



**Request for Proposal
RFP-4483-18-DH**

**Design Services for City of Grand Junction
Kannah Creek Intake Rehabilitation**

RESPONSES DUE:

March 21, 2018 prior to 3:30 PM MST

Accepting Electronic Responses Only

**Responses Only Submitted Through the Rocky Mountain E-Purchasing System
(RMEPS)**

<https://www.rockymountainbidsystem.com/default.asp>

(Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline. 800-835-4603)

PURCHASING REPRESENTATIVE:

Duane Hoff Jr., Senior Buyer

duaneh@gjcity.org

970-244-1545

This solicitation has been developed specifically for a Request for Proposal intended to solicit competitive responses for this solicitation, and may not be the same as previous City of Grand Junction solicitations. All offerors are urged to thoroughly review this solicitation prior to submitting. Submittal by **FAX, EMAIL or HARD COPY IS NOT ACCEPTABLE** for this solicitation.

REQUEST FOR PROPOSAL

TABLE OF CONTENTS

Section

- 1.0 Administrative Information and Conditions for Submittal**
- 2.0 General Contract Terms and Conditions**
- 3.0 Insurance Requirements**
- 4.0 Specifications/Scope of Services**
- 5.0 Preparation and Submittal of Proposals**
- 6.0 Evaluation Criteria and Factors**
- 7.0 Solicitation Response Form**

REQUEST FOR PROPOSAL

SECTION 1.0: ADMINISTRATIVE INFORMATION & CONDITIONS FOR SUBMITTAL

- 1.1 Issuing Office:** This Request for Proposal (RFP) is issued by the City of Grand Junction. All contact regarding this RFP is directed to:

RFP QUESTIONS:

Duane Hoff Jr., Senior Buyer
duaneh@gjcity.org

- 1.2 Purpose:** The purpose of this RFP is to obtain proposals from qualified professional engineering firms to provide design services for the Kannah Creek Intake Rehabilitation Project.
- 1.3 The Owner:** The Owner is the City of Grand Junction, Colorado and is referred to throughout this Solicitation. The term Owner means the Owner or his authorized representative.
- 1.4 Site Visit:** A site visit is recommended for all prospective offerors. The purpose will be to inspect and to clarify the contents of this Request for Proposal (RFP). Meeting location shall begin at 10001 Kannah Creek Road, Whitewater, CO 81527 on March 7, 2018 at 2:00pm.
- 1.5 Compliance:** All participating Offerors, by their signature hereunder, shall agree to comply with all conditions, requirements, and instructions of this RFP as stated or implied herein. Should the Owner omit anything from this packet which is necessary to the clear understanding of the requirements, or should it appear that various instructions are in conflict, the Offeror(s) shall secure instructions from the Purchasing Division prior to the date and time of the submittal deadline shown in this RFP.
- 1.6 Submission:** Please refer to section 5.0 for what is to be included. ***Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (<https://www.rockymountainbidsystem.com/default.asp>).*** ***This site offers both "free" and "paying" registration options that allow for full access of the Owner's documents and for electronic submission of proposals.*** (Note: "free" registration may take up to 24 hours to process. Please Plan accordingly.) Please view our "Electronic Vendor Registration Guide" at <http://www.gjcity.org/business-and-economic-development/bids/> for details. For proper comparison and evaluation, the City requests that proposals be formatted as directed in Section 5.0 "Preparation and Submittal of Proposals." Submittals received that fail to follow this format may be ruled non-responsive. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline. **800-835-4603**).
- 1.7 Altering Proposals:** Any alterations made prior to opening date and time must be initialed by the signer of the proposal, guaranteeing authenticity. Proposals cannot be altered or amended after submission deadline.

- 1.8 Withdrawal of Proposal:** A proposal must be firm and valid for award and may not be withdrawn or canceled by the Offeror for sixty (60) days following the submittal deadline date, and only prior to award. The Offeror so agrees upon submittal of their proposal. After award this statement is not applicable.
- 1.9 Acceptance of Proposal Content:** The contents of the proposal of the successful Offeror shall become contractual obligations if acquisition action ensues. Failure of the successful Offeror to accept these obligations in a contract shall result in cancellation of the award and such vendor shall be removed from future solicitations.
- 1.10 Addenda:** All questions shall be submitted in writing to the appropriate person as shown in Section 1.1. Any interpretations, corrections and changes to this RFP or extensions to the opening/receipt date shall be made by a written Addendum to the RFP by the City Purchasing Division. Sole authority to authorize addenda shall be vested in the City of Grand Junction Purchasing Representative. Addenda will be issued electronically through the Rocky Mountain E-Purchasing website at www.rockymountainbidsystem.com. Offerors shall acknowledge receipt of all addenda in their proposal.
- 1.11 Exceptions and Substitutions:** All proposals meeting the intent of this RFP shall be considered for award. Offerors taking exception to the specifications shall do so at their own risk. The Owner reserves the right to accept or reject any or all substitutions or alternatives. When offering substitutions and/or alternatives, Offeror must state these exceptions in the section pertaining to that area. Exception/substitution, if accepted, must meet or exceed the stated intent and/or specifications. The absence of such a list shall indicate that the Offeror has not taken exceptions, and if awarded a contract, shall hold the Offeror responsible to perform in strict accordance with the specifications or scope of services contained herein.
- 1.12 Confidential Material:** All materials submitted in response to this RFP shall ultimately become public record and shall be subject to inspection after contract award. **“Proprietary or Confidential Information”** is defined as any information that is not generally known to competitors and which provides a competitive advantage. Unrestricted disclosure of proprietary information places it in the public domain. Only submittal information clearly identified with the words **“Confidential Disclosure”** and uploaded as a separate document shall establish a confidential, proprietary relationship. Any material to be treated as confidential or proprietary in nature must include a justification for the request. The request shall be reviewed and either approved or denied by the Owner. If denied, the proposer shall have the opportunity to withdraw its entire proposal, or to remove the confidential or proprietary restrictions. Neither cost nor pricing information nor the total proposal shall be considered confidential or proprietary.
- 1.13 Response Material Ownership:** All proposals become the property of the Owner upon receipt and shall only be returned to the proposer at the Owner’s option. Selection or rejection of the proposal shall not affect this right. The Owner shall have the right to use all ideas or adaptations of the ideas contained in any proposal received in response to this RFP, subject to limitations outlined in the entitled “Confidential Material”. Disqualification of a proposal does not eliminate this right.

- 1.14 Minimal Standards for Responsible Prospective Offerors:** A prospective Offeror must affirmably demonstrate their responsibility. A prospective Offeror must meet the following requirements.
- Have adequate financial resources, or the ability to obtain such resources as required.
 - Be able to comply with the required or proposed completion schedule.
 - Have a satisfactory record of performance.
 - Have a satisfactory record of integrity and ethics.
 - Be otherwise qualified and eligible to receive an award and enter into a contract with the Owner.
- 1.15 Open Records:** Proposals shall be received and publicly acknowledged at the location, date, and time stated herein. Offerors, their representatives and interested persons may be present. Proposals shall be received and acknowledged only so as to avoid disclosure of process. However, all proposals shall be open for public inspection after the contract is awarded. Trade secrets and confidential information contained in the proposal so identified by offer as such shall be treated as confidential by the Owner to the extent allowable in the Open Records Act.
- 1.16 Sales Tax:** The Owner is, by statute, exempt from the State Sales Tax and Federal Excise Tax; therefore, all fees shall not include taxes.
- 1.17 Public Opening:** Proposals shall be opened in the City Hall Auditorium, 250 North 5th Street, Grand Junction, CO, 81501, immediately following the proposal deadline. Offerors, their representatives and interested persons may be present. Only the names and locations on the proposing firms will be disclosed.

SECTION 2.0: GENERAL CONTRACT TERMS AND CONDITIONS

- 2.1. Acceptance of RFP Terms:** A proposal submitted in response to this RFP shall constitute a binding offer. Acknowledgment of this condition shall be indicated on the Letter of Interest or Cover Letter by the autographic signature of the Offeror or an officer of the Offeror legally authorized to execute contractual obligations. A submission in response to the RFP acknowledges acceptance by the Offeror of all terms and conditions including compensation, as set forth herein. An Offeror shall identify clearly and thoroughly any variations between its proposal and the Owner's RFP requirements. Failure to do so shall be deemed a waiver of any rights to subsequently modify the terms of performance, except as outlined or specified in the RFP.
- 2.2. Execution, Correlation, Intent, and Interpretations:** The Contract Documents shall be signed by the Owner and Contractor. By executing the contract, the Contractor represents that they have familiarized themselves with the local conditions under which the Services is to be performed, and correlated their observations with the requirements of the Contract Documents. The Contract Documents are complementary, and what is required by any one, shall be as binding as if required by all. The intention of the documents is to include all labor, materials, equipment, services and other items necessary for the proper execution and completion of the scope of services as defined in the technical specifications and drawings contained herein. All drawings, specifications and copies furnished by the Owner are, and shall remain, Owner property. They are not to be used on any other project.

- 2.3. Permits, Fees, & Notices:** The Contractor shall secure and pay for all permits, governmental fees and licenses necessary for the proper execution and completion of the services. The Contractor shall give all notices and comply with all laws, ordinances, rules, regulations and orders of any public authority bearing on the performance of the services. If the Contractor observes that any of the Contract Documents are at variance in any respect, he shall promptly notify the Owner in writing, and any necessary changes shall be adjusted by approximate modification. If the Contractor performs any services knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the Owner, he shall assume full responsibility and shall bear all costs attributable.
- 2.4. Responsibility for those Performing the Services:** The Contractor shall be responsible to the Owner for the acts and omissions of all his employees and all other persons performing any of the services under a contract with the Contractor.
- 2.5. Payment & Completion:** The Contract Sum is stated in the Contract and is the total amount payable by the Owner to the Contractor for the performance of the services under the Contract Documents. Upon receipt of written notice that the services is ready for final inspection and acceptance and upon receipt of application for payment, the Owner's Project Manager will promptly make such inspection and, when they find the services acceptable under the Contract Documents and the Contract fully performed, the Owner shall make payment in the manner provided in the Contract Documents. Partial payments will be based upon estimates, prepared by the Contractor, of the value of services performed and materials placed in accordance with the Contract Documents. The services performed by Contractor shall be in accordance with generally accepted professional practices and the level of competency presently maintained by other practicing professional firms in the same or similar type of services in the applicable community. The services and services to be performed by Contractor hereunder shall be done in compliance with applicable laws, ordinances, rules and regulations.
- 2.6. Protection of Persons & Property:** The Contractor shall comply with all applicable laws, ordinances, rules, regulations and orders of any public authority having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. Contractor shall erect and maintain, as required by existing safeguards for safety and protection, and all reasonable precautions, including posting danger signs or other warnings against hazards promulgating safety regulations and notifying owners and users of adjacent utilities. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct by the Contractor in the execution of the services, or in consequence of the non-execution thereof by the Contractor, they shall restore, at their own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding, or otherwise restoring as may be directed, or it shall make good such damage or injury in an acceptable manner.
- 2.7. Changes in the Services:** The Owner, without invalidating the contract, may order changes in the services within the general scope of the contract consisting of additions, deletions or other revisions. All such changes in the services shall be authorized by Change Order/Amendment and shall be executed under the applicable conditions of the contract documents. A Change Order/Amendment is a written order to the Contractor

signed by the Owner issued after the execution of the contract, authorizing a change in the services or an adjustment in the contract sum or the contract time.

