



COUNTY OF HUMBOLDT
PLANNING AND BUILDING DEPARTMENT
CURRENT PLANNING DIVISION

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

Hearing Date: February 03, 2022

To: Humboldt County Planning Commission

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

Subject: **McKinleyville Community Services District Mad River Floodplain Habitat Restoration and Public Access Conditional Use Permit Extension**
Case Number PLN-2021-17477
Assessor's Parcel Number (APN) 506-341-017, 508-021-006, 508-021-007, and
County road rights-of-ways
McKinleyville Area

Table of Contents

Page

Agenda Item Transmittal Form	2
Recommended Action and Executive Summary	3
Draft Resolution	6

Attachments

Attachment 1	Original Conditions of Approval	8
Attachment 2	Maps and Project Site Plan	10

Please contact Rebecca Jacobson, Planner, at 707-268-3727, or by email at rjacobson@co.humboldt.ca.us if you have any questions about the scheduled public hearing item.

AGENDA ITEM TRANSMITTAL

Hearing Date February 03, 2022	Subject Conditional Use Permit extension	Contact Rebecca Jacobson
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Project: A two-year extension of the following project: A Conditional Use Permit (CUP) for the McKinleyville Community Services District for habitat restoration, establishing public access, and road modifications. A consolidated Coastal Development Permit was processed by the California Coastal Commission. **No changes to the project are proposed.**

Project Location: The project is located in the McKinleyville area, on the west side of Fischer Avenue, approximately 6,200 feet southwest from the intersection of Fischer Avenue and School Road, and at the western portion of School Road from Ocean Drive to Verwer Avenue, on property known to be in Section 01 of Township 06 North, Range 01 West, Humboldt Base & Meridian.

Present Plan Designations: Agriculture Exclusive/Prime Lands, Natural Resource (AEP, NR); McKinleyville Area Plan (MCKAP); Slope Stability: Relatively Stable (0).

Present Zoning: Inland: Agriculture Exclusive, Natural Resources; with combing zone Flood Hazard Areas, Streams and Riparian Corridor Protection (AE-60/F, R; NR/R).

Application Number: PLN-2021-17477

Assessor's Parcel Numbers: 506-341-017, 508-021-006, 508-021-007, and County road rights-of-ways

Applicant

McKinleyville Community
Services District
Attn: Greg Orsini
PO Box 2037
McKinleyville, CA 95519

Owner

Same as Applicant

Agent

GHD
Attn: Andrea Hilton
718 3rd St
Eureka, CA 95502

Environmental Review: As Lead Agency under CEQA (California Environmental Quality Act), McKinleyville Community Services District filed a notice of completion for a Mitigated Negative Declaration for the Mad River Floodplain and Public Access Enhancement Project (SCH #2020039047). Pursuant to Section 15096 (Process for a Responsible Agency) of the CEQA Guidelines, Humboldt County Planning and Building Department, as the CEQA Responsible Agency, is obligated to make a CEQA determination regarding the activity that is proposed to be undertaken. The County determined through Planning Commission Resolution 20-75 that the IS/MND has adequately identified and reduced environmental effects to less than significant and that no further environmental review is required.

Major Issues: None.

State Appeal Status: A Consolidated Coastal Development Permit was processed by the California Coastal Commission.

**MCKINLEYVILLE COMMUNITY SERVICES DISTRICT MAD RIVER FLOODPLAIN AND PUBLIC ACCESS
ENHANCEMENT PROJECT EXTENSION**

Application Number PLN-2021-17477

Assessor's Parcel Number 506-341-017, 508-021-006, 508-021-007, and County road rights-of-ways

Recommended Commission Action

1. Describe the application as a public hearing;
2. Request that staff present the project;
3. Open the public hearing and receive testimony; and
4. Close the hearing and adopt the Resolution to take the following actions:

Make all of the required findings, based on evidence in the staff report, and approve the application(s) for the Conditional Use Permit extension subject to the recommended conditions, and approve the project subject to the recommended conditions.

Executive Summary: A Conditional Use Permit (CUP) for McKinleyville Community Services District for habitat restoration, establishing public access, and road modifications.

Habitat Restoration

Habitat Restoration would include removing infrastructure in the floodplain to restore a more natural connection to the Mad River and thereby increase the quantity and quality of available salmonid habitat on the Mad River watershed and includes 1) Decommission and revegetate 4.25 acres of infrastructure in the floodplain currently being utilized as percolation ponds; 2) after decommissioning the ponds, establish 2.0 acres of new wetland within the depression, 1.4 new acres of open water to be used as off-channel rearing refugia habitat for salmonids, and 0.5 new acres of riparian habitat; 3) establish a 1,775 foot channel to connect the river to the pond increasing accessibility for juvenile fish and to avoid stranding in the decommissioned pond footprint; and 4) off-channel refugia will be created by reconnecting the river to the floodplain through the project area and establishment of natural features.

Public Access

Public Access would include: 1) a ADA compliant access to an overlook of the Mad River from the paved School Road Trail; 2) a trail from the overlook to the floodplain and a defined river access point; 3) instructional and interpretive signage and bench resting sites; 4) parallel parking along School Road to include an ADA parking stall and five additional parking spots. Parking to include a safe turnaround for traffic circulation.

Road Modifications

Road Modifications would include from the westerly end of School Road (a county-maintained road) from Ocean Drive (a county-maintained road) to Verwer Avenue (a non-county-maintained road) constructing a turnaround area prior to Verwer Avenue; establishing no parking anytime zones to facilitate vehicles using the turnaround area; signing and striping the no parking zones; placing rocks, bollards, logs, or other materials to channelize traffic and control parking; constructing curbs, dikes, swales, and ditches to control storm water runoff; improving storm water quality by constructing/using best management practices; landscaping and replanting of areas disturbed by construction; signage directing the public to the river access; enhancing road signage along School Road and Ocean Drive; and reconfiguring how Verwer Avenue intersects School Road. Additional public road right of way may need to be acquired from the property to the south of School Road (APN 508-021-007, McKinleyville Community Services District) in order to construct the turnaround as well as relocating existing fencing to accommodate the turnaround area. Additionally, the project includes modifications to the southerly end of Verwer Avenue at School Road. These include reconfiguring the road within the existing right of way; placing rocks, bollards, logs, or other materials to channelize traffic and control parking; landscaping and replanting of areas disturbed by construction; repairing the road; and installation of a gate and

appurtenances. These appurtenances include, but are not limited to, signage that addresses the use of the Verwer Avenue. Improvements to Verwer Avenue will be funded and constructed by others.

This ambitious project will enhance valuable fish and wildlife habitat as well as enhance public access and recreation opportunities while preserving open space. The origin of the project began in 2012 while MCSD staff conducted permitted county storm drain maintenance because of the flooding caused to its pasture lands. California Department of Fish and Wildlife was called with reports of wetlands being drained. A warden and environmental scientist from the Department contacted our Staff to inquire and requested a site visit. After they determined that the work being conducted was appropriate, conversations continued between CDFW and District Staff about future use of the site and the planned decommissioning of the percolation ponds. The potential for the pond conversion to off stream habitat and grant funding opportunities were discussed that day and later developed into grant applications. The funding for project design and compliance came from: CDFW FRGP; CA State Coastal Conservancy; and USFWS Coastal Program. California Trout Inc was the fiscal sponsor for these funds and MCSD obtained a Habitat Conservation Fund grant that supported design. A project team was developed including multiple local firms and collaboration with the Wiyot tribe. Agency representatives served on the technical review committee from CDFW, SCC, and NOAA.

Residents of the Verwer Court neighborhood at the west terminus of School Road contacted the applicant and county representatives to explore ways to better control traffic circulation and provide a turnaround for westbound traffic seeking to use the new public trail access. This involved a site meeting with the neighborhood and on-going work by Bob Bronkall, Deputy, Director of Public Works, working with property owners to fashion a suite of road modifications to lessen the impact to the neighborhood. MCSD and the project sponsors have participated in these discussions and the proposed measures have become part of the project.

The Mad River Floodplain and Public Access Enhancement Project is consistent with the McKinleyville Area Plan (MCAP) and the Humboldt County Zoning Code (HCC) for the following reasons: 1) fish and wildlife habitat restoration and public access facilities are principally permitted and compatible uses in the Natural Resource (NR) land use designation and zone, and are conditionally permitted uses in Agriculture Exclusive Zone and AEP land use designation, 2) the proposed development complies with all development standards of the zone, and 3) the proposed development, with inclusion of road modifications, will not have adverse impacts on the neighborhood or the environment. A consolidated Coastal Development Permit was processed by the California Coastal Commission.

Based upon the on-site inspection, a review of Planning Division reference sources, and comments from all responding referral agencies, planning staff believes that the applicant has submitted evidence in support of making all of the required findings for approving the Conditional Use Permit.

This is a two-year extension and, if granted, the extension will expire on December 8, 2023.

All responding referral agencies have recommended approval of the project. It is staff's opinion having reviewed the application and supporting evidence that **the findings and conditions of the project, effective December 8, 2020, have not changed significantly based on the following staff analysis and are applicable to the proposed extension because:**

1. The proposed use is consistent with Agriculture Exclusive/Prime Lands (AEP), Density: 20 to 60 acres per dwelling unit; Natural Resources (NR); McKinleyville Area Plan (MCAP), 2017 General Plan land use designation, for which the original project was evaluated, and has not changed;

2. The proposed use is consistent with the zoning designations Agricultural Exclusive: 60 acres minimum (AE-60), Flood Hazard Area (F), Streams and Riparian Corridor Protection (R), Natural Resources (NR), for which the original project was evaluated, and has not changed;
3. The applicable development standards, for which the original project was evaluated, have not changed.
4. All other standards and requirements to which the project is subject, and as administered by other departments or agencies have not changed; and
5. The Planning Commission found the proposed project is consistent with Section 15096 (Process for a Responsible Agency) of the CEQA Guidelines, that all significant environmental impacts have been addressed in the MND for the project, and that no new changes or alterations have been made that require additional environmental review, and make all of the required findings for approval of the Conditional Use Permit based on evidence in the staff report and any public testimony, and adopt the Resolution approving the proposed McKinleyville Community Services District Mad River Floodplain and Public Access Enhancement Project Conditional Use Permit subject to the recommended conditions.

Staff Recommendations: Planning staff believes that the applicant has submitted evidence in support of making all of the required findings for approving the Conditional Use Permit Extension.

Alternatives: Several alternatives may be considered: 1) The Planning Commission could elect to add or delete conditions of approval. 2) The Planning Commission could deny approval of the requested permits if you are unable to make all of the required findings. Planning Division staff is confident that the required findings can be made based on the submitted evidence and subject to the recommended conditions of approval. Consequently, planning staff does not recommend further consideration of these alternatives.

Note: The original staff report and supporting documentation, including environmental review documents, are on file with the Planning Division and available for public inspection.

**RESOLUTION OF THE PLANNING COMMISSION
OF THE COUNTY OF HUMBOLDT
Resolution Number 22-
Case Number PLN-2021-17477
Assessor's Parcel Numbers:
506-341-017, 508-021-006, 508-021-007, and County road rights-of-ways**

Makes the required findings for certifying compliance with the California Environmental Quality Act and conditionally approves the McKinleyville Community Services District Mad River Floodplain and Public Access Enhancement Conditional Use Permit Extension.

WHEREAS, GHD on behalf of McKinleyville Community Services District submitted an application and evidence in support of approving the Conditional Use Permit (CUP) extension for floodplain habitat restoration, public access, and associated facilities; and

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

WHEREAS, the County Planning Division has reviewed the submitted application and evidence for conformance with general plan policy and the goals and regulations of the zoning ordinance; and

WHEREAS, pursuant to Section 15096 (Process for a Responsible Agency) of the California Environmental Quality Act (CEQA) Guidelines, Humboldt County Planning and Building Department, as the CEQA Responsible Agency, is obligated to make a CEQA determination regarding the activity that is proposed to be undertaken, and found that the IS/MND is adequate; and

WHEREAS, the Planning Division staff report includes evidence in support of making all of the required findings for the Conditional Use Permit Extension (PLN-2021-17477) (which is extending PLN-2019-15879 approved November 19, 2020); and

WHEREAS, a public hearing was held on the matter before the Humboldt County Planning Commission on February 03, 2022.

