RICCO – HALL DITCH DIVERSION

May 15, 2018

Grant Soil and Water Conservation District
721 S Canyon Blvd
John Day, OR
541-575-0135

INVITATION TO BID

FOR

RICCO – HALL DITCH DIVERSION REPLACEMENT

CONTRACT

MAY 2018

GRANT SOIL AND WATER CONSERVATION DISTRICT
721 SOUTH CANYON BOULEVARD
JOHN DAY, OREGON 97845

District Directors:

Pat Voigt, Chair
Phil St. Clair, Vice Chair
Roger Ediger, Secretary/Treasurer
Joanne Keerins
Rick Henslee

Point of Contact:

Levi Voigt, District Engineer
(541) 575-0135 ext. 115
levivoigt@ortelco.net

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SECTION B – INVITATION TO BID

RICCO – HALL DITCH DIVERSION

Individually sealed bids will be received from qualified contractors by the Grant Soil and Water Conservation District (hereinafter called DISTRICT), at 721 South Canyon Boulevard, John Day, OR 97845 until **3:00 pm JUNE 14, 2018** for the construction of rock riffle diversion structure for the diversion of a single ditch, along the John Day River in Grant County, Oregon. Immediately thereafter, Bids will be publicly opened. Bid packages, with plans, specifications, and Bid forms will be distributed at the pre-bid conference and tour and plans are also available at the DISTRICT OFFICE. The point of contact for this Invitation To Bid is Levi Voigt at 541-575-0135 ext. 115 and e-mail levivoigt@ortelco.net.

The project replaces a gravity push-up dam which is seasonally constructed out of riprap rock, streambed material and rubble with a permanent rock check structure located upstream of the current diversion. This project utilizes pipe properties to lower the required check elevation. In addition to the instream check construction, there is also a sheet steel wall, three wood structures, inlet box, flush box, flush pipe, and delivery pipe as well as the accompanying headgate components. All in-stream work must be performed between **July 15, 2018** and **August 15, 2018**. The balance of the work must be completed by **September 30, 2018**.

An optional pre-bid conference and tour of the work area will be conducted **THURSDAY, MAY 31, 2018.** The conference will begin at **8:00 am** at the junction of Highway 26 and Keeney Fork Rd, approximately 3.5 miles west of Prairie City. The project area is southeast of this location on private property. Bidders must provide their own transportation. Conditions along access are predicted to be wet, dress accordingly. If the bidder is not able to attend the pre bid tour, or if bid packages are needed after the tour, they can be obtained either by stopping by the District Office or by calling or emailing a District representative. Electronic copies are available.

Individually sealed envelopes or packages containing Bids and supporting data as stipulated in the instructions to Bidders shall be clearly marked ***Ricco Hall Ditch Diversion***. Bids sent by mail should be forwarded by certified mail, return receipt requested, addressed to the DISTRICT as shown above, in care of Pat Holliday, and likewise shall be clearly marked or endorsed as stated herein.

Bids received after the time established for receipt of Bids will not be considered. Bids may be withdrawn or modified in writing at any time prior to Bid opening, following the guidelines established in the Instructions to Bidders.

The DISTRICT may reject any Bid not in compliance with all prescribed public bidding procedures and requirements, and reserves the right to reject for good cause any or all bids in whole or in part upon the finding of the DISTRICT that it is in the public interest to do so, to waive irregularities not affecting substantial rights, and to postpone the award of the work as necessary for a period of time not to extend beyond thirty (30) days from the Bid Opening date. Bid prices quoted shall remain firm for a period of thirty (30) days from the date of Bid Opening.

Each Bid must contain a statement whether the Bidder is a Resident Bidder. A Resident Bidder is

one who has a business address in Oregon and paid income and unemployment taxes in Oregon during the twelve (12) calendar months immediately preceding the bid.

The apparent successful Bidder shall provide all required proofs of insurance and furnish all specified Contract security bonds to the District within twelve (12) calendar days of notification of intent of Contract award. Failure to present the required documents within this period will may result in bid rejection.

Grant Soil and Water Conservation District

By: Levi Voigt, District Engineer

SECTION C - INSTRUCTIONS TO BIDDERS

C.1 BID PREPARATION

C.1.1 Compliance
All Bids must be sealed, clearly labeled, and presented to the Grant Soil and Water Conservation DISTRICT (herein called "DISTRICT") prior to the stated Bid Opening time. All Bids shall be typed or prepared in ink and signed in ink by an authorized representative of the Bidder. The supplied Bid proposal forms shall be used to ensure identification and proper presentation.

C.1.2 Product Quality
Brand names, when used, indicate quality and type desired. Other brands or equipment of equal quality, merit, and utility will be subject to DISTRICT approval.

C.1.3 Unit and Total Price
Unless otherwise indicated, the price of each item must be clearly shown in the space provided. The price of each item shall be extended to show the total when required. In cases of errors in extensions, the unit price shall prevail. The written unit price shall prevail over the numerical unit price.

C.1.4 Oregon Law
This Invitation To Bid and the resulting Contract are governed by Oregon Law. Specific laws and rules that govern the solicitation process are found in Chapters 279A and 279C of the Oregon Revised Statute and Grant Soil and Water Conservation District Public Contracting Rules.

C.1.5 Bidder Requirements
Bidder is bound by and will comply with all requirements, specifications, plans, terms and conditions contained in this Invitation To Bid (including all listed attachments and Addenda, if issued).

C.2 INFORMATION TO BE SUBMITTED WITH BID

- **Construction Contractors Board (CCB) Registration Requirements; & Joint Venture - Partnership Declaration, Section N;**
- **Addenda Acknowledgement; Section O;**
- **Signature of Bidder's Duly Authorized Representative, Section Q;**
- **Bid Pricing Form, Exhibit 1; and**
- **Issued Addenda (If required).**

THE FOLLOWING SHALL BE SUBMITTED EITHER WITH THE BID SUBMISSION OR WITHIN TWO (2) WORKING HOURS AFTER THE CLOSING:

- **First Tier Subcontractor Disclosure Information, Section G.**

C.3 BID EVALUATION

Bids will be evaluated to identify the lowest Responsive Bid submitted by a Responsible Bidder and not otherwise disqualified. The DISTRICT reserves the right to reject any and all Bids or to accept

the Bid deemed to be in the best interest of the DISTRICT and the State of Oregon.

C.3.1 Responsiveness
To be considered responsive, the Bidder must substantially comply in all material respects with applicable solicitation procedures and requirements and the solicitation documents. In making such evaluation, the DISTRICT may waive minor informalities and irregularities.

C.3.2 Responsibility
Prior to award of a Contract, the DISTRICT will evaluate whether the apparent successful Bidder meets the applicable standards of responsibility identified in ORS 279C.375. In doing so, the DISTRICT may investigate Bidder and request information in addition to that already required in the Invitation To Bid, when the DISTRICT, in its sole discretion, considers it necessary or advisable.

C.4 BID READING

At the prescribed time, date and place bids will be publicly opened and read, and Bidders are invited to be present to witness results. Award decisions will not be made at Bid Opening.

C.5 BID INFORMATION

A tabulation of Bids received and considered prior to award will be publically posted at the DISTRICT Office and copies may be obtained by request. The request may be included with the Bid or mailed separately to the DISTRICT.

SECTION D – GENERAL BIDDING INFORMATION

D.1 DEFINITIONS

D.1.1 District
means the Grant Soil and Water Conservation DISTRICT, acting through its Board Chair or designated Contracting Officer.

D.1.2 Invitation To Bid
means all contracting documents, whether attached or incorporated by reference, and any Addenda thereto, used for soliciting and bids.

D.1.3 Addenda
are written or graphic instruments issued by the DISTRICT representative prior to the execution of the Contract which modify or interpret the Bidding Documents by additions, deletions, clarifications or corrections.

D.1.4 Bid
is a complete and properly signed proposal to do the work or designated portion thereof for the sums stipulated therein, submitted in accordance with the Bidding Documents.

D.1.5 Bidder
is one who submits a bid for a prime contract with the DISTRICT for the work described in the proposed contract documents.

D.1.6 Opening
means the date/time set to read the Bid submittals.

D.1.7 Closing
means the date and time set in the Invitation To Bid for Bid submission, after which Bids may not be submitted, modified, or withdrawn by Bidder.

D.2 SCOPE OF WORK

The DISTRICT is inviting Bids from qualified vendors to furnish all labor, tools, machinery, materials, transportation, equipment and services necessary, and reasonably incidental to the completion of the project described in the Invitation To Bid.

D.3 PROJECT COMPLETION SCHEDULE

Performance of the contracted services shall be completed as defined in the specifications.

D.5 LIQUIDATED DAMAGE

Liquidated damages of $100 per calendar day will apply to the Contract resulting from this Invitation To Bid for failure of the contractor to complete the work within the specified performance period.

D.6 VOLUNTARY PRE-BID CONFERENCE

D.6.1 Pre-Bid Conference

An optional pre-bid conference and tour of the work area will be conducted **THURSDAY, MAY 31, 2018.** The conference will begin at **8:00 am** at the junction of Highway 26 and Keeney Fork Rd, approximately 3.5 miles west of Prairie City. The project area is southeast of this location on private property. Bidders must provide their own transportation. Conditions along access are predicted to be wet, dress accordingly. If the bidder is not able to attend the pre bid tour, or if bid packages are needed after the tour, they can be obtained either by stopping by the District Office or by calling or emailing a District representative. Electronic copies are available.

BIDDERS ARE NOT REQUIRED TO ATTEND THIS VOLUNTARY PRE-BID CONFERENCE AND TOUR, BUT WITH THE COMPLEXITY OF THIS PROJECT IT IS STRONGLY RECOMMENDED THAT BIDDERS OR THEIR REPRESENTATIVES ATTEND.

D.6.2 Work Area

The work area is located entirely on private property and interested Bidders must schedule with the District, any site inspections different than the optional pre bid tour listed above.

D.6.3 Pre Bid Comments

Any statements made at this conference will not change the Plans, Specifications or other Contract Documents unless an Addendum has been issued by the DISTRICT.

D.7 POINT OF CONTACT:

The single contact point for questions regarding the Invitation To Bid, Specifications, Plans, Bidding process, change, clarification, the award process, protests and any other issues that may arise, is Levi Voigt at (541) 575-0135 ext. 115 and e-mail levivoigt@ortelco.net.

D.8 INVITATION TO BID DOCUMENTS AVAILABILITY

D.8.1 Copies of Bidding Documents

Bidders may obtain a hard or electronic copy of the full Invitation To Bid package from the Point of Contact identified in Section D.4. Hardcopies of the Invitation To Bid will be available to interested vendors in attendance at the pre-bid conference and tour and at the DISTRICT Office located at 721 S. Canyon Blvd., John Day, OR 97845, during regular business hours (Monday-Friday; 7:00am-5:00pm) or may be downloaded from the DISTRICT'S web site www.grantswcd.net. Upon request, the DISTRICT will provide or mail one (1) free hardcopy of the Invitation To Bid, including Addenda to each interested Bidder. Additional hardcopies can be ordered from the DISTRICT for a fee in accordance with the DISTRICT's Public Records Information Request Policy.

D.8.2 Attachments

Some exhibits and attachments may not allow for them to be downloaded or electronically mailed to interested Bidders. In these cases, the solicitation contains instructions on how to obtain hardcopies of these documents.

D.9 TRADE SECRETS

Any information Bidder submits in response to the Invitation To Bid that Bidder considers a trade secret under ORS 192.501(2) or confidential proprietary information, and that Bidder wishes to protect from public disclosure, must be clearly labeled with the following: "This information constitutes a trade secret under ORS 192.501(2) or confidential proprietary information, and is not to be disclosed except in accordance with the Oregon Public Records Law, ORS Chapter 192." Bidders are cautioned that price information submitted in response to an Invitation To Bid is generally not considered a trade secret under the Oregon Public Records Law. Further, information submitted by Bidders that is already in the public domain is not protected. The State shall not be liable for disclosure or release of information when authorized or required by law or court order to do so. The State shall also be immune from liability for disclosure or release of information under the circumstances set out in ORS 646.473(3).

D.10 SOLICITATION LAW, RULES AND GENERAL CONDITIONS

This Invitation To Bid and the resulting Contract are governed by Oregon Law. Specific laws and rules that govern the solicitation process are found in Chapters 279A and 279C of the Oregon Revised Statues, and DISTRICT Public Contracting Rules. The Invitation To Bid and resulting Contract may be subject to other laws and rules. Bidders should obtain and become acquainted with the applicable provisions of the above laws and rules. Copies may be obtained as follows:

D.10.1 OREGON REVISED STATUES (ORS Chapters 279A and 279C)

Can be obtained from Legislative Counsel Committee, S101 State Capitol, Salem, OR 97310-0630. Phone (503) 378-8146, or on line at: http://www.leg.state.or.us/ors/home.html

D.10.2 Grant Soil and Water Conservation District Public Contracting Rules

Can be obtained from the Point of Contact identified in Section D.4.

D.11 EXAMINATION OF DRAWINGS, SPECIFICATIONS, AND WORK SITE

It is understood that the Bidder, before submitting the Bid, has made a careful examination of the Invitation To Bid, Plans, Specifications, Addenda, and Attachments; that the Bidder has been fully informed as to the quality and quantity of materials and character of the work required; and that the Bidder has made a careful examination of the location and conditions of the work. The State of Oregon, its Legislative Assembly or DISTRICT will in no case be responsible for any loss or for any unanticipated costs that may be suffered by contractor as a result of contractor's failure to acquire full information in advance and in regard to all conditions pertaining to the work.

D.12 SOLICITATION PROTEST; REQUEST FOR INTERPRETATION OF PROPOSED CONTRACT DOCUMENTS

D.12.1 Discrepancies

If a Bidder finds discrepancies, in, or omissions from, the Contract Documents, or if the Bidder is in doubt as to their meaning, the Bidder shall at once notify the DISTRICT. If applicable corrections or clarifications are necessary, the DISTRICT will issue written directives in the form of Addenda.

Any clarifications or protests to the specifications should be detailed in official written correspondence to the Point of Contact and be received seven (7) calendar days or more prior to the bid opening date. It shall be the sole responsibility of the Bidder to understand all of the provisions of the bid invitation and contract specifications.

D.12.2 Addenda
All issued Addenda will become a part of the Invitation to Bid and Contract.

D.12.3 Bidder Questions
Informal responses to Bidder questions regarding the project or Contract do not affect the provisions of the Invitation To Bid. Plans, Specifications, Contractual Terms, and Procurement Requirements can only be changed via Addenda issued by the DISTRICT.

D.12.4 Alternative Product Brands
Any Bid response that includes non-approved alternative product brands where approval is required, or that takes exception to the Specifications, Plans, or Contractual Terms of the Invitation To Bid may be deemed non-responsive and rejected from consideration.

D.13 PREPARATION OF BID PROPOSAL

D.13.1 Valid Bid Proposal
The Bidder shall submit their proposal upon the form(s) furnished by the DISTRICT. The Bidder shall specify the Bid item unit price; both written out in words and in figures, in addition to providing the total item amount (unit price multiplied by the approximate quantity) and total extended amount (sum of all total item amounts) in figures. All words and figures shall be in ink or typed.

D.13.2 Bid Alterations
If an amount entered by the Bidder on the proposal form is to be altered it should be crossed out with ink, the new Bid amount entered above or below it, and initialed by the Bidder, also with ink. In a case of discrepancy between the prices written out in words and those written in figures, the prices written in words shall govern.

D.13.3 Bidder Signature
The Bidder's proposal must be signed with ink by the individual, by one or more members of the partnership, by one or more members or officers of each firm representing a joint venture, by one or more officers of a corporation, or by an agent of the contractor legally qualified and acceptable to the DISTRICT.

D.13.4 Bid Packages
Bid proposals shall be submitted in sealed packages or envelopes. To ensure proper identification and handling, all packages and envelopes shall be clearly marked with the name or number of the project, the Bidder's name and contact information, and addressed to the Grant Soil and Water Conservation DISTRICT at 721 South Canyon Boulevard, John Day, Oregon 97845. Bids sent by mail should be forwarded by certified mail, return receipt requested, addressed to the DISTRICT as shown above, in care of Pat Holliday, and likewise shall be clearly marked or endorsed as stated herein.

D.13.5 Submittal Time
Sealed Bids must be received by the DISTRICT prior to the designated Closing date/time. Bids received after the date/time for Closing will not be considered for award.

D.14 IRREGULAR PROPOSALS

Bid proposals will be considered irregular and may be rejected for any of the following reasons:

D.14.1 Non-Valid Forms
If the proposal is on a form other than furnished by the DISTRICT, or otherwise specified, or if the form is altered or any thereof is detached.

D.14.2 Alternate Bids
If there are unauthorized additions, conditional or alternated bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite, or ambiguous as to its meaning.

D.14.3 Additional Provisions
If the Bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.

D.14.4 Bid Price Amount
If the proposal does not contain the Bid price amount both; written out in words and in figures for each item listed, the total item amount in figures and the total extended amount of all items in figures, the bid will be considered invalid.

D.14 MODIFICATION OF BIDS; OFFER WITHDRAWALS

D.14.1 Modifications of Bids after Submittal
A Bidder may not modify any Bid after it has been deposited with the DISTRICT. A Bidder may rescind a Bid and deposit a new sealed Bid with the DISTRICT prior to the time set for Opening Bids. No oral, electronic, faxed or telephone Bids or modifications of Bids will be considered.

D.14.2 Offer Withdrawal
Qualified sealed Bids may be withdrawn by the Offer in writing when submitted to the DISTRICT on the Offeror's letterhead, signed by the authorized representative, and received prior to the Bid Closing. Offer withdrawals submitted in writing must be labeled as such and contain the associated Invitation to Bid number or name.

Qualified sealed Bids may also be withdrawn in person before the Bid Closing upon presentation of appropriate identification and evidence of authorization to act for Offeror. Signature confirmation of withdrawal may also be required.

D.15 WITHDRAWAL OF BID ITEMS

The DISTRICT reserves the right to delete Bid items. The delete of one or more Bid items will not affect the method of award.

D.16 SUBSTITUTIONS

Any request for approval of equipment or product, when certain manufacturer's equipment, product brand or its approved equal is called for, shall be presented to the DISTRICT in writing at least seven (7) calendar days previous to the date on which Bids are to be opened. Requests for approval of substitutes must include complete specifications and descriptive literature.

D.17 PRELIMINARY BID RESULTS

Prior to the Intent to Award Announcement, the DISTRICT may post preliminary bid results. Such postings may not be correct and are not final.

D.18 TIME FOR OFFER ACCEPTANCE AND EXTENTIONS

D.18.1 Offer Validity

A Bidder's Bid is a firm offer, irrevocable, valid and binding on the Bidder for not less than thirty (30) calendar days from the Closing date.

D.18.2 Bid Extensions

The DISTRICT may request, orally or in writing that Bidders extend, in writing, the time during which the DISTRICT may consider their Bids. If a Bidder agrees to such extension, the Bid shall continue as a firm Offer, irrevocable, valid and binding on the Bidder for the agreed-upon extension period.

D.19 METHOD OF AWARD

The responsiveness and responsibility of Bidders and of their proposed subcontractors will be considered in making the award. The DISTRICT shall have the right to accept alternates in any order or combination and to determine the low Bidder on the basis of the sum of the Bid and the alternates accepted. The DISTRICT reserves the right to reject any Bid that does not comply with all prescribed public bidding procedures and requirements, and may reject for good cause any Bid or all Bids upon a finding by the DISTRICT that it is in the public interest to do so.

D.20 SUBSTANTIAL COMPLIANCE REQUIRED:

Bidders not in substantial compliance with Invitation To Bid requirements cannot be considered, and cannot be supplemented by submissions delivered after Closing. However, the DISTRICT may waive minor informalities and irregularities, and may seek clarification of any response that, in its sole discretion, it deems necessary or advisable.

D.21 OFFER EVALUATION CRITERIA:

Bidders will be evaluated to identify the lowest responsive Bid submitted by a responsible Bidder and not otherwise disqualified.

D.21.1 Responsiveness

To be considered responsive, the Bidder must substantially comply in all material respects with applicable solicitation procedures and requirements and the solicitation documents. In making such

evaluation, the DISTRICT may waive minor informalities and irregularities.

D.21.2 Responsibility
Prior to award of a Contract, the DISTRICT will evaluate whether the apparent successful Bidder meets the applicable standards of responsibility identified in ORS 279C.375. In doing so, the DISTRICT may investigate Bidder and request information in addition to that already required in the Invitation To Bid, when the DISTRICT, in its sole discretion, considers it necessary or advisable.

D.22 PROCESSING OF BIDS

Neither the release of a Bid Security, nor acknowledgment that the selection process is complete (whether by posting of a Bid tabulation sheet, issuance of notice intent to award, or otherwise), shall operate as a representation by the DISTRICT that any Bid submitted was complete, sufficient, lawful in any respect, or otherwise in substantial compliance with the Invitation To Bid requirements.

D.23 INTENT-TO-AWARD ANNOUNCEMENT

The DISTRICT reserves the right to announce its intent to award prior to formal Contract award by publically posting the tabulation sheet of Bid results at DISTRICT Office, or by letter. The Intent-to-Award Announcement shall serve as notice to all Bidders that the DISTRICT intends to make an award.

D.24 PROTEST OF INTENT TO AWARD

Adversely-affected or aggrieved Bidders shall have seven (7) calendar days from the date of the Intent-to-Award Announcement within which to file a written protest. Protests submitted after that date will not be considered. Protests must specify the grounds upon which the protest is based.

D.24.1 Adversely Affected Bidder
In order to be an adversely affected or aggrieved Bidder, the Bidder must claim to be eligible for award of the Contract as the responsible Bidder submitting the lowest responsive Bid and that any and all lower Bidders are ineligible to receive the Contract award.

D.24.2 Protest of Award
An actual Bidder who is adversely affected or aggrieved by the award of the Contract to another Bidder may protest award, in writing, within the timeline established. The written protest shall state the grounds upon which the protest is based. No protest of award shall be considered after the deadline.

D.25 AWARD

After expiration of the Intent-to-award protest period, and resolution of all protests, the DISTRICT will proceed with final award.

