest Income - NT           | 67,815.00    |
| 43108 · Interest Income - T            | 1,752.77     |
| 43318 · Interest On Del Accts - T      | 0.00         |
| <b>Total Interest Revenue</b>          | 69,567.77    |
| <b>Rent Income</b>                     |              |
| 41108 · Rents, Tidelands Leases - T    | 166,234.40   |
| 40318.1 · Transient Rentals - T        | 40,923.79    |
| 40519 · Equipment Rent - NT            | 727.50       |
| 40809 · Yard Rent - NT                 | 18,532.55    |
| 41309 · Storage - NT                   | 26,097.12    |
| 41409 · Upland Rent - NT               |              |
| 41409.2 · Redwood Terminal 2 - NMTC    | 25,038.45    |
| 41409 · Upland Rent - NT - Other       | 256,165.36   |
| <b>Total 41409 · Upland Rent - NT</b>  | 281,203.81   |
| 40218 · Slip Rents - T                 | 167,265.59   |
| <b>Total Rent Income</b>               | 700,984.76   |
| <b>Fees</b>                            |              |
| 40108 · PERMITS-T                      | 1,100.00     |
| 41818 · Late Charges/Interest - T      | 4,123.94     |
| 45608 · Chevron - Ports O&M - T        | 8,087.50     |
| 41819 · Late Charges/Interest - NT     | 7,762.98     |
| 40509 · Travel Lift Fees - T           | 1,909.00     |
| 40609 · Haul Out Fees - T              | 24,653.90    |
| 41308.1 · Poundage - T                 | 5,025.39     |
| <b>Total Fees</b>                      | 52,662.71    |

## Humboldt Bay Harbor, Recreation &amp; Conservation District

## Profit &amp; Loss

01/15/20

July through November 2019

Accrual Basis

|   | Jul - Nov 19 |
|---|--------------|
| <b>Sales</b>                                    |              |
| 40109 · Sales, Retail - NT                      | 250.00       |
| 40119 · Concession Sales - NT                   | 21,801.65    |
| <b>Total Sales</b>                              | 22,051.65    |
| <b>Donations</b>                                |              |
| 46519 · Donations - Lighthouse                  | 2.40         |
| <b>Total Donations</b>                          | 2.40         |
| <b>Total Income</b>                             | 2,007,583.94 |
| <b>Gross Profit</b>                             | 2,007,583.94 |
| <b>Expense</b>                                  |              |
| 66900 · Reconciliation Discrepancies            | 200.00       |
| 57018 · Bank Service Charges                    | 1.35         |
| <b>Personnel Expenses</b>                       |              |
| <b>Salaries/Wages</b>                           |              |
| 50100 · Salaries & Wages - NT                   | 332,943.00   |
| 50108 · Salaries & Wages - T                    | 508.13       |
| Salaries/Wages - Other                          | 0.00         |
| <b>Total Salaries/Wages</b>                     | 333,451.13   |
| <b>Payroll Burden</b>                           |              |
| 6560 · Workers' Comp                            | 14,319.68    |
| 50500 · Payroll Benefits, Other - NT            | 179,630.37   |
| 50508 · Payroll Benefits, Other - T             | 52,290.00    |
| 50510 · PAYROLL BENEFITS M/A                    | 7,298.65     |
| <b>Total Payroll Burden</b>                     | 253,538.70   |
| <b>Commissioners Fees</b>                       |              |
| 50200 · Commissioner's Salaries - NT            | 7,350.00     |
| 50210 · COMMISSIONERS SALARIES M/A              | 3,150.00     |
| <b>Total Commissioners Fees</b>                 | 10,500.00    |
| <b>Total Personnel Expenses</b>                 | 597,489.83   |
| <b>Advertising &amp; Promotion</b>              |              |
| 51000 · Advertising & Promotion - NT            | 208.00       |
| 51018 · ADVERTISING & PROMOTION M/T             | 526.40       |
| <b>Total Advertising &amp; Promotion</b>        | 734.40       |
| <b>Communications</b>                           |              |
| 51400 · Communications - NT                     | 8,226.56     |
| 51408 · Communications - T                      | 1,533.09     |
| <b>Total Communications</b>                     | 9,759.65     |
| <b>Conference &amp; Meetings</b>                |              |
| 51500 · Conferences & Meetings - NT             | 11,595.62    |
| 51508 · Conferences & Meetings - T              | 1,166.56     |
| <b>Total Conference &amp; Meetings</b>          | 12,762.18    |
| <b>Dues, Subscriptions &amp; Licences</b>       |              |
| 51600 · Dues & Subscriptions - NT               | 24,867.00    |
| <b>Total Dues, Subscriptions &amp; Licences</b> | 24,867.00    |
| <b>Elections &amp; Government Fees</b>          |              |
| 51700 · Elections & Prop Tax Assess-NT          | 53,003.04    |
| <b>Total Elections &amp; Government Fees</b>    | 53,003.04    |
| <b>Insurance</b>                                |              |

## Humboldt Bay Harbor, Recreation &amp; Conservation District

## Profit &amp; Loss

01/15/20

July through November 2019

Accrual Basis

|   | Jul - Nov 19      |
|---|-------------------|
| 51800 · Insurance - NT                    | 48,540.57         |
| 51808 · Insurance - T                     | 4,237.30          |
| <b>Total Insurance</b>                    | <b>52,777.87</b>  |
| <b>Office Supplies</b>                    |                   |
| 52100 · Outside Services - NT             | 16.13             |
| 51900 · Office Supplies - NT              | 10,571.13         |
| 51908 · Office Supplies - T               | 3,239.25          |
| 51918 · OFFICE EXPENSE M/T                | 176.75            |
| <b>Total Office Supplies</b>              | <b>14,003.26</b>  |
| <b>Maintenance Supplies</b>               |                   |
| 52010 · Maintenance Supplies - NT         | 11,618.60         |
| 52008 · Maintenance Supplies - T          | 108.81            |
| <b>Total Maintenance Supplies</b>         | <b>11,727.41</b>  |
| <b>Permits</b>                            |                   |
| 51618 · Permits - T                       | 23,079.00         |
| 51610 · Permits - NT                      | 250.00            |
| <b>Total Permits</b>                      | <b>23,329.00</b>  |
| <b>Utilities</b>                          |                   |
| 52909 · Utilities - NT                    | 138,663.42        |
| 52918 · Utilities - T                     | 13,451.57         |
| 53000 · Water, Sewer, & Refuse - NT       | 91,345.79         |
| 53008 · Water, Sewer, & Refuse - T        | 16,158.15         |
| <b>Total Utilities</b>                    | <b>259,618.93</b> |
| <b>Fuel</b>                               |                   |
| 50400 · IMPUTED AUTO VALUE G/A            | 431.20            |
| 51208 · Vessel Fuel                       | 2,221.97          |
| 51218 · Automotive, Fuel - T              | 5,124.80          |
| 51200 · Automotive, Fuel- NT              | 5,076.40          |
| <b>Total Fuel</b>                         | <b>12,854.37</b>  |
| <b>Accounting/Auditing Services</b>       |                   |
| 52500 · Accounting Fees - T               | 10,413.00         |
| 52508 · Accounting Fees - NT              | 3,471.00          |
| <b>Total Accounting/Auditing Services</b> | <b>13,884.00</b>  |
| <b>Legal Services</b>                     |                   |
| 52300 · Legal Fees - NT                   | 6,541.61          |
| 52308 · Legal Fees - T                    | 2,284.39          |
| <b>Total Legal Services</b>               | <b>8,826.00</b>   |
| <b>Planning Services</b>                  |                   |
| 52208 · Planning Fees - T                 | 16,666.00         |
| 52200 · Planning Fees - NT                | 10,957.00         |
| <b>Total Planning Services</b>            | <b>27,623.00</b>  |
| <b>Engineering Services</b>               |                   |
| 52400 · Engineering Fees - NT             | 19,842.99         |
| 52408 · Engineering Fees - T              | 3,846.54          |
| <b>Total Engineering Services</b>         | <b>23,689.53</b>  |
| <b>Other Professional/Outside Serv</b>    |                   |
| 52110 · OUTSIDE SERVICES M/A              | 821.82            |
| 52109 · Outside Services, Other - NT      | 827.75            |
| 52118 · Outside Services, Other - T       | 18,041.00         |

## Humboldt Bay Harbor, Recreation &amp; Conservation District

## Profit &amp; Loss

July through November 2019

|   | Jul - Nov 19      |
|---|-------------------|
| Total Other Professional/Outside Serv   | 19,690.57         |
| <b>Small Tools</b>                      |                   |
| 52800 · Small Tools - NT                | 130.29            |
| 52808 · Small Tools - T                 | 475.38            |
| <b>Total Small Tools</b>                | 605.67            |
| <b>Maintenance - Facilities</b>         |                   |
| 52708 · Repairs & Maint, Facilities - T | 74,266.89         |
| 52709 · REPAIRS & MAINTENANCE G/NT      | 551.92            |
| 52719 · Repairs & Maint, Facilities - N | 11,277.97         |
| <b>Total Maintenance - Facilities</b>   | 86,096.78         |
| <b>Maintenance - Equipment</b>          |                   |
| 52718 · Repairs & Maint, Equip - T      | 2,526.72          |
| 52710 · Repairs & Maint, Equip - NT     | 9,648.04          |
| 51209 · Automotive, Repairs - NT        | 3,695.35          |
| <b>Total Maintenance - Equipment</b>    | 15,870.11         |
| <b>Maintenance - IT</b>                 |                   |
| 57008 · Maintenance, IT Equip - T       | 1,790.57          |
| 57009 · Maintenance, IT Equip - NT      | 3,003.97          |
| <b>Total Maintenance - IT</b>           | 4,794.54          |
| <b>Dredging Expense</b>                 |                   |
| 55608 · Dredging Expense - T            | 25,853.19         |
| 56708 · Dredging - GT                   | 166,500.00        |
| 56718 · Dredging - MT                   | 465,330.00        |
| <b>Total Dredging Expense</b>           | 657,683.19        |
| <b>Rent Expense</b>                     |                   |
| 54308 · Redwood Terminal 2 Lease Expens | 45,127.50         |
| <b>Total Rent Expense</b>               | 45,127.50         |
| <b>Interest Expense</b>                 |                   |
| 55119 · INTEREST EXPENSE M/NT           | 16,459.00         |
| 55109 · Interest Expense - NT           | 33,629.67         |
| 55108 · Interest Expense - T            | 46,858.00         |
| <b>Total Interest Expense</b>           | 96,946.67         |
| <b>Other Expenses</b>                   |                   |
| 55419 · Other Expenses - NT             | 34.47             |
| <b>Total Other Expenses</b>             | 34.47             |
| <b>Grant Expenses</b>                   |                   |
| Harbor Grant Expenses                   |                   |
| 54408.1 · Harbor Grant Exp              | 180.00            |
| <b>Total Harbor Grant Expenses</b>      | 180.00            |
| <b>Total Grant Expenses</b>             | 180.00            |
| <b>Total Expense</b>                    | 2,074,180.32      |
| <b>Net Ordinary Income</b>              | -66,596.38        |
| <b>Net Income</b>                       | <u>-66,596.38</u> |