NOW, THEREFORE, be it resolved, determined, and ordered by the Planning Commission that:

1. As Lead Agency under CEQA (California Environmental Quality Act) *McKinleyville Community Services District* filed a notice of completion for a Mitigated Negative Declaration for the Mad River Floodplain and Public Access Enhancement Project (SCH #2020039047).

Pursuant to Section 15096 (Process for a Responsible Agency) of the CEQA Guidelines, Humboldt County Planning and Building Department, as the CEQA Responsible Agency, is obligated to make a CEQA determination regarding the activity that is proposed to be undertaken. MCSD is the lead agency under CEQA. GHD on behalf of MCSD prepared an Initial Study/Mitigated Negative Declaration (IS/MND) (SCH #2020039047). The County determined through Planning Commission Resolution 20-75 that the IS/MND has adequately identified and reduced environmental effects to less than significant and that no further environmental review is required.

No new information or changes to the project or the circumstances under which the project is to be undertaken have become available necessitating the preparation of a subsequent MND pursuant to Section 15162 of the State CEQA Guidelines; and

2. The Planning Commission makes the findings in H.C.C. [§312-11.3] for approval based on the submitted evidence; and

DECISION

NOW, THEREFORE, based on the above findings and evidence, the Humboldt County Planning Commission does hereby:

- Adopt the findings set forth in this resolution; and
- Conditionally approves the McKinleyville Community Services District Mad River Floodplain and Public Access Enhancement Conditional Use Permit extension based upon the Findings and Evidence and subject to the conditions of approval attached hereto as Attachment 1 and incorporated herein by reference; and

Adopted after review and consideration of all the evidence on February 03, 2022

The motion was made by COMMISSIONER _____ and second by COMMISSIONER _____ and the following ROLL CALL vote:

AYES: COMMISSIONERS:
 NOES: COMMISSIONERS:
 ABSENT: COMMISSIONERS:
 ABSTAIN: COMMISSIONERS:
 DECISION:

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

 John Ford, Director
 Planning and Building Department

ATTACHMENT 1
ORIGINAL CONDITIONS OF APPROVAL
(As approved by the Planning Commission on 11-19-2020)

Approval of the Conditional Use Permit extension is conditioned upon the following terms and requirements which must be fulfilled before the project is initiated.

1. All development shall be in accordance with the approved plot plan and project description. Changes to the approved design may be approved if in conformance with Section 312-11, Minor Deviations.

2. The applicant shall comply with all recommendations from the Department of Public Works, as stated on referral comments received on December 3, 2019, or current public works standards, including but not limited to:

a. Applicant must apply for and obtain an encroachment permit from the Department of Public Works to allow staging within School Road (C3H200), a paved county-maintained road [reference: County Code section 411-11 (a)(b)].

b. Applicant is responsible for providing all trail connection features within the public road right of way, to current accessibility standards.

3. The applicant shall continue to coordinate with the Wiyot area tribes to develop interpretive signs highlighting Wiyot history and culture to be placed at the project site.

4. The applicant must satisfy all requirements of the Building Department prior to any ground disturbing activity. Development outside of the public right of way may be subject to building permit requirements.

5. The applicant shall secure a Coastal Development Permit from the California Coastal Commission.

Ongoing Requirements/Development Restrictions which Must be Satisfied for the Life of the Project:

1. The project shall be developed, conducted and maintained in accordance with the project description and approved project site plan.

2. The project shall adhere to Best Management Practices for erosion control. Development and construction shall minimize cut-and-fill operations and erosion and sedimentation potential through construction of temporary and permanent sediment basins, seeding or planting bare soil, diversion of runoff away from the grading areas and areas heavily used during construction, and, when feasible, avoidance of grading during the rainy season (November through April).

Informational Notes:

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

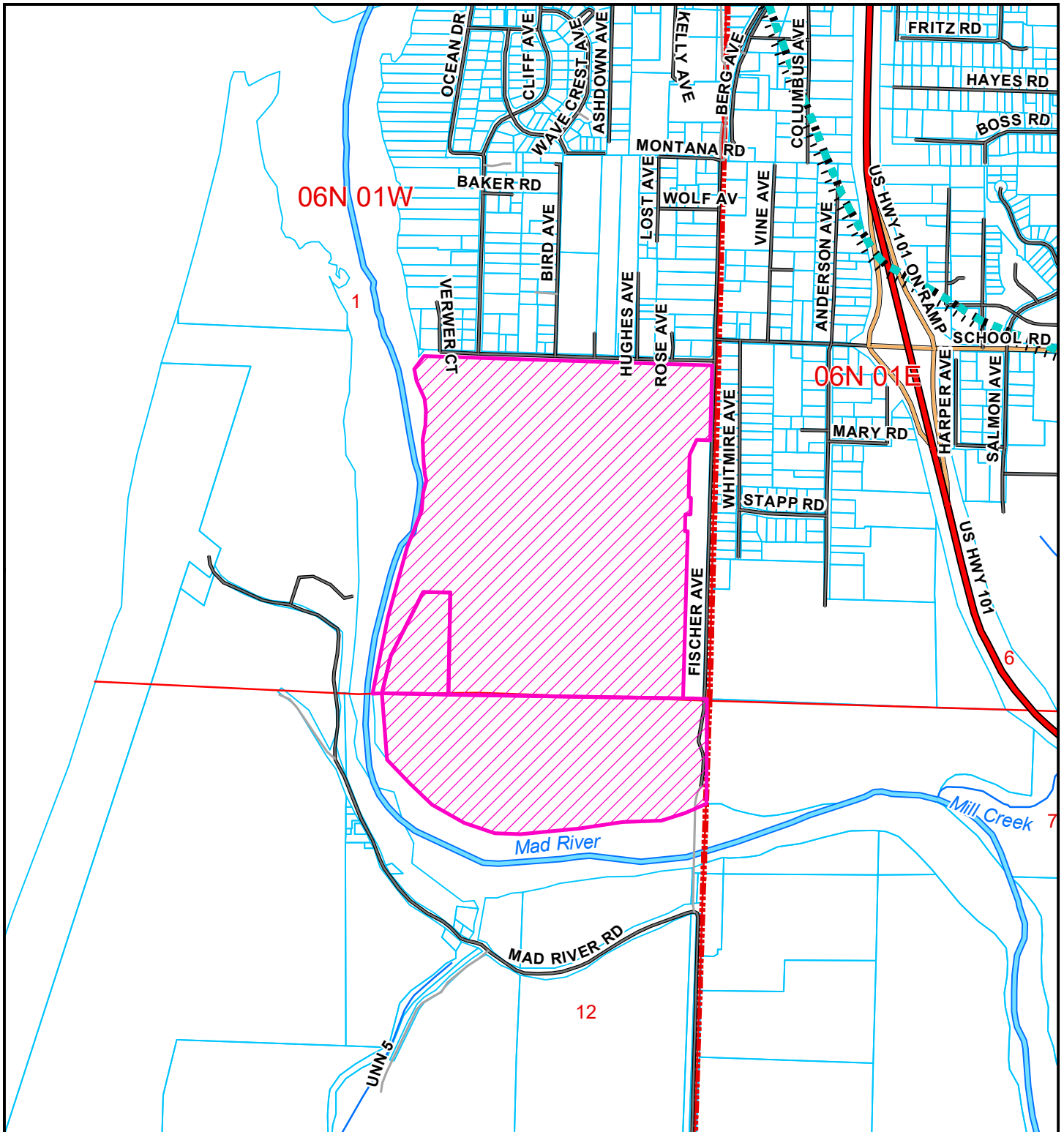
The Native American Heritage Commission (NAHC) can provide information regarding the appropriate Tribal point(s) of contact for a specific area; the NAHC can be reached at 916-653-4082. Prehistoric materials may include obsidian or chert flakes, tools, locally darkened midden soils, ground stone artifacts, shellfish or faunal remains, and human burials. If human remains are

found, California Health and Safety Code 7050.5 requires that the County Coroner be contacted immediately at 707-445-7242. If the Coroner determines the remains to PLN-2019-15879 McKinleyville CSD November 19, 2020 be Native American, the NAHC will then be contacted by the Coroner to determine appropriate treatment of the remains pursuant to PRC 5097.98. Violators shall be prosecuted in accordance with PRC Section 5097.99.

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

2. The applicant is responsible for receiving all necessary permits and/or approvals from other state and local agencies.
3. During construction, roadways shall be periodically cleaned of mud, soil, rock, and debris.
4. No construction materials or debris shall be placed within the County road right of way during the project, unless permitted thru an encroachment permit.
5. This permit shall expire and become null and void at the expiration of one (1) year after all appeal periods have lapsed (see "Effective Date"); except where construction under a valid building permit or use in reliance on the permit has commenced prior to such anniversary date. The period within which construction or use must be commenced may be extended as provided by Section 312-11.3 of the Humboldt County Code.
6. The applicant is required to pay for permit processing on a time and material basis as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors. The Department will provide a bill to the applicant after the decision. Any and all outstanding Planning fees to cover the processing of the application to decision by the Hearing Officer shall be paid to the Humboldt County Planning Division, 3015 "H" Street, Eureka.

**ATTACHMENT 2
MAPS AND APPROVED PROJECT SITE PLAN**



LOCATION MAP

**PROPOSED MCKINLEYVILLE CSD
CONDITIONAL USE PERMIT &
COASTAL DEVELOPMENT PERMIT
MCKINLEYVILLE AREA**

PLN-2019-15879

APN: 508-021-006 et al


T06N R01E S01 HB&M (Tye City)