- 2.8. Minor Changes in the Services:** The Owner shall have authority to order minor changes in the services not involving an adjustment in the contract sum or an extension of the contract time and not inconsistent with the intent of the contract documents.
- 2.9. Uncovering & Correction of Services:** The Contractor shall promptly correct all services found by the Owner as defective or as failing to conform to the contract documents. The Contractor shall bear all costs of correcting such rejected services, including the cost of the Owner's additional services thereby made necessary. The Owner shall give such notice promptly after discover of condition. All such defective or non-conforming services under the above paragraphs shall be removed from the site where necessary and the services shall be corrected to comply with the contract documents without cost to the Owner.
- 2.10. Acceptance Not Waiver:** The Owner's acceptance or approval of any services furnished hereunder shall not in any way relieve the proposer of their present responsibility to maintain the high quality, integrity and timeliness of his services. The Owner's approval or acceptance of, or payment for, any services shall not be construed as a future waiver of any rights under this Contract, or of any cause of action arising out of performance under this Contract.
- 2.11. Change Order/Amendment:** No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting contract. All amendments to the contract shall be made in writing by the Owner.
- 2.12. Assignment:** The Offeror shall not sell, assign, transfer or convey any contract resulting from this RFP, in whole or in part, without the prior written approval from the Owner.
- 2.13. Compliance with Laws:** Proposals must comply with all Federal, State, County and local laws governing or covering this type of service and the fulfillment of all ADA (Americans with Disabilities Act) requirements. Contractor hereby warrants that it is qualified to assume the responsibilities and render the services described herein and has all requisite corporate authority and professional licenses in good standing, required by law.
- 2.14. Debarment/Suspension:** The Contractor hereby certifies that the Contractor is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Governmental department or agency.
- 2.15. Confidentiality:** All information disclosed by the Owner to the Offeror for the purpose of the services to be done or information that comes to the attention of the Offeror during the course of performing such services is to be kept strictly confidential.
- 2.16. Conflict of Interest:** No public official and/or Owner employee shall have interest in any contract resulting from this RFP.
- 2.17. Contract:** This Request for Proposal, submitted documents, and any negotiations, when properly accepted by the Owner, shall constitute a contract equally binding between the Owner and Offeror. The contract represents the entire and integrated agreement between

the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral, including the Proposal documents. The contract may be amended or modified with Change Orders, Field Orders, or Amendment.

- 2.18. Project Manager/Administrator:** The Project Manager, on behalf of the Owner, shall render decisions in a timely manner pertaining to the services proposed or performed by the Offeror. The Project Manager shall be responsible for approval and/or acceptance of any related performance of the Scope of Services.
- 2.19. Contract Termination:** This contract shall remain in effect until any of the following occurs: (1) contract expires; (2) completion of services; (3) acceptance of services or, (4) for convenience terminated by either party with a written *Notice of Cancellation* stating therein the reasons for such cancellation and the effective date of cancellation at least thirty days past notification.
- 2.20. Employment Discrimination:** During the performance of any services per agreement with the Owner, the Offeror, by submitting a Proposal, agrees to the following conditions:
- 2.20.1. The Offeror shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, disability, citizenship status, marital status, veteran status, sexual orientation, national origin, or any legally protected status except when such condition is a legitimate occupational qualification reasonably necessary for the normal operations of the Offeror. The Offeror agrees to post in conspicuous places, visible to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
- 2.20.2. The Offeror, in all solicitations or advertisements for employees placed by or on behalf of the Offeror, shall state that such Offeror is an Equal Opportunity Employer.
- 2.20.3. Notices, advertisements, and solicitations placed in accordance with federal law, rule, or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.
- 2.21. Immigration Reform and Control Act of 1986 and Immigration Compliance:** The Offeror certifies that it does not and will not during the performance of the contract employ illegal alien servicesers or otherwise violate the provisions of the Federal Immigration Reform and Control Act of 1986 and/or the immigration compliance requirements of State of Colorado C.R.S. § 8-17.5-101, *et.seq.* (House Bill 06-1343).
- 2.22. Ethics:** The Offeror shall not accept or offer gifts or anything of value nor enter into any business arrangement with any employee, official, or agent of the Owner.
- 2.23. Failure to Deliver:** In the event of failure of the Offeror to deliver services in accordance with the contract terms and conditions, the Owner, after due oral or written notice, may procure the services from other sources and hold the Offeror responsible for any costs resulting in additional purchase and administrative services. This remedy shall be in addition to any other remedies that the Owner may have.

- 2.24. Failure to Enforce:** Failure by the Owner at any time to enforce the provisions of the contract shall not be construed as a waiver of any such provisions. Such failure to enforce shall not affect the validity of the contract or any part thereof or the right of the Owner to enforce any provision at any time in accordance with its terms.
- 2.25. Force Majeure:** The Offeror shall not be held responsible for failure to perform the duties and responsibilities imposed by the contract due to legal strikes, fires, riots, rebellions, and acts of God beyond the control of the Offeror, unless otherwise specified in the contract.
- 2.26. Indemnification:** Offeror shall defend, indemnify and save harmless the Owner and all its officers, employees, insurers, and self-insurance pool, from and against all liability, suits, actions, or other claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of any negligent act or fault of the Offeror, or of any Offeror's agent, employee, subcontractor or supplier in the execution of, or performance under, any contract which may result from proposal award. Offeror shall pay any judgment with cost which may be obtained against the Owner growing out of such injury or damages.
- 2.27. Independent Firm:** The Offeror shall be legally considered an Independent Firm and neither the Firm nor its employees shall, under any circumstances, be considered servants or agents of the Owner. The Owner shall be at no time legally responsible for any negligence or other wrongdoing by the Firm, its servants, or agents. The Owner shall not withhold from the contract payments to the Firm any federal or state unemployment taxes, federal or state income taxes, Social Security Tax or any other amounts for benefits to the Firm. Further, the Owner shall not provide to the Firm any insurance coverage or other benefits, including Servicesers' Compensation, normally provided by the Owner for its employees.
- 2.28. Nonconforming Terms and Conditions:** A proposal that includes terms and conditions that do not conform to the terms and conditions of this Request for Proposal is subject to rejection as non-responsive. The Owner reserves the right to permit the Offeror to withdraw nonconforming terms and conditions from its proposal prior to a determination by the Owner of non-responsiveness based on the submission of nonconforming terms and conditions.
- 2.29. Ownership:** All plans, prints, designs, concepts, etc., shall become the property of the Owner.
- 2.30. Oral Statements:** No oral statement of any person shall modify or otherwise affect the terms, conditions, or specifications stated in this document and/or resulting agreement. All modifications to this request and any agreement must be made in writing by the Owner.
- 2.31. Patents/Copyrights:** The Offeror agrees to protect the Owner from any claims involving infringements of patents and/or copyrights. In no event shall the Owner be liable to the Offeror for any/all suits arising on the grounds of patent(s)/copyright(s) infringement. Patent/copyright infringement shall null and void any agreement resulting from response to this RFP.

- 2.32. Venue:** Any agreement as a result of responding to this RFP shall be deemed to have been made in, and shall be construed and interpreted in accordance with, the laws of the City of Grand Junction, Mesa County, Colorado.
- 2.33. Expenses:** Expenses incurred in preparation, submission and presentation of this RFP are the responsibility of the company and can not be charged to the Owner.
- 2.34. Sovereign Immunity:** The Owner specifically reserves its right to sovereign immunity pursuant to Colorado State Law as a defense to any action arising in conjunction to this agreement.
- 2.35. Public Funds/Non-Appropriation of Funds:** Funds for payment have been provided through the Owner's budget approved by the City Council/Board of County Commissioners for the stated fiscal year only. State of Colorado statutes prohibit the obligation and expenditure of public funds beyond the fiscal year for which a budget has been approved. Therefore, anticipated orders or other obligations that may arise past the end of the stated Owner's fiscal year shall be subject to budget approval. Any contract will be subject to and must contain a governmental non-appropriation of funds clause.
- 2.36. Collusion Clause:** Each Offeror by submitting a proposal certifies that it is not party to any collusive action or any action that may be in violation of the Sherman Antitrust Act. Any and all proposals shall be rejected if there is evidence or reason for believing that collusion exists among the proposers. The Owner may or may not, at the discretion of the Owner Purchasing Representative, accept future proposals for the same service or commodities for participants in such collusion.
- 2.37. Gratuities:** The Contractor certifies and agrees that no gratuities or kickbacks were paid in connection with this contract, nor were any fees, commissions, gifts or other considerations made contingent upon the award of this contract. If the Contractor breaches or violates this warranty, the Owner may, at their discretion, terminate this contract without liability to the Owner.
- 2.38. Performance of the Contract:** The Owner reserves the right to enforce the performance of the contract in any manner prescribed by law or deemed to be in the best interest of the Owner in the event of breach or default of resulting contract award.
- 2.39. Benefit Claims:** The Owner shall not provide to the Offeror any insurance coverage or other benefits, including Serviceser's Compensation, normally provided by the Owner for its employees.
- 2.40. Default:** The Owner reserves the right to terminate the contract in the event the Contractor fails to meet delivery or completion schedules, or otherwise perform in accordance with the accepted proposal. Breach of contract or default authorizes the Owner to purchase like services elsewhere and charge the full increase in cost to the defaulting Offeror.
- 2.41. Multiple Offers:** If said proposer chooses to submit more than one offer, THE ALTERNATE OFFER must be clearly marked "Alternate Proposal". The Owner reserves the right to make award in the best interest of the Owner.

2.42. Cooperative Purchasing: Purchases as a result of this solicitation are primarily for the Owner. Other governmental entities may be extended the opportunity to utilize the resultant contract award with the agreement of the successful provider and the participating agencies. All participating entities will be required to abide by the specifications, terms, conditions and pricings established in this Proposal. The quantities furnished in this proposal document are for only the Owner. It does not include quantities for any other jurisdiction. The Owner will be responsible only for the award for our jurisdiction. Other participating entities will place their own awards on their respective Purchase Orders through their purchasing office or use their purchasing card for purchase/payment as authorized or agreed upon between the provider and the individual entity. The Owner accepts no liability for payment of orders placed by other participating jurisdictions that choose to piggy-back on our solicitation. Orders placed by participating jurisdictions under the terms of this solicitation will indicate their specific delivery and invoicing instructions.

2.43. Definitions:

- 2.43.1. "Offeror" and/or "Proposer" refers to the person or persons legally authorized by the Consultant to make an offer and/or submit a response (fee) proposal in response to the Owner's RFP.
- 2.43.2. The term "Services" includes all labor, materials, equipment, and/or services necessary to produce the requirements of the Contract Documents.
- 2.43.3. "Contractor" is the person, organization, firm or consultant identified as such in the Agreement and is referred to throughout the Contract Documents. The term Contractor means the Contractor or his authorized representative. The Contractor shall carefully study and compare the General Contract Conditions of the Contract, Specification and Drawings, Scope of Services, Addenda and Modifications and shall at once report to the Owner any error, inconsistency or omission he may discover. Contractor shall not be liable to the Owner for any damage resulting from such errors, inconsistencies or omissions. The Contractor shall not commence services without clarifying Drawings, Specifications, or Interpretations.
- 2.43.4. "Sub-Contractor" is a person or organization who has a direct contract with the Contractor to perform any of the services at the site. The term sub-contractor is referred to throughout the contract documents and means a sub-contractor or his authorized representative.

2.44. Public Disclosure Record: If the Proposer has knowledge of their employee(s) or sub-proposers having an immediate family relationship with an Owner employee or elected official, the proposer must provide the Purchasing Representative with the name(s) of these individuals. These individuals are required to file an acceptable "Public Disclosure Record", a statement of financial interest, before conducting business with the Owner.