D.26 COMMENCEMENT OF WORK

Contractor shall not commence Work under the Contract until the Notice to Proceed has been issued by the DISTRICT.

D.27 INFORMATION TO BE SUBMITTED BY THE APPARENT SUCCESSFUL BIDDER

D.27.1 INSURANCE

The apparent successful Bidder shall provide all required proofs of insurance to the DISTRICT within twelve (12) calendar days of notification of Intent-to-Award. Failure to present the required documents within the designated time period may result in Bid rejection. Bidders are encouraged to consult their insurance agent(s) about the required insurance coverage's listed below.

- Workers' Compensation: All employers, including the apparent successful Bidder, that employ subject workers who work under this contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. Contractors who perform the Work without the assistance or labor of any employee need not obtain such coverage. The apparent successful Bidder shall ensure that each of its Subcontractors complies with these requirements and shall require proof of such Workers' Compensation by receiving and keeping on file a certificate of insurance from each Subcontractor or anyone else directly employed by either the apparent successful Bidder or its Subcontractors.

- Commercial General Liability: The apparent successful Bidder shall obtain, at Bidder's expense, and keep in effect during the term of this Contract, Commercial General Liability Insurance covering bodily injury and property damage in a form and with coverages that are satisfactory to the State. This insurance shall include personal injury liability, products and completed operations, and contractual liability coverage for the indemnity provided under this Contract, and shall be issued on an occurrence basis. The apparent successful Bidder shall provide proof of insurance of not less than the amounts listed in the following schedules:

  Per Occurrence Limit for any single claimant:
  From commencement of the Contract term to July 1, 2018: $706,000.
  July 1, 2018 and thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).

  Per Occurrence Limit for multiple claimants:
  From commencement of the Contract term to July 1, 2018: $1,412,000.
  July 1, 2018 and thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).

- Automobile Liability: The apparent successful Bidder shall obtain, at Bidder's expense, and keep in effect during the term of this Contract, Automobile Liability Insurance covering owned, non-owned and/or hired vehicles, as applicable. The coverage may be written in combination with the Commercial General Liability Insurance. The apparent successful Bidder shall provide proof of insurance of not less than the amounts listed in the following schedules:

  Per Occurrence Limit for any single claimant:
  From commencement of the Contract term to July 1, 2018: $706,000.

July 1, 2018 and thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).

Per Occurrence Limit for multiple claimants:
From commencement of the Contract term to July 1, 2018: $1,412,000.
July 1, 2018 and thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).

- Excess/Umbrella Insurance: A combination of primary and excess/umbrella insurance is acceptable to meet the minimum coverage requirements for Commercial General Liability and Automobile Liability Insurance. In such case, the insurance certificate must include a list of the policies that fall under the excess/umbrella insurance. Sample wording is "The Excess/Umbrella policy is excess over primary Commercial General Liability and primary Automobile Liability Insurance."

- Additional Insured: The liability insurance coverage, except Professional Liability if included, required for performance of this Contract shall include the State of Oregon, its departments, divisions, officers, and employees, as Additional Insureds but only with respect to the successful Bidder's activities to be performed under this Contract.

- Certificate(s) of Insurance: As evidence of the insurance coverage required by this Contract, the apparent successful Bidder shall furnish certificate(s) of insurance to the DISTRICT prior to execution of the Contract. The certificate(s) will specify all of the parties who are Additional Insureds or Loss Payees. Insurance coverage required under this Contract shall be obtained from insurance companies or entities acceptable to the DISTRICT that are allowed to provide such insurance under Oregon law.

D.27.2 Performance and Payment Bond
The Contractor shall furnish and maintain in effect at all times during the Contract Period, a performance bond in a sum equal to the Contract Price, and a separate payment bond also in a sum equal to the Contract Price.

D.27.3 Joint Venture/Partnership Information
The apparent successful Bidder, if a Joint Venture/Partnership shall provide a copy of the joint venture agreement or partnership agreement evidencing authority to Bid and to enter into the resulting Contract that may be awarded, together with corporate resolutions (if applicable) evidencing corporate authority to participate as a joint venture or partner. A contact person must also be designated for purposes of receiving all notices and communications under the Contract. All partners and joint ventures will be required to sign the Contract awarded.

SECTION E - BID SECURITY REQUIREMENTS

No bid security is required for this Contract.

SECTION F – PREVAILING WAGE RATES

F.1 Prevailing Wage Requirements
The Contractor and all subcontractors shall comply with the provisions of ORS 279C.800 through 279C.870, relative to Oregon Prevailing Wage Law and the Federal Davis-Bacon Act (40 U.S.C. 3141 et seq.).

Before starting Work the Contractor shall file with the Construction Contractors Board, and maintain in full force and effect, the separate public works bond required by ORS 279C.836, unless otherwise exempt under those provisions. The Contractor shall also include in every subcontract a provision requiring the Subcontractor to have a public works bond filed with the Construction Contractors Board before starting Work, unless otherwise exempt, and shall verify that the Subcontractor has filed a public works bond before permitting the Subcontractor to start Work.

F.2 This Invitation To Bid and the resulting Contract are subject to the following Bureau of Labor and Industries (BOLI) wage requirements and the prevailing wages rates set forth in the following booklet, as amended, which is incorporated herein by reference with the same force and effect as though fully set forth herein, and is available at the following web link:

Prevailing Wage Rates for Public Works Contracts in Oregon – 2017

- Issued July 1, 2018

Prevailing Wage Rates State Apprenticeship Rates - 2017

- Issued July 1, 2018

These BOLI wage rates are available on line at:
http://www.oregon.gov/boli/WHD/PWR/Pages/pwr_state.aspx

F.3 Prevailing Wage as it Pertains to this Contract
Because the project involves federal funds, this Invitation To Bid and the resulting Contract are subject to federal Davis-Bacon Act requirements in addition to BOLI requirements. The Contractor shall pay the higher of the BOLI wage rates and fringe benefits, as identified in the above BOLI wage rate booklet, or the federal wage rates and fringe benefits listed in the publication "General Wage Determinations Issued Under the Davis-Bacon and Related Acts" that is last published prior to the Bid Closing date set forth in this Invitation To Bid. The following U.S. Secretary of Labor Wage Determination Wage Requirements, are incorporated herein by reference, and are available at the web link below:

Federal Davis-Bacon Act Wage Rates General Decision Number: OR170067, 07/21/2017, OR67.

Bidders may obtain the applicable federal rates through the following U.S. Department of Labor link at: http://www.wdol.gov/dba.aspx

Bidders are advised that federal Davis-Bacon rates may be amended at any time prior to Bid Closing and that contractors remain responsible for meeting federal Davis-Bacon Act requirements and State of Oregon prevailing wage rate requirements.

F.4 The Work will take place in Grant County, Oregon, Region 12.

SECTION G – FIRST-TIER SUBCONTRACTOR DISCLOSURE INSTRUCTIONS AND FORM

G.1 First Tier Subcontractors
Pursuant to ORS 279C.370, Offerors are required to disclose information about certain first-tier subcontractors when the DISTRICT estimates the Contract value for a Public Improvement to be greater than $100,000. Specifically, when the Contract amount of a first-tier subcontractor furnishing labor, or labor and materials, would be greater than or equal to: (i) 5% of the project Bid, but at least $15,000, or (ii) $350,000 regardless of the percentage, the Bidder must disclose the following information about that Subcontract in its Bid submission or within two (2) working hours after Closing:

(a) The subcontractor's name,
(b) Dollar value and,
(c) The category of work that the subcontractor would be performing.

DISTRICT MUST REJECT AN OFFER IF THE OFFEROR FAILS TO SUBMIT THE SPECIFIED DISCLOSURE INFORMATION BY THE STATED DEADLINE.

G.2 Information Submittal
An Offeror shall submit the disclosure information either in its Offer submission or within two (2) working hours after Closing.

Compliance with the disclosure and submittal requirements is a matter of responsiveness. Offers which are submitted by Closing, but for which the disclosure submittal has not been made by the specified deadline, are not responsive and shall not be considered for Contract award.

G.3 Disclosure Information
The DISTRICT shall obtain, and make available for public inspection, the disclosure information. The DISTRICT shall also provide copies of the disclosed information to the Bureau of Labor and Industries as required by ORS 279C.835. The DISTRICT is not required to determine the accuracy or completeness of the information submitted. Substitution of affected first-tier subcontractors shall be made only in accordance with ORS 279C.585.

SECTION H – RESPONSIBILITY INQUIRY/CONTRACTOR REFERENCES

The DISTRICT reserves the right, pursuant to ORS 279C.375 to investigate and evaluate, at any time prior to award and execution of the Contract, the apparent successful Bidder's responsibility to perform the Contract. Submission of a signed Bid shall constitute approval for the DISTRICT to obtain any information the DISTRICT deems necessary to conduct the evaluation. The DISTRICT shall notify the apparent successful Bidder, in writing, of any other documentation required, which may include, but is not limited to, recent profit-and-loss history; current balance statements; assets-to-liabilities ratio, including number and amount of secured versus unsecured creditor claims; availability of short and long-term financing; bonding capacity; credit information; material; equipment; facility

and personnel information; performance record of Contract performance; etc. Failure to promptly provide this information shall result in Bid rejection. The DISTRICT may postpone the award of the Contract after announcement of the apparent successful Bidder in order to complete its investigation and evaluation. Failure of the apparent successful Bidder to demonstrate Responsibility, as required under ORS 279C.375, shall render the Bidder non-responsible and shall constitute grounds for Bid rejection.

The DISTRICT also reserves the right to choose and investigate any reference whether or not furnished by the Bidder, and to investigate past performance of any Bidder with respect to its successful performance of similar projects, compliance with specifications and contractual obligations, its completion or delivery of service on schedule, and its lawful payment of suppliers, subcontractors, and employees. The DISTRICT may postpone the award or execution of the Contract after the announcement of the apparent successful Bidder in order to complete its investigation. The DISTRICT may reject a bid if, the opinion of the DISTRICT, overall reference responses indicate inadequate performance.

SECTION I - RECYCLED PRODUCTS

Vendors shall use recyclable materials to the maximum extent economically feasible in the performance of the Contract Work set forth in this document. ORS 279A.010(ii) provides as follows: "'Recycled product' means all materials, goods and supplies, not less than 50 percent of the total weight of which consists of secondary and post-consumer waste with not less than 10 percent of total weight consisting of post-consumer waste. 'Recycled product' also includes any product that could have been disposed of as a solid waste, having completed its life cycle as a consumer item, but otherwise is refurbished for reuse without substantial alteration of the product's form."

By my signature in Section Q, I, the undersigned duly authorized representative of the Bidder, hereby affirm that Bidder will comply with the above recycled products provisions.

SECTION J - CERTIFICATION OF COMPLIANCE WITH TAX LAWS

By my signature in Section Q of this Contract, I, hereby attest or affirm under penalty of perjury: That I am authorized to act on behalf of the Contractor in this matter, that I have authority and knowledge regarding the payment of taxes, and that Contractor is, to the best of my knowledge, not in violation of any Oregon Tax Laws.

SECTION K - CERTIFICATION OF DRUG-TESTING LAW REQUIREMENTS

(1) Pursuant to ORS 279C.505, the Bidder certifies by its signature on these solicitation document forms that it has a Qualifying Drug Testing Program in place for its employees that includes, at a minimum, the following:

(a) A written employee drug testing policy, (b) Required drug testing for all new Subject Employees or, alternatively, required testing of all Subject Employees every 12 months on a random selection basis, and (c) Required testing of a Subject Employee when the Bidder has reasonable cause to believe the Subject Employee is under the influence of drugs.

(2) A drug testing program that meets the above requirements will be deemed a "Qualifying Employee Drug Testing Program." An employee is a "Subject Employee" only if that employee will be working on the Project job site.

(3) If awarded a Public Improvement Contract as a result of this solicitation, Offeror agrees that at the time of Contract execution it shall represent and warrant to the Agency that its Qualifying Employee Drug Testing Program is in place and will continue in full force and effect for the duration of the Public Improvement Contract. The Agency's performance obligation (which includes, without limitation, the Agency's obligation to make payment) shall be contingent on Contractor's compliance with this representation and warranty.

(4) If awarded a Public Improvement Contract as a result of this solicitation, Offeror also agrees that at the time of Contract execution, and as a condition to Agency's performance obligation (which includes, without limitation, the Agency's obligation to make payment), it shall require each subcontractor providing labor for the Project to:

(a) Demonstrate to the Contractor that it has a Qualifying Employee Drug Testing Program for the subcontractor's Subject Employees, and represent and warrant to the Contractor that the Qualifying Employee Drug Testing Program is in place at the time of subcontract execution and will continue in full force and effect for the duration of the subcontract; or (b) Require that the subcontractor's Subject Employees participate in the Contractor's Qualifying Employee Drug Testing Program for the duration of the subcontract.

SECTION L - CERTIFICATION OF COMPLIANCE WITH NON-DISCRIMINATION LAWS

By my signature in Section Q, I certify that I am authorized to act on behalf of Bidder in this matter and that Bidder has not discriminated and will not discriminate against any disadvantaged business enterprise, minority-owned business, women-owned business, emerging small business, or business that a service-disabled veteran owns, in obtaining any required subcontracts. Failure to do so shall be grounds for disqualification.

SECTION M – DEBARMENT AND SUSPENSIONS

The Bidder hereby certifies that the Bidder is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in this Contract by any Federal department or agency, or by a State or Tribal Agency. If requested by the DISTRICT, the Bidder shall complete a Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion form, certifying this information. Any such form shall be incorporated into this Invitation to Bid by reference.

Bidder accepts the responsibility to ensure that it does not enter into a contract with a value of $25,000 or more, with an individual or entity which is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in this Contract by any Federal department or agency, or by a State or Tribal Agency.

SECTION N - CONSTRUCTION CONTRACTORS BOARD (CCB)

REGISTRATION REQUIREMENTS / JOINT VENTURE - PARTNERSHIP DISCLOSURE

N.1 CCB REQUIREMENTS:

N.1.1 Contractor Licensure
Bidders shall be licensed with the State of Oregon Construction Contractors Board (CCB) prior to Bidding on Public Improvement Contract(s). FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL RESULT IN BID REJECTION.

N.1.2 Subcontractor Licensure
All subcontractors participating in the project shall be similarly registered with the Construction Contractors Board at the time they propose to engage in subcontract work. The CCB registration requirements apply to all public works contracts unless superseded by federal law.

Bidders shall provide their Construction Contractors Board (ORS 701.055) registration number below:

CONSTRUCTION CONTRACTORS BOARD REGISTRATION NUMBER:

_____

EXPIRATION DATE OF CCB NO.: _____

N.2 Joint Venture/Partnership Disclosure

The Bidder shall disclose whether the Bid is submitted by either a partnership or joint venture.

NO: _____ YES: _____

If yes, the Bidder shall provide the name of the contact person for the partnership or joint venturer.

Name: _____

SECTION O - ADDENDA ACKNOWLEDGEMENT

O.1 Written Addenda
The DISTRICT reserves the right to make changes to the Invitation to Bid and the resulting Contract, by written Addenda, prior to the closing time and date. Issued Addenda will be publically posted in the DISTRICT Office and available to interested Bidders upon request. The District is not responsible for a Bidders failure to receive notice of Addenda if such are posted in the foregoing manner. Addenda shall only be issued by the DISTRICT and upon issuance are incorporated into the Invitation to Bid or the resulting Contract.

O.2 Signature
By Bidder's signature in Section Q it acknowledges, agrees, and certifies to the following:

If any Addenda are issued in connection with this Invitation To Bid, Bidder has received and duly considered such Addenda, and has completed the blanks below identifying all Addenda issued, and acknowledging and agreeing to the terms of all such Addenda as those terms revise the terms, conditions, Plans and Specifications of this Invitation To Bid.

Check one: Addenda Received ( ) Number_____ to Number _____

None Received ( )

SECTION P – RESIDENCY INFORMATION

OAR 125-249-0390 states "In determining the lowest responsive Bid, the State must add a percentage increase to the Bid of a nonresident Bidder equal to the percentage, if any, of the preference given to that Bidder in the state in which the Bidder resides."

"Resident Bidder" means a Bidder that has paid unemployment taxes or income taxes in this State during the 12 calendar months immediately preceding submission of the Bid, has a business address in this State, and has stated in the Bid whether the Bidder is a "resident Bidder".(OAR 125-246-0110)

"Non-resident Bidder" means a Bidder who is not a "resident Bidder" as defined above. (OAR 125-246-0110)

a. Check one: Bidder is a ( ) Resident Bidder
( ) Non-resident Bidder

b. If a Resident Bidder, enter your Oregon business address:

_____

_____

c. If a Non-resident Bidder, enter state of residency:

_____

SECTION Q - SIGNATURE OF BIDDER'S DULY AUTHORIZED REPRESENTATIVE

THIS BID MUST BE SIGNED IN INK BY AN AUTHORIZED REPRESENTATIVE OF THE BIDDER; ANY ALTERATIONS OR ERASURES TO THE BID MUST BE INITIALED IN INK BY THE UNDERSIGNED AUTHORIZED REPRESENTATIVE.

The undersigned acknowledges, attests and certifies individually and on behalf of the Bidder that:

(1) S/he is a duly authorized representative of the Bidder, has been authorized by Bidder to make all representations, attestations, and certifications contained in this Bid and all Addenda, if any, issued.

(2) Bidder, acting through its authorized representatives, has read and understands all Bid instructions, Specifications, Plans, terms and conditions contained in this Bid Document (including all listed attachments and Addenda, if any, issued);

(3) The Bid submitted is in response to the specific language contained in the Invitation To Bid, and Bidder has made no assumptions based upon either (a) verbal or written statements not contained in the Invitation To Bid, or (b) any previously-issued Invitation To Bid, if any.

(4) The DISTRICT shall not be liable for any claims or be subject to any defenses asserted by Bidder based upon, resulting from, or related to, Bidders failure to comprehend all requirements of the Invitation To Bid.

(5) The DISTRICT shall not be liable for any expenses incurred by Bidder in preparing and submitting its Bid or in participating in the Bid evaluation/selection process.

(6) The Bidder agrees to be bound by and comply with all applicable requirements of ORS 279C.800 through ORS 279C.870 and the administrative rules of the Bureau of Labor and Industries (BOLI) regarding prevailing wage rates.

(7) The Bid was prepared independently from all other Bidders, and without collusion, fraud, or other dishonesty.

(8) Bidder is bound by and will comply with all requirements, Specifications, Plans, terms and conditions contained in this Bid (including all listed attachments and Addenda, if any, issued);

(9) Bidder will furnish the designated item(s) and/or service(s) in accordance with the Bid Specifications, Plans and requirements, and will comply in all respects with the terms of the resulting Contract upon award;

(10) Bidder represents and warrants that Bidder has the power and authority to enter into and perform the Contract and that the Contract, when executed and delivered, shall be a valid and binding obligation of Contractor enforceable in accordance with its terms; and

(11) All affirmations and certifications contained in aforementioned sections are true and correct.

Authorized Signature: _____

Title: _____

FEIN ID# or SSN# (required): _____

Contact Person (Type or Print): _____

Telephone Number: (_____)_____ Fax Number: (_____)_____

E-Mail Address: _____

ATTACHMENT A – BID SCHEDULE

ATTACHMENT B – SPECIFICATIONS

ATTACHMENT C – CONSTRUCTION PLANS

BID SCHEDULE

RICCO HALL DIVERSION

				Unit Price		
Item	Description	Quantity	Unit	Amount in Figures	Hand Written Unit Price	Total
1	MOBILIZATION AND DEMOBILIZATION	1	Lump Sum	$		$
2	SITE CLEARING, ENVIRONMENTAL PROTECTION AND CLEANUP	1	Lump Sum	$		$
3	CUT STEEL SHEET PILING	230	Lineal Feet	$		$
4	INSTALL INTERLOCKING STEEL SHEET PILING	230	Lineal Feet	$		$
5	CAP TOP OF STEEL SHEET PILING WALLS	52	Lineal Feet	$		$
6	ABANDON EXISTING DIVERSION, REGRADE STREAM AND REMOVE INFRASTRUCTURE	1	Lump Sum	$		$
7	INSTALL INLET STRUCTURE AND HEADGATES	1	Lump Sum	$		$
8	INSTALL FLUSH BOX AND HEADGATE	1	Lump Sum	$		$
9	INSTALL 30" DELIVERY PIPE	340	Lineal Feet	$		$
10	INSTALL 30" FLUSH PIPE	30	Lineal Feet	$		$
11	INSTALL PRE-FABRICATED STEEL RAMP FLUME	1	Lump Sum	$		$
12	SUPPLY AND PLACE LARGE BOULDER ROCK	320	Cubic Yds	$		$
13	EXCAVATE AND REPLACE STREAM BED SIMULATION MATERIAL	1	Lump Sum	$		$

14	SUPPLY AND PLACE TOPSOIL	100	Cubic Yds	$		$
15	SUPPLY TREES AND INSTALL LARGE WOOD STRUCTURES	2	Each	$		$
16	INSTALL HANDRAIL	52	Lineal Feet	$		$
17	STREAM ISOLATION (PHASE 1 AND PHASE 2)	1	Lump Sum	$		$

BIDDER NAME : _____ TOTAL BID PRICE $ _____

ADDRESS: _____

_____

TELEPHONE NO.: _____

E-MAIL ADDRESS: _____

CONTRACTOR'S BOARD NUMBER: _____

SIGNATURE: _____

CONTRACT SPECIFICATIONS

FOR

RICCO – HALL DITCH DIVERSION REPLACEMENT

CONTRACT

MAY 2018

GRANT SOIL AND WATER CONSERVATION DISTRICT
721 SOUTH CANYON BOULEVARD
JOHN DAY, OREGON 97845

District Directors:

Pat Voigt, Chair
Phil St. Clair, Vice Chair
Roger Ediger, Secretary/Treasurer
Joanne Keerins
Rick Henslee

Point of Contact:

Levi Voigt, District Engineer
(541) 575-0135 ext. 115
levivoigt@ortelco.net

SPECIFICATIONS

RICCO - HALL DITCH DIVERSION

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Sections 1-9 General Requirements

Section - 1 General

A. All work shall conform to the requirements of the contract, bidding documents, plans, special provisions, and Professional and Industrial Standards. Questions regarding the work should be directed to the Grant Soil and Water Conservation District (District). The contractor shall notify the district at least 24 hours prior to commencement of the job.