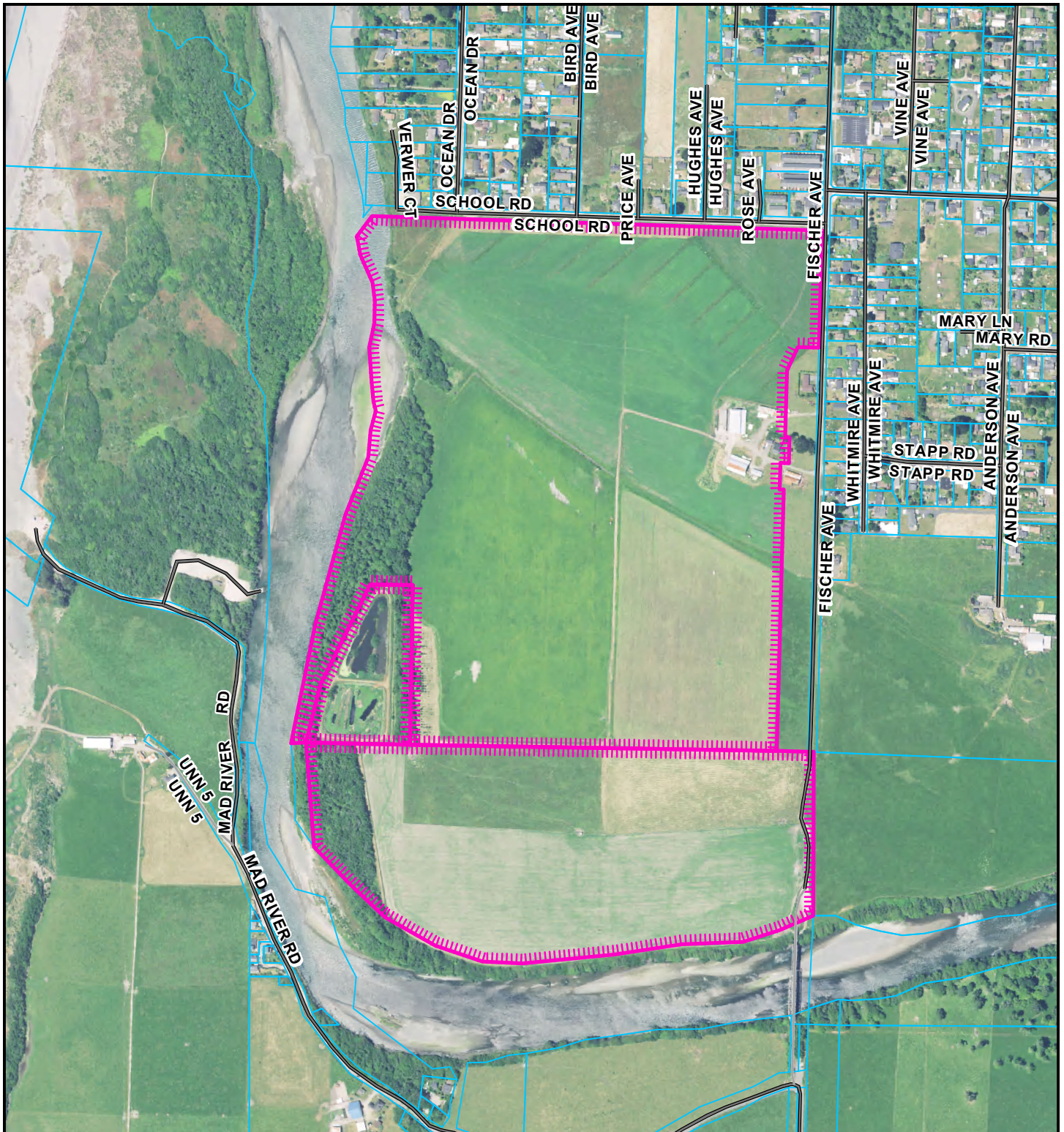
Project Area = 

Coastal Zone Boundary 

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



0 300 600 900 1,200
 Feet

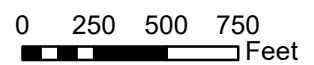


AERIAL MAP

**PROPOSED MCKINLEYVILLE CSD
 CONDITIONAL USE PERMIT &
 COASTAL DEVELOPMENT PERMIT
 MCKINLEYVILLE AREA
 PLN-2019-15879
 APN: 508-021-006 et al
 T06N R01E S01 HB&M (Tye City)**

Project Area = 

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

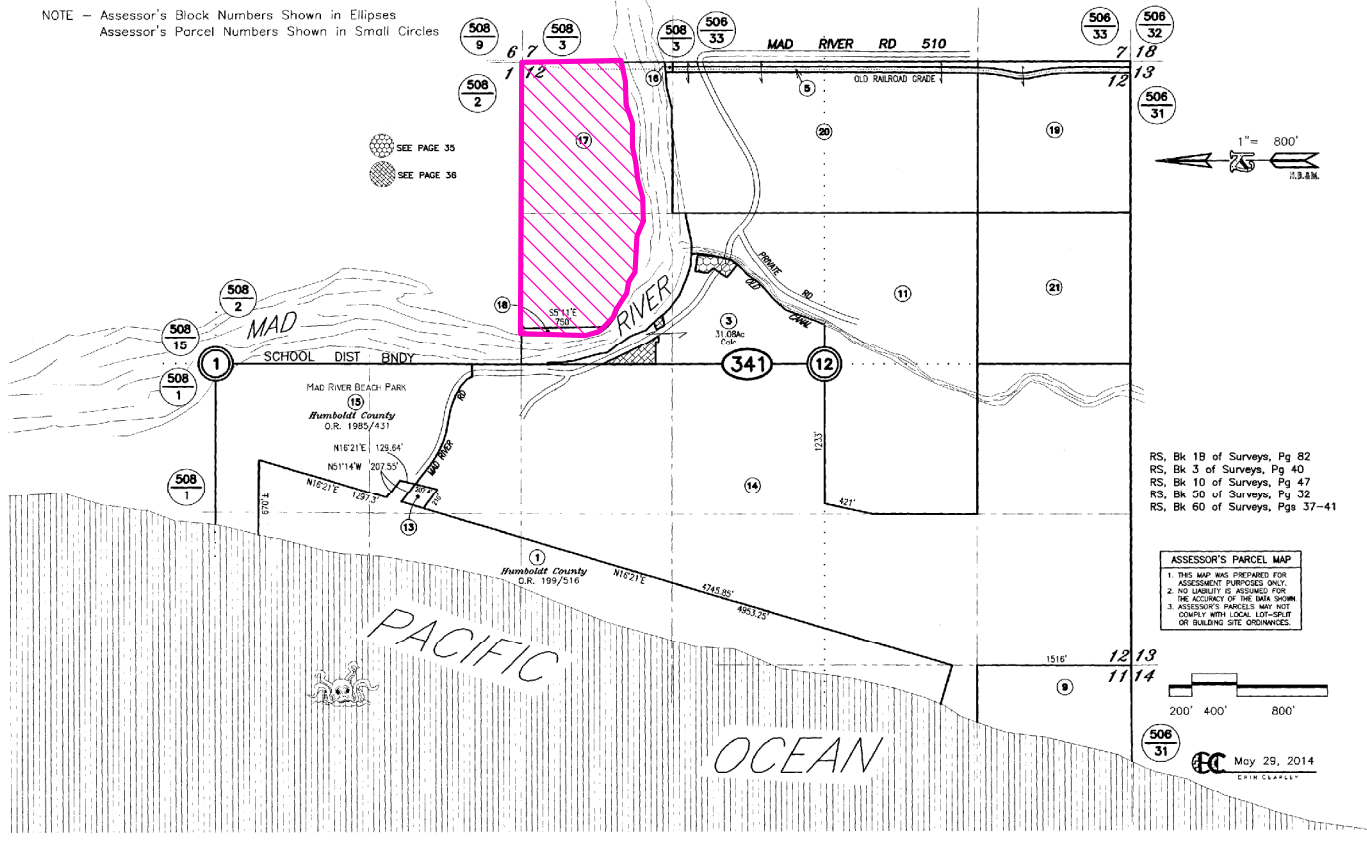


Assessor's Map Bk. 506, Pg. 34
County of Humboldt, CA.

PTNS SEC 1,11 & 12 T6N R1W H.B.& M.

506-34

NOTE - Assessor's Block Numbers Shown in Ellipses
Assessor's Parcel Numbers Shown in Small Circles



ASSESSOR PARCEL MAP

**PROPOSED MCKINLEYVILLE CSD
CONDITIONAL USE PERMIT &
COASTAL DEVELOPMENT PERMIT
MCKINLEYVILLE AREA**

PLN-2019-15879

APN: 506-341-017

T06N R01E S01 HB&M (Tye City)

Project Area = 

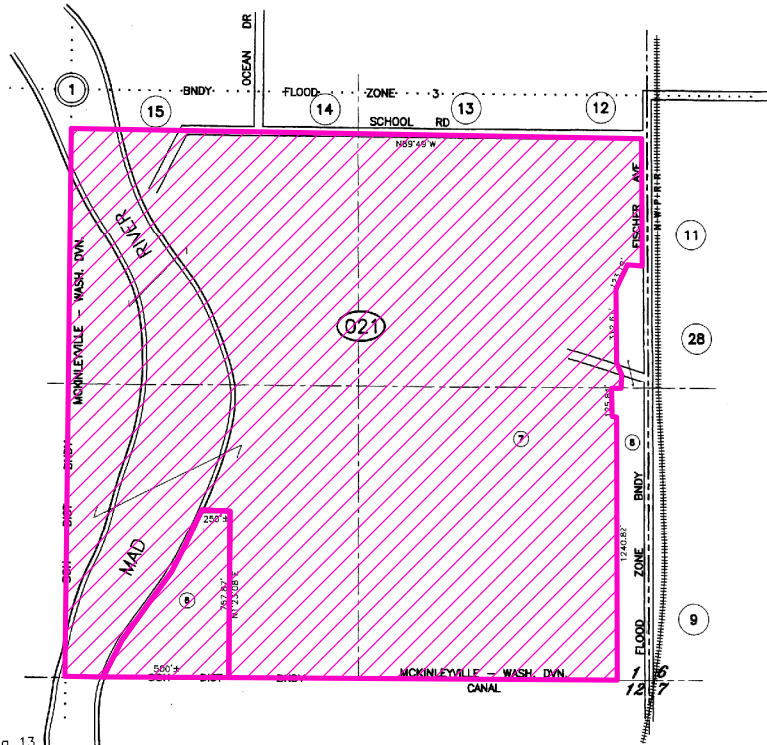
This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.



MAP NOT TO SCALE

PTN SE1/4 SEC 1 T6N R1W H.B.& M.

508-02

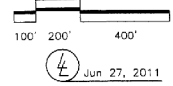


RM, Bk 12 of MAPS, Pg 13
 RS, Bk 1B of surveys, Pg 75
 RS, Bk 11 of surveys, Pg 162
 RS, Bk 12 of surveys, Pg 42
 RS, Bk 13 of surveys, Pg 123

ASSESSOR'S PARCEL MAP
 1. THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY.
 2. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN.
 3. ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES.

NOTE - Assessor's Block Numbers Shown in Ellipses
 Assessor's Parcel Numbers Shown in Circles.

Assessor's Map Bk.508, Pg.02
 County of Humboldt, CA.



ASSESSOR PARCEL MAP

**PROPOSED MCKINLEYVILLE CSD
 CONDITIONAL USE PERMIT &
 COASTAL DEVELOPMENT PERMIT
 MCKINLEYVILLE AREA**

PLN-2019-15879

APN: 508-021-006 & 508-021-007

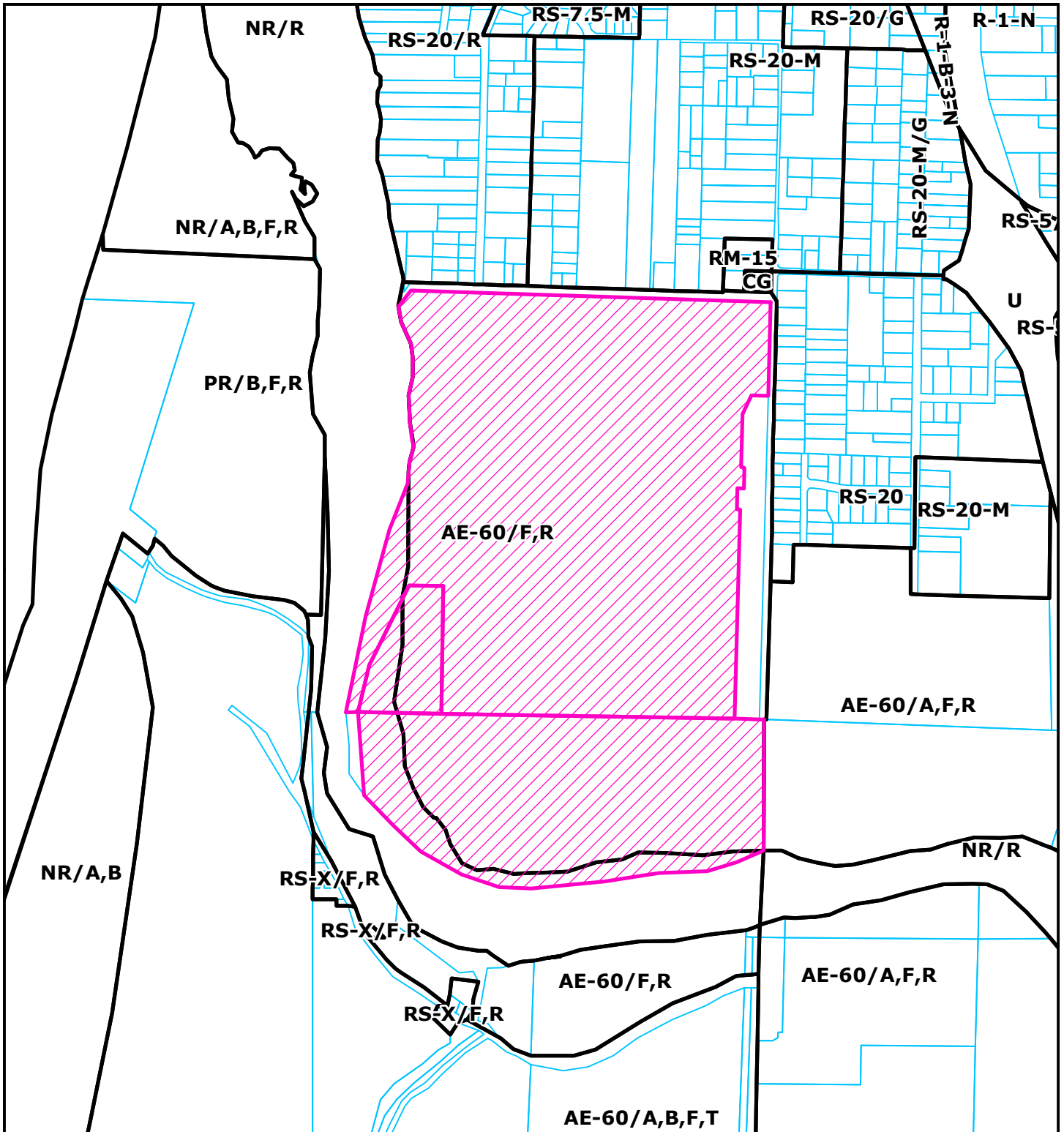
T06N R01E S01 HB&M (Tye City)