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Humboldt Bay Harbor, Recreation & Conservation District

01/15/20

Account QuickReport

Accrual Basis

As of November 30, 2019

| Type                                    | Date       | Num   | Name                                 | Memo                                    | Amount     |
|---|------------|-------|--------------------------------------|---|------------|
| <b>10200.1 - Cash in BBVA, Checking</b> |            |       |                                      |   |            |
| Liability Check                         | 09/05/2019 |       | QuickBooks Payroll Service           | Created by Payroll Service on 09/04/... | -20,839.27 |
| Liability Check                         | 09/05/2019 |       | QuickBooks Payroll Service           | Created by Payroll Service on 09/04/... | -2,138.61  |
| Liability Check                         | 09/19/2019 |       | QuickBooks Payroll Service           | Created by Payroll Service on 09/18/... | -22,012.05 |
| Liability Check                         | 10/03/2019 |       | QuickBooks Payroll Service           | Created by Payroll Service on 10/02/... | -19,870.25 |
| Check                                   | 09/16/2019 |       |                                      | Service Charge                          | -158.17    |
| Liability Check                         | 10/17/2019 |       | QuickBooks Payroll Service           | Created by Payroll Service on 10/16/... | -21,896.39 |
| Liability Check                         | 10/31/2019 |       | QuickBooks Payroll Service           | Created by Payroll Service on 10/29/... | -19,827.98 |
| Liability Check                         | 11/14/2019 |       | QuickBooks Payroll Service           | Created by Payroll Service on 11/08/... | -19,189.37 |
| Check                                   | 10/15/2019 |       |                                      | Service Charge                          | -165.79    |
| Liability Check                         | 11/27/2019 |       | QuickBooks Payroll Service           | Created by Payroll Service on 11/25/... | -1,930.10  |
| Liability Check                         | 11/27/2019 |       | QuickBooks Payroll Service           | Created by Payroll Service on 11/26/... | -19,636.85 |
| Check                                   | 11/15/2019 |       |                                      | Service Charge                          | -149.92    |
| Bill Pmt -Check                         | 09/06/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024                              | -5,033.55  |
| Liability Check                         | 09/06/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024                              | -3,986.26  |
| Liability Check                         | 09/06/2019 | EFT   | State Disbursement Unit              | 0230000067964                           | -233.53    |
| Bill Pmt -Check                         | 09/06/2019 | EFT   | CalPERS 457 Program                  | 457Match 9/6/19                         | -300.00    |
| Liability Check                         | 09/10/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024                              | -462.24    |
| Liability Check                         | 09/10/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024                              | -24.82     |
| Liability Check                         | 09/12/2019 | EFT   | Employment Development Department    | 499-0307-3                              | -7.95      |
| Liability Check                         | 09/12/2019 | EFT   | Tri Counties Bank                    | 94-2262845                              | -98.94     |
| Bill Pmt -Check                         | 09/13/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024                              | -0.12      |
| Bill Pmt -Check                         | 09/13/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024                              | -6.45      |
| Liability Check                         | 09/20/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024                              | -3,986.26  |
| Liability Check                         | 09/20/2019 | EFT   | CalPERS 457 Program                  | 450348                                  | -950.00    |
| Bill Pmt -Check                         | 09/20/2019 | EFT   | CalPERS 457 Program                  | 457Match 9/20/2019                      | -300.00    |
| Liability Check                         | 09/06/2019 | EFT   | CalPERS 457 Program                  | 450348                                  | -950.00    |
| Bill Pmt -Check                         | 09/20/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024                              | -5,033.55  |
| Liability Check                         | 09/20/2019 | EFT   | State Disbursement Unit              | 0230000067964 Scott Fuller              | -233.53    |
| Bill Pmt -Check                         | 09/20/2019 | EFT   | Official State Social Security Admin | 2233447024                              | -400.00    |
| Liability Check                         | 10/04/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024                              | -3,986.26  |
| Liability Check                         | 10/04/2019 | EFT   | CalPERS 457 Program                  | 450348                                  | -950.00    |
| Bill Pmt -Check                         | 10/04/2019 | EFT   | CalPERS 457 Program                  | 457Match 10/04/2019                     | -300.00    |
| Liability Check                         | 10/04/2019 | EFT   | State Disbursement Unit              | 0230000067964                           | -233.53    |
| Liability Check                         | 10/04/2019 | EFT   | Employment Development Department    | 499-0307-3                              | -17.96     |
| Bill Pmt -Check                         | 09/19/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024                              | -700.00    |
| Bill Pmt -Check                         | 10/18/2019 | EFT   | CalPERS 457 Program                  | 457Match 10/18/2019                     | -300.00    |
| Bill Pmt -Check                         | 10/18/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024                              | -5,033.55  |
| Liability Check                         | 10/18/2019 | EFT   | CalPERS 457 Program                  | 450348                                  | -950.00    |
| Liability Check                         | 10/18/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024                              | -3,986.26  |
| Liability Check                         | 10/18/2019 | EFT   | State Disbursement Unit              | 0230000067964                           | -233.53    |
| Bill Pmt -Check                         | 11/01/2019 | EFT   | CalPERS 457 Program                  | 457Match 11/01/2019                     | -300.00    |
| Liability Check                         | 11/01/2019 | EFT   | CalPERS 457 Program                  | 450348                                  | -950.00    |
| Liability Check                         | 11/01/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024                              | -3,986.26  |
| Liability Check                         | 11/01/2019 | EFT   | State Disbursement Unit              | 0230000067964                           | -233.53    |
| Bill Pmt -Check                         | 11/01/2019 | EFT   | FrancoTyp-Postalia                   | 466106100 PO #1507                      | -1,007.00  |
| Liability Check                         | 11/15/2019 | EFT   | State Disbursement Unit              | 0230000067964                           | -233.53    |
| Liability Check                         | 11/19/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024 Payday 11/15/2019            | -3,992.74  |
| Liability Check                         | 11/19/2019 | EFT   | CalPERS 457 Program                  | 450348 Payday 11/15/2019                | -950.00    |
| Bill Pmt -Check                         | 11/19/2019 | EFT   | CalPERS 457 Program                  | 457Match 11/15/2019                     | -300.00    |
| Bill Pmt -Check                         | 11/29/2019 | EFT   | CalPERS 457 Program                  | 457Match 11/29/2019                     | -300.00    |
| Liability Check                         | 11/29/2019 | EFT   | CalPERS 457 Program                  | 450348                                  | -950.00    |
| Bill Pmt -Check                         | 11/27/2019 | EFT   | PERS Unfunded Accrued Liab           | 2233447024                              | -5,033.55  |
| Liability Check                         | 09/04/2019 | E-pay | Tri Counties Bank                    | 94-2262845 QB Tracking # 1974986...     | -3,651.56  |
| Liability Check                         | 09/04/2019 | E-pay | Employment Development Department    | 499-0307-3 QB Tracking # 19750230...    | -1,297.96  |
| Liability Check                         | 09/04/2019 | E-pay | Tri Counties Bank                    | 94-2262845 QB Tracking # 1975565...     | -544.60    |
| Liability Check                         | 09/04/2019 | E-pay | Employment Development Department    | 499-0307-3 QB Tracking # 19756060...    | -208.76    |
| Liability Check                         | 09/18/2019 | E-pay | Employment Development Department    | 499-0307-3 QB Tracking # 14952819...    | -1,315.21  |
| Liability Check                         | 09/18/2019 | E-pay | Tri Counties Bank                    | 94-2262845 QB Tracking # 1495319...     | -3,810.04  |
| Liability Check                         | 09/30/2019 | E-pay | Employment Development Department    | 499-0307-3 QB Tracking # 15595499...    | -589.36    |
| Liability Check                         | 10/02/2019 | E-pay | Employment Development Department    | 499-0307-3 QB Tracking # 18075839...    | -1,261.44  |
| Liability Check                         | 10/02/2019 | E-pay | Tri Counties Bank                    | 94-2262845 QB Tracking # 1807705...     | -3,435.56  |
| Liability Check                         | 10/18/2019 | E-pay | Employment Development Department    | 499-0307-3 QB Tracking # -1330353...    | -1,322.90  |
| Liability Check                         | 10/16/2019 | E-pay | Tri Counties Bank                    | 94-2262845 QB Tracking # -1330265...    | -3,897.18  |
| Liability Check                         | 11/01/2019 | E-pay | Employment Development Department    | 499-0307-3 Payperiod 10/13 - 10/26/...  | -1,276.14  |
| Liability Check                         | 10/29/2019 | E-pay | Tri Counties Bank                    | 94-2262845 QB Tracking # -40595266      | -3,473.72  |
| Liability Check                         | 11/08/2019 | E-pay | Employment Development Department    | 499-0307-3 QB Tracking # 390897734      | -1,224.73  |
| Liability Check                         | 11/08/2019 | E-pay | Tri Counties Bank                    | 94-2262845 QB Tracking # 390921734      | -3,317.86  |
| Liability Check                         | 11/26/2019 | E-pay | Employment Development Department    | 499-0307-3 QB Tracking # -541126366     | -1,243.50  |
| Liability Check                         | 11/26/2019 | E-pay | Tri Counties Bank                    | 94-2262845 QB Tracking # -5409943...    | -3,711.88  |
| Bill Pmt -Check                         | 09/03/2019 | 59509 | Coast Seafood Co.                    |   | -23,910.00 |
| Bill Pmt -Check                         | 09/03/2019 | 59510 | Eureka Oxygen Company                |   | -659.15    |
| Bill Pmt -Check                         | 09/03/2019 | 59511 | Brown & Brown Insurance              |   | -12,668.00 |
| Bill Pmt -Check                         | 09/03/2019 | 59512 | McSorley Architecture                | RMT1 PO #1467                           | -3,375.00  |
| Bill Pmt -Check                         | 09/03/2019 | 59513 | Precision Intermedia                 | Peter Krueger, 565-04-9041, 20-147...   | -60.00     |
| Bill Pmt -Check                         | 09/03/2019 | 59514 | U S Bank Corporate Payment System    | 4246044555706765                        | -1,804.21  |
| Bill Pmt -Check                         | 09/03/2019 | 59515 | Alliant Insurance Services, Inc.     | License & Permit Bond Renewal           | -1,000.00  |
| Bill Pmt -Check                         | 09/03/2019 | 59516 | B & B Portable Toilets               |   | -191.96    |