SECTION 3.0: INSURANCE REQUIREMENTS

3.1 Insurance Requirements: The selected Firm agrees to procure and maintain, at its own cost, policy(s) of insurance sufficient to insure against all liability, claims, demands, and other obligations assumed by the Firm pursuant to this Section. Such insurance shall be in addition to any other insurance requirements imposed by this Contract or by law. The Firm shall not be relieved of any liability, claims, demands, or other obligations assumed pursuant

to this Section by reason of its failure to procure or maintain insurance in sufficient amounts, durations, or types.

Firm shall procure and maintain and, if applicable, shall cause any Subcontractor of the Firm to procure and maintain insurance coverage listed below. Such coverage shall be procured and maintained with forms and insurers acceptable to The Owner. All coverage shall be continuously maintained to cover all liability, claims, demands, and other obligations assumed by the Firm pursuant to this Section. In the case of any claims-made policy, the necessary retroactive dates and extended reporting periods shall be procured to maintain such continuous coverage. Minimum coverage limits shall be as indicated below unless specified otherwise in the Special Conditions:

(a) Worker Compensation: Contractor shall comply with all State of Colorado Regulations concerning Workers' Compensation insurance coverage.

(b) General Liability insurance with minimum combined single limits of:

ONE MILLION DOLLARS (\$1,000,000) each occurrence and
ONE MILLION DOLLARS (\$1,000,000) per job aggregate.

The policy shall be applicable to all premises, products and completed operations. The policy shall include coverage for bodily injury, broad form property damage (including completed operations), personal injury (including coverage for contractual and employee acts), blanket contractual, products, and completed operations. The policy shall include coverage for explosion, collapse, and underground (XCU) hazards. The policy shall contain a severability of interests provision.

(c) Comprehensive Automobile Liability insurance with minimum combined single limits for bodily injury and property damage of not less than:

ONE MILLION DOLLARS (\$1,000,000) each occurrence and
ONE MILLION DOLLARS (\$1,000,000) aggregate

(d) Professional Liability & Errors and Omissions Insurance policy with a minimum of:

ONE MILLION DOLLARS (\$1,000,000) per claim

This policy shall provide coverage to protect the contractor against liability incurred as a result of the professional services performed as a result of responding to this Solicitation.

With respect to each of Consultant's owned, hired, or non-owned vehicles assigned to be used in performance of the Services. The policy shall contain a severability of interests provision.

3.2 Additional Insured Endorsement: The policies required by paragraphs (b), and (c) above shall be endorsed to include the Owner and the Owner's officers and employees as additional insureds. Every policy required above shall be primary insurance, and any insurance carried by the Owner, its officers, or its employees, or carried by or provided through any insurance pool of the Owner, shall be excess and not contributory insurance to

that provided by Contractor. The Contractor shall be solely responsible for any deductible losses under any policy required above.

SECTION 4.0: SPECIFICATIONS/SCOPE OF SERVICES

4.1. General/Background: The Kannah Creek Intake diverts water to the primary reservoir for the City of Grand Junction. The diversion has been operating since the early 1900's. While updates have been made in the following decades, much of the existing site is past its design life. The intake also has several maintenance challenges including, debris blockage, ice buildup in the winter, and aging facilities. The purpose of this project is to address these maintenance concerns, upgrade equipment to extend service life and enable more automated control and reporting. The City has plans created plans for replacing a portion of the intake pipeline and installing electromagnetic flow meters, debris screen replacement, and new headgates and electronic control and analytical instrumentation. The existing plans also have preliminary plans for replacing the existing shed, which houses the existing flow monitoring equipment and residential water treatment equipment, with a new prefabricated shed that will house the control equipment and residential treatment equipment. However, the existing check dam is in poor condition and needs to be replaced with the intake rehabilitation project is constructed.

Therefore, the City of Grand Junction, Purchasing Department is requesting qualifications, accompanied by sealed cost proposals, from Consulting Engineers to provide design services, prepare construction drawings, assist in the development of bid documents and assist in the procurement of USACE permit and, if necessary, US Fish and Wildlife approval for the CITY OF GRAND JUNCTION KANNAH CREEK INTAKE REHABILITATION PROJECT. The project calls for the following:

1. Design replacement check dam, including large debris mitigation, headgate design and control integration; revise the design of replacement of existing shed with new prefabricated structure that will house residential water treatment equipment, control and data acquisition hardware; and review of other design considerations to provide automated intake control and measurement system.
2. Provide submittals to USACE, and if necessary, US Fish and Wildlife for Nationwide Permit approval.
3. Provide bidding support.

The Consultant shall be responsible for evaluation the proposed alternative, providing design for the alternative including design, final CAD drawing, obtaining USACE approval and other related services which are included in the following scope of work:

The design and evaluation effort shall include hydraulic evaluation of the proposed pipeline modification, of existing infrastructure where necessary, replacement of the existing control shed, evaluating and design of power supply and control and data collection integration for headgates, electromagnetic flow meters, and water quality monitoring devices, plan for relocation of residential water treatment equipment without service disruption

4.2. Special Conditions/Provisions:

4.2.1 Price/Fees: Project pricing shall be all inclusive, to include, but not be limited to: labor, materials, equipment, travel, design, drawings, engineering work, shipping/freight, licenses, permits, fees, etc.

Provide a not to exceed cost using Solicitation Response Form found in Section 7, accompanied by a complete list of costs breakdown.

All fees will be considered by the Owner to be negotiable.

4.2.2 Codes: Contractor shall ensure that project design, scope, and specifications meets all Federal, State, County, and City Codes.

4.3. Specifications/Scope of Services:

Consultant Responsibilities: The scope of work shall include the following

Task One: Project Management and Coordination

Project Initiation: Develop and prepare a project schedule to meet the proposed construction time frame and assign tasks. The schedule shall show individual tasks described in the scope of work for the project and identify key milestone dates. The Consultant Project Manager (Consultant PM) shall maintain and update the project schedule as the work proceeds. Consultants PM will be assigned to this project for the duration of the work.

Work Task Coordination: The Consultant PM shall assign and coordinate all work tasks being accomplished, including those to be performed by sub-consultants, to ensure project work is completed on schedule.

Project Team Coordination: The City PM and the Consultant PM shall maintain ongoing communication about the project on a frequent and regular basis. Each PM shall provide the other with

- Written synopsis of their respective contracts (both telephone or in person) with others
- Copies of pertinent written communications, including electronic (email) correspondence
- Early identification of potential problems

Progress Meetings: The City and Consultant shall meet, either in person or by telephone conference calls, at regularly scheduled Project Working Group Meetings held at approximate two-week intervals throughout the project. Meetings shall include consultant PM, City PM, and Water Resources Manager. The Project Working Group Meetings shall be used to coordinate the work effort and resolve any outstanding issues or problems. The meetings shall focus on the following topics:

- Activities completed since last meeting
- Problems encountered or anticipated
- Late activities/activities slipping behind schedule
- Solutions for unresolved or newly identified problems

- Schedule of upcoming activities
- Information on items required, or comments from Federal agencies.

The Consultant PM shall prepare a written summary report of the general discussions held including all action items assigned. This scope assumes six (6) Project Working Group Meetings via conference call.

Reporting Requirements: The Consultant PM shall provide the following on a routine basis:

- Bi-weekly status reports (percent of design components complete) and monthly billings.

Task Two: Design Plans and Design Report

The consultant will prepare final design plans, final design report and final design report. Prior to final design, Consultant shall provide 60% design review plans to the City for comment. Final design plans and report shall be submitted for review and approval by City and federal agencies involved. Review of documents and plans will be completed by City Project Engineer and City Water Resources Manager. The final plans and report shall be stamped by a professional engineer registered in the State of Colorado. All submittals shall be in a PDF format, with final electronic files provided at close of design task. This task will also include responding to any comments from review by USACE or other agency for approval by June 31, 2018. Any fees paid to federal agencies will be paid by the City of Grand Junction.

60% design submittal and Final Design Submittal shall include Engineers Opinion of Probable Cost for construction of the design.

Advertisement for Construction should be published on or about July 1, 2018 to allow for construction to occur during the months of September 2018 through December 2018.

City Provided Materials: The City will provide the following:

- As-constructed drawings of existing facilities
- GIS data
- Survey, base mapping and existing plan files

Task Three: Final Bid Documents

The Consultant will prepare final bid documents including Plans and Project Technical Specifications in accordance with the City of Grand Junction Standard Contract Documents for Capital Improvement Construction, Revised July 2010. The final bid documents shall be complete and adequate to obtain competitive construction bids for the Intake Rehabilitation Project. The consultant will also provide the City with an engineering estimate of cost to construct the project that will be used to evaluate adequacy of currently budgeted funds. Final bid documents shall include: Stamped engineering drawings, and technical specifications as well as an itemized line item bid schedule and engineers estimate for the project.

Reproduction: The Consultant will provide electronic copies of the final construction drawings and contract documents (.pdf format).

Authentication: The Consultant's Professional Engineer responsible for the project shall affix his stamp and signature to two (2) original copies of the final drawings, bid documents and design report.

Permitting: The Consultant shall work with USACE and other required agencies regarding plan approval and site application amendment. Any costs associated with this amendment or other permitting fees will be the responsibility of the owner.

Task Four: Construction Phase Services

Bidding Phase: After Completion of the plans, the City will bid the project out, however the consultant shall be available for technical questions and provide to the City appropriate addenda. Consultant shall participate in the pre-bid meeting, however presence at the bid opening is not required.

Construction Phase: The City will provide onsite, full time inspection for the project. Resident engineering shall be provided by the Consultant on an as-needed basis, but no less than once every month (4 visits). Consultant resident engineer shall also assist in reviewing and approving all shop drawings.

4.4. Site Visit: A site visit is recommended for all prospective offerors. The purpose will be to inspect and to clarify the contents of this Request for Proposal (RFP). Meeting location shall begin at 10001 Kannah Creek Road, Whitewater, CO 81527 on March 7, 2018 at 2:00pm.