Project Area =

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



MAP NOT TO SCALE




ZONING MAP

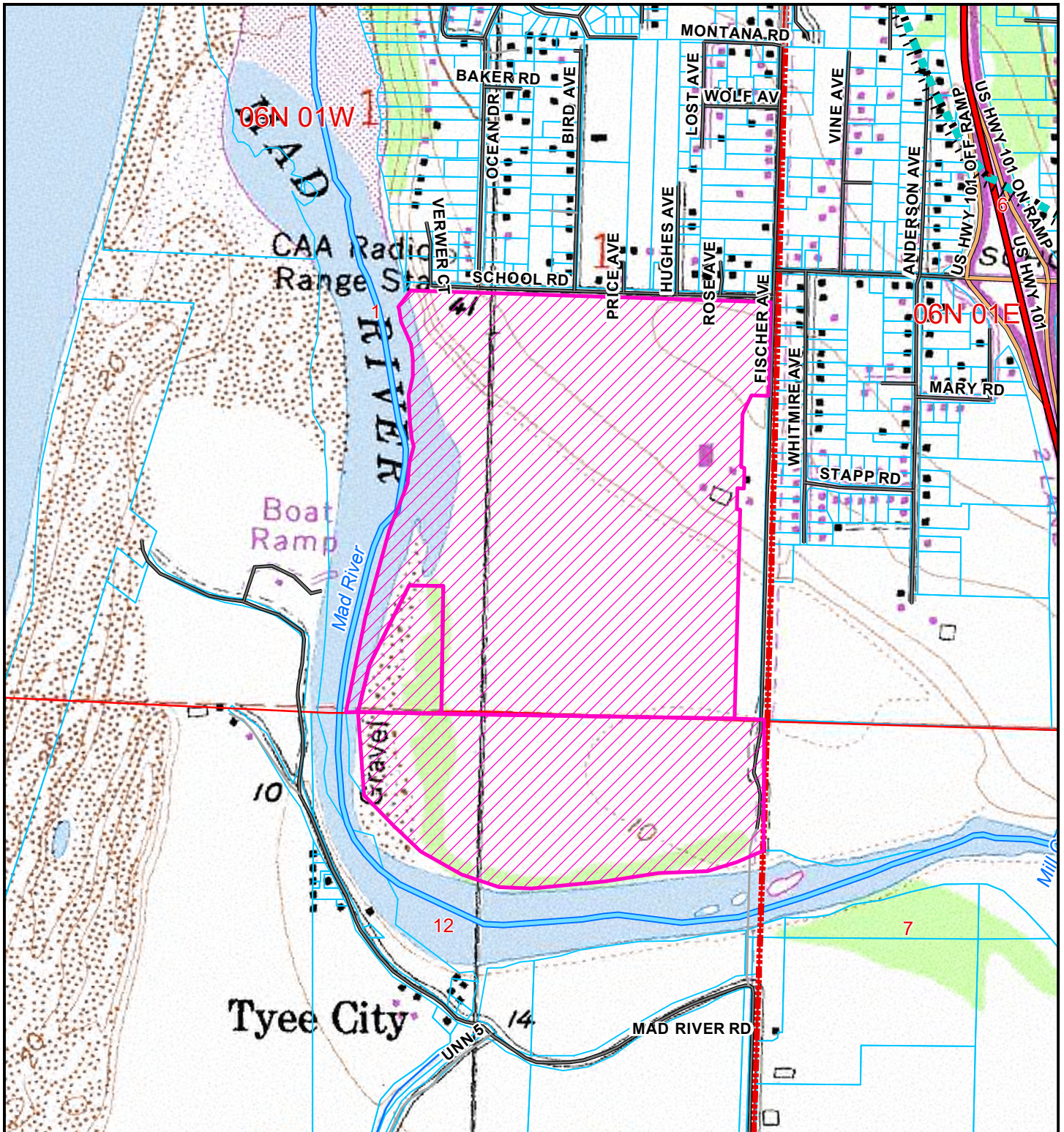
**PROPOSED MCKINLEYVILLE CSD
 CONDITIONAL USE PERMIT &
 COASTAL DEVELOPMENT PERMIT
 MCKINLEYVILLE AREA
 PLN-2019-15879
 APN: 508-021-006 et al
 T06N R01E S01 HB&M (Tye City)**

Project Area = 

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



0 250 500 750 1,000
 Feet



TOPO MAP

**PROPOSED MCKINLEYVILLE CSD
CONDITIONAL USE PERMIT &
COASTAL DEVELOPMENT PERMIT
MCKINLEYVILLE AREA**

PLN-2019-15879

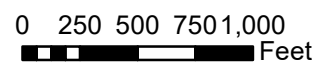
APN: 508-021-006 et al

T06N R01E S01 HB&M (Tyee City)

Project Area = 

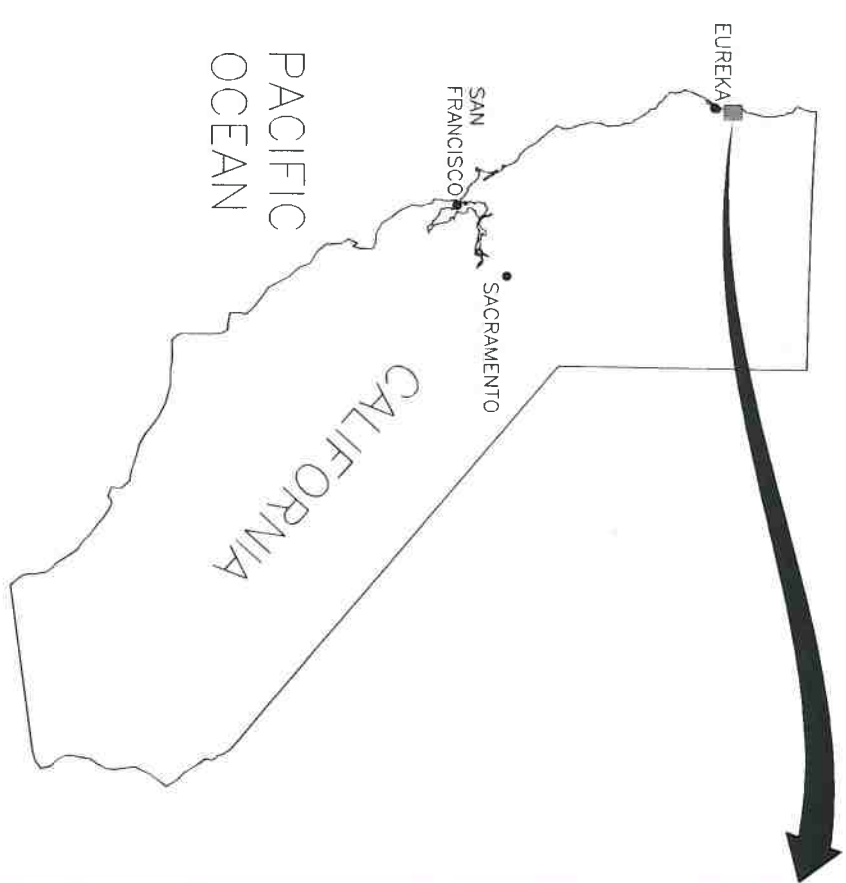
Coastal Zone Boundary 

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



RECEIVED
 OCT - 3 2019
 Humboldt County
 Building Division

MAD RIVER ESTUARY RESTORATION: OFF-CHANNEL HABITAT DESIGNS HUMBOLDT COUNTY, CALIFORNIA



SHEET INDEX

SHEET	DESCRIPTION
G1	COVER SHEET
G2	NOTES
G1	SITE PLAN
G2	DEMOLITION PLAN
G3	GRADING PLAN & PROFILE: STATIONS 12+00 TO 24+00
G4	GRADING PLAN & PROFILE: STATIONS 0+00 TO 12+00
G5	GRADING SECTIONS & TRIBUTARY PROFILES
G6	DESIGN DETAILS



<p>Northern Hydrology & Engineering Engineering - Hydrology - Geomorphology - Water Resources</p>	DESIGNED JRP	SUB SHEET NO. G1	SHEET 1 OF 8
	PO BOX 2515, MCKINLEVILLE, CA 95519 (707) 839-2195 DATE: 2/15/2018		