## Humboldt Bay Harbor, Recreation & Conservation District Account QuickReport

As of November 30, 2019

| Type            | Date       | Num   | Name                                      | Memo                                  | Amount     |
|-----------------|------------|-------|---|---------------------------------------|------------|
| Bill Pmt -Check | 09/03/2019 | 59517 | Occupational, Enviromental Health & Drug  | ANDRBR002, Pre-Employment Scre...     | -141.50    |
| Bill Pmt -Check | 09/03/2019 | 59518 | Shelter Cove Resort Improvement District  | SC                                    | -608.37    |
| Bill Pmt -Check | 09/03/2019 | 59519 | Southwest Answering Service               |                                       | -157.70    |
| Bill Pmt -Check | 09/03/2019 | 59520 | Standard Insurance Company                | ST 908447 0001                        | -164.40    |
| Bill Pmt -Check | 09/03/2019 | 59521 | US Postal Service                         | PO Box 1030 Renewal                   | -356.00    |
| Bill Pmt -Check | 09/03/2019 | 59522 | Verizon Wireless                          |                                       | -97.34     |
| Bill Pmt -Check | 09/03/2019 | 59523 | World Oil Enviromental Services           | WIM                                   | -80.00     |
| Bill Pmt -Check | 09/03/2019 | 59524 | Specialty Supply Company                  | RMT2                                  | -233.20    |
| Bill Pmt -Check | 09/03/2019 | 59525 | 101Netlink                                |                                       | -449.00    |
| Bill Pmt -Check | 09/03/2019 | 59526 | Coastal Business Systems, Inc.            | WIM Copier Lease                      | -268.22    |
| Bill Pmt -Check | 09/03/2019 | 59527 | David L. Moonie & Company                 | June 2019                             | -560.00    |
| Bill Pmt -Check | 09/03/2019 | 59528 | Englund Marine Supply                     |                                       | -1,915.98  |
| Bill Pmt -Check | 09/03/2019 | 59529 | Humboldt Bay Solar Fund LLC               | RMT2                                  | -19,445.66 |
| Bill Pmt -Check | 09/03/2019 | 59530 | Nylex.net                                 |                                       | -482.50    |
| Bill Pmt -Check | 09/03/2019 | 59531 | Schmidbauer Building Supply               |                                       | -177.80    |
| Bill Pmt -Check | 09/03/2019 | 59532 | Staples Credit Plan                       | 6035 5178 1247 5530                   | -420.98    |
| Bill Pmt -Check | 09/03/2019 | 59533 | Thrifty Supply                            |                                       | -128.00    |
| Bill Pmt -Check | 09/03/2019 | 59534 | Recology Eel River                        | 061097997                             | -441.25    |
| Bill Pmt -Check | 09/03/2019 | 59535 | Recology Humboldt County                  | A0000265                              | -1,029.00  |
| Bill Pmt -Check | 09/03/2019 | 59536 | Verizon Wireless                          |                                       | -549.92    |
| Bill Pmt -Check | 09/03/2019 | 59537 | Pacific Gas & Electric (3494-4)           | WIM, FL, RMT2                         | -8,037.88  |
| Bill Pmt -Check | 09/03/2019 | 59538 | Recology Humboldt County                  | A0000265                              | -3,028.07  |
| Bill Pmt -Check | 09/03/2019 | 59539 | Rogers Machinery Co.                      | Dredge Expense RMT2 PO #1469          | -314.63    |
| Bill Pmt -Check | 09/03/2019 | 59540 | The Mitchell Law Firm, LLP                | July 2019                             | -1,125.50  |
| Bill Pmt -Check | 09/03/2019 | 59541 | Mendes Supply Company                     |                                       | -386.60    |
| Bill Pmt -Check | 09/05/2019 | 59543 | Alternative Business Concepts             | Postage machine Ink                   | -184.44    |
| Bill Pmt -Check | 09/05/2019 | 59544 | Francotyp-Postalia                        | WIM                                   | -144.78    |
| Bill Pmt -Check | 09/05/2019 | 59545 | Humboldt Bay Municipal Water Dist.        | 9002.001 RMT2                         | -864.70    |
| Bill Pmt -Check | 09/05/2019 | 59546 | Humboldt Community Services District      | 3165                                  | -365.60    |
| Bill Pmt -Check | 09/05/2019 | 59547 | McCampbell Analytical, Inc.               | WIM Testing                           | -4,168.50  |
| Bill Pmt -Check | 09/05/2019 | 59548 | North Coast Laboratories, LTD             | FLBY                                  | -247.00    |
| Bill Pmt -Check | 09/05/2019 | 59550 | PPG Architectural Finishes                |                                       | -285.01    |
| Bill Pmt -Check | 09/05/2019 | 59551 | Rogers Machinery Co.                      | Dredge Expense RMT2                   | -54.25     |
| Bill Pmt -Check | 09/05/2019 | 59552 | Specialty Traffic Systems                 | WIM                                   | -179.03    |
| Bill Pmt -Check | 09/05/2019 | 59553 | Uline                                     | 15461937                              | -223.10    |
| Check           | 09/05/2019 | 59554 | Wimple, Matthew                           | For credit memo: 121077               | -40.00     |
| Bill Pmt -Check | 09/06/2019 | 59556 | City of Eureka                            | WIM                                   | -16,569.25 |
| Bill Pmt -Check | 09/06/2019 | 59557 | Autio Company                             | SC PO #1473                           | -981.72    |
| Liability Check | 09/20/2019 | 59559 | ILWU Local 14A                            | September 2019 Union Dues             | -108.00    |
| Bill Pmt -Check | 09/20/2019 | 59560 | California Assoc. of Port Authorities     | June/July/August 2019 Membership ...  | -3,195.25  |
| Bill Pmt -Check | 09/20/2019 | 59561 | McCampbell Analytical, Inc.               | WIM Testing                           | -4,825.50  |
| Bill Pmt -Check | 09/20/2019 | 59562 | Advanced Security Systems                 |                                       | -391.50    |
| Bill Pmt -Check | 09/20/2019 | 59563 | AT&T Phone                                | 707 443-0801 071 7                    | -519.91    |
| Bill Pmt -Check | 09/20/2019 | 59564 | B & B Portable Toilets                    | RWD                                   | -185.78    |
| Bill Pmt -Check | 09/20/2019 | 59565 | Eel River Scrap & Salvage                 | Scrap removal RMT II                  | -218.75    |
| Bill Pmt -Check | 09/20/2019 | 59566 | LACO Associates                           | Dog Ranch Phase 1                     | -281.00    |
| Bill Pmt -Check | 09/20/2019 | 59567 | Nylex.net                                 |                                       | -52.50     |
| Bill Pmt -Check | 09/20/2019 | 59570 | Shelter Cove Fishing Preservation Inc     |                                       | -4,166.66  |
| Bill Pmt -Check | 09/20/2019 | 59571 | Times Printing Co                         |                                       | -177.97    |
| Bill Pmt -Check | 09/20/2019 | 59572 | Verizon Wireless                          |                                       | -97.34     |
| Bill Pmt -Check | 09/20/2019 | 59573 | Napa Auto Parts                           |                                       | -689.39    |
| Bill Pmt -Check | 09/20/2019 | 59574 | Pacific Gas & Electric (1906-4)           | Acct #0670491906-4                    | -1,888.59  |
| Bill Pmt -Check | 09/20/2019 | 59575 | Pacific Gas & Electric (3494-4)           | 6598073494-4                          | -151.79    |
| Bill Pmt -Check | 09/20/2019 | 59576 | Pacific Gas & Electric (Non-Energy)       | 2072047                               | -272.13    |
| Bill Pmt -Check | 09/20/2019 | 59577 | Bobillot, Alan                            | PO #1475 Staples: printer, ink, cable | -329.41    |
| Bill Pmt -Check | 09/20/2019 | 59578 | North Coast Journal                       | Job Postings                          | -208.00    |
| Bill Pmt -Check | 09/20/2019 | 59579 | Occupational, Enviromental Health & Drug  | MIKCH000, Pre-Employment Screeni...   | -141.50    |
| Bill Pmt -Check | 09/20/2019 | 59580 | Pierson Building Center                   |                                       | -614.20    |
| Bill Pmt -Check | 09/20/2019 | 59581 | Planwest Partners, Inc.                   |                                       | -8,336.00  |
| Bill Pmt -Check | 09/20/2019 | 59582 | Renner Petroleum                          | 14137                                 | -665.22    |
| Bill Pmt -Check | 09/20/2019 | 59583 | 101Netlink                                |                                       | -455.00    |
| Bill Pmt -Check | 09/20/2019 | 59584 | Englund Marine Supply                     | Dredging Expense RMT2                 | -39.23     |
| Bill Pmt -Check | 09/20/2019 | 59585 | Pintermedia LLC                           |                                       | -60.00     |
| Bill Pmt -Check | 09/20/2019 | 59586 | Precision Intermedia                      | Peter Krueger, 565-04-9041, 20-147... | -25.00     |
| Bill Pmt -Check | 09/20/2019 | 59587 | Shafer's Ace Hardware                     | 1586                                  | -216.34    |
| Bill Pmt -Check | 09/20/2019 | 59588 | Shelter Cove Resort Improvement District  | SC                                    | -702.33    |
| Bill Pmt -Check | 09/20/2019 | 59589 | Verizon Wireless                          | 08/02-09/01/2019                      | -464.17    |
| Bill Pmt -Check | 09/26/2019 | 59591 | Coldwell Banker Commerical PacificPart... |                                       | -886.90    |
| Bill Pmt -Check | 09/26/2019 | 59592 | Eureka Oxygen Company                     | Cylinder Rental                       | -187.28    |
| Bill Pmt -Check | 09/26/2019 | 59593 | Hensell Materials, Inc.                   | WIM                                   | -168.72    |
| Bill Pmt -Check | 09/26/2019 | 59594 | Mendes Supply Company                     |                                       | -290.85    |
| Bill Pmt -Check | 09/26/2019 | 59595 | Recology Eel River                        | 061097997                             | -402.17    |
| Bill Pmt -Check | 09/26/2019 | 59596 | Recology Humboldt County                  | A0000265                              | -1,032.85  |
| Bill Pmt -Check | 09/26/2019 | 59597 | SDRMA                                     | Workers' Compensation                 | -3,427.31  |
| Bill Pmt -Check | 09/26/2019 | 59598 | Standard Insurance Company                | ST 908447 0001                        | -188.40    |
| Bill Pmt -Check | 09/26/2019 | 59599 | Staples Credit Plan                       | 6035 5178 1247 5530                   | -502.01    |
| Bill Pmt -Check | 09/26/2019 | 59600 | Thrifty Supply                            |                                       | -601.63    |
| Bill Pmt -Check | 09/26/2019 | 59601 | Times-Standard, Tri-City Weekly           | RFP - RMT I                           | -168.21    |