Section - 2 Construction Plans

A. Contractor shall have a set of approved construction plans available on site during all phases of construction. The drawings are a visual representation to supplement construction and material specifications. The drawings include location, profiles, sections, details and notes necessary to describe the work.

B. No changes are to be made in the drawings or specifications without prior approval of District.

Section - 3 Extra Work

A. No claim for extra work shall be considered or allowed unless such work is approved by the District, in writing prior to commencement of such work.

Section - 4 Legal

A. All work shall be performed in compliance with local, state and federal laws, regulations, and safety requirements.

Section - 5 Permitting

A. All Work is to be Performed in Compliance with the Authorized Department of State Lands Removal/Fill Permit Requirements and NOAA/USFWS Biological Opinions. Erosion Control Measures as needed to Comply with said Permit are Considered Incidental to the Job if not Specifically Identified in a Contract Bid Item.

B. Any Submittals Required by any Permit that is Part of this Project shall be Provided to the Requesting Regulatory Agency within the Time Specified by the Agency.

Section - 6 Equipment

A. All equipment shall be kept clean and free of oil leaks. All leaks developed during construction, shall be repaired immediately. Equipment operators shall be prepared to contain spilled fuel or oil to prevent entry into stream. Contractor to have a spill containment kit on site any time equipment is being used.

B. All equipment shall be kept clean and free of noxious weeds.

Section - 7 Safety

A. The contractor is responsible for the compliance with all state and local laws, ordinances, codes, and/or regulations applicable for the installation.

Section - 8 Environmental Considerations and Restoration

A. The contractor shall, at all times, direct his/her activities in such a manner as to minimize adverse impacts to the environment. Contractor shall confine their work activities to the minimum area necessary to complete the project.

B. Any damage to trails, roads, fences, ditches, fields, existing structures, or creek banks shall be promptly repaired by the contractor to the condition which existed prior to the damage, or replaced at the contractor's expense prior to final approval of the work by the District.

C. All toilet placements will require the approval of the District and/or property owner.

D. Sediment release prevention measures will be taken during construction in accordance with the applicable state and federal regulations.

E. Best Management Practices (BMPS) (e.g., straw bales, silt fences, cofferdams) will be used to minimize the risk of pollution of surface and groundwater, soil, and the atmosphere with any contaminants including hazardous or toxic materials.

F. Any release of contaminants into the environment will require immediate corrective action by the contractor in accordance with applicable state and federal regulations.

G. Staging, refueling, and petroleum storage areas for vehicles and equipment shall be located at least 150 feet from all streams or wetlands.

H. Equipment left on site will use drip pans as necessary to minimize soil contamination from leaks.

I. Equipment used will be inspected by the contracting officer or contracting officer's representative each day and when fueling occurs, to ensure there are no leaks from hydraulic lines or other locations on the equipment. Any leaks will be repaired prior to equipment starting work again.

J. Emergency spill containment equipment will be available at all times to manage any potential petroleum product spills or leaks. If a spill or leak occurs, it will be cleaned

up immediately and appropriate officials notified.

K. No chemical dust suppressants will be used within 25 feet of any waterway. The use of water for dust suppression is preferred.

L. Riparian vegetation to be disturbed or removed will be directed by the District.

M. Areas disturbed by construction will be replanted and/or seeded by the beginning of the next growing season, or at the end of the project if there is sufficient growing time before the onset of cold weather. Site reclamation will include replanting with native vegetation similar to types removed during construction. Replanting and seeding will be performed by others.

N. The proposed work will occur during in-stream work window, which are July 15 to August 15. This work window is designed to protect incubating eggs, fry in the gravels, and spawning adults if passage is maintained at all times during construction.

O. Water will only be drawn from a site approved by NOAA Fisheries and/or USFWS Fisheries biologists. Water drawn from any fish bearing location will use 3/32-inch screens on the intake hose. Fish screen must be installed, operated, and maintained according to NOAA Fisheries' fish screen criteria on each water intake used for project construction, including pumps used to isolate an in-water work area.

P. Ensure that the following materials for emergency erosion control are on site: a supply of sediment control materials (e.g., silt fence, straw bales). All temporary erosion controls shall be in-place and installed down slope of the project activity within 150 feet of the river until site rehabilitation is complete. Restrict use of heavy equipment by selecting equipment that will have the least adverse effects on the environment (e.g., minimally sized, low ground pressure equipment). Complete earthwork (including drilling, excavation, dredging, filling, and compacting) as quickly as possible. Stabilize all disturbed areas following any break in work unless construction will resume within four days. If monitoring or inspection shows that the erosion controls are ineffective, mobilize work crews immediately to make repairs, install replacement, or install additional controls as necessary.

Q. Ensure that an oil-absorbing, floating boom is on site before the primary construction activities occur in the project area. In the case of a pollution event or release, including, but not limited to a fuel spill, notification of the appropriate federal or state agency is required. Contractor shall obtain necessary contact information for relevant agencies prior to construction.

R. Complete work within the active channel during the in-stream work windows and implement the work during daylight hours (½ hour after sunrise to ½ hour before sunset).

S. If a sick, injured, or dead specimen of a threatened or endangered species is found, the finder must notify the nearest field office of NOAA fisheries law enforcement. Contractor shall obtain necessary contact information prior to construction. The finder must take care in handling sick or injured specimens to ensure effective treatment, and in handling dead specimens to preserve biological material in the best possible condition for later analysis of cause of death. The finder also has the responsibility to carry out instruction provided by law enforcement to ensure that evidence intrinsic to the specimen is not disturbed unnecessarily.

T. Ensure the length of any sediment plume resulting from the installation and removal

of the cofferdam does not exceed 100 yards.

U. Provide fish passage for any salmonid species present in the project area during construction.

V. Power is not available. All stationary power equipment (e.g. Generators) operated within 150 feet of any aquatic habitat must be diapered to prevent leaks and/or enclosed in a containment device (e.g. Non-permeable drip pan) of adequate capacity to retain equipment fluids (e.g. Gasoline, diesel fuel, and oil).

W. No in-water stream crossings are planned to complete the project although excavators may need to enter the stream to perform some tasks, except as approved by the US fish and wildlife service.

X. Preserve and protect existing wetland to the greatest extent possible and replace in-kind should damage occur. Wetland boundaries will be marked prior to construction.

Y. Use of existing available public highways, roads, or bridges as haul routes subject to applicable local regulations and necessary precautions will be taken for public safety if applicable.

Z. Cease project operations under high stream flow conditions that may result in inundation of the project area, except for efforts to minimize or eliminate resource damage.

End of Section

Sections 9-15 -- Summary of Work

Section - 9 Allowable In-Stream Work Periods

A. In-stream work conducted during the project is allowed in the live stream channel from July 15 through August 15.

B. During any construction in the stream, the contractor shall provide temporary fish passage. Prior to any in-stream work, the planned temporary fish passage will be approved by the project engineer of the NOAA fisheries office in Portland, Oregon, or the NOAA fisheries approved fish passage engineer of the Oregon State Department of Fish and Wildlife.

Section - 10 Requirement

A. Construct and complete in accordance with contract provisions, these specifications, and the drawings listed in sections 16-20.

Section - 11 Location

A. All work is on the Elmwood Ranch Property on the John Day River, approximately 2 miles west of Prairie City, Oregon in Grant County.

Section - 12 Intent

A. The project replaces an existing push-up irrigation diversion structure which is seasonally constructed out of rip-rap rock and native river channel material with a permanent rock check structure approximately 200 feet upstream from the current diversion. Fish passage will be provided through a low flow channel in the main stream. Operation of the current diversion requires harvesting of gravel out of the river channel with excavation equipment to construct a cam that diverts water into the open ditch delivery system. Dam maintenance requires equipment to disturb the channel several times during irrigation season to increase the height/length as river flows decline over the summer. The existing structure is a fish passage barrier under mid-summer and fall flow conditions. The reach is spawning and migration habitat for listed summer steelhead and spring Chinook Salmon as well as resident home to Bull Trout, Redband Trout and Westslope Cutthroat Trout. The Reach is Spawning and Migration Habitat for Listed Summer Steelhead and Spring Chinook Salmon. Due to the low seasonal flows and high summer water temperatures in the immediate area of the diversion, it is not anticipated that Steelhead or Salmon will be present at the site during the construction period. The proposed project will provide fish

passage under all flow conditions, stabilize and maintain the existing diversion, and will enhance irrigation efficiency for the landowner. The project meets the requirements of the agricultural water quality management plan and the Oregon plan for Salmon and Steelhead.

B. Design Work is funded by Bureau of Reclamation to address the FCRPS BiOP Action Item #149 for Fish Passage.
C. Construction funding is provided by Oregon Watershed Enhancement Board (OWEB).

Section - 13 Sequence of Work

A. The In-Stream work window will be from July 15, 2018 to August 15, 2018.
B. Substantial completion shall be accomplished by September 30, 2018.

Section - 14 Minimum Area

A. Construction impacts will be confided to the minimum area necessary to complete the project.

Section – 15 Isolation of In-Stream Work Area

A. The project utilizes a combination of temporary concrete barriers and plastic, to form a barrier to direct flows away from the work area. The diversion maintenance will be performed in 2 stages to allow river flows to pass the work site with minimal restrictions and reduce the turbidity release from the site. A fish salvage will need to be performed in the isolated work area before construction can begin in that area.

End of Section

Sections 16-20 -- Drawing Information

Section - 16 Cost

A. Include in Prices Offered in the Schedule for other Items of Work.

Section - 17 Quality Assurance

A. Inform the District of any discrepancies, errors, or omissions discovered on the drawings.

Section - 18 Project Conditions

A. Where there are minor differences, as determined by the District Engineer, between details and dimensions shown on the drawings and details and dimensions of existing features at job site, use details and dimensions of existing features at jobsite.

B. It is understood that the contractor, prior to executing the contract, has made careful examination of the plans, specifications and contract; has been fully informed as to the quality and quantity of materials and the character of the work required; and has made careful examination of the location and conditions of the work and sources of supply for materials. It is further understood that the District will in no case be responsible for any loss or for any unanticipated costs that may be suffered by the contractor as a result of the contractor's failure to acquire full information in advance in regard to all conditions pertaining to the work.

Section - 19 Copies of Drawings

A. Upon request, sets of full-sized drawings will be furnished to the contractor for construction purposes.

Section - 20 List of Drawings

A. C1 – Cover Sheet
C2 – Existing Cross Sections and Profile
C3 – Overall Project Plan
C4 – Stream Channel Plan and Profile
C5 – Delivery Pipe Plan and Profile

C6 – Flush Pipe Plan and Profile
C7 – Sheet Steel Wall Detail
C8 – 4-Log Wood Structure Detail
C9 – Concrete Box Installation Detail
C10 – Pre-Fabricated Steel Ramp Flume Installation Detail
C11 – Work Isolation Phase 1
C12 – Work Isolation Phase 2

End of Section

Sections 21-39 – Site Work

Section - 21 Mobilization and Demobilization

A. Contract Work Includes but is not Limited to the Following Activities
   1. Satisfying Insurance Requirement
   2. Job Start Up
   3. Delivery and removal of Equipment to Site
   4. Maintenance and Restoration of Private Access Ways
   5. Repair Incidental Property Damage due to Construction Activities
   6. All Required Work Not Incidental to other Bid Items

B. Payment for this Work is included in the Bid Item: *Mobilization and Demobilization*

C. Measurement for Payment will be by the Lump Sum/All Required Basis

Section - 22 Site Clearing, Preparation, Environmental Protection and Cleanup

A. Contract Work Includes but is not Limited to the Following Activities:
   1. Any Clearing or Removal of Vegetation to Access the Site
   2. Any Work Necessary to Prepare Site for Job
   3. Any Work Necessary to Comply with Environmental Permitting or Requirements of the Law
   4. All Work Necessary to Isolate Work Area from Active Flow to Allow for Construction
   5. Site Cleanup and Restoration of Disturbed Area to Near Original Conditions
   6. All Work Necessary to Contain Sediment in Work and Staging Areas

B. Payment for this Work is included in the Bid Item: *Site Clearing, Environmental Protection and Cleanup*

C. Measurement for Payment will be by the Lump Sum/All Required Basis

Section – 25 Cut Steel Sheet Piling

A. Contract Work Includes but is not Limited to the Following Activities:
   1. Cut Sheet Pile to Lengths as Shown on Plan Sheets or as Directed by the District Engineer.
   2. Cutting of Steel is Performed Off Site (Contractors Yard or at the ODFW Storage Yard) Prior to Transport to the Project Site
   3. Delivery of Cut Steel Sheet Pile, Angle Iron, Fabricated Stanchion Assemblies, and other Miscellaneous Required Items to the Project Site from the ODFW

Storage Yard Located in West John Day on Patterson Bridge Road across from the Federal Building

B. Payment for this Work is included in the Bid Item: *Cut Steel Sheet Piling*

C. Measurement for Payment will be by the Linear Foot.

Section – 26 Install Interlocking Steel Sheet Piling

A. Contract Work Includes but is not Limited to the Following Activities:
   1. Drive Sheet Piling to Line and Grade with an Excavator Mounted Vibratory Compactor. Use NPK Model C6 Vibratory Compactor or Approved Equivalent. Elevations and Locations will be Staked on Site by Grant SWCD Construction Inspector. Average Depth of Driven Sheet Pilings is 3 Feet.
   2. Return All Unused Steel and Scrap to the ODFW Yard

B. Payment for this Work is included in the Bid Item: *Install Interlocking Steel Sheet Piling*

C. Measurement for Payment will be by the Linear Foot

Section – 27 Cap Top of Steel Sheet Piling Walls

A. Contract Work Includes but is not Limited to the Following Activities:
   1. Cap Top of sheet steel wall as specified in the construction plans.
   2. The cap will consist of District Supplied 3"x5"x1/4" steel angle iron.
   3. Attachment shall consist of welding to the top of the sheet steel wall as shown on the Construction Plans.

B. Payment for this Work is included in the Bid Item: *Cap Top of Steel Sheet Piling Walls*

C. Measurement for Payment will be by the Linear Foot.

Section – 28 Abandon Existing Diversion, Regrade Stream, and Remove Infrastructure

A. Contract Work Includes but is not Limited to the Following Activities:
   1. Excavating and removing the existing delivery pipes at the diversion.
   2. Placing the culverts at a storage area (specified by the landowner).
   3. Re-grading the area using spoils from the excavation to create a natural appearing surface.
   4. Filling and re-grading the delivery ditch from the existing ditch inlet to the fish screen using surrounding material and creating a natural appearing surface.
   5. Removing and re-grading the existing streambed to create a natural streambed profile.

B. Payment for this Work is included in the Bid Item: *Abandon Existing Diversion, Regrade Stream, and Remove Infrastructure.*

C. Measurement for Payment will be by the Lump Sum/All Required Basis

Section – 29 Install Inlet Structure and Headgate

A. Contract Work Includes but is not Limited to the Following Activities:
   1. Transport the pre-cast concrete inlet box from the ODFW storage yard to the jobsite.
      a. Casting will be performed by a separate contractor bid separately by the District.
      b. The weight of the concrete inlet structure is approximately 7,800 pounds.
      c. Loading at the storage area will be performed by others.
   2. Excavate to the proper grade specified on the Construction Plans and level the site by the direction of the District Engineer.
   3. Place the concrete inlet box where specified on the Construction Plans.
   4. Using Contractor Supplied Concrete, seal the area between the concrete inlet box and the sheet steel wall to create a water tight area.
   5. Grout the area around the pipe using Contractor Installed non-shrink Grout to create a water tight steel.
   6. Bolt headgate to back of concrete box and create a water tight seal between the headgate and concrete box.
   7. Cut and Install 2x6 DF-L flood boards in the slot provided in the opening of the inlet box.
   8. Transport and install the inlet trash rack in the slot provided in the opening of the inlet box.
   9. Transport and install the steel inlet box lid.

B. Payment for this Work is included in the Bid Item: *Install Inlet Structure and Headgate.*

C. Measurement for Payment will be by the Lump Sum/All Required Basis.

Section – 30 Install Flush Box and Headgates

A. Contract Work Includes but is not Limited to the Following Activities:
   1. Transport the pre-cast concrete flush box from the ODFW storage yard to the jobsite.
      a. Casting will be performed by a separate contractor bid separately by the District.
      b. The weight of the concrete inlet structure is approximately 8,700 pounds.
      c. Loading at the storage area will be performed by others.
   2. Excavate to the proper grade specified on the Construction Plans and level the site by the direction of the District Engineer.
   3. Place the concrete flush box where specified on the Construction Plans.
   4. Grout the area around the flush pipe, inlet delivery pipe, and outlet delivery pipe using Contractor Installed non-shrink Grout to create a water tight steel.
   5. Bolt flush headgate and delivery headgate to back of concrete box and create a water tight seal between the headgates and concrete box.

6. Transport and install the steel flush box lid.

A. Payment for this Work is Included in the Bid Item: *Install flush box and headgates.*

B. Measurement for Payment will be by the Lump Sum/All Required Basis.

Section – 31 Install 30" Delivery Pipe

A. Contract Work Includes but is not Limited to the Following Activities:
   1. Excavation of a trench to the width, depth and grade specified by the plans and/or called for by the District Engineer.
   2. Transporting the 30" HDPE Dual wall delivery pipe and all associated fittings from the ODFW storage yard to the jobsite.
   3. Placing 30" HDPE Dual wall delivery pipe in the trench and ensuring that all joints are sealed.
   4. Backfilling and rehabilitating the excavated area.
   5. Protecting the outlet of the delivery pipe with large boulder rock as indicated on the Construction Plans.

B. Payment for this Work is included in the Bid Item: *Install 30" Delivery Pipe*

C. Measurement for Payment will be the Linear Foot

Section – 32 Install 30" Flush Pipe

A. Contract Work Includes but is not Limited to the Following Activities:
   1. Excavation of a trench to the width, depth and grade specified by the plans and/or called for by the District Engineer.
   2. Transporting the 30" HDPE Dual wall flush pipe and all associated fittings from the ODFW storage yard to the jobsite.
   3. Placing 30" HDPE Dual wall flush pipe in the trench and ensuring that all joints are sealed.
   4. Backfilling and rehabilitating the excavated area.
   5. Protecting the outlet of the flush pipe with large boulder rock as indicated on the Construction Plans.

B. Payment for this Work is included in the Bid Item: *Install 30" Flush Pipe.*

C. Measurement for Payment will be by the Linear Foot.

Section - 33 Install Pre-Fabricated Steel Ramp Flume

A. Contract Work Includes but is not Limited to the Following Activities:
   1. Transport the pre-fabricated steel ramp flume from the ODFW storage yard to the project site.
      a. Casting will be performed by a separate contractor bid separately by the District.
      b. Approximate weight of the pre-fabricated steel ramp flume is 1,000 pounds.

2. Excavate, place, and backfill water measurement flume in existing ditch as shown on the Construction Plan. Some re-grading of the ditch directly above and below the flume may be necessary to obtain the required elevation difference as indicated on the Construction Plans.

B. Payment for this Work is included in the Bid Item: *Install Pre-Fabricated Steel Ramp Flume*

C. Measurement for Payment will be by the Lump Sum/All Required Basis.

Section – 34 Supply and Place Large Boulder Rock

A. Contract Work Includes but is not Limited to the Following Activities:

1. Furnish and Install Additional Clean Riprap Rock to Satisfy Placement Requirements as Shown on Plans.
2. Riprap Shall Conform to the Following Gradation or as Approved by the Grant SWCD Engineer

42 Inch Rip Rap						
Percent of Rock by Mass	**Weight (lbs)**			**Approximate Cubic Dimension (inches)**		
20	2,592	to	4,116	36	to	42
20	1,220	to	2,592	28	to	36
20	152	to	1,220	14	to	28
40	-	to	152	0	to	14

3. Shape Stabilization Rock in and Around the Fish Passage as Directed by Grant SWCD Engineer.

B. Payment for this Work is included in the Bid Item: *Supply and Place Large Boulder Rock*

C. Measurement for Payment will be the Truck Measurement of Delivered Quantity.

Section – 35 Excavate and Replace Stream Bed Simulation Material

A. Contract Work Includes but is not Limited to the Following Activities:

1. Excavating the stream bed area as indicated on the Construction Plans
2. Storing the excavated streambed material to be used in the construction of the Rock Check structure.
3. Installing the excavated streambed material in lifts along with the imported large boulder rock material.
4. Washing in the material using a water pump to ensure a water tight seal in the streambed.

B. Payment for this Work is Included in the Bid Item: *Excavate and Replace Stream Bed Simulation Material.*

C. Measurement for Payment will be by the Lump Sum/All Required Basis

Section – 36 Supply and Place Topsoil

A. Contract Work Includes but is not Limited to the Following Activities:
   1. Furnish additional topsoil mix material to satisfy placement requirements in and around the headgate structure.
   2. Topsoil mix material shall be approved by the District Engineer Prior to delivery to project site.
   3. Shape topsoil mix in and around the portion of existing ditch to be filled and to cover new irrigation delivery pipe as directed by the District Engineer.

B. Payment for this Work is Included in the Bid Item: *Supply and Place Topsoil*

C. Measurement for Payment will be by the Truck Measured Delivered Quantity.

Section – 37 Supply Trees and Install Large Wood Structures

A. Contract Work Includes but is not Limited to the Following Activities:
   1. Locate and harvest large wood (with boles attached) and deliver to site. Tree limbs and roots shall be kept intact as much as possible.
      a. Quantity: 8
      b. Size: 18" diameter, 20' long
   2. Install Large Wood Structures in accordance with the Construction Plans.

B. Payment for this Work is included in the Bid Item: *Supply Trees and Install Large Wood Structures.*

C. Measurement for Payment will be by the Structure Installed.

Section – 38 Install Handrail

A. Contract Work Includes but is not Limited to the Following Activities:
   1. Transport the handrail materials from the ODFW storage yard to the jobsite.
   2. Cut and install the handrail as shown on the Construction Plans.
   3. Handrail posts shall be attached as shown on the Construction Plans.