GENERAL NOTES

- 1 THE LAND OWNERS IS THE MCKINLEYVILLE COMMUNITY SERVICES DISTRICT. LAND OWNER CONTACT INFORMATION:
GREG ORSINI, GENERAL MANAGER
MCKINLEYVILLE COMMUNITY SERVICES DISTRICT
P.O. BOX 2017
MCKINLEYVILLE, CA 95519
(707) 838-3251
- 2 THE PROJECT ENGINEER INFORMATION:
J. ROSE PATENALDO, P.E.
NORTHERN HYDROLOGY & ENGINEERING
P.O. BOX 2315
MCKINLEYVILLE, CA 95519
(707) 838-7185
- 3 THESE PLANS REPRESENT THE WORK TO BE PERFORMED FOR THE MAD RIVER ESTUARY RESTORATION & OFF-CHANNEL HABITAT PROJECT.
- 4 ALL IMPROVEMENTS SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION AND TO THE SATISFACTION OF THE OWNER OR OWNERS REPRESENTATIVE AND PROJECT ENGINEER. ALL OF THE CONSTRUCTION IMPROVEMENTS SHALL COMPLY WITH THESE PLANS, SPECIFICATIONS AND NOTES.
- 5 SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER RESPONSIBLE FOR THE PLAN PREPARATION BEFORE CONDUCTING WORK ON THAT PORTION OF THE PROJECT.
- 6 IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY UNDERGROUND SEARCH ALERT (USA) PRIOR TO THE COMMENCEMENT OF WORK TO VERIFY THE LOCATION OF UNDERGROUND UTILITIES WITHIN THE PROJECT AREA.
- 7 THE LOCATION OF ANY UTILITIES SHOWN ON THESE PLANS IS APPROXIMATE AND FOR INFORMATION ONLY. THE LOCATION, TYPE, SIZE AND/OR DEPTH INDICATED WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION, TYPE, SIZE AND/OR DEPTH PRIOR TO PERFORMING ANY EXCAVATION OR OTHER WORK CLOSE TO ANY UNDERGROUND PIPELINE, CONDUIT, DUCTS, WIRE, STRUCTURE OR OTHER UTILITIES SUBJECT TO CONCERNS FOR SAFETY, DISPLACEMENT, AND/OR DAMAGE BY REASONS OF THEIR OPERATIONS.
- 8 CONSTRUCTION HOURS SHALL BE MONDAY THROUGH SATURDAY BETWEEN 7:00 A.M. AND 7:00 P.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM THE CONSULTANT TEAM.
- 9 THE CONTRACTOR SHALL AGREE TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND PARTNER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS IN ACCORDANCE WITH THE PROVISIONS OUTLINED BY THE PROJECT CONTRACT.
- 10 IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND HIS/HER SUBCONTRACTOR(S) TO EXAMINE THE PROJECT SITE PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, SUCH AS THE NATURE OF THE LOCATION OR THE DESIGN OF THE GENERAL AND LOCAL TRANSPORTATION, ACCESS TO AND FROM THE SITE, THE DISPOSAL, HANDLING AND STORAGE OF MATERIALS, AVAILABILITY OF LABOR, WATER, ELECTRICITY, ROADS, THE UNCERTAINTIES OF WEATHER, THE CONDITIONS OF THE GROUND SURFACE AND SUBSURFACE MATERIALS, THE EQUIPMENT AND FACILITIES NEEDED PRIMARILY FOR AND DURING THE PERFORMANCE OF THE WORK, AND THE COSTS THEREOF. ANY FAILURE BY THE CONTRACTOR AND SUBCONTRACTOR(S) TO ACQUAINT HIMSELF WITH ALL THE AVAILABLE INFORMATION, WILL NOT RELIEVE HIM FROM RESPONSIBILITY FOR PROPERLY ESTIMATING THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK.
- 11 THE CONTRACTOR SHALL MAINTAIN A SET OF PLANS ON THE JOB SHOWING AS-CONSTRUCTED CHANGES MADE TO DATE. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUPPLY TO THE OWNER OWNERS REPRESENTATIVE OR PROJECT ENGINEER A SET OF PLANS MARKED UP TO THE SATISFACTION OF THE CONSULTANT TEAM, REFLECTING THE AS-CONSTRUCTED MODIFICATIONS.
- 12 ALL REVISIONS TO THESE PLANS MUST BE MADE BY THE PROJECT ENGINEER RESPONSIBLE FOR THE PLAN PREPARATION, AND SHALL ACCURATELY BE SHOWN ON REVISED PLANS.
- 13 COPIES OF ALL ENVIRONMENTAL PERMITS WILL BE PROVIDED TO THE CONTRACTOR AND MUST BE KEPT ON-SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN AT HIS/HER OWN EXPENSE ALL PERMITS, LICENSES, INSURANCE POLICIES, ETC., NOT ALREADY OBTAINED BY THE CONSULTANT TEAM, AS MAY BE NECESSARY TO COMPLY WITH STATE AND LOCAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK. CONTRACTOR IS RESPONSIBLE FOR OBTAINING INITIAL PERMITS.
- 14 UNLESS NOTED OTHERWISE ON THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS IDENTIFIED IN THESE PLANS.
- 15 THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PLOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE CONSTRUCTION AREA AND FOR PUBLIC SAFETY. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDEWAYS AND CHAPTER 5 OF THE STATE TRAFFIC MANUAL, MANUAL OF TRAFFIC CONTROL, S.
- 16 THE CONTRACTOR SHALL USE ONLY DESIGNATED SPECIFIC SIZES FOR STORAGE OF EQUIPMENT AND MATERIALS AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS AT ALL TIMES. THE CONTRACTOR UNDERWRITE TO CLOSE OFF ANY EXISTING UTILITY LINES OR OPEN VALVES OR TAKE ANY OTHER ACTION WHICH WOULD AFFECT THE OPERATION OF EXISTING WATER OR UTILITY SYSTEMS WITHOUT PRIOR WRITTEN PERMISSION OF THE OWNER OR OWNERS REPRESENTATIVE. SHALL BE RESPONSIBLE TO TEST AND INSURE THE INTERPRETATION OF THE EXISTING SYSTEMS IS REQUIRED. ANY INTERRUPTION OF SERVICE TO UTILITY SERVICES, WHETHER INTENTIONAL OR NOT, MUST BE KEPT TO A MINIMUM TIME PERIOD.
- 18 THE OWNER OWNERS REPRESENTATIVE OR PROJECT ENGINEER WILL FURNISH THE CONSTRUCTION STAKING TO THE CONTRACTOR.
- 19 ALL CONTROL STATIONING AND DATA DIMENSIONING ARE REFERENCED TO THE CENTERLINE OF THE DESIGN CHANNEL, UNLESS OTHERWISE NOTED.
- 20 THE CONTRACTOR SHALL PREPARE AND PROTECT ALL EXISTING UTILITIES AND IMPROVEMENTS WITHIN AND OUTSIDE THE LIMITS OF THE PROJECT AREA.
- 21 EQUIPMENT EXCLUSION AREAS SHALL BE CLEARLY FLAGGED BY THE OWNER OR OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION TO SERVE AS A BUFFER FOR SENSITIVE SPECIES AND RESOURCES.
- 22 NO TREES OR WEEDS AND VEGETATION SHALL BE REMOVED UNLESS THEY ARE SHOWN AND NOTED TO BE REMOVED ON THE PLANS OR AS DIRECTLY SPECIFIED ON-SITE BY THE OWNER OR OWNERS REPRESENTATIVE.
- 23 IF DURING CONSTRUCTION, ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED, CONSTRUCTION IN THE VICINITY SHALL BE HALTED, AND THE OWNER OWNERS REPRESENTATIVE OR PROJECT ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- 24 THE CONTRACTOR SHALL COORDINATE THE WORK WITH OTHERS AT THE LIMITS OF THE CONSTRUCTION LINES SHOWN IN THESE PLANS.
- 25 EROSION CONTROL STRUCTURES SHALL CONTAIN AND CONTROL EROSION AND PROVIDE FOR THE SAFE DISCHARGE OF SILT-FREE RUNOFF FROM THE PROJECT SITE INTO RECEIVING WATER BODIES. SUITABLE SUPPLIES FOR MITIGATING SEDIMENT IMPACTS TO ON-SITE WATERWAYS SHALL BE MAINTAINED AT THE PROJECT SITE BY THE CONTRACTOR DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES AND STRUCTURES AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH THESE PLANS, THE STANDARD SPECIFICATIONS, LOCAL COUNTY AND STATE ORDINANCES, AND APPLICABLE PERMIT REQUIREMENTS. THE CONTRACTOR SHALL CONTACT THE OWNER OWNERS REPRESENTATIVE OR PROJECT ENGINEER PRIOR TO THE COMMENCEMENT OF WORK FOR A PRE-GRADING INSPECTION OF THE INSTALLED TEMPORARY EROSION CONTROL FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PERFORMANCE OF THE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT.
- 26 THE CONTRACTOR SHALL KEEP ALL AREAS GENERATING DUST WELL WATERED DURING THE TERM OF THIS CONTRACT. THIS INCLUDES, BUT IS NOT LIMITED TO, ACCESS YARDS, MOULD FILL AREAS AND ANY OTHER AREAS THAT MAY GENERATE DUST AS A RESULT OF THE CONTRACTORS OPERATIONS.
- 27 NONE OF THE NOTES OR CONSTRUCTION DRAWINGS SHALL PRECLUDE THE CONTRACTOR FROM SUBSTITUTION OF MATERIALS OR PROCEDURES NECESSARY TO COMPLETE THE PROJECT IN A TIMELY AND ECONOMIC MANNER. ANY SUBSTITUTION OR FORGONE INSPECTIONS WITHOUT THE EXPLICIT CONSENT OF THE OWNER OWNERS REPRESENTATIVE OR PROJECT ENGINEER BECOME THE RESPONSIBILITY OF THE CONTRACTOR. WHERE THE SPECIFICATIONS, NOTES OR CONSTRUCTION DRAWINGS ARE NOT CONSISTENT WITH LOCAL REGULATIONS, AN EXPLICIT RECONSIDERATION OF PLANS AND SPECIFICATIONS BY THE CONSULTANT TEAM IS REQUIRED PRIOR TO IMPLEMENTATION OF ANY CHANGES.

DISCLAIMERS

1 THE PROJECT ENGINEER RESPONSIBLE FOR PREPARATION OF THESE PLANS AND SPECIFICATIONS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PROJECT ENGINEER RESPONSIBLE FOR PREPARATION OF THESE PLANS.

TOPOGRAPHY NOTES

- 1 BEARING, DISTANCES AND COORDINATES FOR THESE PLANS ARE BASED ON THE CALIFORNIA STATE PLANE ZONE 1 NORTH AMERICAN DATUM OF 1983 (NAD83). US FOOT.
- 2 VERTICAL DISTANCE FOR THESE PLANS IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAV88), US FOOT.
- 3 TOPOGRAPHY FOR THESE PLANS WAS A COMBINATION OF:
2010 TOPOGRAPHY FOR THESE PLANS WAS A COMBINATION OF:
* 2008 CHANNEL CROSS-SECTIONS SURVEYED BY POINTS WEST SURVEYING AS PART OF THE HUMBOLDT COUNTY MAD RIVER BLUFF RESTORATION PROJECT
* 2013 RIVER BATHYMETRY MEASURED BY GRAMM WATTHENS & ASSOCIATES AFTER THE MAD RIVER BLUFF RESTORATION PROJECT WAS IMPLEMENTED
* ADDITIONAL TOPOGRAPHY WAS COLLECTED BY WHE WITH A SURVEYING TOTAL STATION UNDER THE SUPERVISION OF THE PROJECT ENGINEER
- 4 ALL CONTOURS ILLUSTRATED IN THESE PLANS ARE AT AN INTERVAL OF 10 FEET.

PROJECT TOTAL CUT/FILL VOLUMES AND AREAS

LOCATION	GRADING AREA (AQ)	CUT (CY)	FILL (CY)
POND TOP SOIL REMOVAL (TO BE SCREENED AND STOCK PILED)	2.87	4,800	4,800
LEVEE REMOVAL, POND (BELOW TOP SOIL) AND WETLANDS	3.92	11,100	2,700
NORTH AND SOUTH ROAD STRUCKERS	1.74	0	2,400
BACKWATER CHANNELS	1.28	7,700	0
TO BE HAULED OFF-SITE	N/A	0	13,700
PROJECT TOTAL	6.95	23,600	23,600