## Humboldt Bay Harbor, Recreation & Conservation District Account QuickReport

As of November 30, 2019

| Type            | Date       | Num   | Name                                     | Memo                                     | Amount     |
|-----------------|------------|-------|--|--|------------|
| Bill Pmt -Check | 09/26/2019 | 59603 | Western Chainsaw                         | Service Charge                           | -24.66     |
| Check           | 09/26/2019 | 59604 | Woolsey, Dick                            | Tenant Refund                            | -199.38    |
| Check           | 09/26/2019 | 59605 | Kautsky, George                          | Tenant Refund                            | -40.00     |
| Check           | 09/26/2019 | 59606 | Friedrichsen, Gary                       | Tenant Refund                            | -20.00     |
| Check           | 09/26/2019 | 59607 | Howser, Suzie.                           | Tenant Refund                            | -163.80    |
| Check           | 09/26/2019 | 59608 | Thee, Thomas                             | Tenant Refund                            | -40.00     |
| Bill Pmt -Check | 09/26/2019 | 59609 | U S Bank Corporate Payment System        | 4246044555706765                         | -1,583.52  |
| Bill Pmt -Check | 10/03/2019 | 59611 | ACWA JPIA                                | August 2019                              | -36,366.04 |
| Bill Pmt -Check | 10/03/2019 | 59612 | Coastal Business Systems, Inc.           | WIM Copier Lease 9/20 - 10/20            | -268.22    |
| Bill Pmt -Check | 10/03/2019 | 59613 | David L. Moonie & Company                | AUGUST 2019                              | -4,660.00  |
| Bill Pmt -Check | 10/03/2019 | 59614 | Humboldt Bay Solar Fund LLC              | RMT2                                     | -17,641.35 |
| Bill Pmt -Check | 10/03/2019 | 59615 | Humboldt Community Services District     | 3165                                     | -369.52    |
| Bill Pmt -Check | 10/03/2019 | 59616 | Planwest Partners, Inc.                  |  | -3,800.50  |
| Bill Pmt -Check | 10/03/2019 | 59617 | Public Phone                             |  | -270.00    |
| Bill Pmt -Check | 10/03/2019 | 59618 | Southwest Answering Service              | Acct # 2105                              | -172.70    |
| Bill Pmt -Check | 10/03/2019 | 59619 | The Mitchell Law Firm, LLP               | August 2019                              | -2,210.00  |
| Bill Pmt -Check | 10/08/2019 | 59620 | C-MANC                                   | Dues, Small Deep Draft Harbor throu...   | -2,550.00  |
| Bill Pmt -Check | 10/08/2019 | 59621 | City of Eureka                           | WIM                                      | -15,745.23 |
| Bill Pmt -Check | 10/08/2019 | 59622 | Horvath Plumbing                         | PO # 1481                                | -1,100.00  |
| Bill Pmt -Check | 10/08/2019 | 59623 | Pacific Gas & Electric (8259-4) address  | 0074698259-4                             | -7,987.83  |
| Bill Pmt -Check | 10/08/2019 | 59624 | SHN Consulting Engineers & Geologists    |  | -4,253.75  |
| Bill Pmt -Check | 10/08/2019 | 59625 | State Water Resource Control Board       | Billing Period Charges: 4/1/2019-6/30... | -206.94    |
| Bill Pmt -Check | 10/08/2019 | 59626 | World Oil Enviromental Services          | WIM, used oil                            | -80.00     |
| Liability Check | 10/18/2019 | 59628 | Employment Development Department        | 1713957888                               | -317.44    |
| Liability Check | 10/18/2019 | 59629 | ILWU Local 14A                           | Union Dues                               | -108.00    |
| Bill Pmt -Check | 10/16/2019 | 59630 | Advanced Security Systems                | WIM                                      | -184.50    |
| Bill Pmt -Check | 10/16/2019 | 59631 | AT&T Phone                               | 707 443-0801 071 7                       | -519.91    |
| Bill Pmt -Check | 10/16/2019 | 59632 | B & B Portable Toilets                   | RWD                                      | -182.99    |
| Bill Pmt -Check | 10/16/2019 | 59633 | Humboldt Bay Municipal Water Dist.       | 9002.001 RMT2                            | -770.96    |
| Bill Pmt -Check | 10/16/2019 | 59634 | Maples Service Inc.                      | PO #1490, RMT2 Sewer Line                | -940.00    |
| Bill Pmt -Check | 10/16/2019 | 59635 | Napa Auto Parts                          |  | -851.17    |
| Bill Pmt -Check | 10/16/2019 | 59636 | Pacific Gas & Electric (3494-4)          | 6598073494-4                             | -133.39    |
| Bill Pmt -Check | 10/16/2019 | 59637 | Pierson Building Center                  |  | -88.46     |
| Bill Pmt -Check | 10/16/2019 | 59638 | Reincke Marine Fabrication (RMF)         | Fire boat pumps                          | -300.00    |
| Bill Pmt -Check | 10/16/2019 | 59639 | Renner Petroleum                         | 14137                                    | -1,089.93  |
| Bill Pmt -Check | 10/16/2019 | 59640 | Restif Cleaning Service                  | Carpet Cleaning, Corps of Engineers      | -210.00    |
| Bill Pmt -Check | 10/16/2019 | 59641 | Schmidbauer Building Supply              |  | -2.60      |
| Bill Pmt -Check | 10/16/2019 | 59642 | SHN Consulting Engineers & Geologists    |  | -1,843.75  |
| Bill Pmt -Check | 10/16/2019 | 59643 | Steve's Septic Service LLC               | RMT II                                   | -485.00    |
| Bill Pmt -Check | 10/16/2019 | 59644 | Tony Gosselin & Sons                     | Blue Dodge Flat Repair, RMT II           | -50.00     |
| Bill Pmt -Check | 10/16/2019 | 59645 | Verizon Wireless                         | 09/02/19 - 10/01/19                      | -97.38     |
| Bill Pmt -Check | 10/16/2019 | 59646 | Advanced Security Systems                | WIM                                      | -240.15    |
| Bill Pmt -Check | 10/16/2019 | 59647 | Northern California Safety Consortium    | Confined Spaces Max Emery                | -75.00     |
| Bill Pmt -Check | 10/16/2019 | 59648 | Pacific Gas & Electric (1906-4)          | Acct #0670491906-4                       | -1,932.78  |
| Bill Pmt -Check | 10/16/2019 | 59649 | Pintermedia LLC                          |  | -60.00     |
| Bill Pmt -Check | 10/16/2019 | 59650 | Shelter Cove Resort Improvement District | SC                                       | -480.63    |
| Bill Pmt -Check | 10/16/2019 | 59651 | Verizon Wireless                         | 09/02/19 - 10/01/19                      | -464.32    |
| Check           | 10/16/2019 | 59652 | Cerami, Joe.                             | Slip Deposit and Key Deposit             | -203.80    |
| Bill Pmt -Check | 10/24/2019 | 59653 | 101Netlink                               | WIM                                      | -293.00    |
| Bill Pmt -Check | 10/24/2019 | 59654 | ACWA JPIA                                | October 2019                             | -30,202.20 |
| Bill Pmt -Check | 10/24/2019 | 59655 | Fastenal Company                         | RMT2                                     | -51.64     |
| Bill Pmt -Check | 10/24/2019 | 59656 | Humboldt Waste Management Authority      | Greenwaste - WIM                         | -65.70     |
| Bill Pmt -Check | 10/24/2019 | 59657 | U S Bank Corporate Payment System        | 4246044555706765                         | -6,240.81  |
| Bill Pmt -Check | 10/24/2019 | 59658 | Ellis Art & Engineering Supplies         |  | -16.13     |
| Liability Check | 10/24/2019 | 59661 | ILWU Local 14A                           | Union Dues to replace missing check...   | -969.00    |
| Check           | 10/24/2019 | 59662 | Maxon, Robert                            | Tenant Refund                            | -813.38    |
| Bill Pmt -Check | 10/24/2019 | 59663 | Pacific Gas & Electric (Non-Energy)      | 2072047                                  | -373.81    |
| Bill Pmt -Check | 10/30/2019 | 59665 | American Textile & Supply, Inc.          | Fields Landing SWPP                      | -1,780.00  |
| Bill Pmt -Check | 10/30/2019 | 59666 | Commercial Laundry Repair                | Laundry Soap                             | -146.48    |
| Bill Pmt -Check | 10/30/2019 | 59667 | David L. Moonie & Company                | September 2019                           | -4,973.00  |
| Bill Pmt -Check | 10/30/2019 | 59668 | Don's Rent-All                           | 7197                                     | -134.54    |
| Bill Pmt -Check | 10/30/2019 | 59669 | Eel River Scrap & Salvage                | Scrap removal - RMT 2                    | -437.50    |
| Bill Pmt -Check | 10/30/2019 | 59670 | Englund Marine Supply                    | RMT II PO #1479                          | -1,460.26  |
| Bill Pmt -Check | 10/30/2019 | 59671 | Hilficker Company                        | FLBY PO #1496                            | -476.53    |
| Bill Pmt -Check | 10/30/2019 | 59672 | Mendes Supply Company                    |  | -969.04    |
| Bill Pmt -Check | 10/30/2019 | 59673 | O&M Industries                           | WIM Boiler Room                          | -328.00    |
| Bill Pmt -Check | 10/30/2019 | 59674 | Pacific Coast Shellfish Growers Assoc.   | Member Dues                              | -500.00    |
| Bill Pmt -Check | 10/30/2019 | 59675 | Recology Eel River                       | 061097997                                | -417.17    |
| Bill Pmt -Check | 10/30/2019 | 59676 | Recology Humboldt County                 | A0000265                                 | -1,731.68  |
| Bill Pmt -Check | 10/30/2019 | 59677 | Rogers Machinery Co.                     | WIM Air Compressor Parts                 | -65.10     |
| Bill Pmt -Check | 10/30/2019 | 59678 | Shelter Cove Fishing Preservation Inc    | SC Janitorial                            | -2,083.33  |
| Bill Pmt -Check | 10/30/2019 | 59679 | Standard Insurance Company               | ST 908447 0001                           | -188.40    |
| Bill Pmt -Check | 10/30/2019 | 59680 | The Mitchell Law Firm, LLP               | September 2019                           | -827.50    |
| Bill Pmt -Check | 10/30/2019 | 59681 | Woodley Island Ship Shop                 | Solar Hat, 3 log books                   | -92.94     |
| Bill Pmt -Check | 10/30/2019 | 59682 | Recology Humboldt County                 | A0000265                                 | -4,132.57  |
| Bill Pmt -Check | 10/30/2019 | 59683 | Advanced Security Systems                | RMT 2 - Panel Comm Failure               | -85.00     |
| Bill Pmt -Check | 10/30/2019 | 59684 | AT&T Internet                            | 831-000-8571 571                         | -933.88    |
| Bill Pmt -Check | 10/30/2019 | 59685 | Coastal Business Systems, Inc.           | WIM Copier Lease 10/20 - 11/20           | -268.22    |