4.5. RFP Tentative Time Schedule:

- | | |
|--|-------------------|
| • Request for Proposal available | February 23, 2018 |
| • Site Visit | March 7, 2018 |
| • Inquiry deadline, no questions after this date | March 14, 2018 |
| • Post Addendum | March 16, 2018 |
| • Submittal deadline for proposals | March 21, 2018 |
| • Owner evaluation of proposals | March 22-28, 2018 |
| • Final selection | March 30, 2018 |
| • Contract execution | April 3, 2018 |
| • Final Design, Drawings, Scope, Specs | June 15, 2018 |

4.6. Questions Regarding Scope of Services:

Duane Hoff Jr., Senior Buyer
duaneh@gjcity.org

SECTION 5.0: PREPARATION AND SUBMITTAL OF PROPOSALS

Submission: Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (<https://www.rockymountainbidsystem.com/default.asp>). This site offers both “free” and “paying” registration options that allow for full access of the Owner’s documents and for electronic submission of proposals. (Note: “free” registration may take up to 24 hours to process. Please Plan accordingly.) Please view our “**Electronic Vendor Registration Guide**” at <http://www.gjcity.org/BidOpenings.aspx> for details. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline **800-835-4603**). For proper comparison and evaluation, the City requests that proposals be formatted as directed in Section 5.0 “Preparation and Submittal of Proposals.” Offerors are required to indicate their interest in this Project, show their specific experience and address their capability to perform the Scope of Services in the Time Schedule as set forth herein. For proper comparison and evaluation, the Owner requires that proposals be formatted **A to F**:

- A. Cover Letter:** Cover letter shall be provided which explains the Firm’s interest in the project. The letter shall contain the name/address/phone number/email of the person who will serve as the firm's principal contact person with Owner’s Contract Administrator and shall identify individual(s) who will be authorized to make presentations on behalf of the firm. The statement shall bear the signature of the person having proper authority to make formal commitments on behalf of the firm. By submitting a response to this solicitation the Contractor agrees to all requirements herein.
- B. Qualifications/Experience/Credentials:** Proposers shall provide their qualifications for consideration as a contract provider to the City of Grand Junction and include prior experience in similar projects.
- C. Strategy and Implementation Plan:** Describe your (the firm’s) interpretation of the Owner’s objectives with regard to this RFP. Describe the proposed strategy and/or plan for achieving the objectives of this RFP. The Firm may utilize a written narrative or any other printed technique to demonstrate their ability to satisfy the Scope of Services. The narrative should describe a logical progression of tasks and efforts starting with the initial steps or tasks to be accomplished and continuing until all proposed tasks are fully described and the RFP objectives are accomplished. Include a **time schedule** for completion of your firm’s implementation plan and an estimate of time commitments from Owner staff.
- D. References:** A minimum of three (3) **references** with name, address, telephone number, and email address that can attest to your experience in projects of similar scope and size.
- E. Fee Proposal:** Provide a not to exceed cost using Solicitation Response Form found in Section 7, accompanied by a complete list of costs breakdown.
- F. Additional Data (optional):** Provide any additional information that will aid in evaluation of your qualifications with respect to this project.

SECTION 6.0: EVALUATION CRITERIA AND FACTORS

- 6.1 Evaluation:** An evaluation team shall review all responses and select the proposal or proposals that best demonstrate the capability in all aspects to perform the scope of services and possess the integrity and reliability that will ensure good faith performance.
- 6.2 Intent:** Only respondents who meet the qualification criteria will be considered. Therefore, it is imperative that the submitted proposal clearly indicate the firm's ability to provide the services described herein.

Submittal evaluations will be done in accordance with the criteria and procedure defined herein. The Owner reserves the right to reject any and all portions of proposals and take into consideration past performance. The following parameters will be used to evaluate the submittals (in no particular order of priority):

- Responsiveness of submittal to the RFP
- Understanding of the project and the objectives
- Experience/Demonstrated capability
- Necessary resources
- Strategy & Implementation Plan
- References
- Fees

Owner also reserves the right to take into consideration past performance of previous awards/contracts with the Owner of any vendor, contractor, supplier, or service provider in determining final award(s).

The Owner will undertake negotiations with the top rated firm and will not negotiate with lower rated firms unless negotiations with higher rated firms have been unsuccessful and terminated.

- 6.3 Oral Interviews:** Interviews are not anticipated for this solicitation process. However, the Owner reserves the right to invite the most qualified rated proposer(s) to participate in oral interviews, if needed.
- 6.4 Award:** Firms shall be ranked or disqualified based on the criteria listed in Section 6.2. The Owner reserves the right to consider all of the information submitted and/or oral presentations, if required, in selecting the project Contractor.

SECTION 7.0: SOLICITATION RESPONSE FORM

RFP-4483-17-DH Design Services for City of Grand Junction Kannah Creek Intake Rehabilitation

Offeror must submit entire Form completed, dated and signed.

- 1) Not to exceed cost to provide design services for the Kannah Creek Intake Rehabilitation for labor, materials, equipment, travel, design, drawings, engineering work, shipping/freight, licenses, permits, fees, etc. per specifications:**

NOT TO EXCEED COST \$ _____

WRITTEN: _____ dollars.

The Owner reserves the right to accept any portion of the services to be performed at its discretion

The undersigned has thoroughly examined the entire Request for Proposals and therefore submits the proposal and schedule of fees and services attached hereto.

This offer is firm and irrevocable for sixty (60) days after the time and date set for receipt of proposals.

The undersigned Offeror agrees to provide services and products in accordance with the terms and conditions contained in this Request for Proposal and as described in the Offeror’s proposal attached hereto; as accepted by the Owner.

Prices in the proposal have not knowingly been disclosed with another provider and will not be prior to award.

- Prices in this proposal have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.
- No attempt has been made nor will be to induce any other person or firm to submit a proposal for the purpose of restricting competition.
- The individual signing this proposal certifies they are a legal agent of the offeror, authorized to represent the offeror and is legally responsible for the offer with regard to supporting documentation and prices provided.
- Direct purchases by the City of Grand Junction are tax exempt from Colorado Sales or Use Tax. Tax exempt No. 98-903544. The undersigned certifies that no Federal, State, County or Municipal tax will be added to the above quoted prices.
- City of Grand Junction payment terms shall be Net 30 days.
- Prompt payment discount of _____ percent of the net dollar will be offered to the Owner if the invoice is paid within _____ days after the receipt of the invoice.

RECEIPT OF ADDENDA: the undersigned Contractor acknowledges receipt of Addenda to the Solicitation, Specifications, and other Contract Documents. State number of Addenda received: _____

It is the responsibility of the Proposer to ensure all Addenda have been received and acknowledged.

Company Name – (Typed or Printed)

Authorized Agent – (Typed or Printed)

Authorized Agent Signature

Phone Number

Address of Offeror

E-mail Address of Agent

City, State, and Zip Code

Date

2017 KANNAH CREEK INTAKE REHABILITATION SEPTEMBER, 2017

PROJECT NO. _____

- 1 ——— Cover Sheet
 - 2 ——— Standard Abbreviations, Legend, and Symbols
 - 3 ——— Summary of Approximate Quantities
 - 4 ——— Vicinity Map
 - 5 ——— Demo Plan
 - 6 ——— Concrete Plan
 - 7 ——— Water Line Plan & Profile 0+00-2+50
 - 8 ——— Water Line Plan & Profile 2+50-5+00
 - 9 ——— Water Line Plan & Profile 5+00-7+50
 - 10 ——— Service & Bypass Lines Plan
 - 11 ——— Service & Bypass Lines Profiles
- E1-E5 ——— Electrical & Control Plans

UTILITIES AND AGENCIES								
AGENCY	NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE-WK	FAX
GRAND JUNCTION, CITY OF	JOHN EKLUND	PROJECT ENGINEER	PROJECT ENGINEER	250 N. 5th STREET	250 N. 5th STREET	GRAND JCT., CO 81501	(970) 244-1558	(970) 256-4022
GRAND JUNCTION, CITY OF	TRENT PRALL	ENGINEERING MANAGER	ENGINEERING MANAGER	250 N. 5th STREET	250 N. 5th STREET	GRAND JCT., CO 81501	(970) 256-4047	(970) 256-4022
GRAND JUNCTION, CITY OF	RICK BRINKMAN	WATER SERVICES MANAGER	WATER	333 WEST AVENUE	333 WEST AVENUE	GRAND JCT., CO 81501	(970) 244-1429	
GRAND VALLEY POWER		UNIT MANAGER	GAS, ELECTRIC	845 22 RD	845 22 RD	GRAND JCT., CO 81505	(970) 242-0040	



Know what's below.
Call before you dig.



*Public Works
Engineering Division*

NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.

REVISION	DESCRIPTION	DATE

DRAWING STATUS:	<input type="radio"/> PROCESS
	<input checked="" type="radio"/> IN SET
	<input checked="" type="radio"/> FINAL CONSTRUCTION DRAWINGS
	<input type="radio"/> ASBUILT
DESIGNED BY:	JOHN EKLUND, PROJECT ENGINEER
REVIEWED BY:	TRENTON C. PRALL, ENGINEERING MANAGER
	AUTHORIZED FOR CONSTRUCTION
	TRENTON C. PRALL, ENGINEERING MANAGER
	ACCEPTED AS CONSTRUCTED
	JOHN EKLUND, PROJECT ENGINEER

SYMBOLS

⊙	BENCH MARK
▣	CATCH BASIN
⊖	CLEAN OUT
⬇	CURB STOP
⬆	FIRE HYDRANT
→	GUY WIRE ANCHOR
⊞	HEADGATE
⊞	IRRIGATION PUMP
⊞	MAILBOX
⊞	MANHOLE (ELECTRIC)
⊞	MANHOLE (GAS)
⊞	MANHOLE (SANITARY/STORM)
⊞	MANHOLE (TELEPHONE)
⊞	MANHOLE (TV)
⊞	MANHOLE (WATER)
⊞	METER (GAS)
⊞	METER (WATER)
⊞	PEDESTAL (TELEPHONE)
⊞	PEDESTAL (TV)
•	PROPERTY PIN
⊞	PULL BOX
⊞	REDUCER FITTING
⊞	SIGN OR POST (SIGN TYPE NOTED)
⊞	SPRINKLER HEAD
⊞	STREET LIGHT
⊞	STREET LIGHT
⊞	SURVEY MONUMENT (GITY)
⊞	SURVEY MONUMENT (TYPE NOTED)
⊞	TEST HOLE
⊞	TRAFFIC PAINT MARKING
⊞	TRAFFIC SIGNAL POLE AND MAST ARM
⊞	UTILITY POLE
⊞	VALVE (GAS)
⊞	VALVE (IRRIGATION)
⊞	VALVE (WATER)
⊞	VEGETATION (HEDGE OR BUSH)
⊞	VEGETATION (TREE STUMP)
⊞	VEGETATION (TREE) (CALIPER SIZE NOTED)
⊞	WATER HYDRANT
⊞	WEIR
⊞	YARD LIGHT

LEGEND

	PROPOSED CONCRETE CURB AND GUTTER
	PROPOSED CONCRETE CURB, GUTTER, & SIDEWALK
	PROPOSED CONCRETE SIDEWALK
	PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN)
	RAIL ROAD
	RETAINING WALL
	STRIPING (CONTINUOUS WHITE)
	STRIPING (DASHED WHITE)
	STRIPING (CONTINUOUS YELLOW)
	STRIPING (DASHED YELLOW)
	TOP OF SLOPE
	CONTOUR LINES (SHOW BETWEEN TOP & TOE)
	TOE OF SLOPE
	TRAFFIC DETECTOR LOOP
	UTILITY LINE (ABANDON) (THIS CASE A WAGON LINE)
	UTILITY LINE (CABLE TV)
	UTILITY LINE (ELECTRIC)
	UTILITY LINE (FIBER OPTIC)
	UTILITY LINE (GAS)
	UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER)
	UTILITY LINE (OVERHEAD POWER)
	UTILITY LINE (OVERHEAD TELEPHONE)
	UTILITY LINE (SANITARY SEWER)
	UTILITY LINE (SANITARY SEWER FORCE MAIN)
	UTILITY LINE (SANITARY SEWER SERVICE)
	UTILITY LINE (STORM SEWER)
	UTILITY LINE (STORM SEWER, PERFORATED)
	UTILITY LINE (STORM/SANITARY SEWER SEWER COMBINATION)
	UTILITY LINE (TELEPHONE)
	UTILITY LINE (WATER)