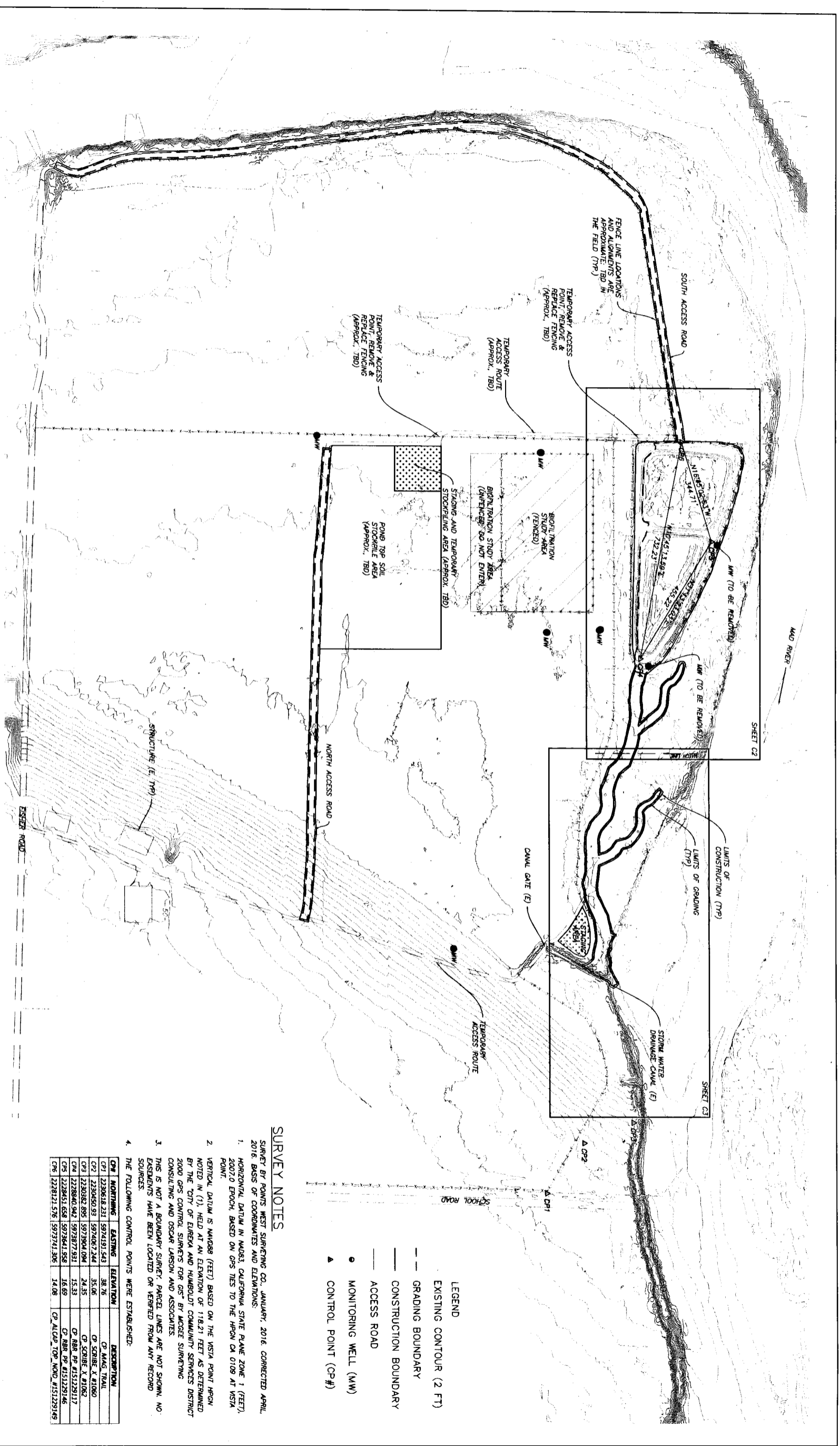


DESIGNED: RRP
DRAWN: JRP
CHECKED: JRP
DATE: 2/15/2018

SUB SHEET NO. G2

NOTES
MAD RIVER FLOODPLAIN RESTORATION
CALIFORNIA, MCS.D., CDFW, SCC

SHEET 2 OF 8

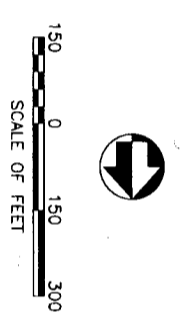


- LEGEND
- EXISTING CONTOUR (2 FT)
 - CONSTRUCTION BOUNDARY
 - ACCESS ROAD
 - MONITORING WELL (MW)
 - ▲ CONTROL POINT (CP#)

SURVEY NOTES

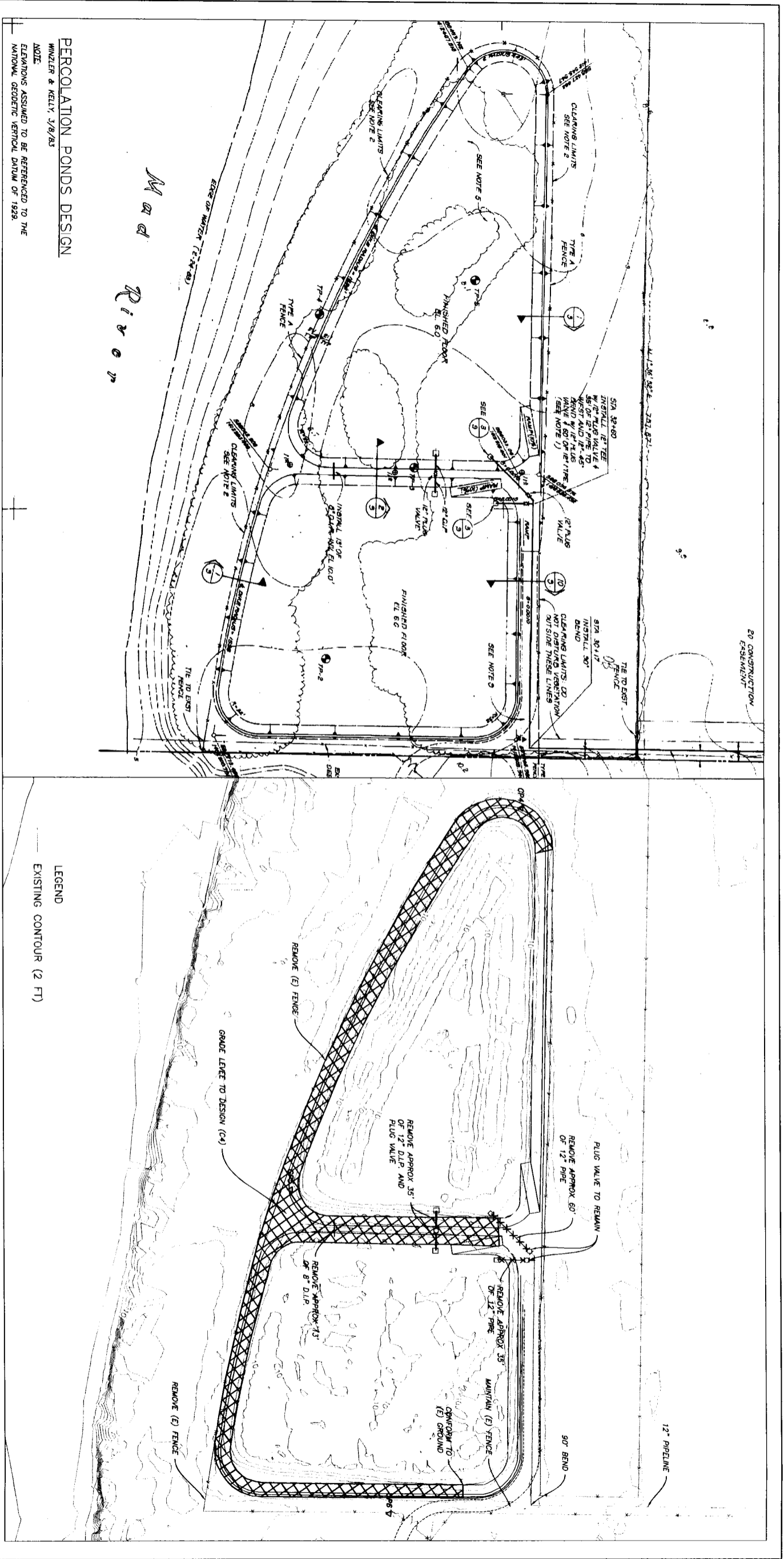
- SURVEY BY POINTS WEST SURVEYING CO., JANUARY, 2016, CORRECTED APRIL, 2016. BASIS OF COORDINATES AND ELEVATIONS:
- HORIZONTAL DATUM IN NAD83, CALIFORNIA STATE PLANE ZONE 1 (FEET), 2007.0 EPOCH, BASED ON GPS TIES TO THE HIGN CA 0109 AT VISTA POINT.
 - VERTICAL DATUM IS MANDAR (FEET) BASED ON THE VISTA POINT IPON. NOTED IN (1), HELD AT AN ELEVATION OF 118.21 FEET AS DETERMINED BY THE CITY OF EUREKA AND HUMBOLDT COMMUNITY SERVICES DISTRICT 2000 GPS CONTROL SURVEYS FOR GPS BY MOORE SURVEYING CONSULTING AND OSCAR LARSON AND ASSOCIATES.
 - THIS IS NOT A BOUNDARY SURVEY. PARCEL LINES ARE NOT SHOWN. NO EASEMENTS HAVE BEEN LOCATED OR VERIFIED FROM ANY RECORD SOURCES.
 - THE FOLLOWING CONTROL POINTS WERE ESTABLISHED:

CP#	MORNING	EASTING	ELEVATION	DESCRIPTION
CP1	1230618.231	5972491.543	38.26	CP MAG. TRAIL
CP2	1230650.93	5974087.244	35.06	CP SCRIE & #1080
CP3	1230982.895	5973904.094	24.45	CP SCRIE & #1082
CP4	1228840.942	5973877.931	15.33	CP RRR PP #151229117
CP5	1228451.658	5973841.958	16.69	CP RRR PP #151229146
CP6	1228121.576	5973741.306	14.08	CP ALDIP TOP MOND. #151229145



Northern Hydrology & Engineering

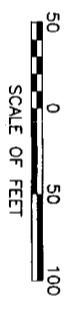
DESIGNED: JRP	SUB SHEET NO. C1	SITE PLAN OVERVIEW MAD RIVER FLOODPLAIN RESTORATION CALTROUT, MCSD, CDFW, SCC	SHEET 3 OF 8
DRAFTED: CEP, CP	TECH. REVIEW: JRP, JKA		
DATE: 2/6/2018			



PERCOLATION PONDS DESIGN

WINZLER & KELLY 3/8/83
 NOTE:
 ELEVATIONS ASSUMED TO BE REFERENCED TO THE
 NATIONAL GEODETIC VERTICAL DATUM OF 1929.

Mad River

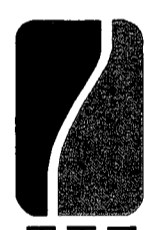
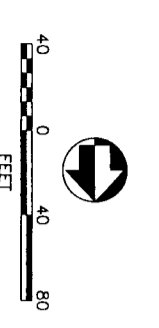
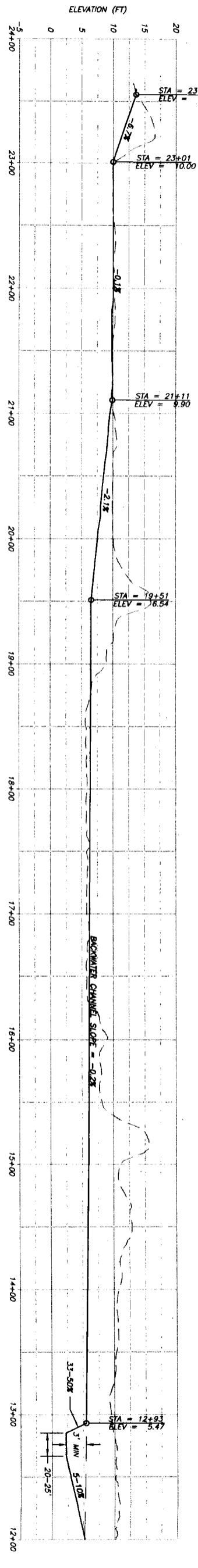
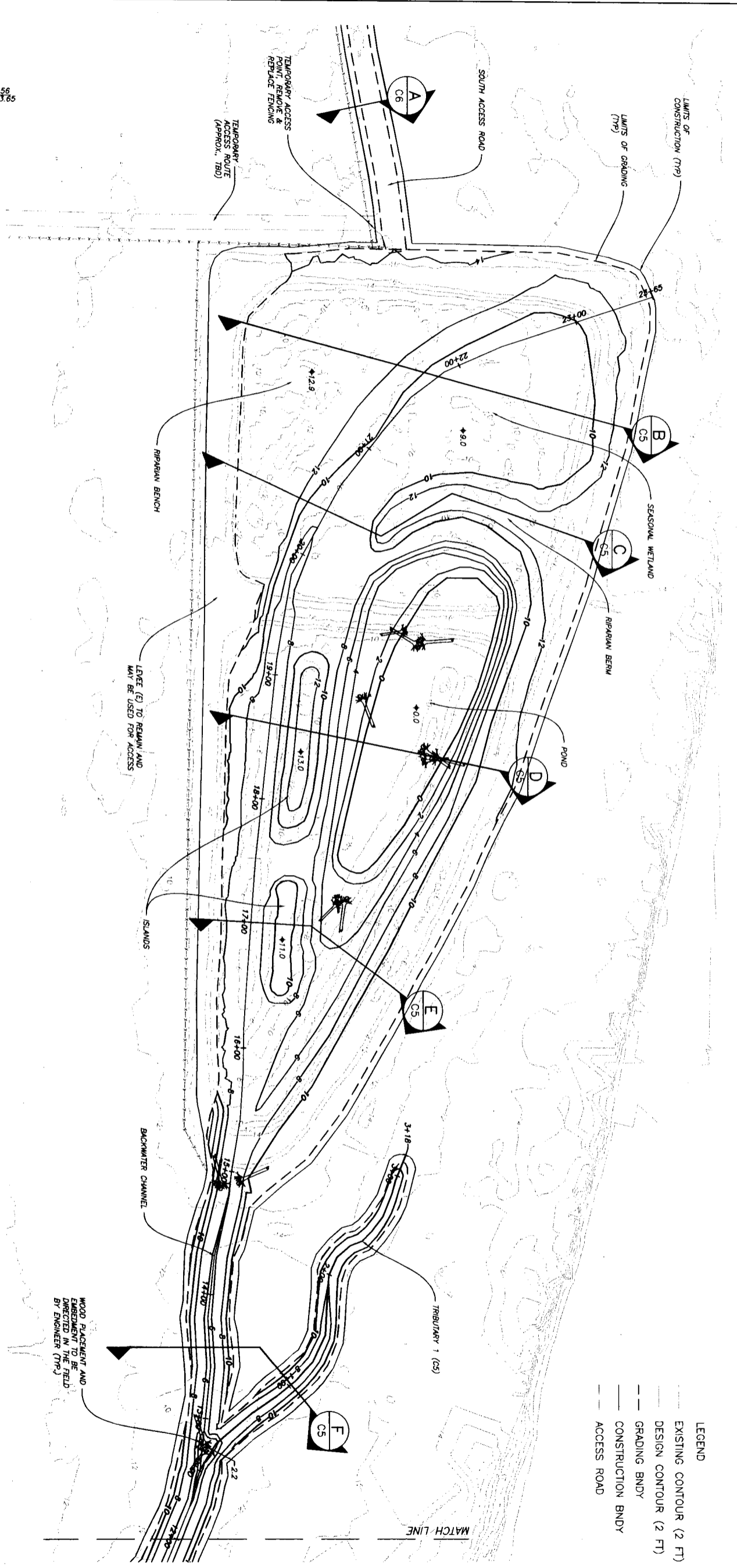