## Humboldt Bay Harbor, Recreation & Conservation District Account QuickReport

Accrual Basis

As of November 30, 2019

| Type                                   | Date       | Num   | Name                                      | Memo                                   | Amount               |
|--|------------|-------|---|--|----------------------|
| Bill Pmt -Check                        | 10/30/2019 | 59686 | Humboldt Community Services District      | 3165                                   | -357.76              |
| Bill Pmt -Check                        | 10/30/2019 | 59687 | Southwest Answering Service               |  | -157.70              |
| Bill Pmt -Check                        | 10/30/2019 | 59688 | World Oil Environmental Services          | WIM                                    | -970.00              |
| Bill Pmt -Check                        | 11/08/2019 | 59691 | Coast Seafood Co.                         |  | -35,865.00           |
| Bill Pmt -Check                        | 11/08/2019 | 59692 | Humboldt County Tax Collector             | 1st Installment #DEF180001100 364 ...  | -19,355.04           |
| Bill Pmt -Check                        | 11/08/2019 | 59693 | MM Diving, Inc                            | Samoa Outfall Diving Project (PO #1... | -54,500.00           |
| Bill Pmt -Check                        | 11/08/2019 | 59694 | The Dutra Group                           | 4000                                   | -633,000.00          |
| Bill Pmt -Check                        | 11/08/2019 | 59695 | Humboldt County Tax Collector             | DEF170001111 401-112-024-000 Py...     | -1,394.16            |
| Bill Pmt -Check                        | 11/08/2019 | 59696 | Coldwell Banker Commerical PacificPart... | RMT2 - Yerba Mate                      | -3,522.07            |
| Bill Pmt -Check                        | 11/08/2019 | 59697 | Humboldt Bay Municipal Water Dist.        |  | -84.32               |
| Bill Pmt -Check                        | 11/08/2019 | 59698 | Humboldt Bay Solar Fund LLC               |  | -13,876.01           |
| Bill Pmt -Check                        | 11/08/2019 | 59699 | Keenan Supply                             | PO #1491 RMT2                          | -299.73              |
| Bill Pmt -Check                        | 11/08/2019 | 59700 | Napa Auto Parts                           |  | -547.51              |
| Bill Pmt -Check                        | 11/08/2019 | 59701 | Pacific Gas & Electric (8259-4) address   | 0074698259-4                           | -8,513.33            |
| Bill Pmt -Check                        | 11/08/2019 | 59702 | Tony Gosselin & Sons                      | Backhoe Tire - RMT 2                   | -33.01               |
| Bill Pmt -Check                        | 11/08/2019 | 59703 | World Oil Environmental Services          | WIM, used oil                          | -80.00               |
| Bill Pmt -Check                        | 11/08/2019 | 59704 | City of Eureka                            | WIM                                    | -14,850.03           |
| Bill Pmt -Check                        | 11/08/2019 | 59705 | AT&T Phone                                | 707 443-0801 071 7                     | -558.58              |
| Bill Pmt -Check                        | 11/08/2019 | 59706 | Pacific Gas & Electric (3494-4)           | 6598073494-4                           | -133.39              |
| Bill Pmt -Check                        | 11/19/2019 | 59708 | Humboldt Community Services District      | 3165                                   | -250.00              |
| Bill Pmt -Check                        | 11/19/2019 | 59709 | B & B Portable Toilets                    | RWD                                    | -182.99              |
| Bill Pmt -Check                        | 11/19/2019 | 59710 | Coastal Tractor                           | H05502                                 | -343.02              |
| Bill Pmt -Check                        | 11/19/2019 | 59711 | Hilficker Company                         | FLBY PO #1501                          | -476.53              |
| Bill Pmt -Check                        | 11/19/2019 | 59712 | Humboldt Bay Municipal Water Dist.        | 9002.001 RMT2                          | -727.36              |
| Bill Pmt -Check                        | 11/19/2019 | 59713 | North Coast Laboratories, LTD             | RMT 2 Landfill                         | -1,589.00            |
| Bill Pmt -Check                        | 11/19/2019 | 59714 | Nylex.net                                 |  | -240.00              |
| Bill Pmt -Check                        | 11/19/2019 | 59715 | Pacific Gas & Electric (Non-Energy)       | 2072047                                | -348.39              |
| Bill Pmt -Check                        | 11/19/2019 | 59716 | Pierson Building Center                   |  | -95.65               |
| Bill Pmt -Check                        | 11/19/2019 | 59717 | Staples Credit Plan                       | 6035 5178 1247 5530                    | -296.60              |
| Bill Pmt -Check                        | 11/19/2019 | 59718 | State Water Resource Control Board        | RMT 2 07/01/19-06/30/20. Facility I... | -1,400.00            |
| Bill Pmt -Check                        | 11/19/2019 | 59719 | Steve's Septic Service LLC                | Pump WIM Sewer Tank (PO #1499)         | -675.00              |
| Bill Pmt -Check                        | 11/19/2019 | 59720 | U S Bank Corporate Payment System         | 4246044555706765                       | -4,981.93            |
| Liability Check                        | 11/29/2019 | 59722 | Employment Development Department         | 1713957888                             | -952.32              |
| Bill Pmt -Check                        | 11/27/2019 | 59723 | 101Netlink                                | WIM                                    | -279.00              |
| Bill Pmt -Check                        | 11/27/2019 | 59724 | Standard Insurance Company                | ST 908447 0001                         | -188.40              |
| Bill Pmt -Check                        | 11/27/2019 | 59725 | Verizon Wireless                          |  | -97.38               |
| Bill Pmt -Check                        | 11/27/2019 | 59750 | Security Lock & Alarm                     | RMT 2 Keys                             | -10.85               |
| Bill Pmt -Check                        | 11/27/2019 | 59751 | Verizon Wireless                          |  | -475.56              |
| Bill Pmt -Check                        | 11/27/2019 | 59752 | Renner Petroleum                          | 14137                                  | -1,168.95            |
| Total 10200.1 - Cash in BBVA, Checking |            |       |   |  | -1,361,561.02        |
| <b>TOTAL</b>                           |            |       |   |  | <b>-1,361,561.02</b> |

**DRAFT MINUTES  
MEETING OF THE BOARD OF COMMISSIONERS  
HUMBOLDT BAY HARBOR, RECREATION AND CONSERVATION DISTRICT**

**October 24, 2019**

The Humboldt Bay Harbor, Recreation and Conservation District met in regular session on the above date at 7:00 P.M. Open Session, at the Woodley Island Marina Meeting Room, 601 Startare Drive, Eureka, CA 95501.

**CLOSED SESSION – 6:00 P.M.**

The Commission met in closed session to discuss the following items:

- a) CONFERENCE WITH LABOR NEGOTIATORS. Agency designated representatives: Larry Oetker, Executive Director. Employee organization: International Longshore and Warehouse Union Local 14, Unit A
  
- b) CONFERENCE WITH REAL PROPERTY NEGOTIATORS. Terms of potential purchase of real property with Assessor's Parcel Numbers 401-011-001, 401-011-010, 401-011-012, 401-011-018, 401-011-020, 401-011-023, 401-021-011, 401-021-018, 401-021-027, 401-011-028, 401-021-029, and 401-031-045 on the Samoa Peninsula, Humboldt County, California pursuant to California Government Code § 54956.8. District negotiators: Larry Oetker, Executive Director and Ryan Platz, District Counsel. Negotiating party: Tim Callison. Under negotiation: price and payment terms.
  
- c) CONFERENCE WITH LEGAL COUNSEL--ANTICIPATED LITIGATION. Initiation of litigation pursuant to paragraph (4) of subdivision (d) of Section 54956.9: one case (Coast Seafood).

**OPEN SESSION – 7:03 P.M.**

**ROLL CALL:**

PRESENT:       DALE  
                  DOSS  
                  MARKS  
                  HIGGINS  
                  KULLMANN

ABSENT:        NONE  
QUORUM:       YES

**PLEDGE OF ALLEGIANCE**

**REPORT ON EXECUTIVE CLOSED SESSION:** No reportable action.

**PUBLIC COMMENT:** The following individuals addressed the Commission regarding subject matters not on this meeting's agenda: Tod Reinke, Kent Sawatsky, Stephen Bakos, Robert McCollough and Mark Condes.

**CONSENT CALENDAR**

- a) Receive District Financial Reports for August 2019
- b) Approval of Meeting Minutes for September 24, 2019 Regular Board Meeting
  - I. COMMISSIONER KULLMANN MOVED TO APPROVE THE CONSENT CALENDAR ITEMS A-B. COMMISSIONER HIGGINS SECONDED.
  - II. Chair Dale opened the item to the public comment. No members of the public commented.
  - III. Chair Dale moved the discussion back to the Commission.  
VOICE VOTE WAS CALLED, MOTION CARRIED WITHOUT DISSENT.  
Ayes:           DALE, DOSS, HIGGINS, KULLMANN, MARKS  
Noes:           NONE  
Absent:         NONE  
Abstain:        NONE

## COMMUNICATIONS AND REPORTS

- a) Executive Director's Report
  - I. Executive Director presented Executive Director's Report.
- b) Staff Reports
  - I. Staff presented on recent District activities.
- c) District Counsel and District Treasurer Reports
  - I. District Counsel reported on legal activities.
- d) Commissioner and Committee Reports
  - I. Commissioners reported on their recent activities.
- e) Others
  - I. No report.

## UNFINISHED BUSINESS

- a) **Update regarding recently Completed Woodley Island Marina and Fields Landing Boat Yard dredging**
  - I. District staff presented the item.
  - II. The Commission discussed the item.
  - III. Chair Dale opened the item to public comment. Kent Sawatsky, David Helliwell, Kevin Pinto and Vivian Helliwell commented.
  - IV. Chair Dale moved the discussion back to the Commission.
  - V. No formal action was taken.
  