LEGEND

	BSWMP DRAINAGE BASIN BOUNDARY
	BSWMP ANCHORED STRAW BALES
	BSWMP SILT FENCE
	BUILDING
	CONCRETE CURB AND GUTTER
	CONCRETE CURB, GUTTER, & SIDEWALK
	CONCRETE DITCH
	CONCRETE SIDEWALK
	CULVERT
	EARTH DITCH
	EDGE OF GRAVEL
	EDGE OF PAVEMENT
	FENCE (BARBED WIRE)
	FENCE (CHAIN LINK)
	FENCE (IRON)
	FENCE (PLASTIC)
	FENCE (TEMPORARY CONSTRUCTION)
	FENCE (WOOD)
	FENCE (WOVEN WIRE)
	GUARD RAIL
	HATCHING: ASPHALT REMOVAL
	HATCHING: CONCRETE REMOVAL
	HATCHING: STAGING AREA
	LINE (CENTER OF IMPROVEMENTS)
	LINE (CITY LIMITS)
	LINE (CONTROL)
	LINE (EASEMENT)
	LINE (MONUMENT/SECTION)
	LINE (PROPERTY)
	LINE (RIGHT OF WAY)
	MATCH LINE SEE SHEET NO. ?
	PIPE (IRRIGATION)
	PIPE (SIPHON)

ABBREVIATIONS

AAASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
AC	ANGLE POINT
ASB	ANCHORED STRAW BALES
ASP	ALUMINIZED STEEL PIPE TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BF	BUTTERFLY VALVE
BGR	BEGIN CURB RETURN
BOT	BOTTOM
BSWMP	BEST MANAGEMENT PRACTICES
CAAP	CORROGATED ALUMINUM PIPE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CG & SW	CURB, GUTTER & SIDEWALK
CL	CLEAR
CO	CORROGATED METAL PIPE
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	COUNTY SURVEY MONUMENT
CSPP	CORROGATED STEEL PIPE
CU	COPPER
DI	DUCTILE IRON
E	ELECTRIC
ECR	END CURB RETURN
EG	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FG	FACE OF CURB
FG	FINISHED GRADE
L	FLOW LINE
L	LENGTH OF ARC
LC	LONG CHORD
LF	LONG FOOT
LS	LONG STREET
LS	SHORT ARC
LT	LEFT
LV	LEFT VANE
MCSM	METRO COUNTY SURVEY MONUMENT
MH	MANHOLE
MJ	MECHANICAL JOINT
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOP	NO ONE PERSON
NSCP	NEAR SIDE CURB
NTS	NOT TO SCALE
OHP	OVERHEAD POWER
OT	OUTLET
PCC	POINT OF COMPOUND CURVATURE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PI	PLASTIC IRRIGATION PIPE
POT	POINT ON TANGENT
PRT	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RG	RESTRAINED GIANDS
RL	LONG RADIUS
ROW	RIGHT OF WAY
RR	RAILROAD
RS	SHORT RADIUS
RT	RIGHT
RTM	RIGHT TURN
SA	SANITARY
SC	SHORT CHORD
SCD	SCHEDULED CONTRACT DOCUMENTS
SCH	SCHEDULED CONTRACT DOCUMENTS
SFT	SILT FENCE
SL	SECTION LINE
SSBU	STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION
STA	STATION
STL	STEEL
TM	TELEPHONE
TAN	LENGTH OF TANGENT
TC	TOP OF CURB
TE	TELEVISION
TV	TELEVISION
(TYF)	TYPICAL
UG	UNDERGROUND UTILITIES
VPC	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
WA	WATER

ABBREVIATIONS

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ANGLE POINT	AC
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BACK OF CURB	BC
BUTTERFLY VALVE	BF
BEGIN CURB RETURN	BGR
BOTTOM	BOT
BEST MANAGEMENT PRACTICES	BSWMP
CORROGATED ALUMINUM PIPE	CAAP
COLORADO DEPARTMENT OF TRANSPORTATION	CDOT
CURB, GUTTER & SIDEWALK	CG & SW
CLEAR	CL
CORROGATED METAL PIPE	CO
COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)	COMB
CONCRETE	CONC
COUNTY SURVEY MONUMENT	CSM
CORROGATED STEEL PIPE	CSPP
COPPER	CU
DUCTILE IRON	DI
ELECTRIC	E
END CURB RETURN	ECR
ELEVATION	EG
EDGE OF PAVEMENT	EP
EXISTING	EX
FACE OF CURB	FG
FINISHED GRADE	FG
FLOW LINE	L
LENGTH OF ARC	L
LONG CHORD	LC
LONG FOOT	LF
LONG STREET	LS
SHORT ARC	LS
LEFT	LT
LEFT VANE	LV
METRO COUNTY SURVEY MONUMENT	MCSM
MANHOLE	MH
MECHANICAL JOINT	MJ
NOT APPLICABLE	N/A
NOT IN CONTRACT	NIC
NO ONE PERSON	NOP
NEAR SIDE CURB	NSCP
NOT TO SCALE	NTS
OVERHEAD POWER	OHP
OUTLET	OT
POINT OF COMPOUND CURVATURE	PCC
PERFORATED	PERF
POINT OF INTERSECTION	PI
PLASTIC IRRIGATION PIPE	PI
POINT ON TANGENT	POT
PROPOSED	PRT
POINT OF REVERSE CURVATURE	PRC
POLYVINYL CHLORIDE	PVC
RADIUS	R
REINFORCED CONCRETE PIPE	RCP
RESTRAINED GIANDS	RG
LONG RADIUS	RL
RIGHT OF WAY	ROW
RAILROAD	RR
SHORT RADIUS	RS
RIGHT	RT
RIGHT TURN	RTM
SANITARY	SA
SHORT CHORD	SC
SCHEDULED CONTRACT DOCUMENTS	SCD
SCHEDULED CONTRACT DOCUMENTS	SCH
SILT FENCE	SFT
SECTION LINE	SL
STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION	SSBU
STATION	STA
STEEL	STL
TELEPHONE	TM
LENGTH OF TANGENT	TAN
TOP OF CURB	TC
TELEVISION	TE
TELEVISION	TV
TYPICAL	(TYF)
UNDERGROUND UTILITIES	UG
VITRIFIED CLAY PIPE	VPC
VERTICAL POINT OF CURVATURE	VPC
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VERTICAL POINT OF INTERSECTION	VPI
VERTICAL POINT OF TANGENCY	VPT
WATER	WA

LEGEND

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	CONTOUR LINES (SHOW BETWEEN TOP & TOE)
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	FENCE (PLASTIC)
	FENCE (TEMPORARY CONSTRUCTION)
	FENCE (WOOD)
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RIGHT TURN	RTM
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UNDERGROUND UTILITIES	UG
VITRIFIED CLAY PIPE	VPC
VERTICAL POINT OF CURVATURE	VPC
VERTICAL POINT OF INTERSECTION	

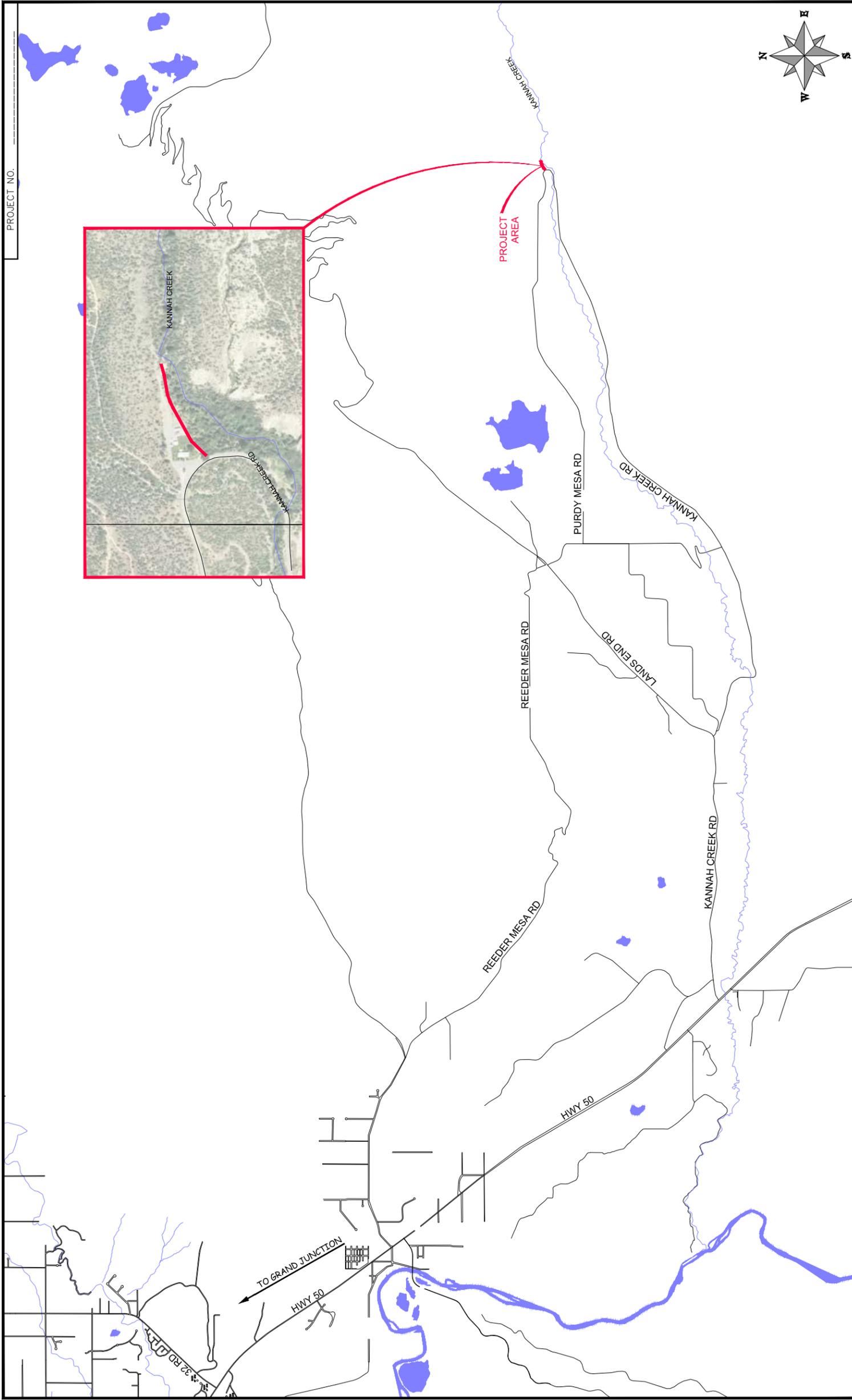
Bid Schedule: Kannah Creek Intake Rehabilitation