B. Payment for this Work is Included in the Bid Item: *Install Handrail.*

C. Measurement for Payment will be by the Linear Foot.

Section – 39 Stream Isolation (Phase 1 and Phase 2)

A. Contract Work Includes but is not Limited to the Following Activities:
   1. Transport the number of concrete blocks specified in the Construction Plans from the ODFW storage yard to the jobsite.
   2. Build cofferdams and other structures for the purpose of isolation the construction area from active flow.
      a. The Sealing of the cofferdams shall be up to the approval of the District Engineer.
   3. All work necessary to contain sediment in work and staging areas.
   4. Removing cofferdams and other structures following completion of project.

5. This bid item shall include the work required for both Phase 1 and Phase 2 of the isolation process as defined in the Construction Plans.
6. Transport the concrete blocks back to the ODFW storage yard after instream work is deemed complete.
7. Work to be performed in accordance with permits and approvals from Oregon Department of State Lands and US Army Corps of Engineers using approved materials.

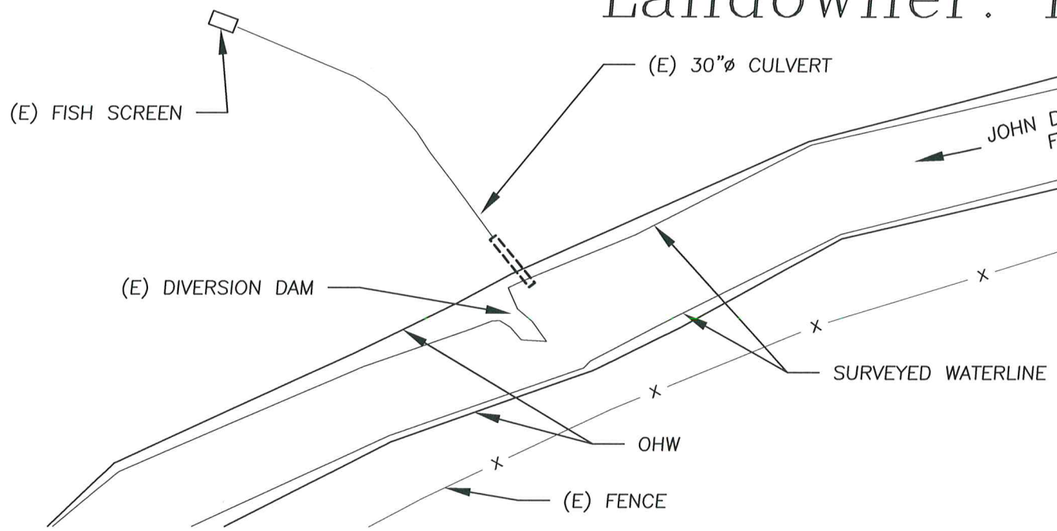
B. Payment for this Work is Included in the Bid Item: *Stream Isolation (Phase 1 and Phase 2)*

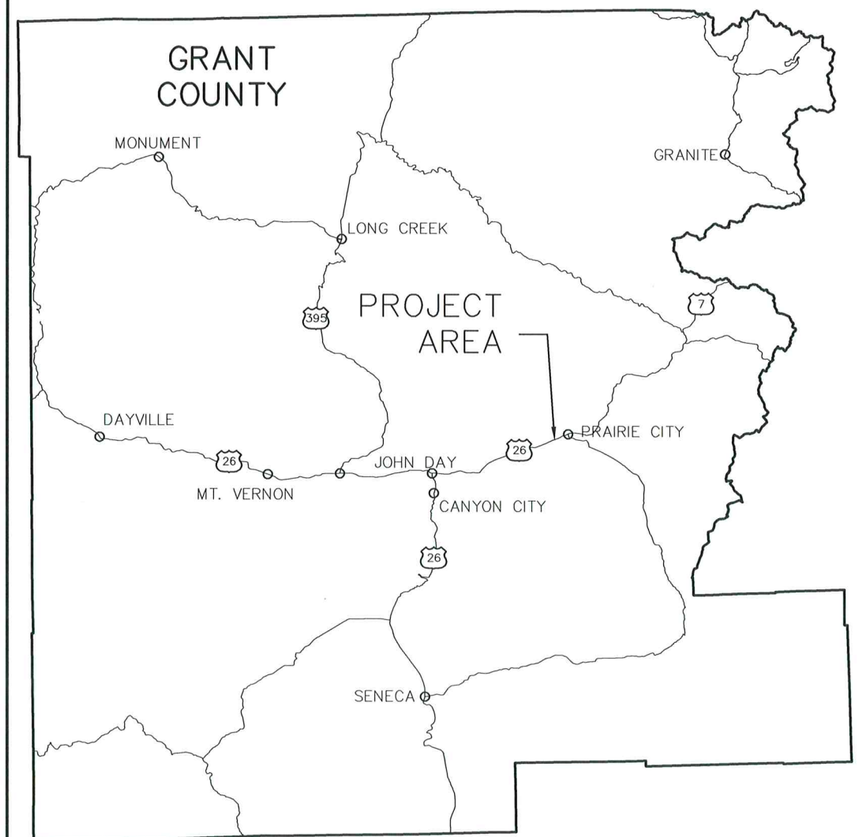
C. Measurement for Payment will be by the Lump Sum/All Required Basis.

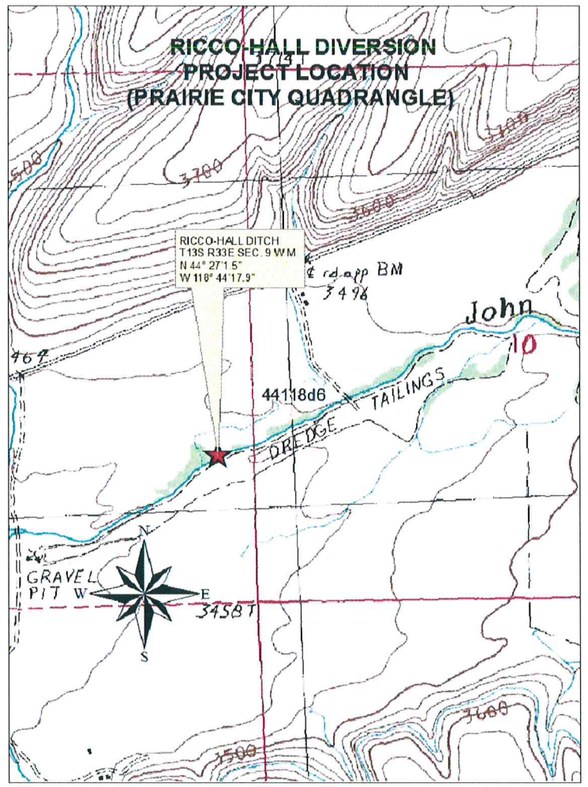
End of Section

RICCO–HALL DITCH DIVERSION

Landowner: Russell Ricco







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C2 –	EXISTING CROSS SECTIONS AND PROFILES	P2 –	CONCRETE FLUSH BOX DETAIL
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C5 –	DELIVERY PIPE PLAN AND PROFILE	F3 –	HEADGATE BACK PLATE AND TRASH RACK DETAIL
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REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT

RENEWS:6/30/2018

RICCO-HALL DITCH DIVERSION

GRANT COUNTY, OREGON

COVER SHEET

GRANT SOIL AND WATER CONSERVATION DISTRICT

721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135

DRAWING: RICCO–HALL–LEVI.dwg

DATE:	JANUARY 2018
SCALE:	NOTED
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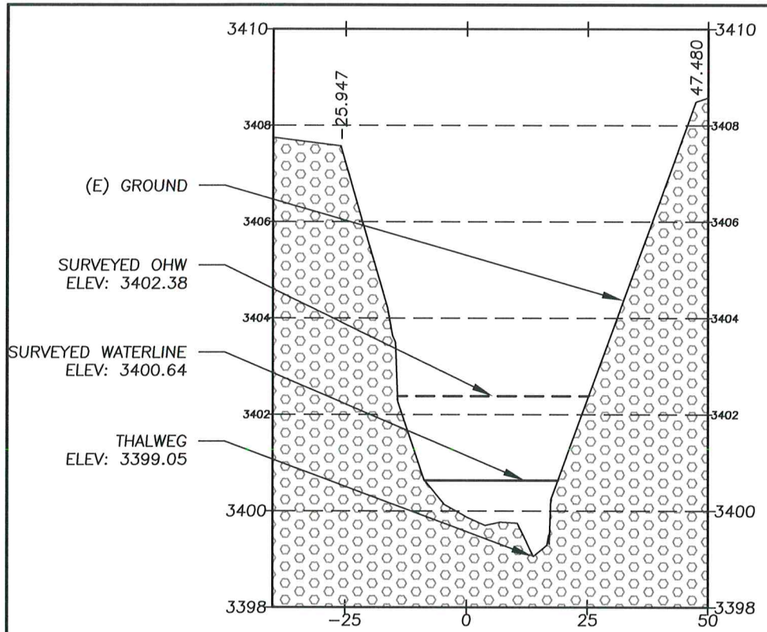

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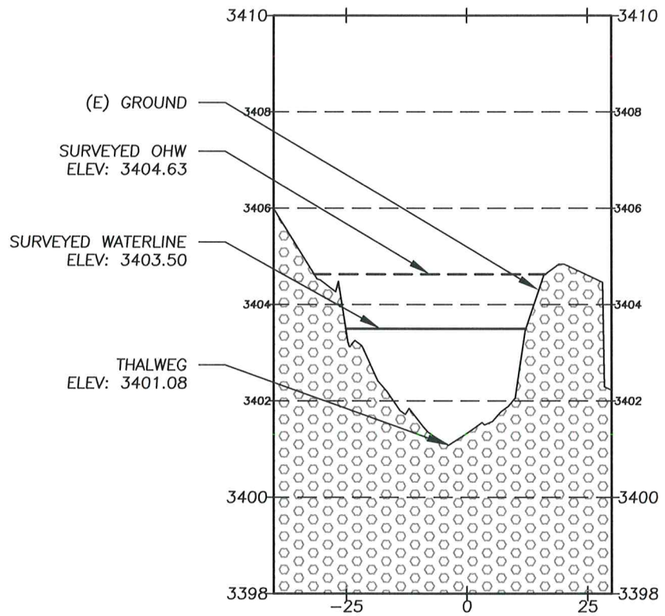

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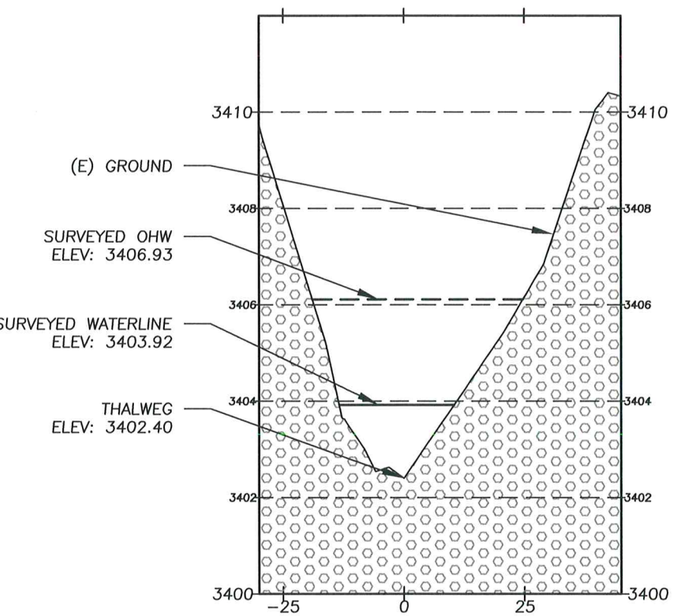

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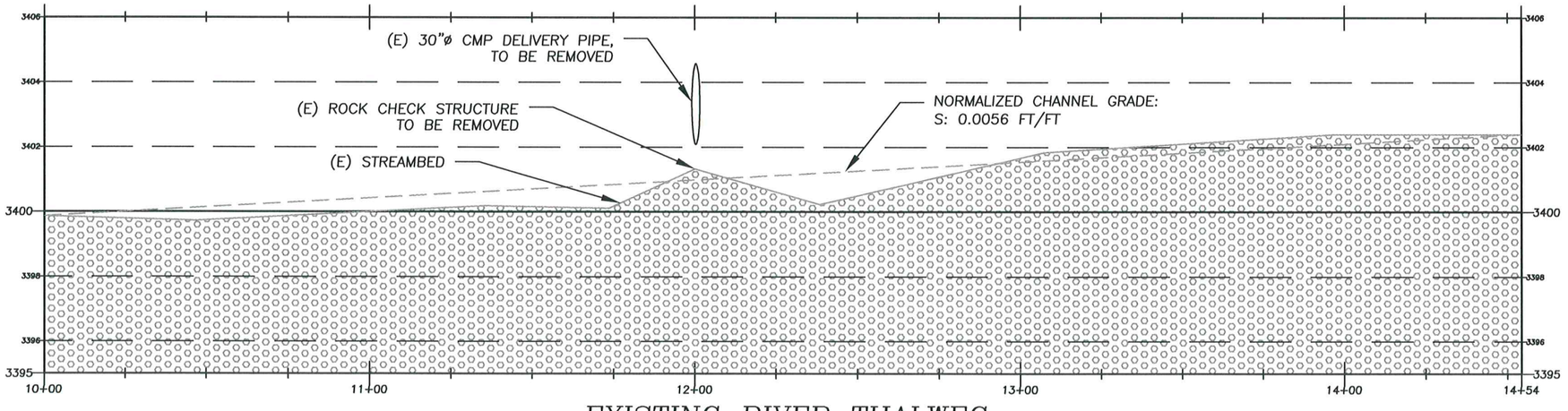

④ EXISTING RIVER THALWEG

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REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT

RENEWS:6/30/2018

RICCO-HALL DITCH DIVERSION

GRANT COUNTY, OREGON

EXISTING CROSS SECTIONS AND PROFILE

GRANT SOIL AND WATER CONSERVATION DISTRICT

721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135
DRAWING: RICCO-HALL-LEVI.dwg

DATE:	JANUARY 2018
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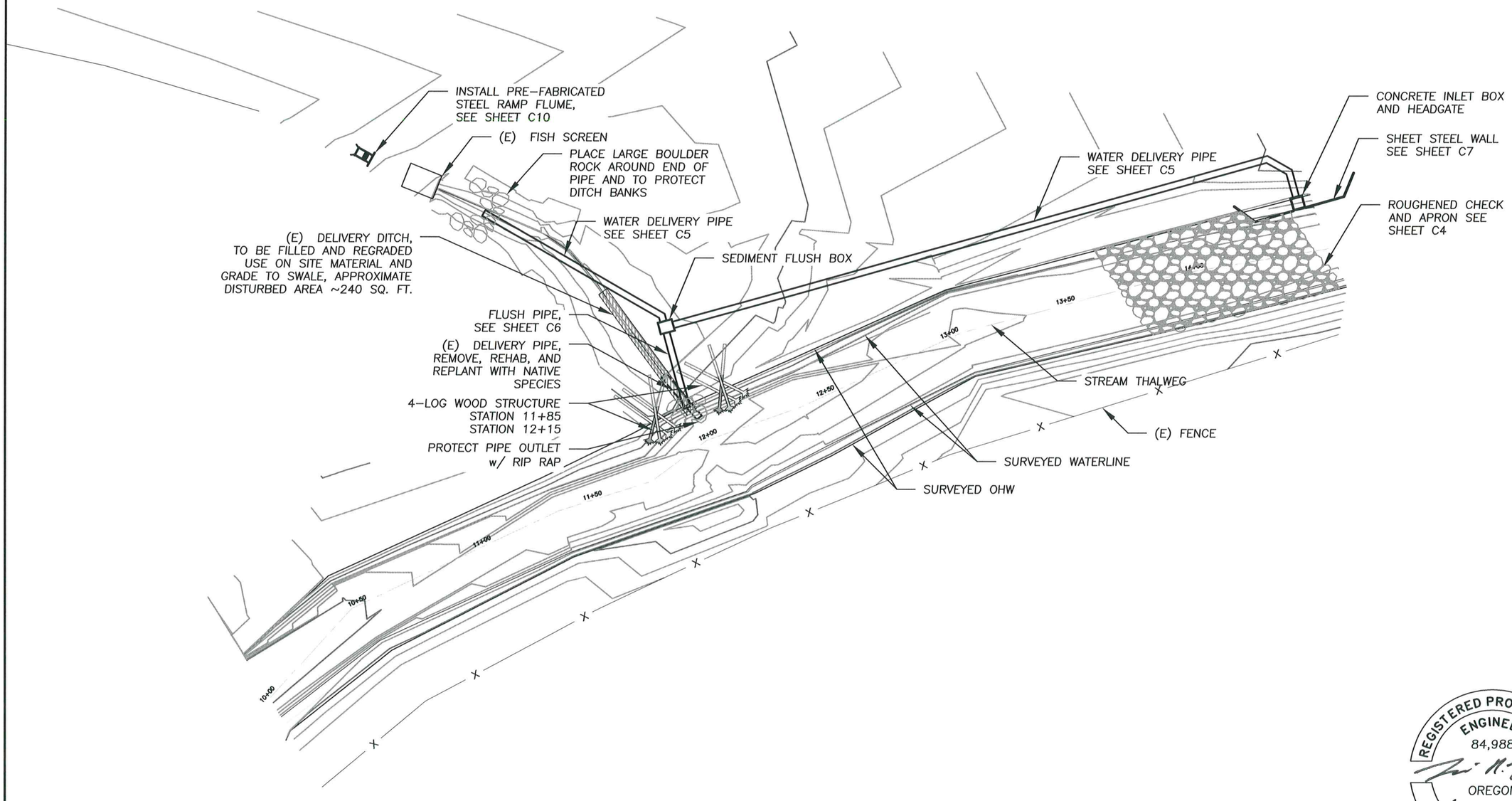

1 OVERALL PROJECT PLAN

SCALE: 1"=40'-0"

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84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT

RENEWS:6/30/2018

OVERALL PROJECT PLAN

RICCO-HALL DITCH DIVERSION

GRANT COUNTY, OREGON

GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135

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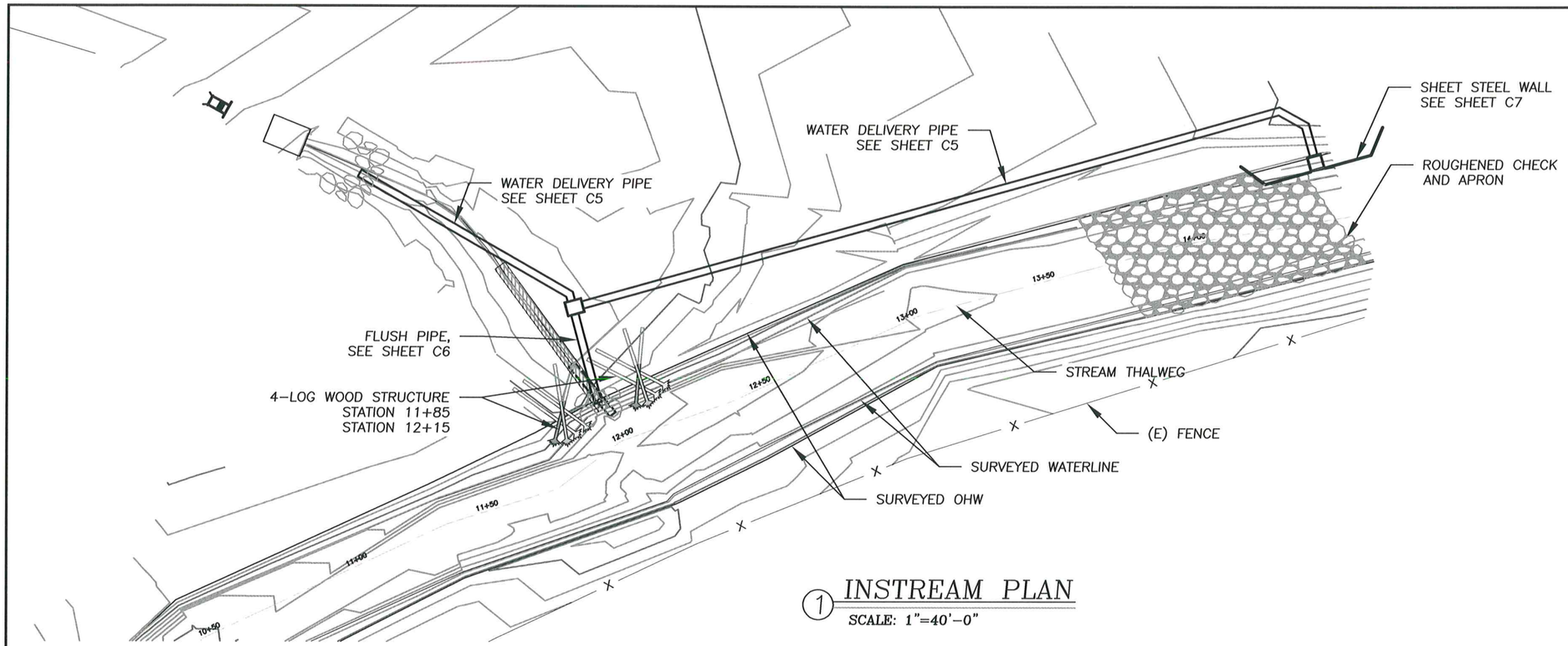

1 INSTREAM PLAN

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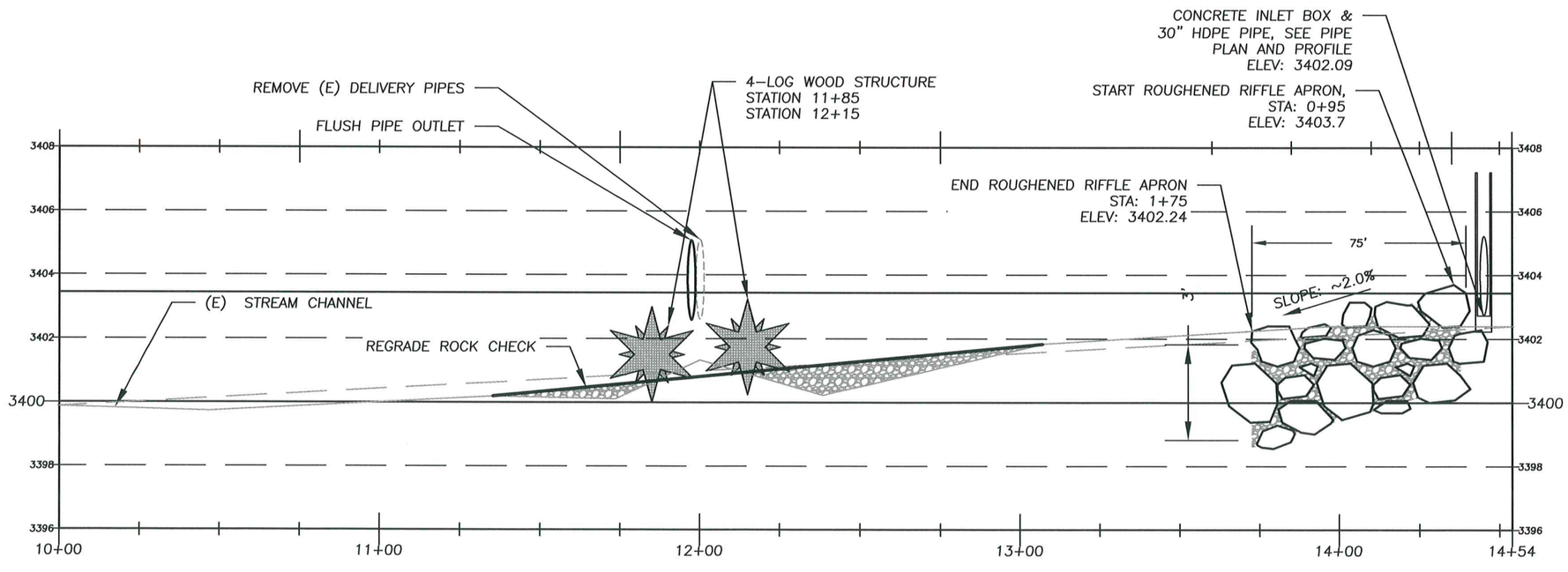

2 INSTREAM PROFILE

SCALE: H: 1"=40'–0" V: 1"=10'–0"

CONSTRUCTION NOTE:

THE APRON AREA SHALL BE EXCAVATED TO THE EXTENTS AND DEPTH SHOWN ON THE CONSTRUCTION PLANS. NATIVE STREAMBED MATERIAL SHALL BE STORED ON SIGHT FOR USE IN THE CONSTRUCTION OF THE NEW APRON. CONSTRUCT THE APRON IN APPROXIMATE 1–2 FOOT LIFTS. LARGE BOULDER ROCK SHALL BE PLACED IN A WAY TO FACILITATE INTERLOCKING OF ROCK. ONCE THE LIFT OF LARGE ROCK IS PLACED, A MIXTURE OF STREAMBED MATERIAL AND FINES SHALL BE WASHED IN TO CREATE A WATER TIGHT SEAL. THIS PROCESS SHALL BE CONTINUED UNTIL THE ELEVATIONS SPECIFIED IN THE PLANS HAVE BEEN ACHIEVED.

REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT

RENEWS:6/30/2018

RICCO-HALL DITCH DIVERSION

GRANT COUNTY, OREGON

INSTREAM PLAN AND PROFILE

GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135
DRAWING: RICCO–HALL–LEVI.dwg

DATE:	JANUARY 2018
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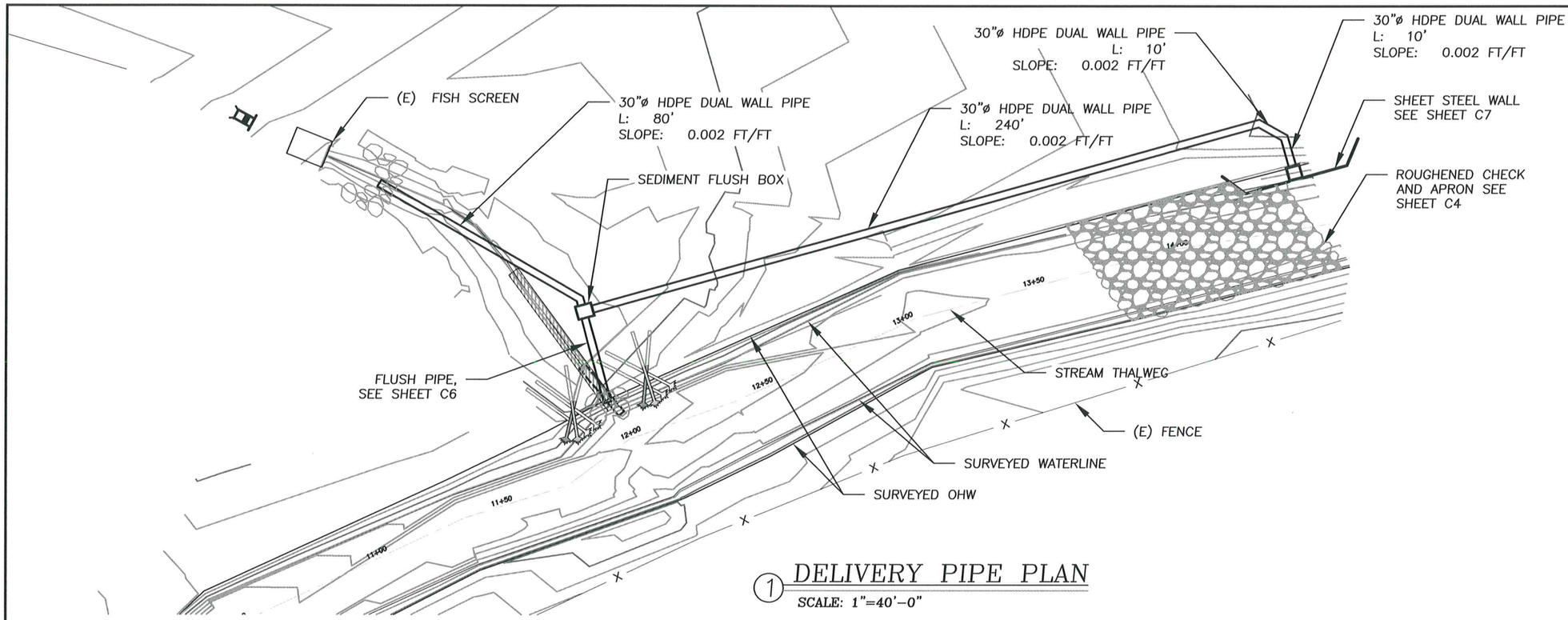

1 DELIVERY PIPE PLAN

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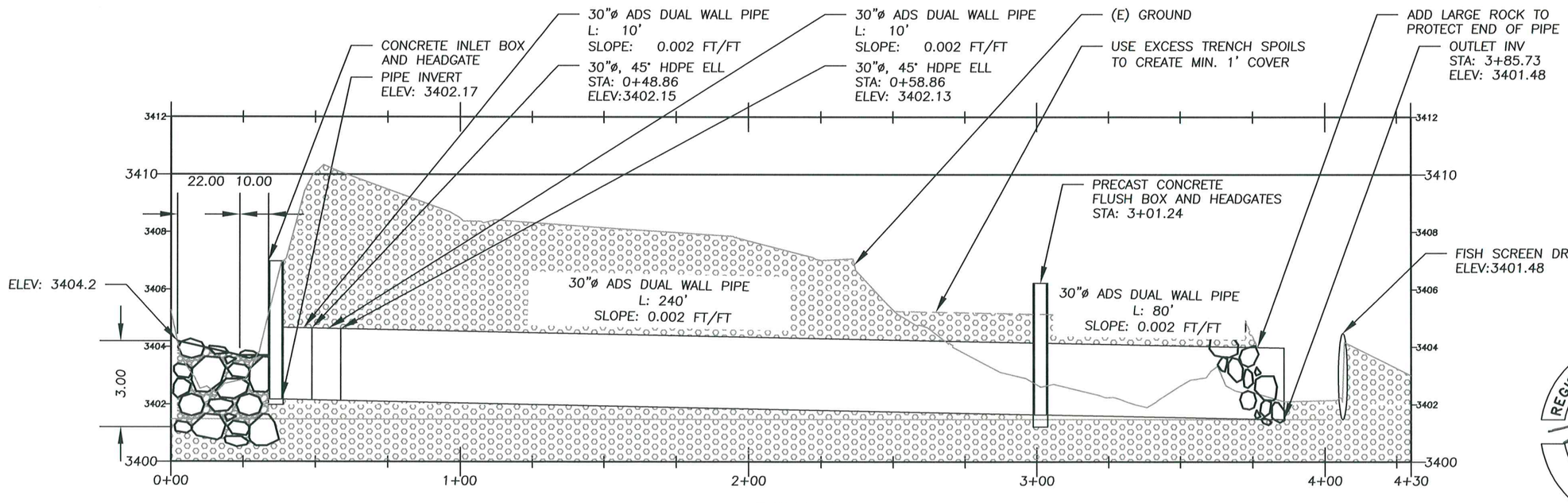

2 DELIVERY PIPE PROFILE

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REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
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RENEWS:6/30/2018

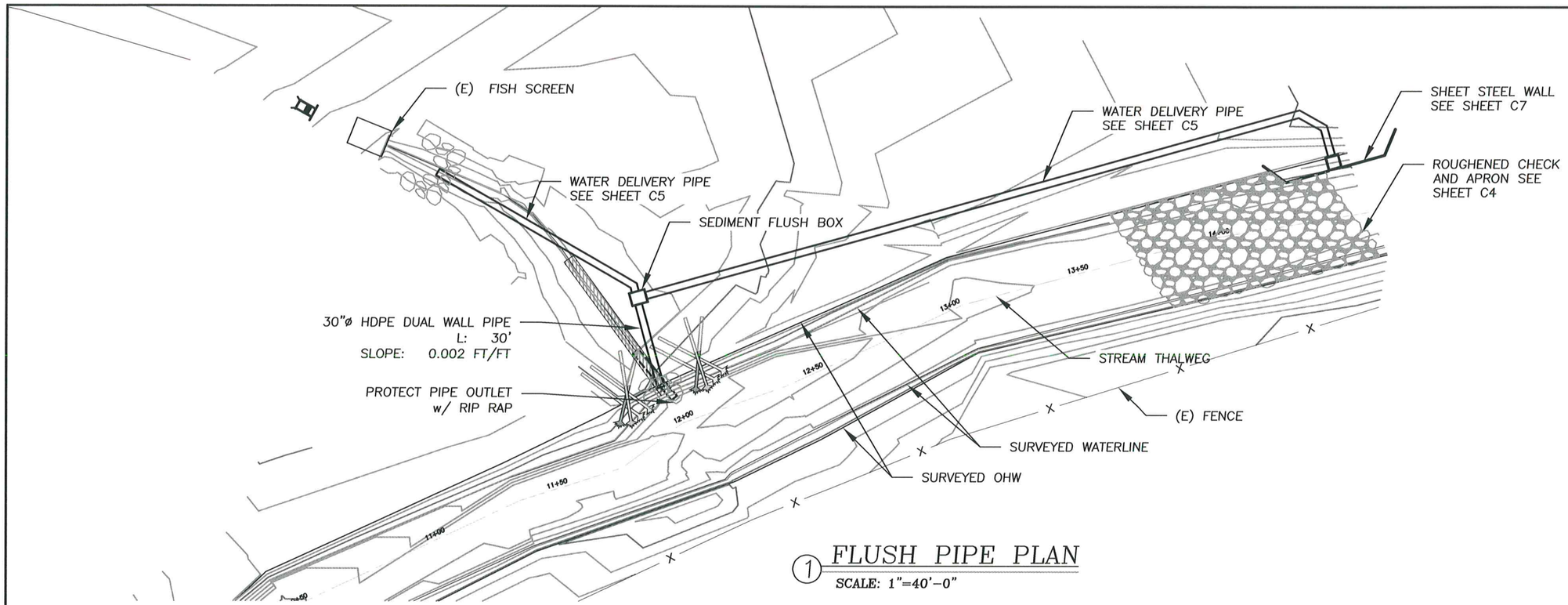
RICCO-HALL DITCH DIVERSION

GRANT COUNTY, OREGON

DELIVERY PIPE PLAN AND PROFILE

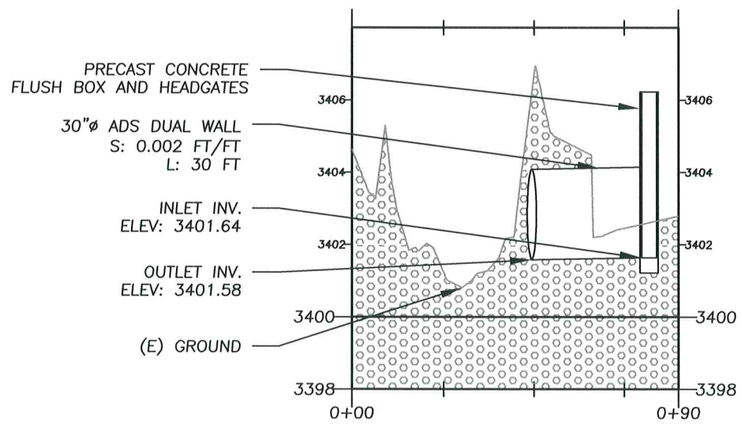
GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135
DRAWING: RICCO-HALL-LEVI.dwg

DATE:	JANUARY 2018
SCALE:	NOTED
DRAWN:	LV
CHECKED:	LV
SHEET	C5
OF	12 SHEETS



1 FLUSH PIPE PLAN

SCALE: 1"=40'-0"



2 FLUSH PIPE PROFILE

SCALE: H: 1"=40'-0" V: 1"=10'-0"

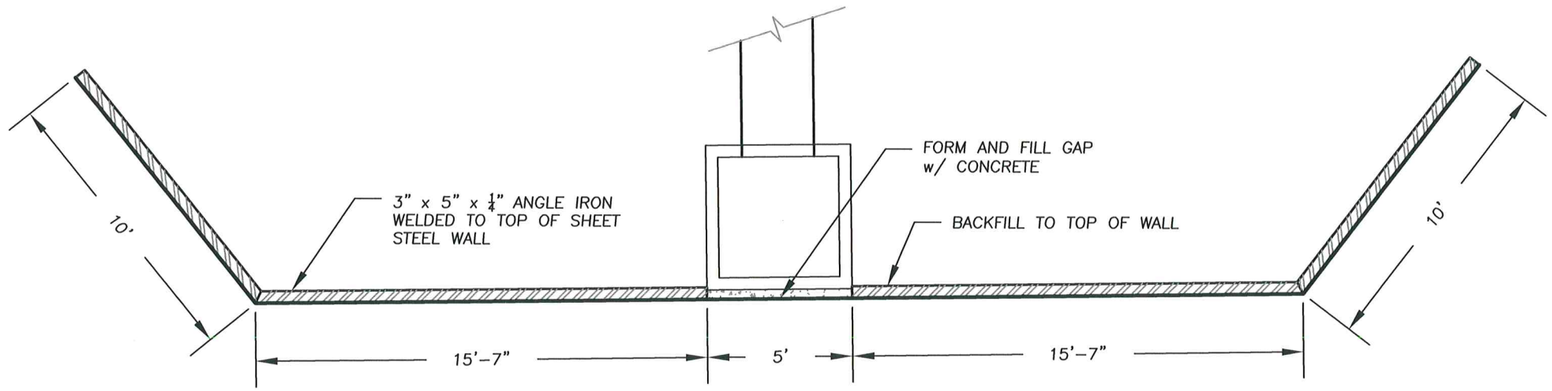
REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT
RENEWS:6/30/2018

RICCO-HALL DITCH DIVERSION
GRANT COUNTY, OREGON

FLUSH PIPE PLAN AND PROFILE

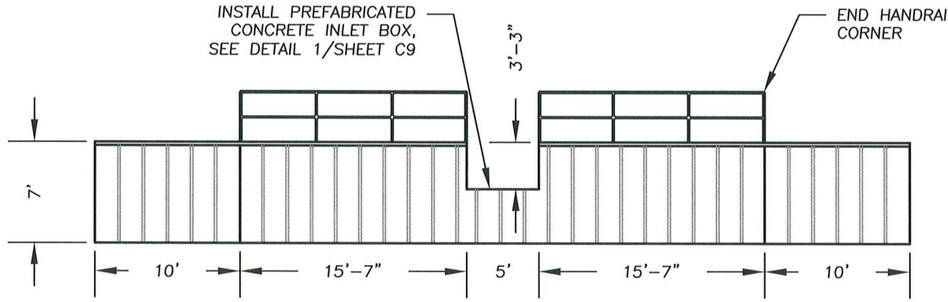
GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135
DRAWING: RICCO-HALL-LEVI.dwg

DATE: JANUARY 2018
SCALE: NOTED
DRAWN: LV
CHECKED: LV
SHEET C6
OF 12 SHEETS



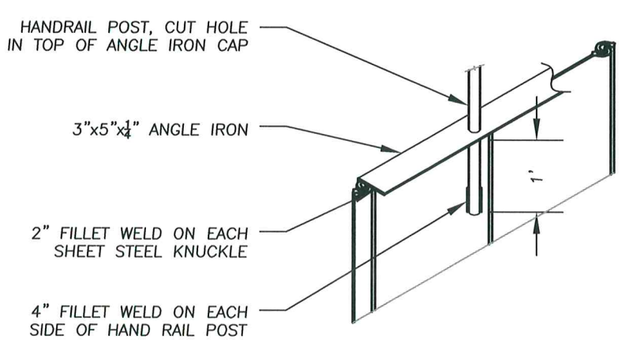
1 SHEET STEEL INSTALLATION PLAN

SCALE: 1"=5'-0"



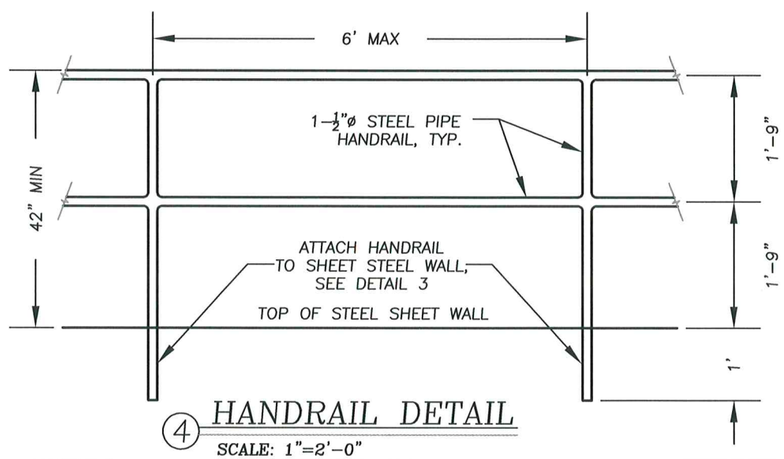
2 SHEET STEEL WALL PROFILE

SCALE: 1"=10'-0"



3 SHEET STEEL WALL DETAIL

SCALE: 1"=2'-0"



4 HANDRAIL DETAIL

SCALE: 1"=2'-0"

REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT
RENEWS:6/30/2018

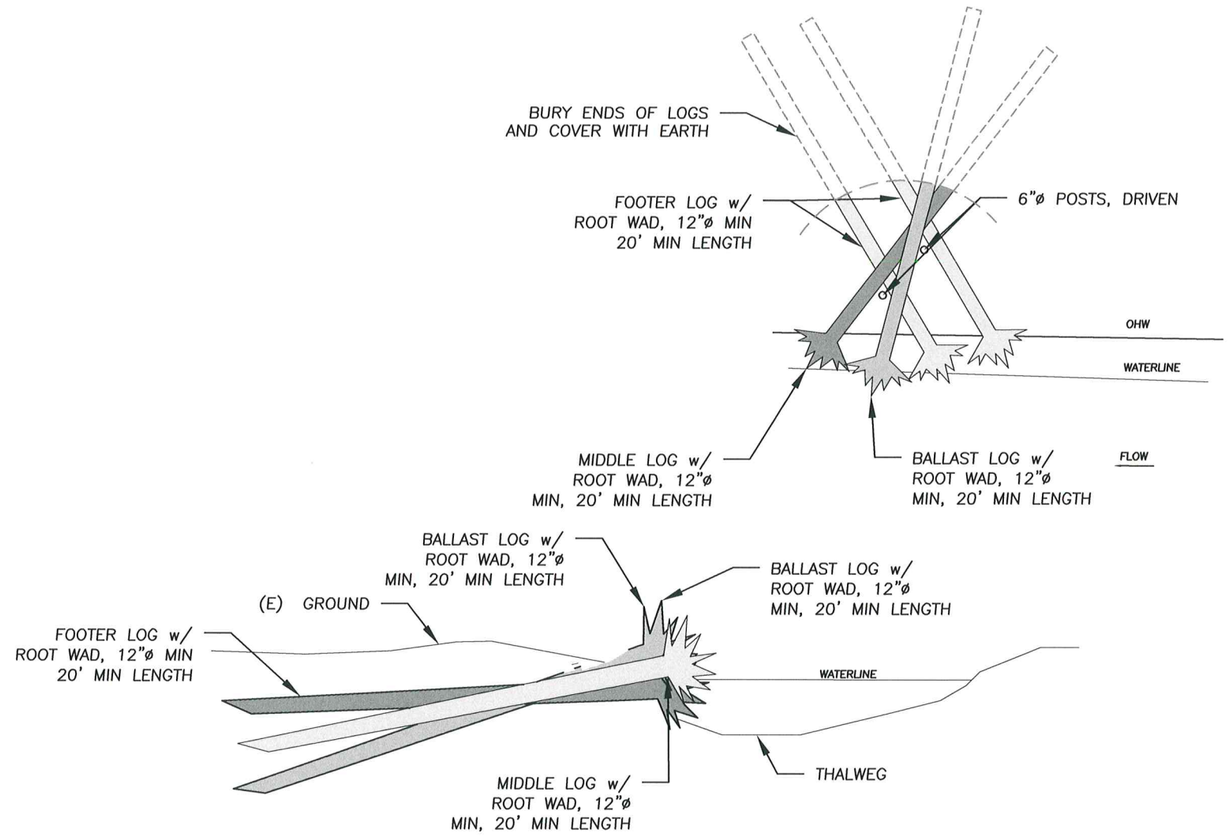
RICCO-HALL DITCH DIVERSION

GRANT COUNTY, OREGON

SHEET STEEL WALL INSTALLATION DETAIL

GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135
DRAWING: RICCO-HALL-LEVI.dwg

DATE:	JANUARY 2018
SCALE:	NOTED
DRAWN:	LV
CHECKED:	LV
SHEET	C7
OF	12 SHEETS



1 4–LOG WOOD STRUCTURE PLAN & PROFILE

SCALE: N.T.S.

REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT
RENEWS:6/30/2018

RICCO-HALL DITCH DIVERSION

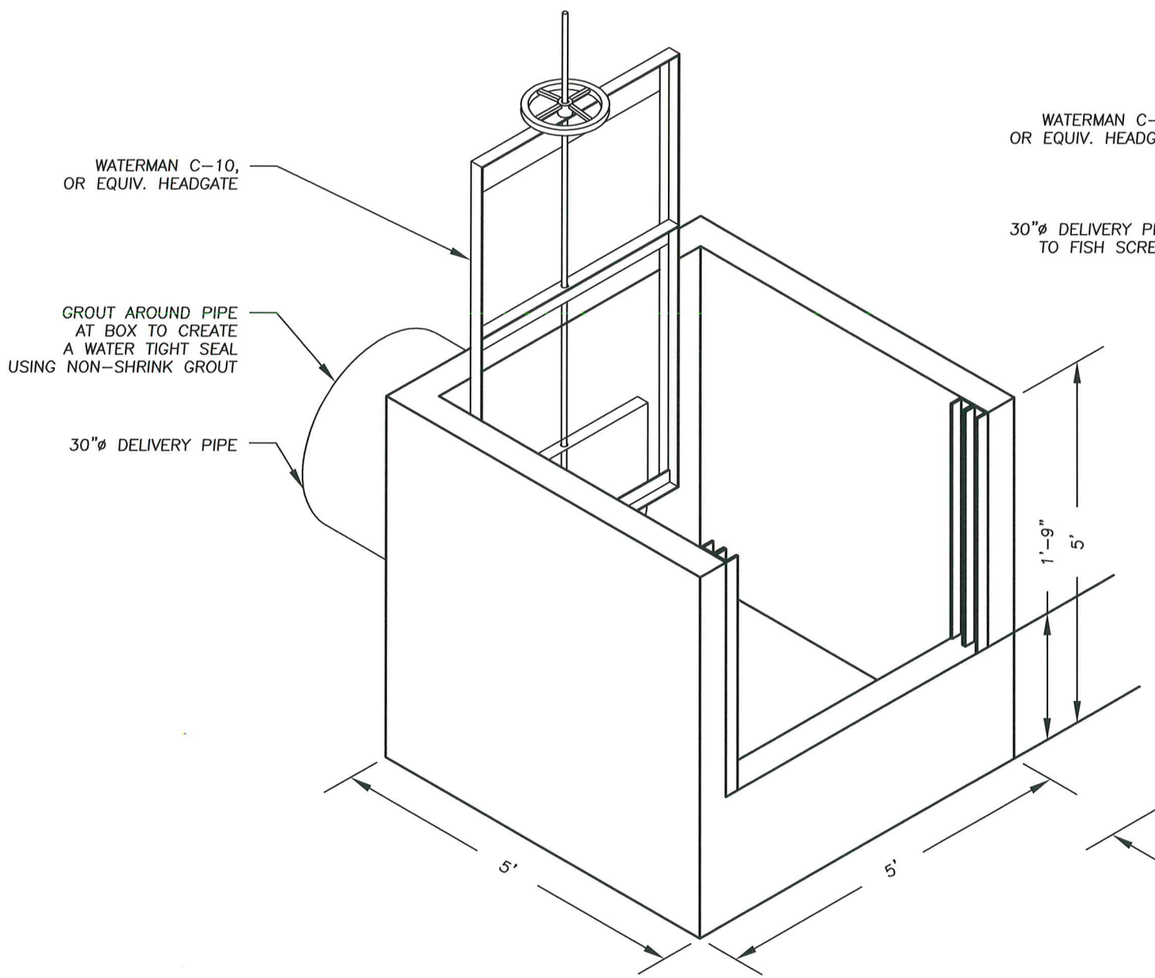
GRANT COUNTY, OREGON

4-LOG WOOD STRUCTURE DETAIL

GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135

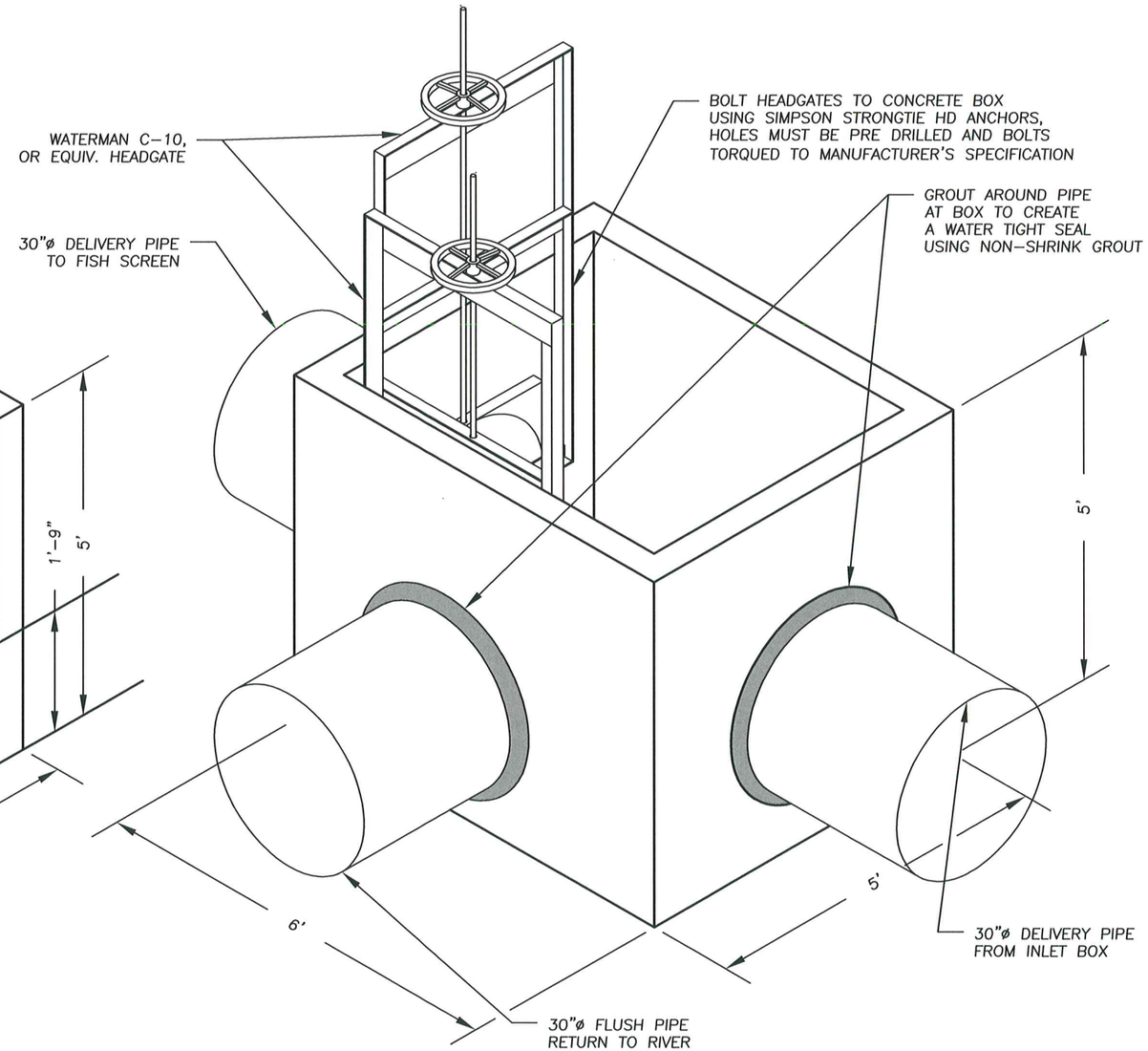
DRAWING: RICCO-HALL-LEVI.dwg

DATE:	JANUARY 2018
SCALE:	NOTED
DRAWN:	LV
CHECKED:	LV
SHEET	C8
OF	12 SHEETS



1 INLET BOX ASSEMBLY DETAIL

SCALE: 1"=2'–0"



2 FLUSH BOX ASSEMBLY DETAIL

SCALE: 1"=2'–0"

REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT
RENEWS:6/30/2018

RICCO-HALL DITCH DIVERSION

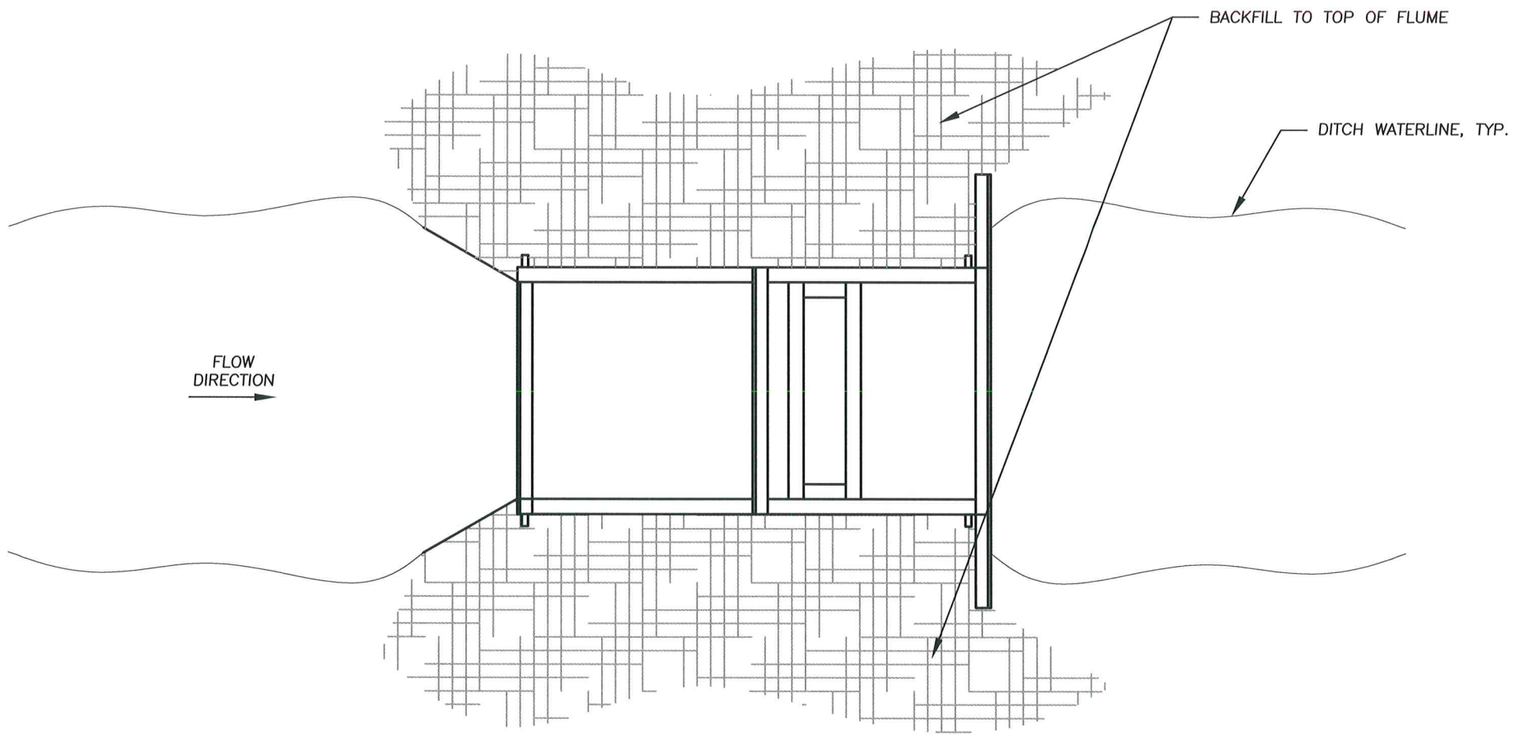
GRANT COUNTY, OREGON

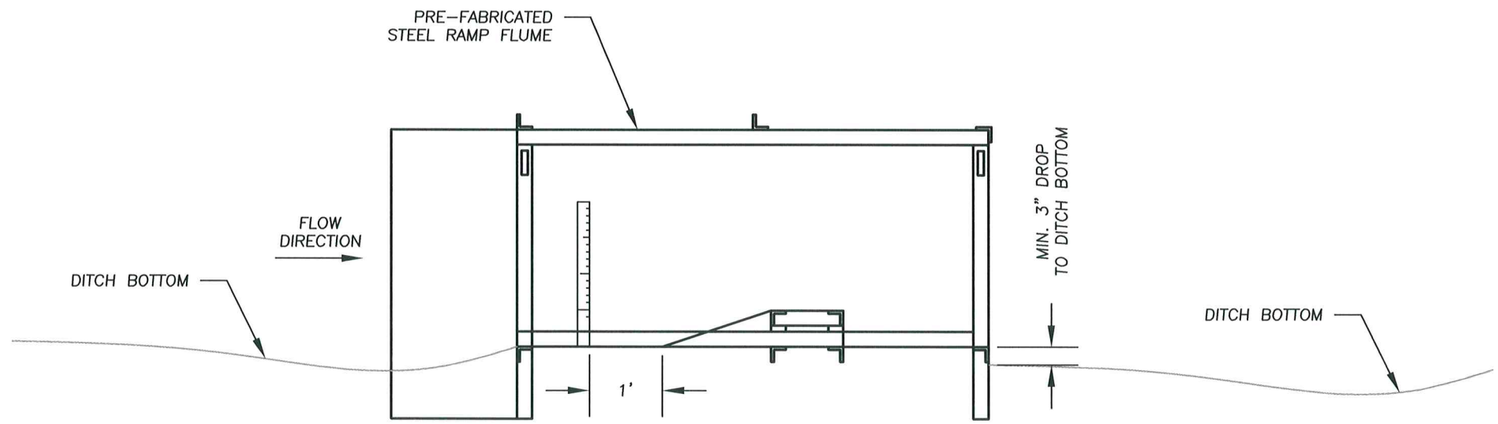
CONCRETE BOX INSTALLATION DETAIL

GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135

DRAWING: RICCO–HALL–LEVI.dwg

DATE:	JANUARY 2018
SCALE:	NOTED
DRAWN:	LV
CHECKED:	LV
SHEET	C9
OF	12 SHEETS





① RAMP FLUME INSTALLATION DETAIL

SCALE: 1"=2'-0"

REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT
RENEWS:6/30/2018

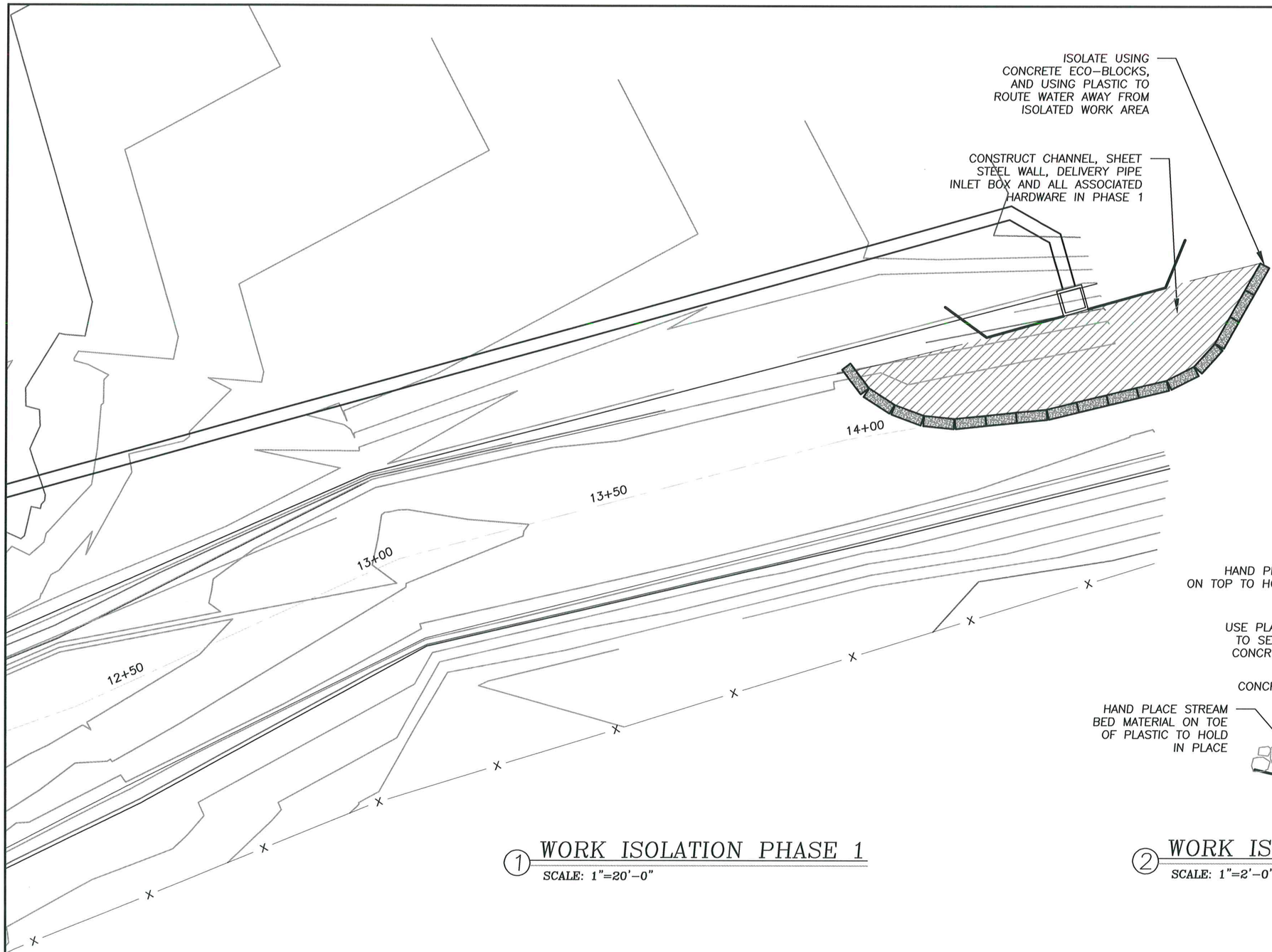
RICCO-HALL DITCH DIVERSION

GRANT COUNTY, OREGON

PRE-FABRICATED STEEL RAMP FLUME INSTALLATION DETAIL

GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135
DRAWING: RICCO-HALL-LEVI.dwg

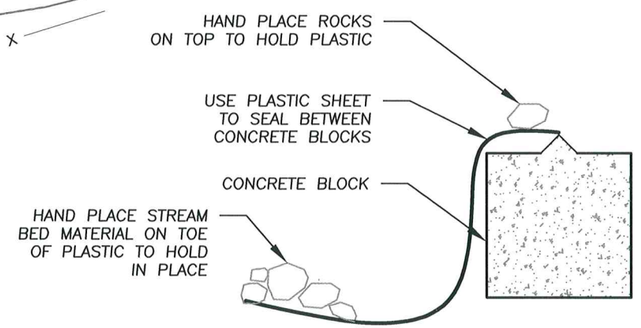
DATE:	JANUARY 2018
SCALE:	NOTED
DRAWN:	LV
CHECKED:	LV
SHEET	C10
OF	12 SHEETS



1 WORK ISOLATION PHASE 1

SCALE: 1"=20'–0"

**ISOLATION SHALL SEAL ADEQUATELY TO PERFORM THE WORK WITHOUT ALLOWING FISH TO ENTER THE ISOLATED AREA. DISTRICT APPROVAL IS REQUIRED BEFORE ISOLATION CAN BE DEEMED COMPLETE



2 WORK ISOLATION BLOCK DETAIL

SCALE: 1"=2'–0"

REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT
RENEWS:6/30/2018

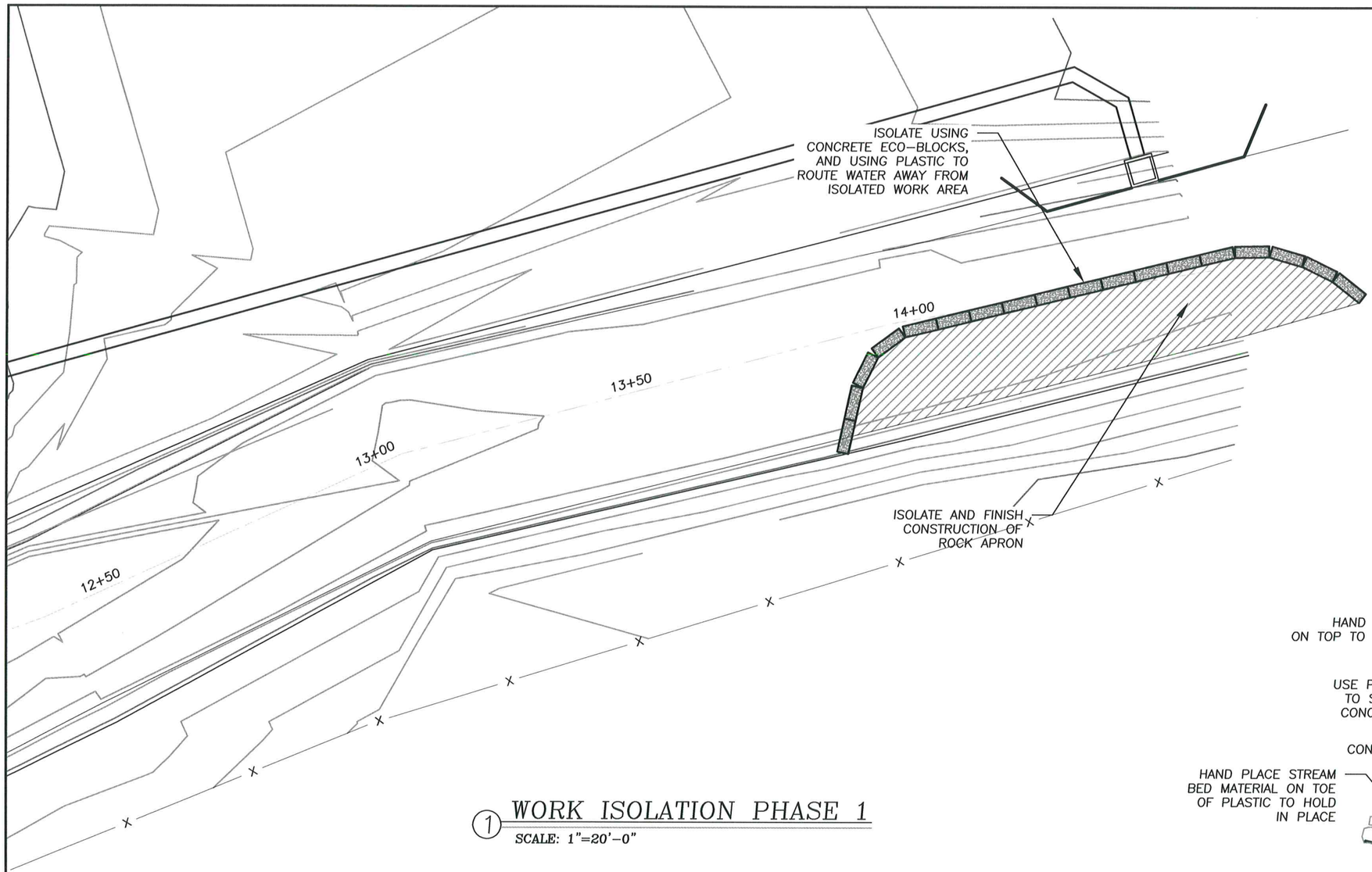
RICCO-HALL DITCH DIVERSION

GRANT COUNTY, OREGON

WORK ISOLATION PHASE 1

GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135
DRAWING: RICCO–HALL–LEVI.dwg

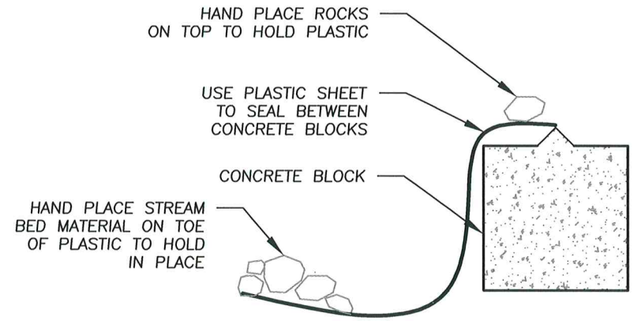
DATE:	JANUARY 2018
SCALE:	NOTED
DRAWN:	LV
CHECKED:	LV
SHEET	C11
OF	12 SHEETS



1 WORK ISOLATION PHASE 1

SCALE: 1"=20'–0"

**ISOLATION SHALL SEAL ADEQUATELY TO PERFORM THE WORK WITHOUT ALLOWING FISH TO ENTER THE ISOLATED AREA. DISTRICT APPROVAL IS REQUIRED BEFORE ISOLATION CAN BE DEEMED COMPLETE



2 WORK ISOLATION BLOCK DETAIL

SCALE: 1"=2'–0"

REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT

RENEWS:6/30/2018

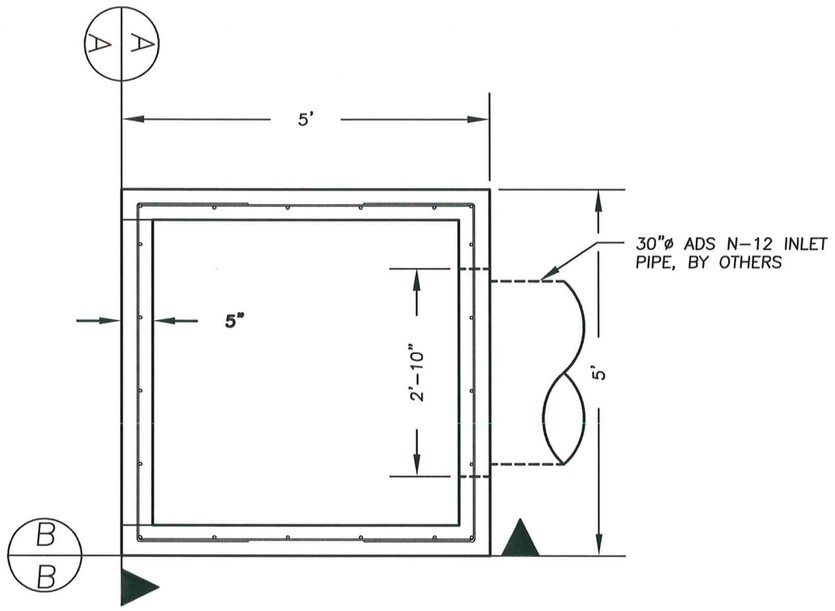
RICCO-HALL DITCH DIVERSION

GRANT COUNTY, OREGON

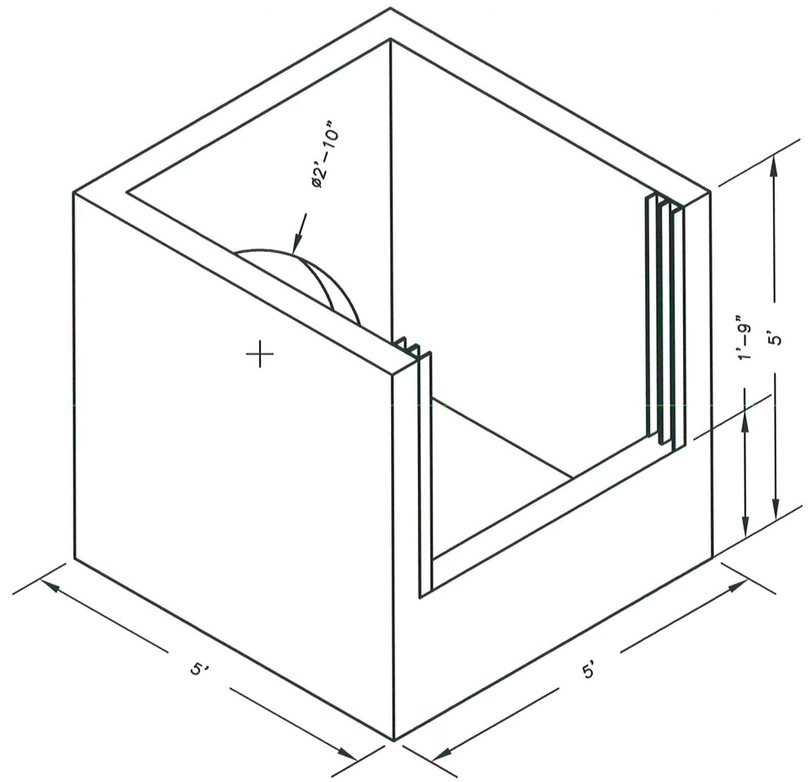
WORK ISOLATION PHASE 2

GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135
DRAWING: RICCO–HALL–LEVI.dwg

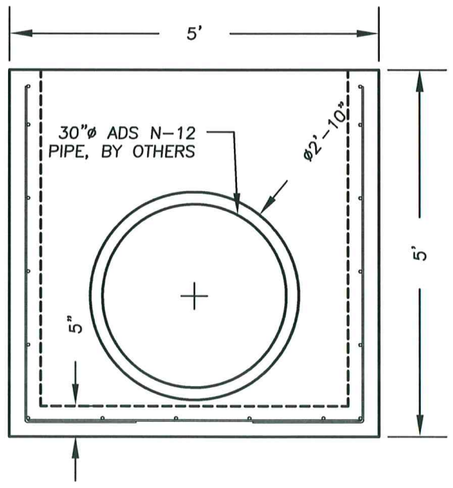
DATE: JANUARY 2018	
SCALE: NOTED	
DRAWN: LV	
CHECKED: LV	
SHEET	C12
OF 12	SHEETS



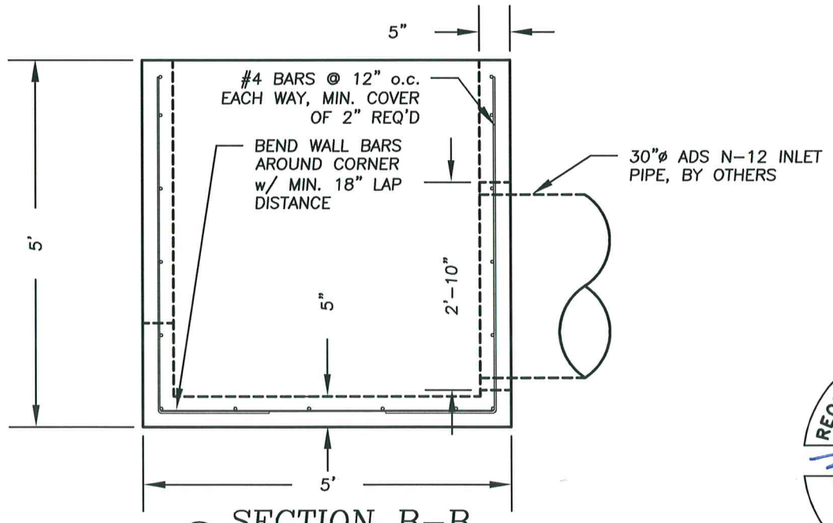
1 PLAN VIEW
SCALE: 1"=2'-0"



2 ISOMETRIC VIEW
SCALE: 1"=2'-0"



3 SECTION A-A
SCALE: 1"=2'-0"



4 SECTION B-B
SCALE: 1"=2'-0"

REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT
RENEWS:6/30/2018

RICCO-HALL DITCH DIVERSION

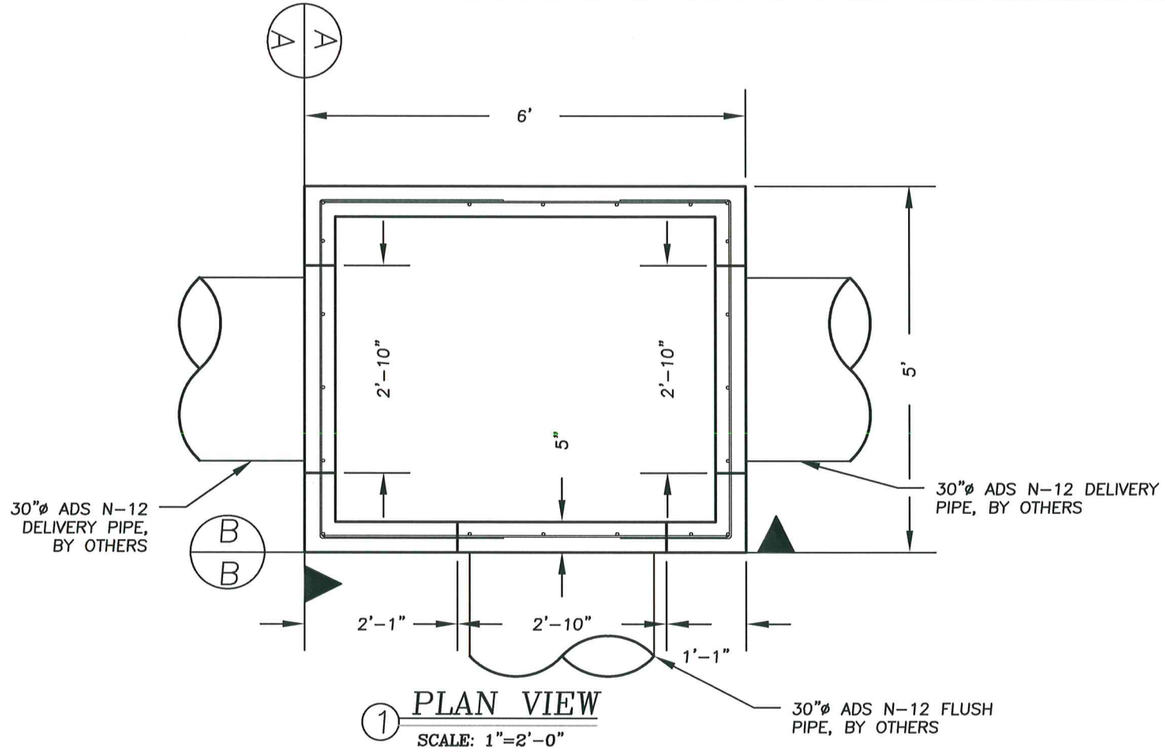
GRANT COUNTY, OREGON

CONCRETE HEADGATE
DELIVERY BOX DETAIL

GRANT SOIL AND WATER
CONSERVATION DISTRICT

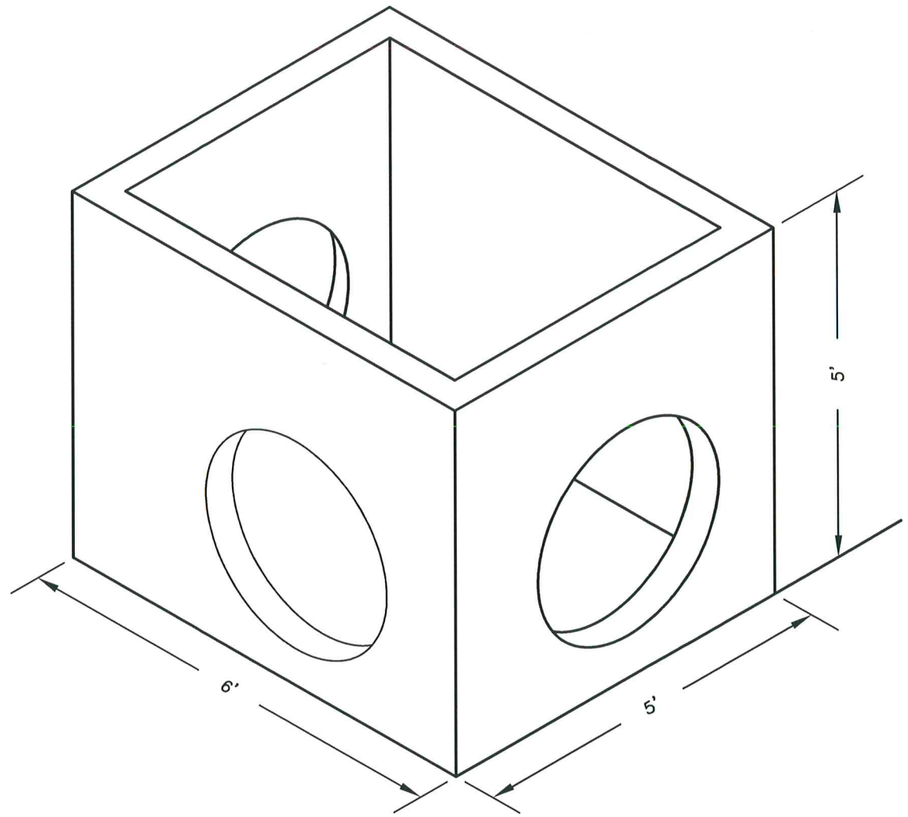
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135
DRAWING: RICCO-HALL-LEVI.dwg

DATE: JANUARY 2018	
SCALE: NOTED	
DRAWN: LV	
CHECKED: LV	
SHEET	P1
OF 2	SHEETS



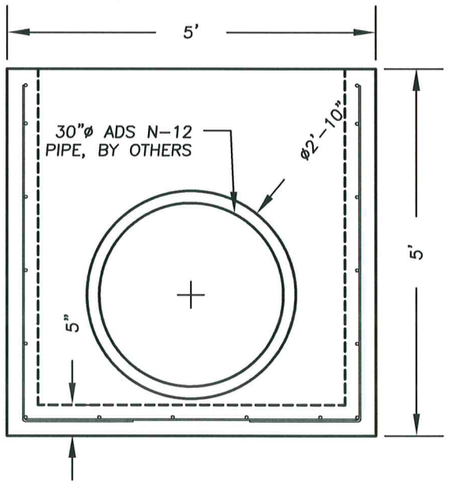
1 PLAN VIEW

SCALE: 1"=2'-0"



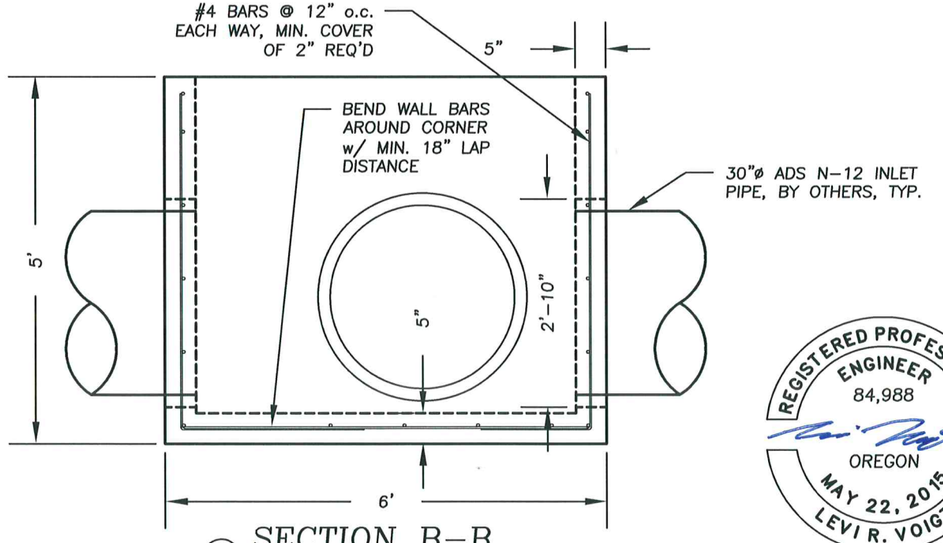
2 ISOMETRIC VIEW

SCALE: 1"=2'-0"



3 SECTION A-A

SCALE: 1"=2'-0"



4 SECTION B-B

SCALE: 1"=2'-0"

REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT

RENEWS:6/30/2018

CONCRETE FLUSH BOX DETAIL

RICCO-HALL DITCH DIVERSION

GRANT COUNTY, OREGON

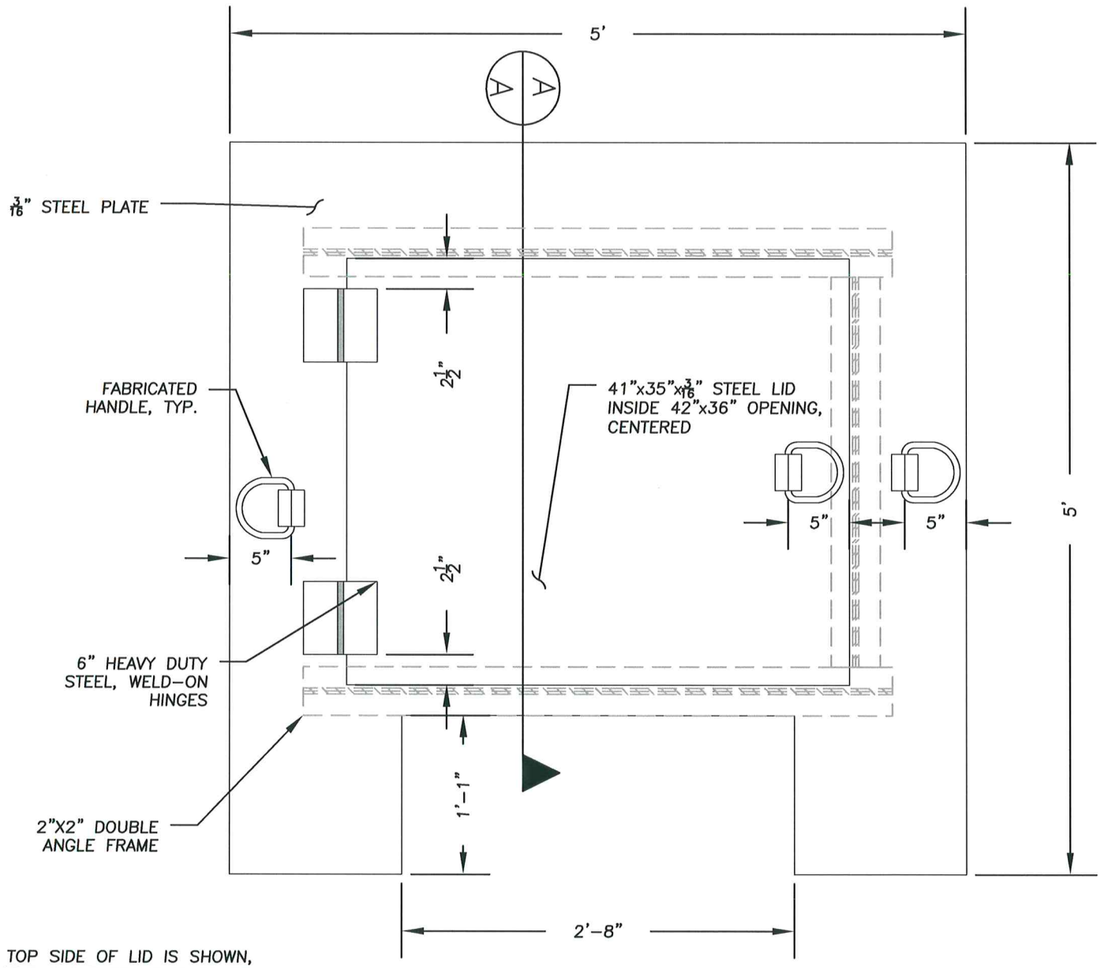
GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135