- b) **Consider Adopting Resolutions 2019-10, 2019-11, 2019-12, 2019-13, 2019-14 and 2019-15 Amending the Fee Schedule for Harbor District Properties and Operations and Amendment No. 7 to Ordinance 15 Tariff Section No. 6 Item 14 Enacting General Tariff No. 1, Establishing Rules, Regulations, Charges, and Fees, Including Harbor Fees on Vessels and Cargo in Connection with the Humboldt Harbor and Bay 38 Foot, Deep Draft Navigation Improvement Project within the Jurisdiction of the Humboldt Bay Harbor, Recreation and Conservation District, and Consent to Read by Title Only.**
  - 1. Draft Resolution 2019-10 Harbor District Office Fee Schedule
    - I. Executive Director presented the item.
    - II. The Commission discussed the item.
    - III. Chair Dale opened the item to public comment. Kent Sawatsky, Felix Huerta and Scott Frazier commented.
    - IV. Chair Dale moved the discussion back to the Commission.
    - V. COMMISSIONER KULLMANN MOVED TO ADOPT RESOLUTION 2019-10 HARBOR DISTRICT OFFICE FEE SCHEUDLE.  
COMMISSIONER HIGGINS SECONDED.  
ROLL CALL VOTE WAS CALLED, MOTION CARRIED.  
Ayes: DALE, DOSS, HIGGINS, KULLMANN, MARKS  
Noes: NONE  
Absent: NONE  
Abstain: NONE
  
  - 2. Draft AMENDMENT NO. 7 TO ORDINANCE 15 Tariff Section No. 6 Item 14 ENACTING GENERAL TARIFF NO. 1, ESTABLISHING RULES, REGULATIONS, CHARGES, AND FEES, INCLUDING HARBOR FEES ON VESSELS AND CARGO IN CONNECTION WITH THE HUMBOLDT HARBOR AND BAY 38 FOOT, DEEP DRAFT NAVIGATION IMPROVEMENT PROJECT WITHIN THE JURISDICTION OF THE HUMBOLDT BAY HARBOR, RECREATION AND CONSERVATION DISTRICT, AND CONSENT TO READ BY TITLE ONLY
  
  - 3. Ordinance 15 Amendment NO. 7 and consent to read by title only
    - I. Executive Director presented items 2 and 3 together.
    - II. The Commission discussed the item.
    - III. Chair Dale opened the item to public comment. Kent Sawatsky commented.
    - IV. Chair Dale moved the discussion back to the Commission.
    - V. COMMISSIONER KULLMANN MOVED TO ADOPT AMENDMENT NO. 7 TO ORDINACE 15 BY TITLE ONLY.  
COMMISSIONER HIGGINS SECONDED.

ROLL CALL VOTE WAS CALLED, MOTION CARRIED.  
Ayes: DALE, DOSS, HIGGINS, KULLMANN, MARKS  
Noes: NONE  
Absent: NONE  
Abstain: NONE

4. Draft Resolution 2019-11 Harbor Fee Schedule
  - I. Executive Director presented the item.
  - II. The Commission discussed the item.
  - III. Chair Dale opened the item to public comment. Kent Sawatsky, Kevin Pinto and Tod Reinke commented.
  - IV. Chair Dale moved the discussion back to the Commission.
  - V. COMMISSIONER KULLMANN MOVED TO ADOPT RESOLUTION 2019-11 HARBOR FEE SCHEUDLE.  
COMMISSIONER DOSS SECONDED.  
ROLL CALL VOTE WAS CALLED, MOTION CARRIED.  
Ayes: DALE, DOSS, HIGGINS, KULLMANN, MARKS  
Noes: NONE  
Absent: NONE  
Abstain: NONE
  
5. Draft Resolution 2019-12 Fields Landing Boat Yard Fee Schedule
  - I. Executive Director presented the item.
  - II. The Commission discussed the item.
  - III. Chair Dale opened the item to public comment. Robert McCollough and Kevin Pinto commented.
  - IV. Chair Dale moved the discussion back to the Commission.
  - V. COMMISSIONER KULLMANN MOVED TO ADOPT RESOLUTION 2019-12 FIELDS LANDING BOAT YARD FEE SCHEDULE  
COMMISSIONER HIGGINS SECONDED.  
ROLL CALL VOTE WAS CALLED, MOTION CARRIED.  
Ayes: DOSS, HIGGINS, KULLMANN, MARKS  
Noes: DALE  
Absent: NONE  
Abstain: NONE
  
6. Draft Resolution 2019-13 Redwood Marine Terminal and Shelter Cove Fee Schedule
  - I. Executive Director presented the item.
  - II. The Commission discussed the item.
  - III. Chair Dale opened the item to public comment. Kent Sawatsky commented.
  - IV. Chair Dale moved the discussion back to the Commission.
  - V. COMMISSIONER KULLMANN MOVED TO ADOPT RESOLUTION 2019-13 REDWOOD MARINE TERMINAL AND SHELTER COVE FEE SCHEUDLE.  
COMMISSIONER MARKS SECONDED.  
ROLL CALL VOTE WAS CALLED, MOTION CARRIED.  
Ayes: DALE, DOSS, HIGGINS, KULLMANN, MARKS  
Noes: NONE  
Absent: NONE  
Abstain: NONE
  
7. Draft Resolution 2019-14 Equipment Fee Schedule
  - I. Executive Director presented the item.
  - II. The Commission discussed the item.
  - III. Chair Dale opened the item to public comment. No one commented.
  - IV. Chair Dale moved the discussion back to the Commission.
  - V. COMMISSIONER KULLMANN MOVED TO ADOPT RESOLUTION 2019-14 EQUIPMENT FEE SCHEUDLE.  
COMMISSIONER HIGGINS SECONDED.  
ROLL CALL VOTE WAS CALLED, MOTION CARRIED.  
Ayes: DALE, DOSS, HIGGINS, KULLMANN, MARKS

Noes: NONE  
Absent: NONE  
Abstain: NONE

8. Draft Resolution 2019-15 Woodley Island Marina Fee Schedule
  - I. Executive Director presented the item.
  - II. The Commission discussed the item.
  - III. Chair Dale opened the item to public comment. Stephen Bakos, Kent Sawatsky, Mark Condes, Jan Abbot, Kevin Pinto, Kim McCollough (for Susan Penn), Vivian Helliwell, Jeanie Davis, Charlie Rockwell, and Robert McCollough commented.
  - IV. Chair Dale moved the discussion back to the Commission.
  - V. COMMISSIONER KULLMANN MOVED TO TABLE THE ITEM AND APPOINT A SUBCOMMITTEE TO DEAL WITH IT AND BRING IT BACK TO THE NOVEMBER MEETING.  
COMMISSIONER MARKS SECONDED.  
VOICE VOTE WAS CALLED, MOTION CARRIED.  
Ayes: DALE, DOSS, HIGGINS, KULLMANN, MARKS  
Noes: NONE  
Absent: NONE  
Abstain: NONE

## **NEW BUSINESS**

### **a) Authorize the Release of a Request for Proposals to Lease the District's Fields Landing Boat Yard Site Operations**

- I. Executive Director presented the item.
- II. The Commission discussed the item.
- III. Chair Dale opened the item to public comment. Felix Huerta, Kevin Pinto and Tod Reinke commented.
- IV. Chair Dale moved the discussion back to the Commission.  
COMMISSIONER MARKS MOVED TO RELEASE A REQUEST FOR PROPOSALS TO LEASE THE DISTRICT'S FIELDS LANDING BOAT YARD SITE OPERATIONS  
COMMISSIONER KULLMANN SECONDED  
VOICE VOTE WAS CALLED, MOTION CARRIED WITHOUT DISSENT.  
Ayes: DALE, DOSS, HIGGINS, KULLMANN, MARKS  
Noes: NONE  
Absent: NONE  
Abstain: NONE

### **b) Humboldt State University Pilot Seaweed Culture Project**

- I. District staff and Humboldt State University Staff Karen Grey and Rafael Cuevas-Urbe presented the item.
- II. The Commission discussed the item.
- III. Chair Dale opened the item to public comment. Mark Condes commented.
- IV. Chair Dale moved the discussion back to the Commission.  
COMMISSIONER HIGGINS MOVED TO AUTHORIZE STAFF TO NEGOTIATE AND EXECUTE A LEASE WITH HUMBOLDT STATE UNIVERSITY FOR A PILOT SEAWEED CULTURE PROJECT AND AUTHORIZE STAFF TO EXECUTE FUTURE MARICULTURE PRE-PERMITTEING PROJECT PROGRAM LEASES WITHOUT BOARD APPROVAL  
COMMISSIONER KULLMANN SECONDED  
VOICE VOTE WAS CALLED, MOTION CARRIED WITHOUT DISSENT.  
Ayes: DALE, DOSS, HIGGINS, KULLMANN, MARKS  
Noes: NONE  
Absent: NONE  
Abstain: NONE

**c) Cancel November and December 2019 Board Meetings**

- I. Executive Director presented the item.
- II. The Commission discussed the item.
- III. Chair Dale opened the item to public comment. No one commented.
- IV. Chair Dale moved the discussion back to the Commission.  
COMMISSIONER HIGGINS MOVED TO CANCEL THE NOVEMBER AND DECEMBER 2019 MEETINGS  
AND RESCHEDULE THEM FOR THE SECOND THURSDAY IN BOTH MONTHS  
COMMISSIONER KULLMANN SECONDED  
VOICE VOTE WAS CALLED, MOTION CARRIED WITHOUT DISSENT.  
Ayes: DALE, DOSS, HIGGINS, KULLMANN, MARKS  
Noes: NONE  
Absent: NONE  
Abstain: NONE

**ADMINISTRATIVE AND EMERGENCY PERMITS - NONE**

**ADJOURNMENT – 10:28 P.M.**

APPROVED BY:

RECORDED BY:

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\_\_\_\_\_  
Secretary of the Board of Commissioners

Mindy Hiley  
Director of Administrative Services



**DRAFT MINUTES  
SPECIAL MEETING OF THE BOARD OF COMMISSIONERS  
HUMBOLDT BAY HARBOR, RECREATION AND CONSERVATION DISTRICT**

**November 14, 2019**

The Humboldt Bay Harbor, Recreation and Conservation District met in special session on the above date, Special Session at 7:00 P.M. at the Woodley Island Marina Meeting Room, 601 Startare Drive, Eureka, CA 95501.

**CLOSED SESSION – 5:30 P.M.**

**PUBLIC COMMENT:** The following individuals addressed the Commission regarding subject matters on closed session: Todd Van Herpe.