Item No.	CDOT City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	108.2	Irrigation Pipe (6") (SDR 35 PVC)	38.5	LF	\$ _____	\$ _____
2	108.2	Water Main (6") (C900, DR-18)	27.	LF	\$ _____	\$ _____
3	108.2	Water Main (8") (C900, DR-18)	34.	LF	\$ _____	\$ _____
4	108.2	Water Main (18") (C-905, DR-18) (Includes all Bell Joint Restraints and Connection to existing pipe)	282.	LF	\$ _____	\$ _____
5	108.2	Water Main (24") (C-905, DR-18) (Includes all Bell Joint Restraints and Connection to existing pipe and intake inlet)	237.		\$ _____	\$ _____
6	108.3	Check Valve (6") (Tideflex Checkmate Series 35 or Engineer approved)	2.	EA	\$ _____	\$ _____
7	108.3	Check Valve (8") (Tideflex Checkmate Series 35 or Engineer approved)	1.	EA	\$ _____	\$ _____
8	108.3	Combination Air Valve and Vault Assembly (6") (Includes Bedding material, flanged butterfly valve w/ 90o angle nut, air valve, 60" concrete vault, frost proof ring and cover, galvanized vent pipe, and all necessary fittings to complete assembly)	2.	EA	\$ _____	\$ _____
9	108.3	Elbow (2" x 90 deg)	14.	EA	\$ _____	\$ _____
10	108.3	Elbow (6" x 22.5 deg)	1.	EA	\$ _____	\$ _____
11	108.3	Elbow (6" x 90 deg)	2.	EA	\$ _____	\$ _____
12	108.3	Elbow (6" x 90 deg)	3.	EA	\$ _____	\$ _____
13	108.3	Elbow (18" x 22.5 deg)	1.	EA	\$ _____	\$ _____
14	108.3	Elbow (18" x 45 deg)	4.	EA	\$ _____	\$ _____
15	108.3	Elbow (24" x 11.25 deg)	2.	EA	\$ _____	\$ _____
16	108.3	Elbow (24" x 22.5 deg)	1.	EA	\$ _____	\$ _____
17	108.3	Electromagnetic Flow Sensor (8") (Sprax-Sarco MagFlow MAG 5100 W or Engineer approved equal) (Includes fittings to connect to waterline)	1.	EA	\$ _____	\$ _____
18	108.3	Electromagnetic Flow Sensor (18") (Sprax-Sarco MagFlow MAG 5100 W or Engineer approved equal) (Includes fittings to connect to waterline)	1.	EA	\$ _____	\$ _____
19	108.3	Gate Valve (6") (Manual)		EA	\$ _____	\$ _____
20	108.3	Gate Valve (8") (Includes Actuator)		EA	\$ _____	\$ _____
21	108.3	Slide Gate (24") (Whipps 800 Series or Engineering approved equivalent) (Includes modification of existing concrete structure to accommodate new gate and actuator)		EA	\$ _____	\$ _____
22	108.3	Tee (18" x 6")		EA	\$ _____	\$ _____
23	108.3	Tee (18" x 8")		EA	\$ _____	\$ _____
24	108.4	Irrigation Connection (2") (Include connection to irrigation pump, pump starter, well pump VFD)		Lump Sum	---	\$ _____
25	108.4	Irrigation Service Line (2") (Sch 40) (Include Elbows and Fittings to complete assembly and connect to Tapping Saddle and service line) (Water Service Line (2") (Sch 40) (Include Elbows and Fittings to complete assembly and connect to existing well and service line)		LF	\$ _____	\$ _____
26	108.4	Water Treatment Connection (Includes Water meter, Expansion Tank, Fillers, UV Filler, Water Softener, Potable Water System Pressure Transmitter) (Water service to house must remain in operation for the duration of the project)		Lump Sum	---	\$ _____
27	108.4	Pipe Valve Vault (60" I.D.) (8' Inside Height) (Inverted Ring/Cover) (Includes 6" thick Type A Bedding, adjustable pipe saddles (2) and all necessary fittings to complete assembly)		EA	\$ _____	\$ _____
28	108.5	Clearing and Grubbing (Includes trees, bushes, and native vegetation) Abandon Pipe (Abandon pipe by plugging both ends with concrete) Remove Building (Includes removal of concrete spillway and foundation wall to minimum 12" below finished grade)		Lump Sum	---	\$ _____
29	201	Remove Existing Air Valve		EA	\$ _____	\$ _____
30	202	Remove Existing Pipe (Size as shown on plans)		EA	\$ _____	\$ _____
31	202	Remove Sidewalk		EA	\$ _____	\$ _____
32	202	Remove Existing Pipe (Complete-in-Place)		EA	\$ _____	\$ _____
33	202	Remove Sidewalk		EA	\$ _____	\$ _____
34	202	Remove Sidewalk		EA	\$ _____	\$ _____
35	203	Remove Sidewalk		EA	\$ _____	\$ _____
36	203	Remove Sidewalk		EA	\$ _____	\$ _____
37	207	Remove Sidewalk		EA	\$ _____	\$ _____
38	207	Remove Sidewalk		EA	\$ _____	\$ _____
39	210	Remove Sidewalk		EA	\$ _____	\$ _____
40	212	Remove Sidewalk		EA	\$ _____	\$ _____
41	202	Remove Sidewalk		EA	\$ _____	\$ _____
42	216	Remove Sidewalk		EA	\$ _____	\$ _____
43	304	Remove Sidewalk		EA	\$ _____	\$ _____
44	506	Remove Sidewalk		EA	\$ _____	\$ _____
45	608	Remove Sidewalk		EA	\$ _____	\$ _____
46	620	Remove Sidewalk		EA	\$ _____	\$ _____
47	625	Remove Sidewalk		EA	\$ _____	\$ _____
48	626	Remove Sidewalk		EA	\$ _____	\$ _____
49	SP	Remove Sidewalk		EA	\$ _____	\$ _____
50	SP	Remove Sidewalk		EA	\$ _____	\$ _____
51	SP	Remove Sidewalk		EA	\$ _____	\$ _____
52	MCR	Remove Sidewalk		EA	\$ _____	\$ _____

Bid Amount: _____ dollars

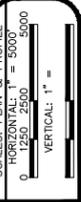
Bid Amount: \$ _____

PROJECT NO. _____



2017 KANNAH CREEK INTAKE REHABILITATION
VICINITY MAP

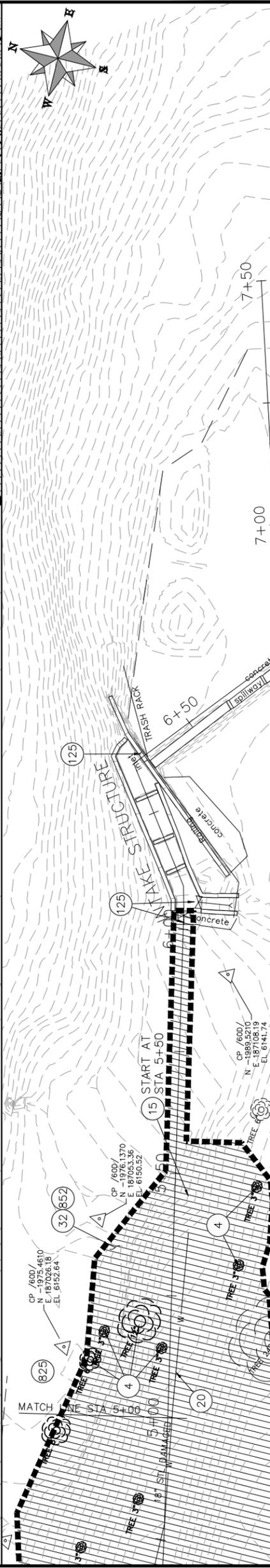
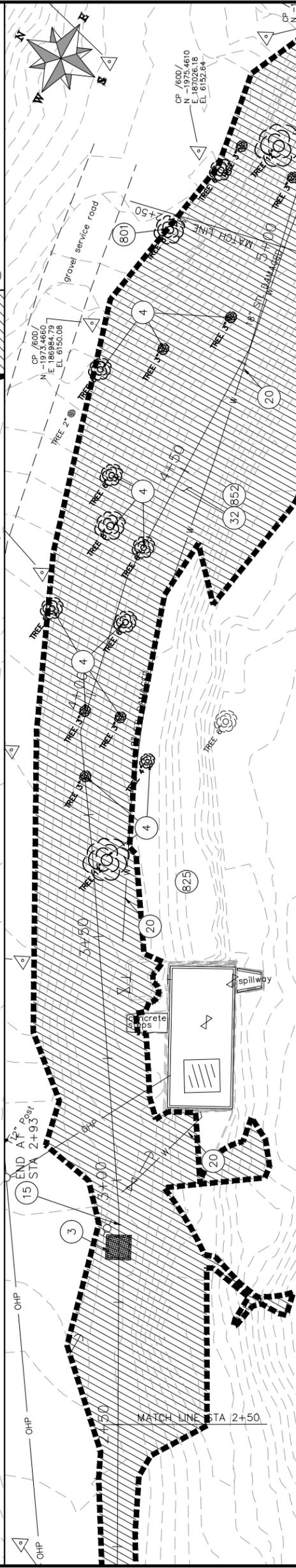
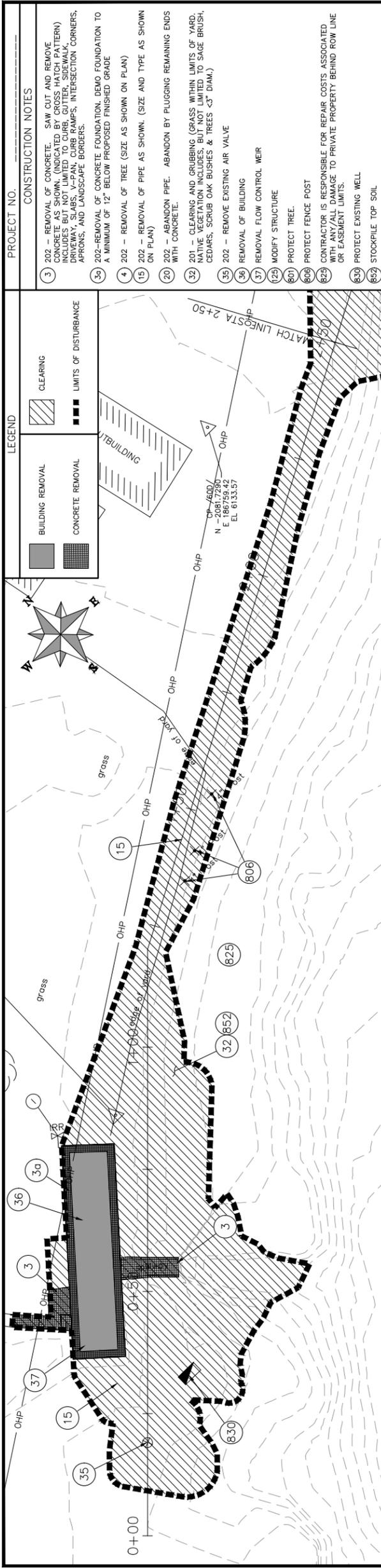
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ENGINEERING DIVISION



SCALE: PLAN & PROFILE	HORIZONTAL: 1" = 5000'	VERTICAL: 1" = 500'
DRAWN BY: HMC	DATE: 2017	
DESIGNED BY: JAE	DATE: 2017	
CHECKED BY: JAE	DATE: 2017	
APPROVED BY:	DATE:	

REVISION	DESCRIPTION	DATE
REVISION Δ		
REVISION Δ		
REVISION Δ		

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- PROJECT NO.**
- CONSTRUCTION NOTES**
- 3 REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APPROXS, AND LANDSCAPE BORDERS.
 - 3a
 - 3b
 - 3c
 - 3d
 - 3e
 - 3f
 - 3g
 - 3h
 - 3i
 - 3j
 - 3k
 - 3l
 - 3m
 - 3n
 - 3o
 - 3p
 - 3q
 - 3r
 - 3s
 - 3t
 - 3u
 - 3v
 - 3w
 - 3x
 - 3y
 - 3z
 - 4 REMOVAL OF TREE (SIZE AS SHOWN ON PLAN)
 - 15 REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 20 ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
 - 32 CLEARING AND GRUBBING (GRASS WITHIN LIMITS OF YARD, NATIVE VEGETATION INCLUDES, BUT NOT LIMITED TO SAGE BRUSH, CEDARS, SCRUB OAK BUSHES & TREES $\leq 3''$ DIAM.)
 - 35 REMOVE EXISTING AIR VALVE
 - 36 REMOVAL OF BUILDING
 - 37 REMOVAL FLOW CONTROL WEIR
 - 22 MODIFY STRUCTURE
 - 801 PROTECT TREE.
 - 806 PROTECT FENCE POST
 - 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
 - 830 PROTECT EXISTING WELL
 - 852 STOCKPILE TOP SOIL