DRAWING: RICCO-HALL-LEVI.dwg

DATE: JANUARY 2018
SCALE: NOTED
DRAWN: LV
CHECKED: LV

SHEET P2

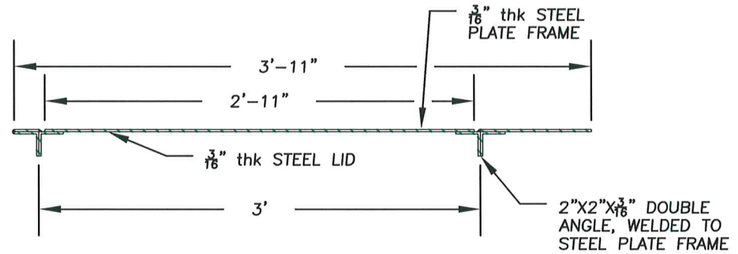
OF 2 SHEETS



NOTE:
(1) TOP SIDE OF LID IS SHOWN, DOUBLE ANGLE FRAME IS TO BE WELDED ON BOTTOM SIDE
(2) HANDLES SHALL BE FABRICATED WITH L3x1-½x1-½ AND ½"ø ROUND STOCK BENT INTO HANDLE, OR PRE-FABRICATED "D-RING" TYPE HANDLE

① DELIVERY BOX LID PLAN VIEW

SCALE: 1"=1'-0"



② SECTION A-A

SCALE: 1"=1'-0"

REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT
RENEWS:6/30/2018

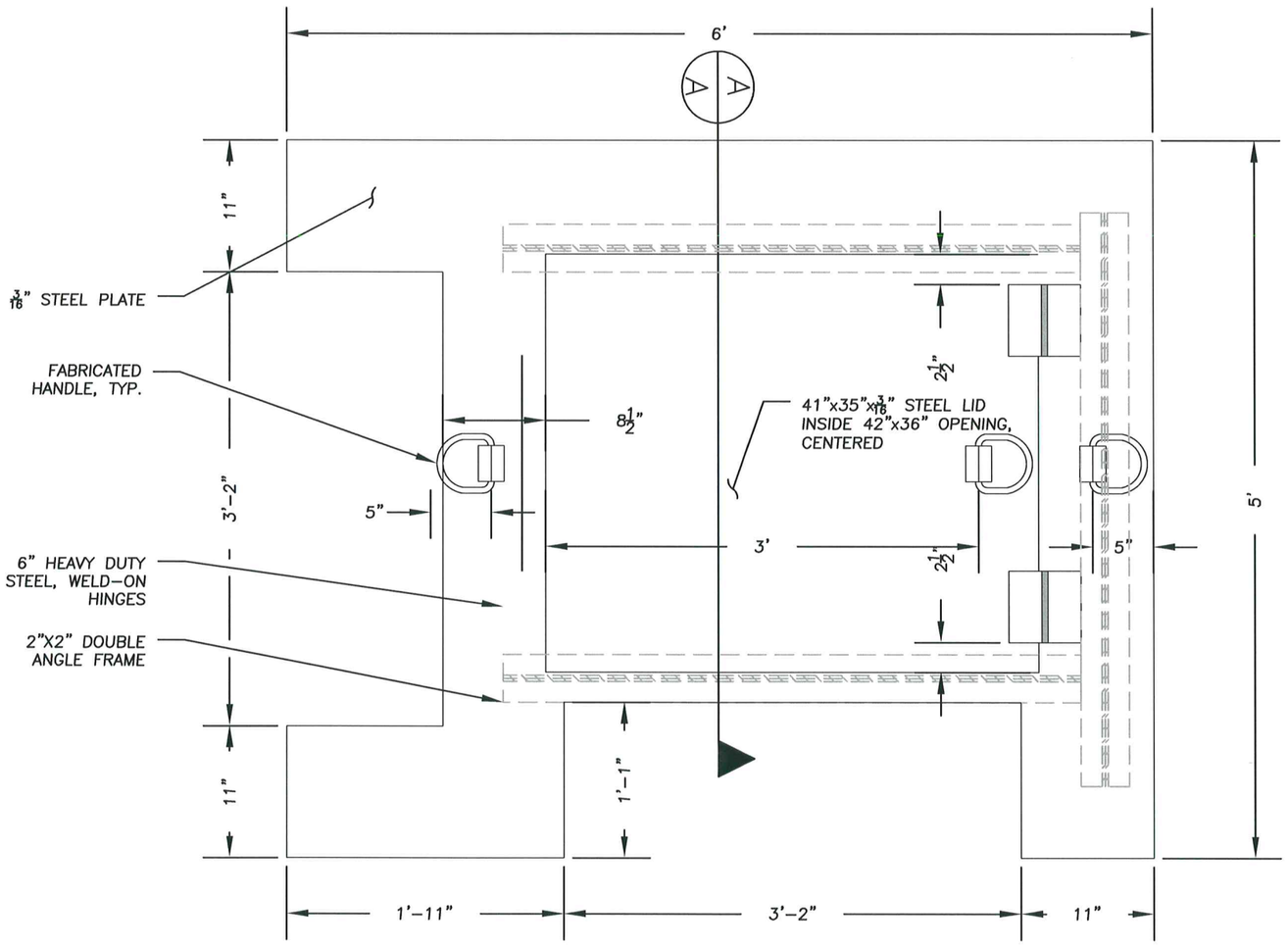
DELIVERY BOX LID DETAIL

RICCO-HALL DITCH DIVERSION

GRANT COUNTY, OREGON

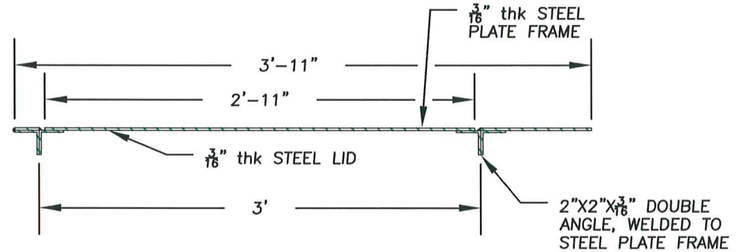
GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135
DRAWING: RICCO-HALL-LEVI.dwg

DATE: JANUARY 2018
SCALE: NOTED
DRAWN: LV
CHECKED: LV
SHEET F1
OF 4 SHEETS



1 FLUSH BOX LID PLAN VIEW

SCALE: 1"=1'-0"



2 SECTION A-A

SCALE: 1"=1'-0"

NOTE:
(1) TOP SIDE OF LID IS SHOWN, DOUBLE ANGLE FRAME IS TO BE WELDED ON BOTTOM SIDE
(2) HANDLES SHALL BE FABRICATED WITH L3x1-1/2x1-1/2 AND 1/2"ø ROUND STOCK BENT INTO HANDLE, OR PRE-FABRICATED "D-RING" TYPE HANDLE

REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT

RENEWS:6/30/2018

RICCO-HALL DITCH DIVERSION

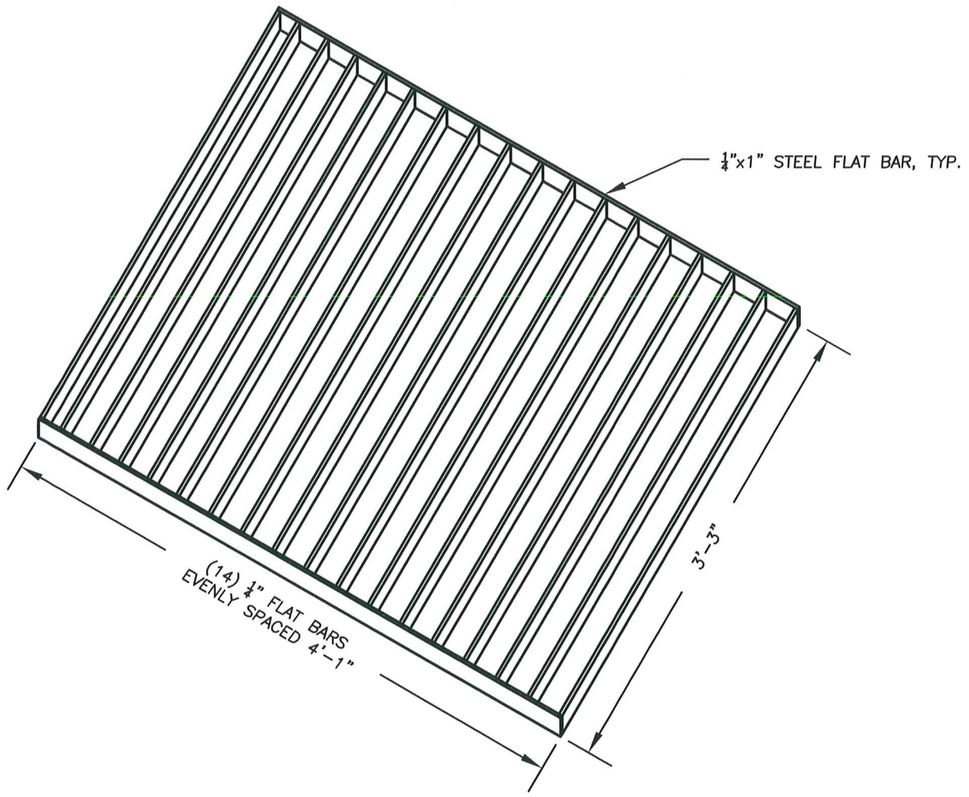
GRANT COUNTY, OREGON

FLUSH BOX LID DETAIL

GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135

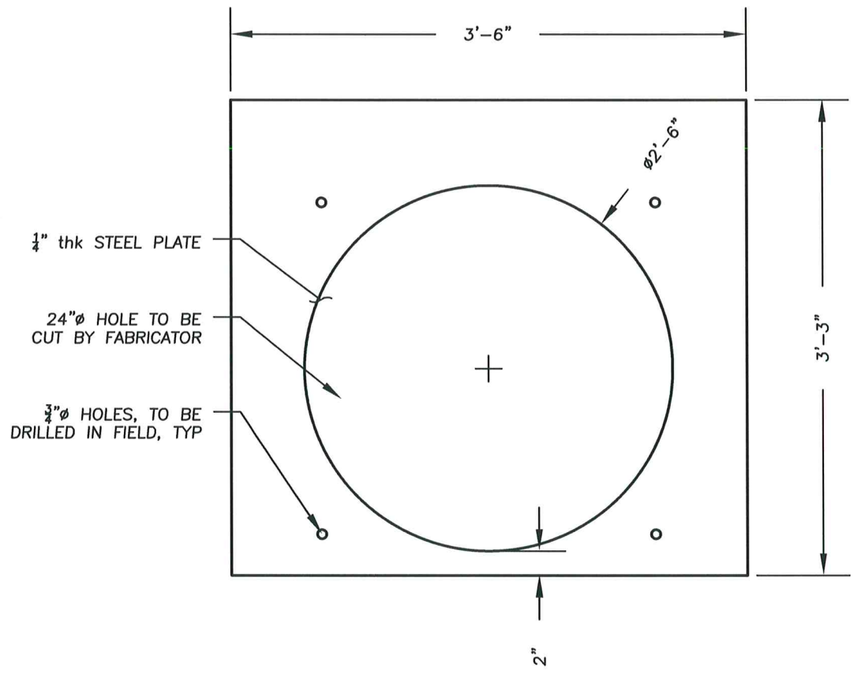
DRAWING: RICCO-HALL-LEVI.dwg

DATE: JANUARY 2018	
SCALE: NOTED	
DRAWN: LV	
CHECKED: LV	
SHEET	F2
OF 4	SHEETS



1 RICCO–JDR TRASH RACK

SCALE: 1"=1'–0"



2 30" HEADGATE BACK PLATE

SCALE: 1"=1'–0"

REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT
RENEWS:6/30/2018

RICCO-HALL DITCH DIVERSION

GRANT COUNTY, OREGON

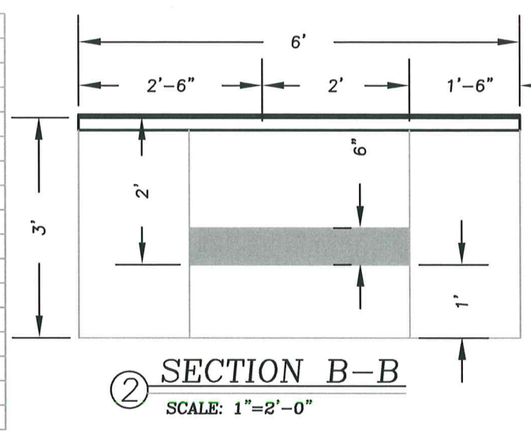
HEADGATE BACK PLATE AND TRASH RACK DETAIL

GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135

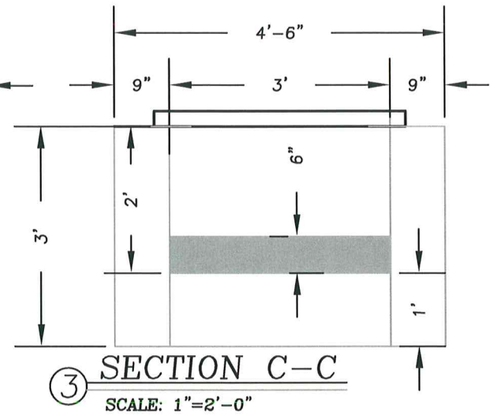
DRAWING: RICCO–HALL–LEVI.dwg

DATE: JANUARY 2018	
SCALE: NOTED	
DRAWN: LV	
CHECKED: LV	
SHEET	F3
OF 4	SHEETS

DITCH RIDERS RATING TABLE (Winflume32 – Version 1.05.0032)										
Head, h1	Discharges in cu. Ft/s									
ft	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.1	--	--	--	--	--	0.52	0.58	0.63	0.69	0.75
0.2	0.82	0.88	0.95	1.02	1.08	1.16	1.23	1.3	1.38	1.46
0.3	1.53	1.62	1.7	1.78	1.87	1.95	2.04	2.13	2.22	2.31
0.4	2.41	2.5	2.6	2.7	2.8	2.9	3	3.1	3.21	3.31
0.5	3.42	3.53	3.64	3.75	3.87	3.98	4.09	4.21	4.33	4.45
0.6	4.57	4.69	4.81	4.94	5.06	5.19	5.32	5.45	5.58	5.71
0.7	5.84	5.97	6.11	6.25	6.38	6.52	6.66	6.8	6.94	7.09
0.8	7.23	7.38	7.52	7.67	7.82	7.97	8.12	8.27	8.43	8.58
0.9	8.74	8.89	9.05	9.21	9.37	9.53	9.69	9.85	10.02	10.18
1.0	10.35	10.52	10.69	10.86	11.03	11.2	11.37	11.54	11.72	11.89
1.1	12.07	12.25	12.43	12.61	12.79	12.97	13.15	13.34	13.52	13.71
1.2	13.89	14.08	14.27	14.46	14.65	14.84	15.03	*15.23	*15.42	*15.62
1.3	*15.81	*16.01	*16.21	*16.41	*16.61	*16.81	*17.01	*17.22	*17.42	*17.63
1.4	*17.83	--	--	--	--	--	--	--	--	--

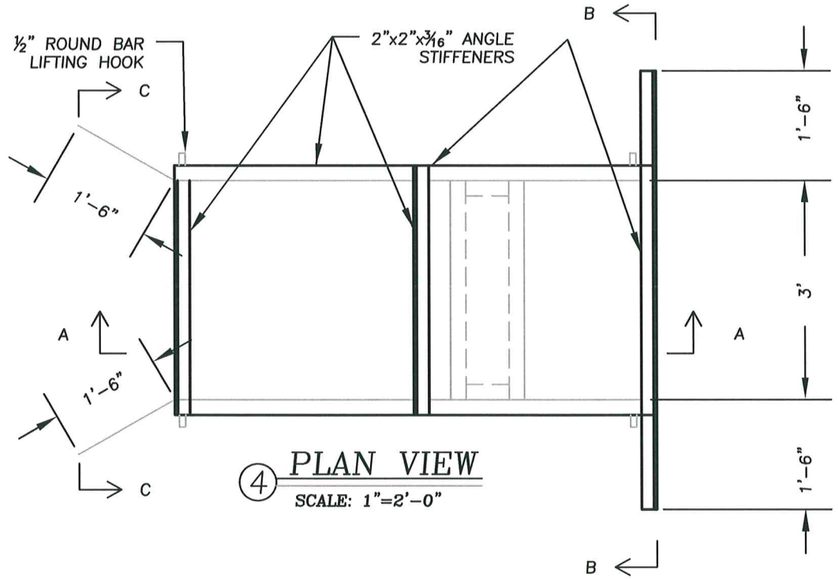


② SECTION B–B
SCALE: 1"=2'-0"

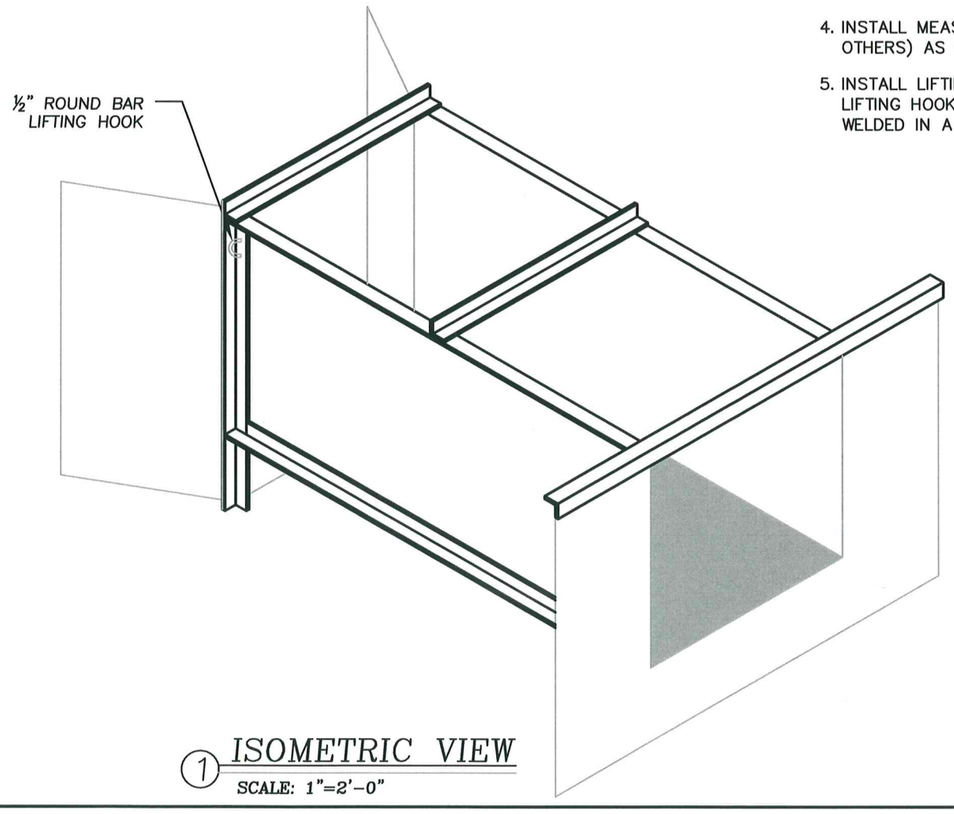


③ SECTION C–C
SCALE: 1"=2'-0"

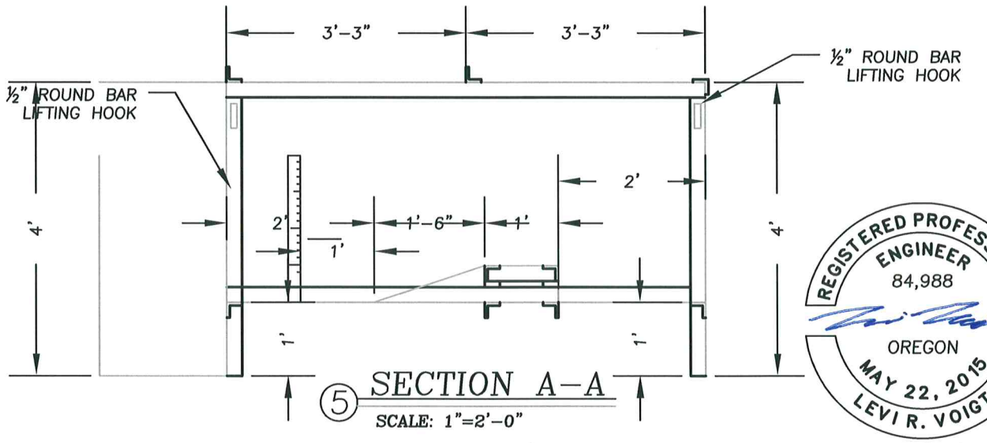
NOTES:
1. USE 12 GAUGE FLAT STEEL TO FABRICATE SIDES, BOTTOM, RAMP AND SILL.
2. PLACE 2"X2"X3/16" ANGLE STIFFENERS AT LOCATIONS SHOWN ON DRAWINGS.
3. ALL PARTS TO BE WELDED.
4. INSTALL MEASUREMENT SCALE (PROVIDED BY OTHERS) AS SHOWN ON PLAN.
5. INSTALL LIFTING HOOK AT 4 LOCATIONS SHOWN. LIFTING HOOK SHALL BE 1/2" ROUND BAR WELDED IN A 2" RADIUS.



④ PLAN VIEW
SCALE: 1"=2'-0"



① ISOMETRIC VIEW
SCALE: 1"=2'-0"



⑤ SECTION A–A
SCALE: 1"=2'-0"

REGISTERED PROFESSIONAL ENGINEER
84,988
OREGON
MAY 22, 2015
LEVI R. VOIGT
RENEWS:6/30/2018

RICCO-HALL DITCH DIVERSION

GRANT COUNTY, OREGON

PRE-FABRICATED STEEL RAMP FLUME DETAIL

GRANT SOIL AND WATER CONSERVATION DISTRICT
721 S. CANYON BLVD.
JOHN DAY, OREGON 97845
(541) 575-0135

DRAWING: RICCO-HALL-LEVI.dwg

DATE: JANUARY 2018
SCALE: NOTED
DRAWN: LV
CHECKED: LV
SHEET F4
OF 4 SHEETS