- a) CONFERENCE WITH LEGAL COUNSEL--ANTICIPATED LITIGATION. Initiation of litigation pursuant to paragraph (4) of subdivision (d) of Section 54956.9: one case (CUE IV, LLC) Assessors Parcel Numbers 506-051-003, 506-051-004, 506-051-009, 506-061-026, 506-061-027, 506-112-006, 506-121-001.
- b) CONFERENCE WITH REAL PROPERTY NEGOTIATORS. Terms of potential purchase of real property with Assessor's Parcel Numbers 401-011-001, 401-011-010, 401-011-012, 401-011-018, 401-011-020, 401-011-023, 401-021-011, 401-021-018, 401-021-027, 401-011-028, 401-021-029, and 401-031-045 on the Samoa Peninsula, Humboldt County, California pursuant to California Government Code § 54956.8. District negotiators: Larry Oetker, Executive Director and Ryan Plotz, District Counsel. Negotiating party: Tim Callison. Under negotiation: price and payment terms.
- c) CONFERENCE WITH REAL PROPERTY NEGOTIATORS. Terms of potential purchase of real property with Assessor's Parcel Numbers 002-162-001, 002-161-001, 002-162-018, 014-161-013, 014-161-014, and 014-161-006, and 014-161-007 in the Eureka, Humboldt County, California pursuant to California Government Code § 54956.8. District negotiators: Larry Oetker, Executive Director and Ryan Plotz, District Counsel. Negotiating party: Ted Loring. Under negotiation: price and payment terms.
- d) CONFERENCE WITH REAL PROPERTY NEGOTIATORS. Terms of potential purchase of real property with Assessor's Parcel Numbers 401-112-021, 401-111-006, 401-112-030 on the Samoa Peninsula, Humboldt County, California pursuant to California Government Code § 54956.8. District negotiators: Larry Oetker, Executive Director and Ryan Plotz, District Counsel. Negotiating party: Nick Keeler. Under negotiation: price and payment terms.
- e) CONFERENCE WITH LEGAL COUNSEL--ANTICIPATED LITIGATION. Initiation of litigation pursuant to paragraph (4) of subdivision (d) of Section 54956.9: one case (Coast Seafood).

**SPECIAL SESSION - 7:05 P.M.**

**ROLL CALL:**

PRESENT: DALE  
HIGGINS  
KULLMANN  
DOSS

ABSENT: MARKS

QUORUM: YES

**PLEDGE OF ALLEGIANCE**

**REPORT ON EXECUTIVE CLOSED SESSION – No Reportable Items**

**PUBLIC COMMENT:** The following individuals addressed the Commission regarding subject matters not on this meeting's agenda: Kent Sawatsky, Ken Bates, Doby Class, Susan Penn, Kevin Collins, Mark Condes, Vivian Helliwell, and Robert McCollough.

**CONSENT CALENDAR - NONE**

**COMMUNICATIONS AND REPORTS**

- a) Executive Director's Report
  - I. No report.
- b) Staff Reports
  - I. No report.
- c) District Counsel and District Treasurer Reports
  - I. No report.
- d) Commissioner and Committee Reports
  - I. Commissioners reported on their recent activities.
- e) Others
  - I. No report.

**UNFINISHED BUSINESS**

- a) **Consider Adopting Resolution 2019-15, A Resolution Establishing Woodley Island Marina Fee Schedule**
  - I. Executive Director presented the item.
  - II. The Commission received the update.
  - III. Chair Dale opened the item to public comment. Kent Sawatsky, Ken Bates, Mark Condes, Kevin Collins, David Helliwell, Stephen Bakos, Robert McCollough, Susan Penn, Vivian Helliwel, Doby Class and Scott Frazier commented.
  - IV. Chair Dale moved the discussion back to the Commission.
  - V. COMMISSIONER HIGGINS MADE A MOTION TO ADOPT RESOLUTION 2019-15 AND THE FORMATION OF A SUBCOMMITTEE TO WORK WITH TENANTS ON DREDGE SURCHARGE AND LIVEBOARD FEES.  
COMMISSIONER DOSS SECONDED  
ROLL CALL VOTE WAS CALLED. MOTION PASSED WITHOUT DISSENT.  
Ayes: DALE, DOSS, HIGGINS, KULLMANN  
Noes: NONE  
Absent: MARKS  
Abstain: NONE
  - VI. Larry Doss and Greg Dale were selected to be on the Dredge Surcharge Fee Subcommittee.

**NEW BUSINESS - NONE**

**ADMINISTRATIVE AND EMERGENCY PERMITS - NONE**

**ADJOURNMENT – 8:25 P.M.**

APPROVED BY:

RECORDED BY:

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\_\_\_\_\_

Secretary of the Board of Commissioners

Mindy Hiley

Director of Administrative Services

**DRAFT MINUTES  
SPECIAL MEETING OF THE BOARD OF COMMISSIONERS  
HUMBOLDT BAY HARBOR, RECREATION AND CONSERVATION DISTRICT**

**December 12, 2019**

The Humboldt Bay Harbor, Recreation and Conservation District met in special session on the above date, Closed Session met at 5:30 P.M., Special Session at 7:00 P.M. at the Woodley Island Marina Meeting Room, 601 Startare Drive, Eureka, CA 95501.

**CLOSED SESSION – 5:30 P.M.**

- a) CONFERENCE WITH REAL PROPERTY NEGOTIATORS. Terms of potential purchase of real property with Assessor's Parcel Numbers 401-011-001, 401-011-010, 401-011-012, 401-011-018, 401-011-020, 401-011-023, 401-021-011, 401-021-018, 401-021-027, 401-011-028, 401-021-029, and 401-031-045 on the Samoa Peninsula, Humboldt County, California pursuant to California Government Code § 54956.8. District negotiators: Larry Oetker, Executive Director and Ryan Plotz, District Counsel. Negotiating party: Tim Callison. Under negotiation: price and payment terms.
- b) CONFERENCE WITH REAL PROPERTY NEGOTIATORS. Terms of potential purchase of real property with Assessor's Parcel Numbers 002-162-001, 002-161-001, 002-162-018, 014-161- 013, 014-161-014, and 014-161-006, and 014-161-007 in the Eureka, Humboldt County, California pursuant to California Government Code § 54956.8. District negotiators: Larry Oetker, Executive Director and Ryan Plotz, District Counsel. Negotiating party: Ted Loring. Under negotiation: price and payment terms.
- c) CONFERENCE WITH REAL PROPERTY NEGOTIATORS. Terms of potential purchase of real property with Assessor's Parcel Numbers 401-112-021, 401-111-006, 401-112-030 on the Samoa Peninsula, Humboldt County, California pursuant to California Government Code § 54956.8. District negotiators: Larry Oetker, Executive Director and Ryan Plotz, District Counsel. Negotiating party: Nick Keeler. Under negotiation: price and payment terms.
- d) CONFERENCE WITH LEGAL COUNSEL--ANTICIPATED LITIGATION. Initiation of litigation pursuant to paragraph (4) of subdivision (d) of Section 54956.9: (One case) (Glasshouse Gardens Inc)
- e) CONFERENCE WITH LEGAL COUNSEL--ANTICIPATED LITIGATION. Initiation of litigation pursuant to paragraph (4) of subdivision (d) of Section 54956.9: one case (Coast Seafood).
- f) CONFERENCE WITH REAL PROPERTY NEGOTIATORS. Terms of potential acquisition and/or lease of real property on the Samoa Peninsula, Humboldt County, with Assessor's Parcel Numbers, 401-112-021 and 401-112-024 pursuant to California Government Code § 54956.8. District negotiators: Larry Oetker, Executive Director and Ryan Plotz, District Counsel. Negotiating party: Steven Mueller. Under negotiation: price and payment terms.
- g) CONFERENCE WITH REAL PROPERTY NEGOTIATORS. Terms of potential acquisition and/or lease of portions of real property on the Samoa Peninsula, Humboldt County, with Assessor's Parcel Numbers, 401-031-056 and 401-031-058 pursuant to California Government Code § 54956.8. District negotiators: Larry Oetker, Executive Director and Ryan Plotz, District Counsel. Negotiating party: Timber Heritage Association, Pete Oringer. Under negotiation: price and payment terms.

**SPECIAL SESSION - 7:05 P.M.**

**ROLL CALL:**

PRESENT:       DALE  
                  HIGGINS  
                  KULLMANN  
                  DOSS  
                  MARKS

ABSENT:        NONE  
QUORUM:       YES

## PLEDGE OF ALLEGIANCE

### REPORT ON EXECUTIVE CLOSED SESSION – No Reportable Items

**PUBLIC COMMENT:** The following individuals addressed the Commission regarding subject matters not on this meeting's agenda: Tod Reinke and Robin Grey-Stewart

### CONSENT CALENDAR

- a) Agreement for Services with the Humboldt Bay Development Association
  - I. COMMISSIONER MARKS MOVED TO APPROVE THE CONSENT CALENDAR ITEM A. COMMISSIONER KULLMANN SECONDED.
  - II. Chair Dale opened the item to the public comment. Scott Frazier commented.
  - III. Chair Dale moved the discussion back to the Commission.  
VOICE VOTE WAS CALLED, MOTION CARRIED WITHOUT DISSENT.  
Ayes: DALE, DOSS, HIGGINS, KULLMANN, MARKS  
Noes: NONE  
Absent: NONE  
Abstain: NONE

### COMMUNICATIONS AND REPORTS

- a) Executive Director's Report
  - I. Executive Director presented Executive Director's Report.
- b) Staff Reports
  - I. Staff presented on recent District activities.
- c) District Counsel and District Treasurer Reports
  - I. No report.
- d) Commissioner and Committee Reports
  - I. Commissioners reported on their recent activities.
- e) Others
  - I. No report.

### UNFINISHED BUSINESS - NONE

### NEW BUSINESS

- a) **Fishing Community Sustainability pre-planning**
  - I. District staff presented the item.
  - II. The Commission discussed the item.
  - III. Chair Dale opened the item to public comment. Lori Richmond, Jake Mitchell and Jeremy Laros commented.
  - IV. Chair Dale moved the discussion back to the Commission.
  - V. No formal action was taken
- b) **Update Regarding the Samoa Peninsula Infrastructure Financing**
  - I. District staff presented the item.
  - II. The Commission discussed the item.
  - III. Chair Dale opened the item to public comment. Jeremy Laros commented.
  - IV. Chair Dale moved the discussion back to the Commission.
  - V. No formal action was taken
- a) **Consideration of Resolution 2019-17, A Resolution Designating the Executive Director and Deputy Director of the Humboldt Bay Harbor, Recreation and Conservation District to be Authorized Agents to Engage with the Federal Emergency Management Agency and the Governor's Office of Emergency Services Regarding Grants and Reimbursements**
  - I. District Staff presented the item.