LEGEND
 --- EXISTING CONTOUR (2 FT)



**Northern
 Hydrology &
 Engineering**

DESIGNED: JRP	SUB SHEET NO. C2	DEMOLITION PLAN OVERVIEW MAD RIVER FLOODPLAIN RESTORATION CALTROUT, MCSD, CDFW, SCC	SHEET 4 OF 8
DRAFTED: CEP, CP, BD TECH. REVIEW: JRP, JKA DATE: 2/15/2018			



DESIGNED: JRP
 DRAWN: CEP, CP, BD
 TECH. REVIEW: JRP, JKA
 DATE: 2/6/2018

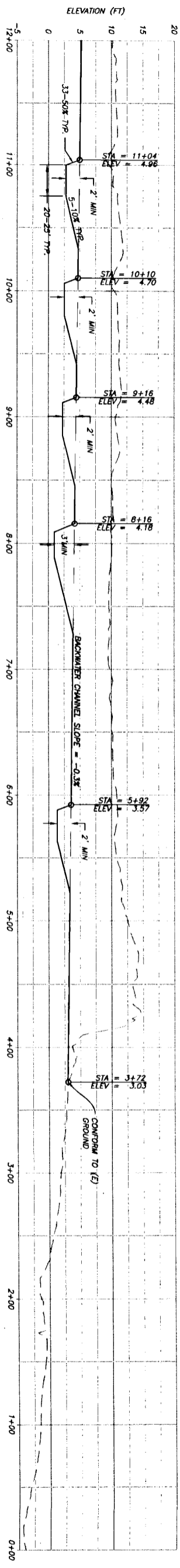
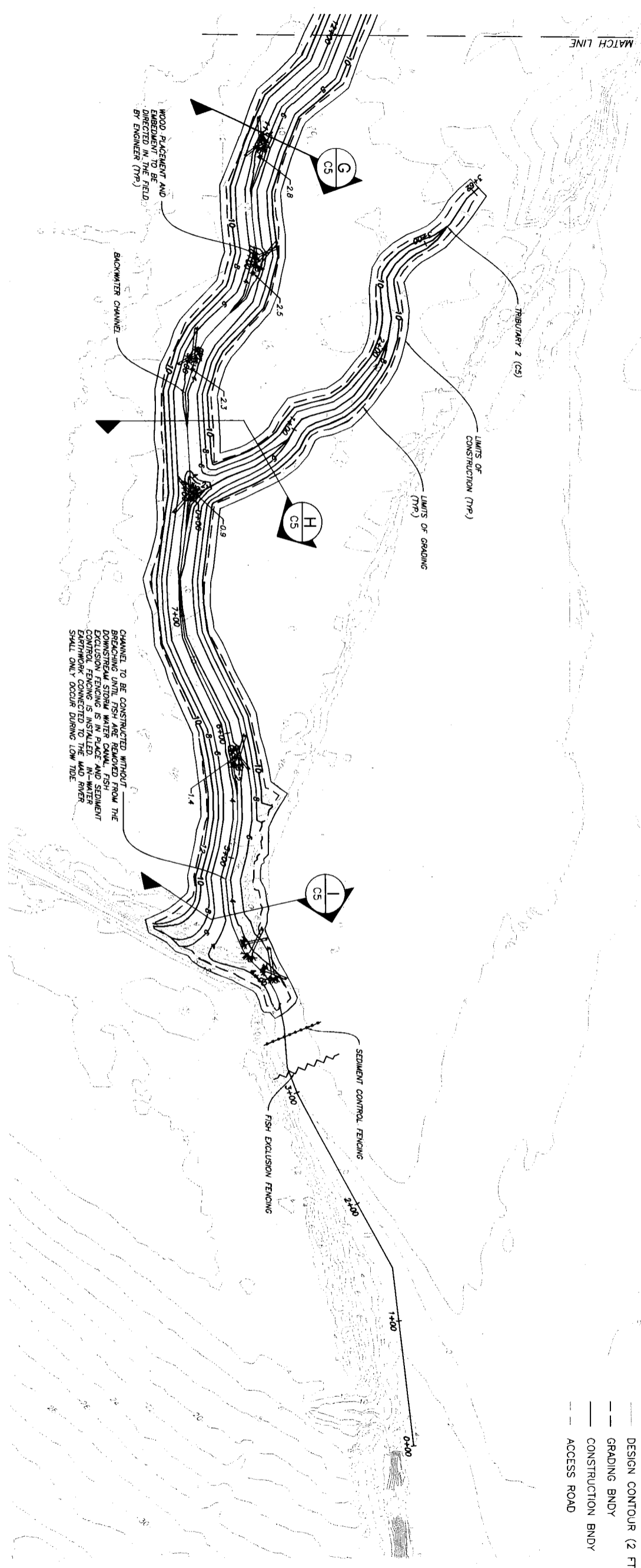
SUB SHEET NO. **C3**

GRADING PLAN AND PROFILE
 STATIONS 12+00 TO 24+00
 MAD RIVER FLOODPLAIN RESTORATION
 CALTROUT, MCSO, CDFW, SCC

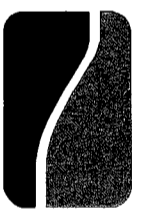
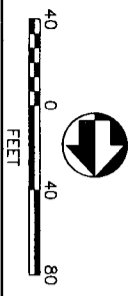
SHEET **5** OF **8**

- LEGEND**
- EXISTING CONTOUR (2 FT)
 - DESIGN CONTOUR (2 FT)
 - GRADING BNDY
 - CONSTRUCTION BNDY
 - ACCESS ROAD

- LEGEND
- EXISTING CONTOUR (2 FT)
 - DESIGN CONTOUR (2 FT)
 - GRADING BNDY
 - CONSTRUCTION BNDY
 - ACCESS ROAD



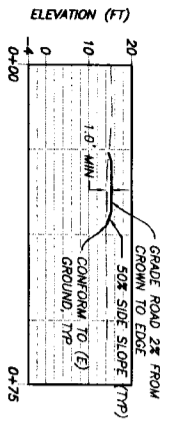
LONGITUDINAL PROFILE
SH-1V



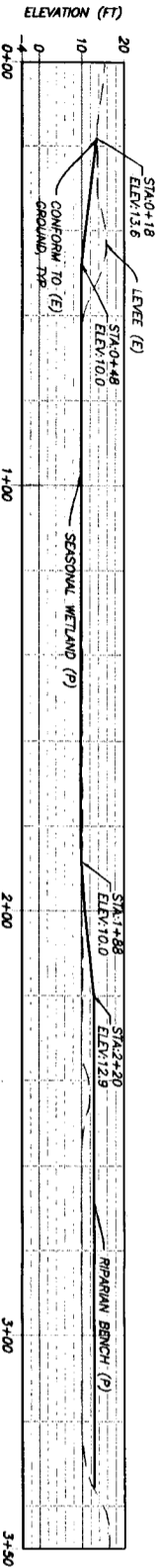
Northern Hydrology & Engineering

DESIGNED: RFP	SUB SHEET NO. C4
DRAWN: CEP, CP, BO	GRADING PLAN AND PROFILE STATIONS 0+00 TO 12+00 MAD RIVER FLOODPLAIN RESTORATION CALTROUT, MCSO, CDFW, SCC
TECH. REVIEW: RFP, JKA	
DATE: 2/6/2018	SHEET 6 OF 8

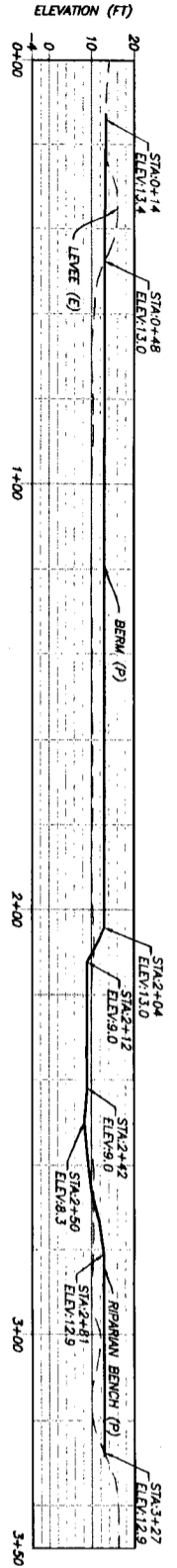
PLN-2021-17477 MCSO Extention



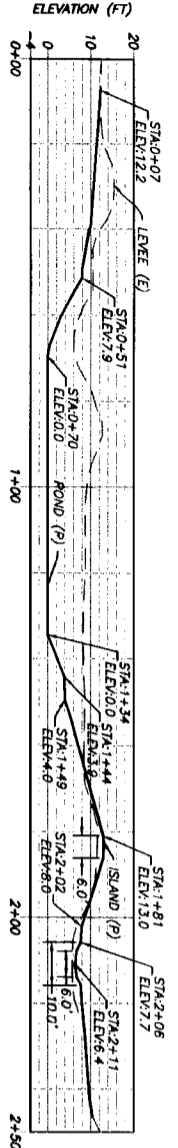
SECTION A
(TYPICAL ROAD CROSS-SECTION)
NOTE:
1. ROAD CONSTRUCTION DETAILS AND COMPACTION SPECIFICATIONS TO BE DESIGNED BY OTHERS.