LEGEND

- BUILDING REMOVAL
- CONCRETE REMOVAL
- CLEARING
- LIMITS OF DISTURBANCE

REVISION	DATE	BY	DESCRIPTION

DRAWN BY	HMC	DATE	2017
DESIGNED BY	JAE	DATE	2017
CHECKED BY	JAE	DATE	2017
APPROVED BY		DATE	

SCALES: PLAN & PROFILE
 HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'

CITY OF Grand Junction COLORADO

PUBLIC WORKS ENGINEERING DIVISION

2017 KANNAH CREEK INTAKE REHABILITATION DEMO PLAN STA 0+00 TO STA 7+50

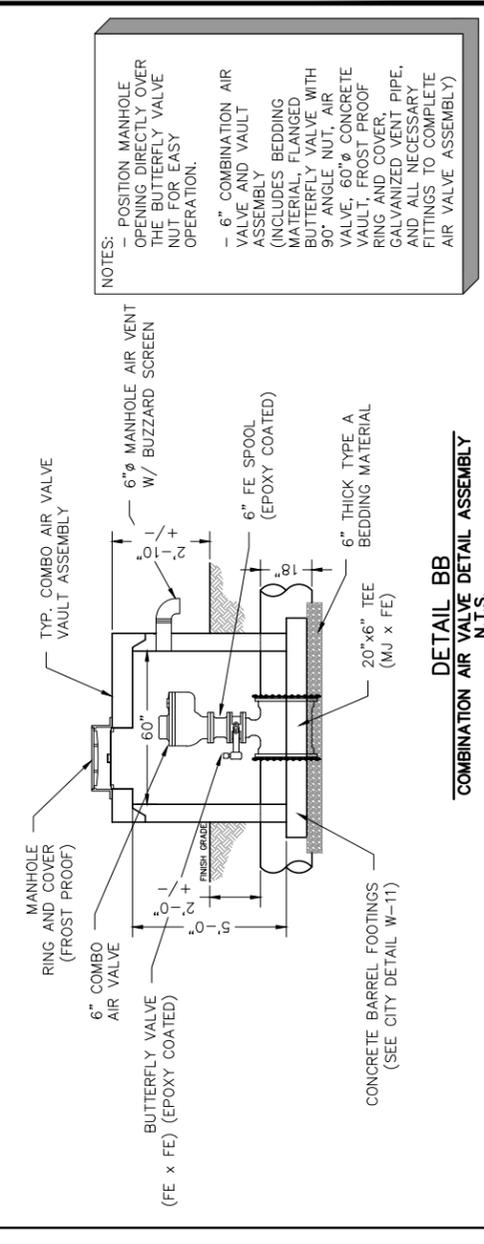
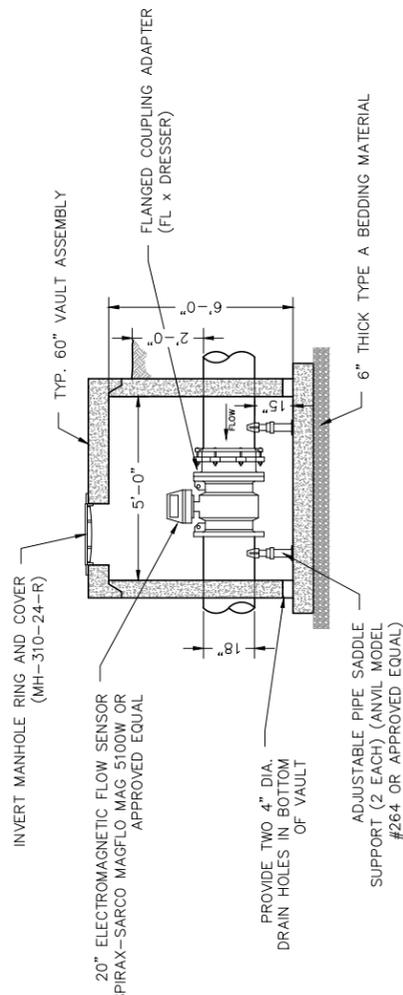
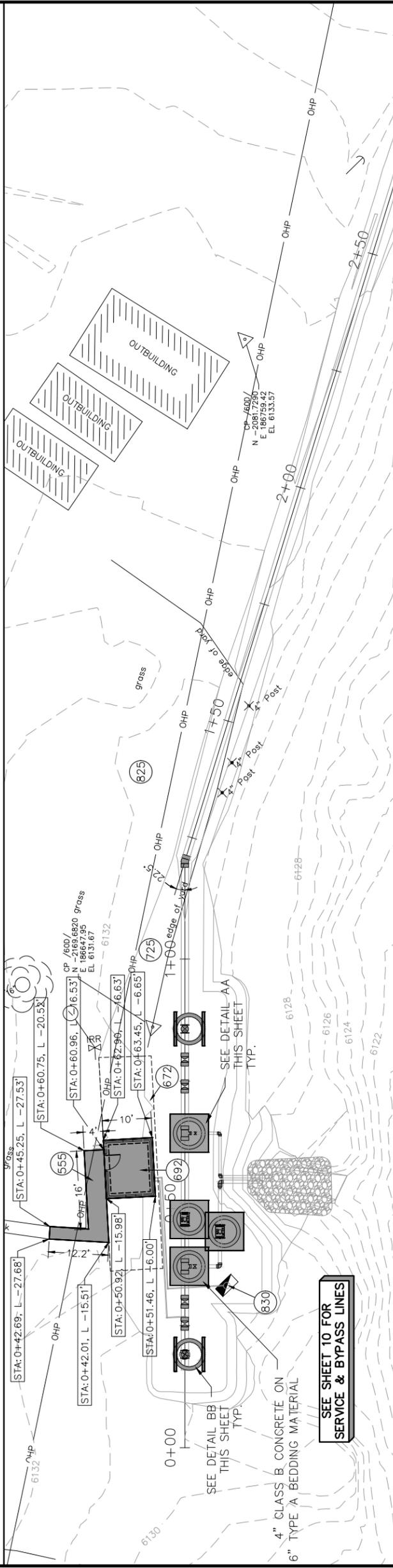
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PROJECT NO.

CONSTRUCTION NOTES

- 555 608.06 - CONCRETE SIDEWALK (4" THICK)(INCLUDES 6" AGGREGATE BASE COURSE)
- 677 304-AGGREGATE BASE COURSE (CLASS 3)(FILL CONCRETE FOUNDATION TO DEPTH 6" BELOW FINISHED GRADE, OR TO PROPOSED CONTROL BUILDING FOUNDATION. FILL IN MAX 12" LIFTS COMPACTED TO 95% STANDARD PROCTOR)
- 692 622-BUILDING FOUNDATION (4") (INCLUDES 6" AGGREGATE BASE COURSE)
- 725 207 - PLACE, GRADE, AND COMPACT 4" SUITABLE TOPSOIL AS SHOWN
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 830 PROTECT EXISTING WELL



NOTES:

- POSITION MANHOLE OPENING DIRECTLY OVER THE BUTTERFLY VALVE NUT FOR EASY OPERATION.
- 6" COMBINATION AIR VALVE AND VAULT ASSEMBLY (INCLUDES BEDDING MATERIAL, FLANGED BUTTERFLY VALVE WITH 90° ANGLE NUT, AIR VALVE, 60" CONCRETE VAULT, FROST PROOF RING AND COVER, GALVANIZED VENT PIPE, AND ALL NECESSARY FITTINGS TO COMPLETE AIR VALVE ASSEMBLY)

REVISION	DATE	DESCRIPTION

SCALE	DATE	DATE	DATE
HORIZONTAL: 1" = 20'			
VERTICAL: 1" = 10'			

DESIGNED BY	CHECKED BY	APPROVED BY
JAE	JAE	



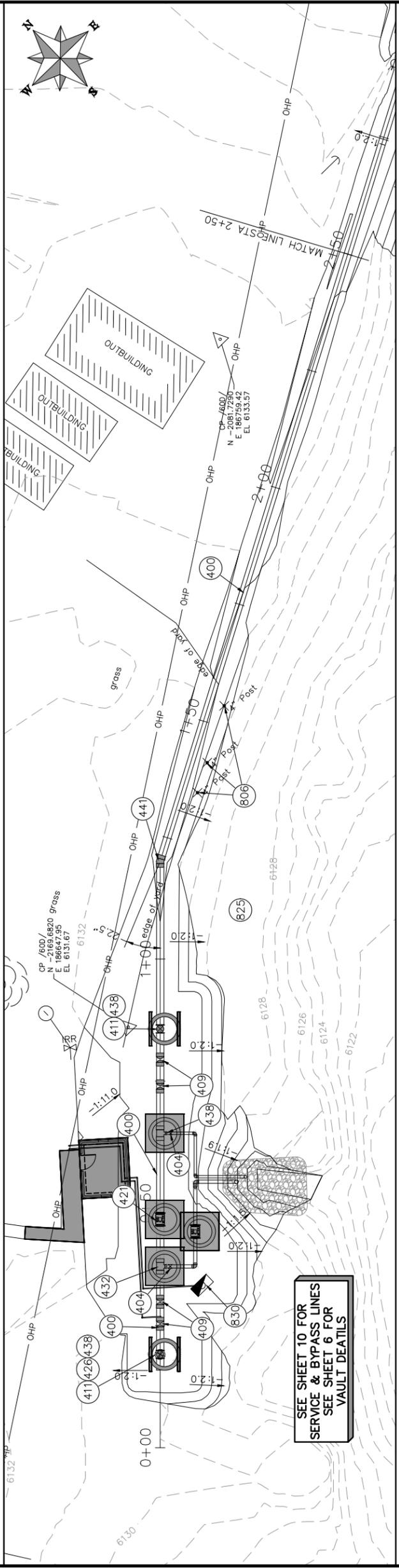
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ENGINEERING DIVISION

2017 KANNAH CREEK INTAKE REHABILITATION
CONCRETE PLAN
STA 0+00 TO STA 2+50

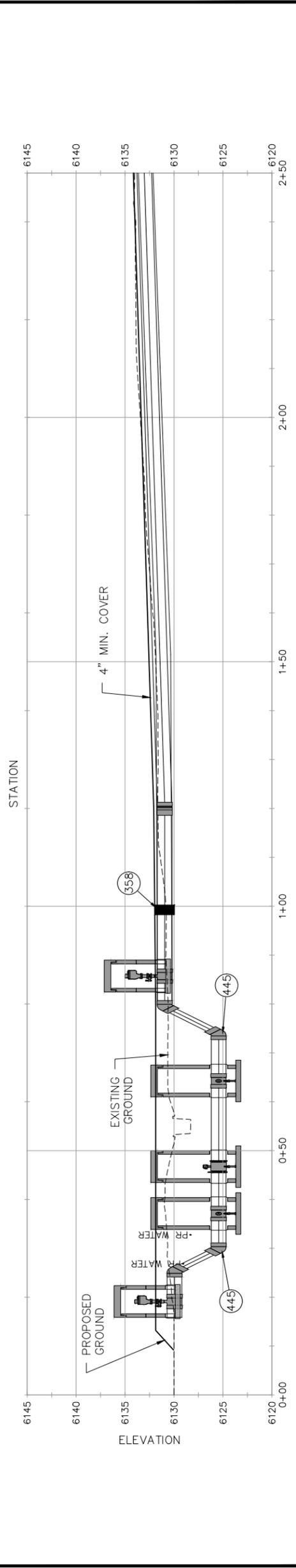
PROJECT NO. _____

CONSTRUCTION NOTES

- 33) SPECIAL PROVISION CURED IN PLACE
- 358) 10.3 - CLAY CUT-OFF WALL (INCIDENTAL TO WATER INSTALLATION PAY ITEM)
- 400) 102.7/108.2 - 18" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 404) 102.8b/108.3 - BUTTERFLY VALVE (SIZE AS SHOWN) (SEE SHEET 10)
- 409) 102.8b/108.3 - 18" - 45° ELBOW
- 411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- 421) 102.8i/108.4 - METER SETTER (INSTALL ONLY) (SIZE AS SHOWN ON PLAN) (SEE SHEET 10)
- 426) CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- 432) 102.8/108.3 - 18" x 8" TEE
- 438) 102.8/108.3 - 18" x 6" TEE
- 441) 18" - 22.5' ELBOW
- 445) 102.8/108.3 18" - 45' ELBOW
- 625) CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 639) PROTECT EXISTING WELL.