- II. The Commission discussed the item.
- III. Chair Dale opened the item to public comment. No one commented.
- IV. Chair Dale moved the discussion back to the Commission.
- V. COMMISSIONER HIGGINS MOVED TO ADOPT RESOLUTION 2019-17 DESIGNATING THE EXECUTIVE DIRECTOR AND DEPUTY DIRECTOR OF THE HUMBOLDT BAY HARBOR, RECREATION AND CONSERVATION DISTRICT AS AUTHORIZED AGENTS TO ENGAGE WITH THE FEDERAL EMERGENCY MANAGEMENT AGENCY AND THE GOVERNOR'S OFFICE OF EMERGENCY SERVICES REGARDING GRANTS AND REIMBURSEMENTS.  
COMMISSIONER KULLMANN SECONDED.  
ROLL CALL VOTE WAS CALLED, MOTION CARRIED.  
Ayes: DALE, DOSS, HIGGINS, KULLMANN, MARKS  
Noes: NONE  
Absent: NONE  
Abstain: NONE

**ADMINISTRATIVE AND EMERGENCY PERMITS - NONE**

**ADJOURNMENT – 8:10 P.M.**

APPROVED BY:

RECORDED BY:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
Secretary of the Board of Commissioners

Mindy Hiley  
Director of Administrative Services

**STAFF REPORT – HARBOR DISTRICT MEETING**  
**January 23, 2020**

**TO:** Honorable Board President and Harbor District Board Members

**FROM:** Larry Oetker, Executive Director

**DATE:** January 16, 2020

**TITLE: Humboldt Bay Management Plan Billboard Policy Amendment**

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**RECOMMENDATION:** Staff recommends the Board amend the Humboldt Bay Management Plan with a clear policy regarding permitting of billboards.

**BACKGROUND:** There are existing billboards that occur within tidal and submerged lands granted to the District. The District has regulatory jurisdiction over these areas. On December 30, 2019, the District received an application to rebuild a billboard that collapsed during a storm. It is anticipated that similar applications will be received by the District in the future. The Humboldt Bay Management Plan does not adequately define District policy regarding billboards. District staff requests that the District Board of Commissioners provide direction regarding revisions to the Humboldt Bay Management Plan that would provide clarity regarding billboard policy. Specifically, District staff seeks direction as to whether billboard maintenance or construction can be permitted by the District. The following information is pertinent to the District’s policy regarding billboards.

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**Humboldt Bay Management Plan Policy RVR-7** states that:

The District shall investigate its responsibilities with respect to billboard management issues affecting the Humboldt Bay area, including regulatory and legal issues related to possible control measures. Based on this investigation, the District may develop, if appropriate, policy alternatives with respect to the future siting or construction of billboards in areas subject to the District’s jurisdiction.

Although this language is specific to *future* siting or construction of billboards, the Board has authority to also develop policy regarding maintenance of existing billboards. District staff is requesting guidance regarding both future siting/construction of billboards and maintenance of existing billboards.

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**Harbor District Ordinance 14, Section 1.01(a)** states that:

It shall be unlawful for any person, agency, association, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert, demolish, equip, use, occupy, maintain any building, structure, piling, dock, pipeline, or to dredge, fill, or alter, or cause, or permit the same to be done in, or upon Humboldt Bay, Humboldt County, California, within

the jurisdiction of the Humboldt Bay Harbor, Recreation and Conservation District, as defined in Appendix 2 of the California Harbors and Navigation Code, without first obtaining a permit, grant, franchise, lease, right, or privilege from the Humboldt Bay Harbor Recreation and Conservation District.

Ordinance 14 is routinely relied upon by the District to issue permits for construction and maintenance of structures in District jurisdiction, including but not limited to docks and mariculture equipment. However, the District has never received a permit application or issued a permit for billboard maintenance or construction.

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**District Ordinance 7 Article IV, Section 9(f)** states that:

Signs and related structures, other than those that are necessary and approved by the District for navigational, public safety, resource management and identification purposes shall be eliminated and prohibited from the tidal and submerged lands within the jurisdiction of the District.

Billboards, as considered by this staff report and related policy, do not provide for navigational, public safety, resource management or identification purposes. Rather, the billboards considered are used for commercial advertising. Hence, based on Ordinance 7, billboards shall be eliminated and prohibited from the tidal and submerged lands within the jurisdiction of the District.

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**A letter from State Lands Commission to the City of Oakland (dated January 28, 2013)** provides guidance regarding consistency of billboards with the public trust. The letter states:

Billboards, as they are not water-dependent and do not promote the statewide public's enjoyment of trust lands, would not fall under the category of being consistent with the public trust. However, under certain limited circumstances, temporary non-trust uses that do not interfere with existing or future trust uses and needs, but support and benefit the trust economically may be determined to be not inconsistent with trust needs and allowable by the trustee.

**DISCUSSION:**

District staff requests that the District Board of Commissioners provide direction regarding revisions to the Humboldt Bay Management Plan that would provide clarity regarding billboard policy. Specifically, District staff seeks policy level direction as to whether billboard maintenance or construction can be permitted by the District.

**STAFF REPORT – HARBOR DISTRICT MEETING**

January 23, 2020

**TO:** Honorable Board President and Harbor District Board Members

**FROM:** Mindy Hiley, Director of Administrative Services

**DATE:** January 15, 2020

**TITLE:** Consideration of Resolution 2020-01, A Resolution Declaring that Governing Body and Volunteers Shall Be Deemed Employees of the District for the Purpose of Providing Workers’ Compensation Coverage.

**STAFF RECOMMENDATION:** Staff recommends the Board: Adopt Resolution 2020-01 for Governing Body and Volunteers.

**BACKGROUND:** The Special District Risk Management Authority (SDRMA) requires an annual Resolution in order to extend Workers’ Compensation coverage to their Governing Body members and/or volunteers. If adopted, such persons will be deemed as employees for workers’ compensation benefit. The Resolution permits the Governing Body to designate the categories of persons whom the District desires to “deem” to be employees for this purpose by checking the boxes associated with those categories on the Resolution. Any persons designated will need to be listed under the Workers’ Compensation Program and must pay an annual premium to enable coverage.

**DISCUSSION:** The Humboldt Bay Harbor, Recreation and Conservation District values its Commissioners and recommends that they be covered and listed under the Workers’ Compensation Program. The financial burden of the addition of five Commissioners would be \$151.20 annually. The District also values its volunteers has begun assembling a crew of volunteers to serve as captains and deck hands on the Fire Boat during fire emergencies throughout Humboldt Bay. If the District did want to add any persons in the additional categories, the annual rate is calculated based on volunteer hours. As an example, 500 volunteer hours would be an additional annual premium of \$65. If the District wishes to add any persons to the policy, it must be done at the time of renewal, in the month of February.

Staff recommends the Board adopt the Resolution for the Governing Body and Volunteers. The addition of workers’ compensation coverage for Governing Body Members and Volunteers will be revisited annually.

**ATTACHMENTS:**

- A. Resolution 2020-01



**HUMBOLDT BAY HARBOR, RECREATION  
AND CONSERVATION DISTRICT**

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**RESOLUTION NO. 2020-01**

**A RESOLUTION DECLARING THAT GOVERNING BODY MEMBERS AND  
VOLUNTEERS SHALL BE DEEMED TO BE EMPLOYEES OF THE DISTRICT FOR  
THE PURPOSE OF PROVIDING WORKERS' COMPENSATION COVERAGE FOR  
SAID CERTAIN INDIVIDUALS WHILE PROVIDING THEIR SERVICES**

**WHEREAS**, the Humboldt Bay Harbor, Recreation and Conservation District utilizes the services of Governing Body Members and Volunteers; and

**WHEREAS**, Section 3363.5 of the California Labor Code provides that a person who performs voluntary service for a public agency as designated and authorized by the Governing Body of the agency or its designee, shall, upon adoption of a resolution by the Governing Body of the agency so declaring, be deemed to be an employee of the agency for the purpose of Division 4 of said Labor Code while performing such services; and

**WHEREAS**, the Governing Body wishes to extend Workers' Compensation coverage as provided by State law to the following designated categories of persons as indicated by a checkmark in the box to the left of the descriptions:

- All Members of the Governing Body of the Humboldt Bay Harbor, Recreation and Conservation District as presently or hereafter constituted and/or
- All persons performing voluntary services without pay other than meals, transportation, lodging or reimbursement for incidental expenses
- Individuals on Work-study programs
- Interns
- Other Volunteers
- 

\_\_\_\_\_ [designate]

**NOW, THEREFORE, BE IT RESOLVED**, that such persons coming within the categories specified above, including the duly elected or appointed replacements of any Governing Body Member and other designated individuals be deemed to be employees of the Humboldt Bay Harbor, Conservation and Recreation District for the purpose of Workers' Compensation coverage as provided in Division 4 of the Labor Code while performing such service. However, said Governing Body Members and other designated individuals will not be considered an employee of the Humboldt Bay Harbor, Recreation and Conservation District for any purpose other than for such Workers' Compensation coverage, nor grant nor enlarge upon any other right, duty or responsibility of such Governing Body Members or other designated individuals, nor allow such persons to claim any other benefits or gifts give to paid employees of the Humboldt Bay Harbor, Recreation and Conservation District.

**PASSED, APPROVED AND ADOPTED** by the Board of Commissioners of the Humboldt Bay Harbor, Recreation and Conservation District at a duly called meeting held on the 23rd day of January 2020, by the following polled vote:

**AYES:**

**NOES:**

**ABSENT:**

**ABSTAIN:**

**ATTEST:**

\_\_\_\_\_  
\_\_\_\_\_, **President**  
**Board of Commissioners**

\_\_\_\_\_  
\_\_\_\_\_, **Secretary**  
**Board of Commissioners**

**CERTIFICATE OF SECRETARY**

The undersigned, duly qualified and acting Secretary of the HUMBOLDT BAY HARBOR, RECREATION AND CONSERVATION DISTRICT, does hereby certify that the attached Resolution is a true and correct copy of RESOLUTION NO. 2020-01 entitled,

**A RESOLUTION DECLARING THAT GOVERNING BODY MEMBERS AND VOLUNTEERS SHALL BE DEEMED TO BE EMPLOYEES OF THE DISTRICT FOR THE PURPOSE OF PROVIDING WORKERS' COMPENSATION COVERAGE FOR SAID CERTAIN INDIVIDUALS WHILE PROVIDING THEIR SERVICES**

as regularly adopted at a legally convened meeting of the Board of Commissioners of the HUMBOLDT BAY HARBOR, RECREATION AND CONSERVATION DISTRICT, duly held on the 23rd day of January 2020; and further, that such Resolution has been fully recorded in the Journal of Proceedings in my office, and is in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this 23rd day of January 2020.

\_\_\_\_\_  
\_\_\_\_\_, Secretary  
Board of Commissioners