SECTION B
(STATION 21+80)
C3

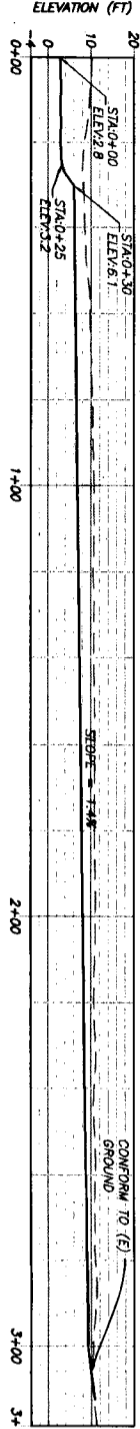


SECTION C
(STATION 20+40)
C3

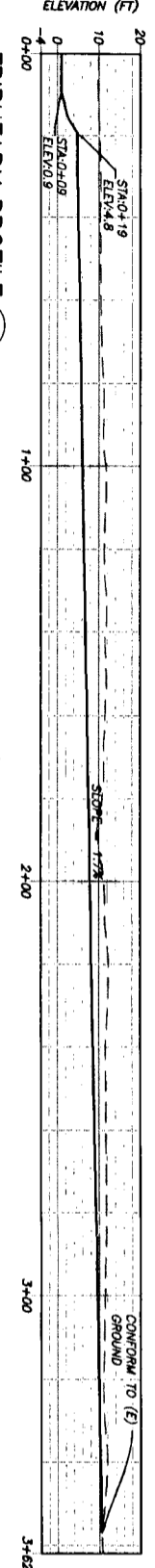


SECTION D
(STATION 18+67)
C3

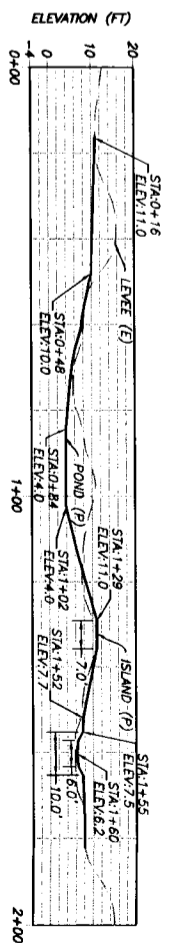
NOTES:
1. CHANNEL BOTTOM GRADES TOWARDS CHANNEL CENTER AT 10% SLOPES (TYP).
2. CHANNEL BANKS GRADE AT 50% SLOPES.



TRIBUTARY PROFILE 1
(CONJUGENCE AT BACKWATER CHANNEL STATION 12+50)
C3

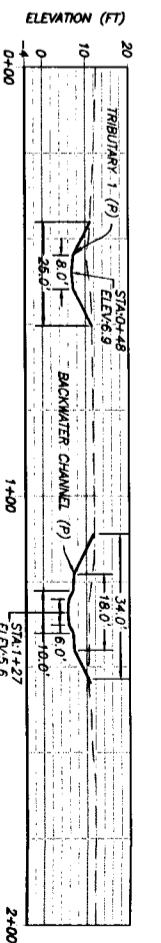


TRIBUTARY PROFILE 2
(CONJUGENCE AT BACKWATER CHANNEL STATION 8+00)
C4



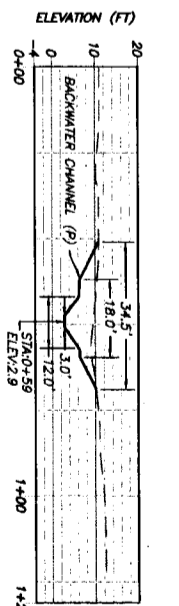
SECTION E
(STATION 17+00)
C3

NOTES:
1. CHANNEL BOTTOMS AND BENCHES GRADE TOWARDS CHANNEL CENTER AT 10% SLOPES (TYP).
2. CHANNEL BANKS GRADE AT 50% SLOPES.



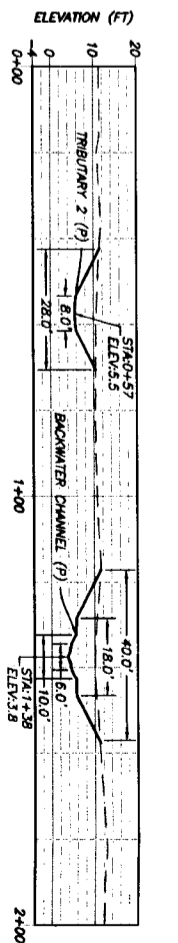
SECTION F
(STATION 13+50)
C3

NOTES:
1. CHANNEL BOTTOMS AND BENCHES GRADE TOWARDS CHANNEL CENTER AT 10% SLOPES (TYP).
2. CHANNEL BANKS GRADE AT 50% SLOPES.



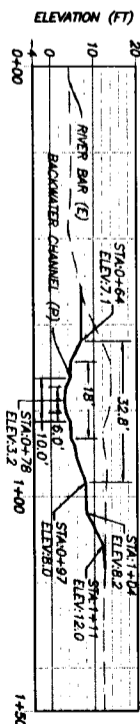
SECTION G
(STATION 11+00)
C4

NOTES:
1. CHANNEL POOL BOTTOMS ARE FLAT ACROSS SECTIONS.
2. CHANNEL BENCHES GRADE TOWARDS CHANNEL CENTER AT 10% SLOPES (TYP).
3. CHANNEL BANKS GRADE AT 50% SLOPES.



SECTION H
(STATION 8+56)
C4

NOTES:
1. CHANNEL BOTTOMS AND BENCHES GRADE TOWARDS CHANNEL CENTER AT 10% SLOPES (TYP).
2. CHANNEL SECTION H SHOWS BACKWATER CHANNEL CROSSING POOL TAILOUT.
3. CHANNEL BANKS GRADE AT 50% SLOPES.



SECTION I
(STATION 4+53)
C4

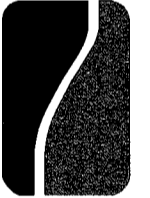
NOTES:
1. CHANNEL BOTTOMS AND BENCHES GRADE TOWARDS CHANNEL CENTER AT 10% SLOPES (TYP).
2. CHANNEL BANKS GRADE AT 50% SLOPES.

LEGEND

--- EXISTING GROUND
--- DESIGN GROUND



1/4"=1'



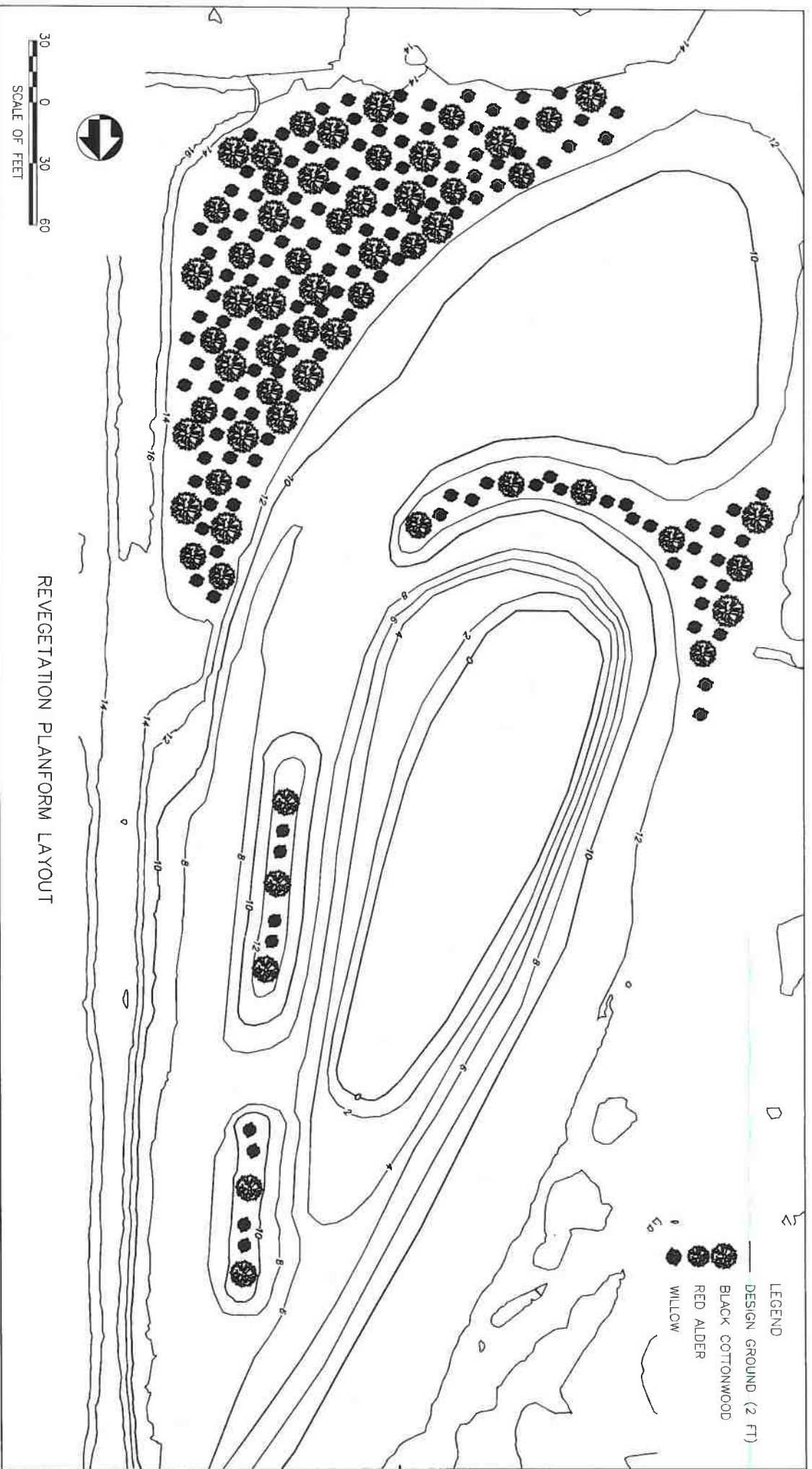
Northern Hydrology & Engineering

DESIGNED: ARP
DRAWN: CEP, CP
TECH. REVIEW: ARP, JKA
DATE: 2/15/2018

SUB SHEET NO. **C5**

PROFILES AND TRIBUTARIES
MAD RIVER FLOODPLAIN RESTORATION
CALTRUT, MCSO, CDFW, SCC

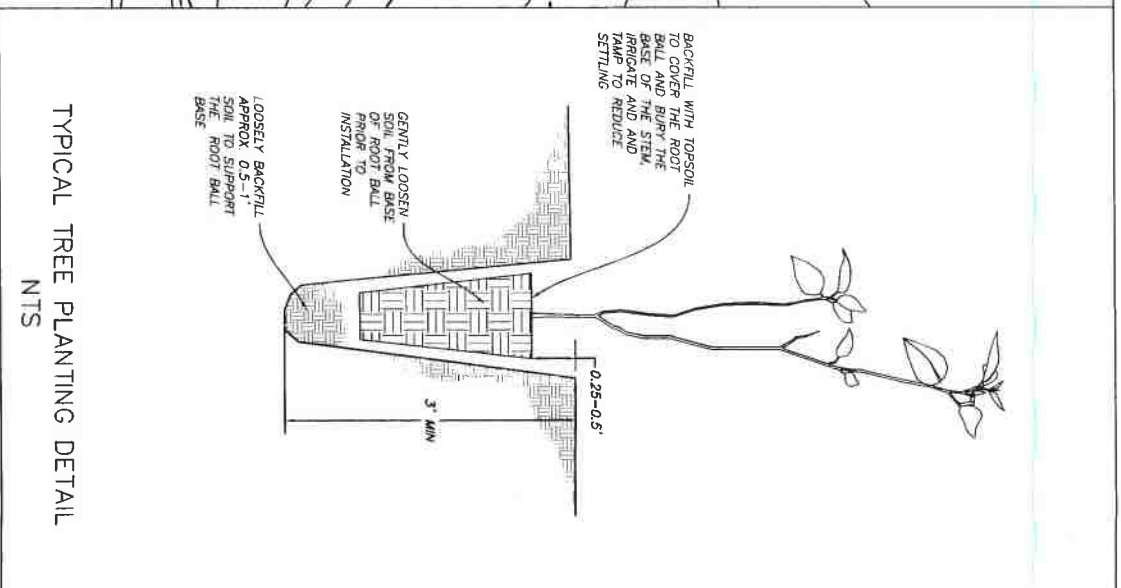
SHEET **7** OF **8**



REVEGETATION PLANFORM LAYOUT



- LEGEND
- DESIGN GROUND (2 FT)
 - BLACK COTTONWOOD
 - RED ALDER
 - WILLOW



TYPICAL TREE PLANTING DETAIL
NTS



Northern Hydrology & Engineering

DESIGNED: JRP
 DRAFTED: CEP, CP
 TECH. REVIEW: JRP, JKA
 DATE: 6/21/2017

SUB SHEET NO. **C6**

DESIGN DETAILS
MAD RIVER FLOODPLAIN RESTORATION
 CALTROUT, MCSO, CDFW, SCC

SHEET **8** OF **8**