SEE SHEET 10 FOR SERVICE & BYPASS LINES
SEE SHEET 6 FOR VAULT DETAILS



REVISION	DESCRIPTION	DATE	BY

SCALE	HORIZONTAL	VERTICAL
PLAN & PROFILE	1" = 20'	1" = 10'
	5" = 10'	2.5" = 5'

DATE	DATE	DATE	DATE

DESCRIPTION	DATE	DATE	DATE



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ENGINEERING DIVISION**

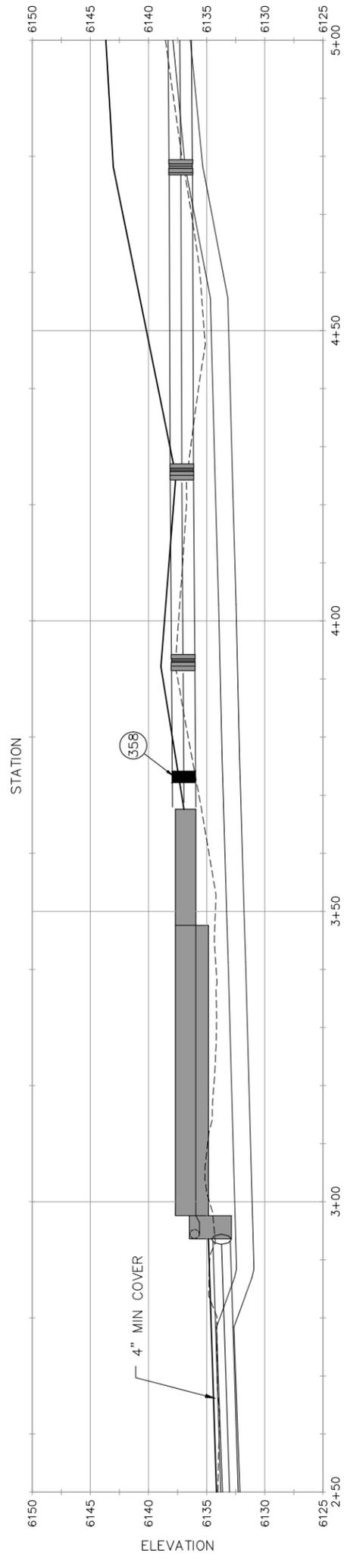
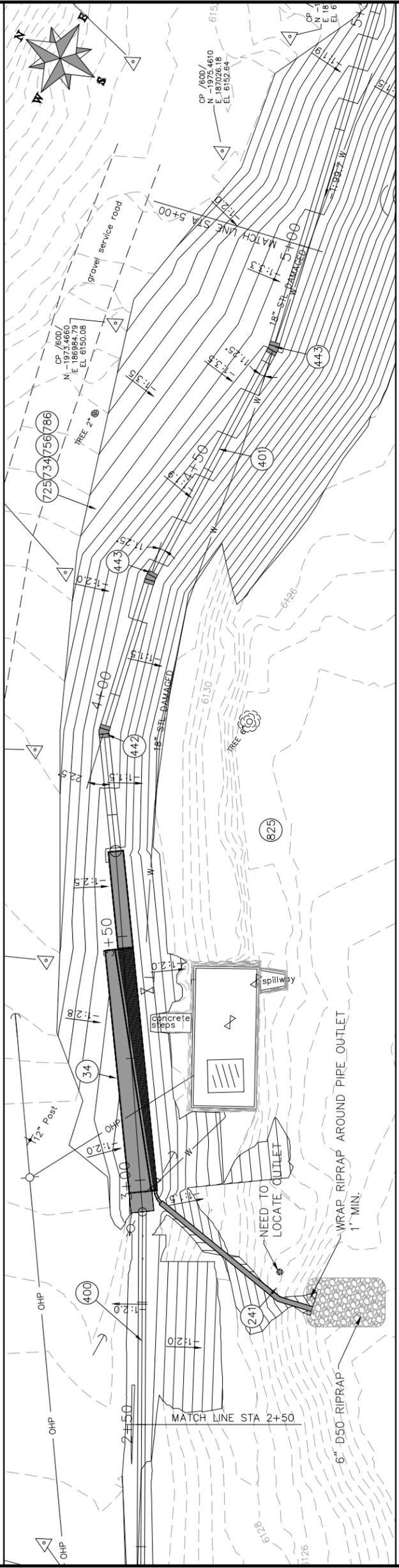
**2017 KANNAH CREEK INTAKE REHABILITATION
WATERLINE PLAN AND PROFILE
STA 0+00 TO STA 2+50**

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PROJECT NO. _____

CONSTRUCTION NOTES

- (34) FISHSCREEN INSTALLATION AND CONNECTION PER PROJECT SPECIFICATIONS
- (40) 102.7/108.2 - 18" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16' EARTH BACKFILL MATERIAL.
- (40) 102.7/108.2 - 24" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16' EARTH BACKFILL MATERIAL.
- (42) 102.8/108.3 - 24", 22.5' ELBOW
- (43) 102.8/108.3 - 24", 11.25' ELBOW
- (72) 207 - PLACE, GRADE, AND COMPACT 4" SUITABLE TOPSOIL AS SHOWN
- (73) 212 - SEED VARIATION (NATIVE MIX)
- (75) 216 - SOIL RETENTION BLANKET (BIODEGRADABLE STRAW (COCONUT))
- (80) 203 - EMBANKMENT FILL (COMPLETION IN PLACE)
- (82) CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.



REVISION	DATE	DESCRIPTION

SCALE	DATE	BY
HORIZONTAL: 1" = 20'	2017	JAE
VERTICAL: 1" = 10'	2017	JAE

SCALE	DATE	BY
HORIZONTAL: 1" = 20'	2017	JAE
VERTICAL: 1" = 10'	2017	JAE

DRAWN BY: HMC
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 APPROVED BY: _____



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ENGINEERING DIVISION

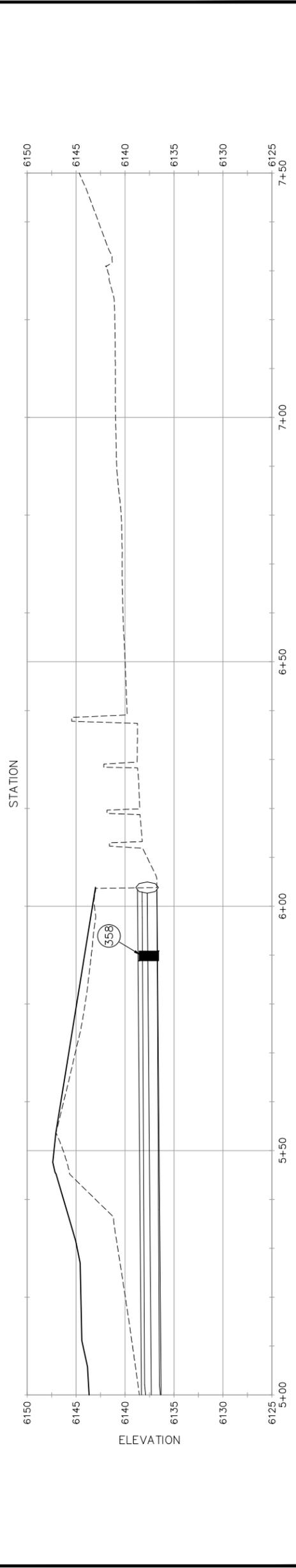
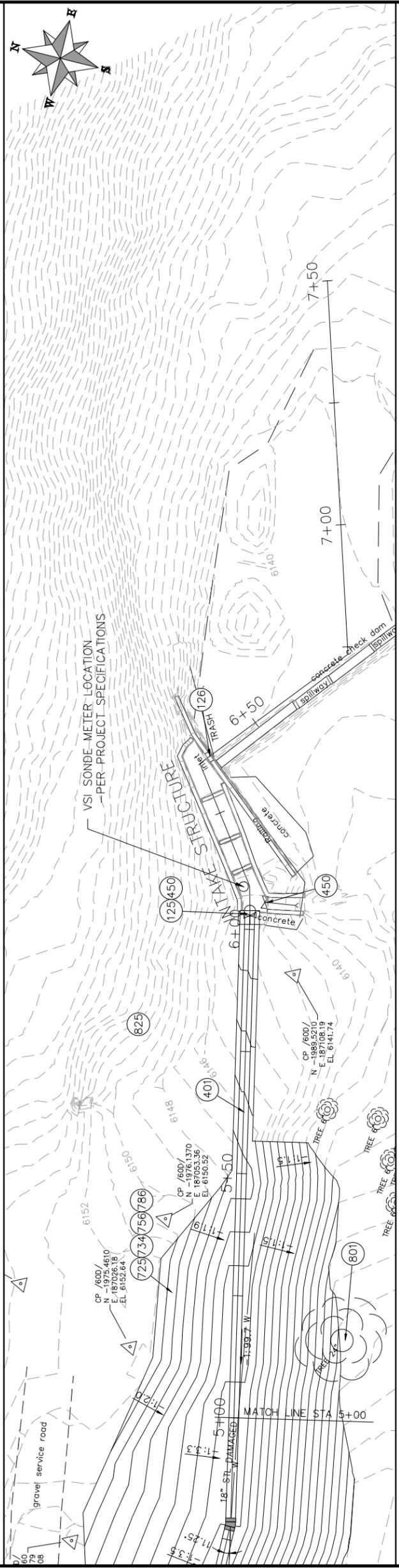
2017 KANNAH CREEK INTAKE REHABILITATION
WATERLINE PLAN AND PROFILE
STA 2+50 TO STA 5+00

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PROJECT NO. _____

CONSTRUCTION NOTES

- (126) REMOVE STEEL BARS FROM INLET
- (358) 10.3 - CLAY CUT-OFF WALL (INCIDENTAL TO WATER INSTALLATION PAY ITEM)
- (401) 102.7/108.2 - 24" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (459) 102.8/108.3 - WHIPPS 800 SERIES SLIDEGATE OR ENGINEER EQUIVALENT PER PROJECT SPECS
- (725) 207 - PLACE, GRADE, AND COMPACT 4" SUITABLE TOPSOIL AS SHOWN
- (734) 212 - SEED VARIATION (NATIVE MIX)
- (759) 216 - SOIL RETENTION BLANKET (BIODEGRADABLE STRAW (COCONUT))
- (766) 203 - EMBANKMENT FILL (COMPLETION IN PLACE)
- (801) PROTECT TREE.
- (825) CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.



REVISION	DESCRIPTION	DATE	DRAWN BY	HMC	DATE
					2017
					2017
					2017
					2017

REVISION	DATE	DESIGNED BY	DATE

REVISION	DATE	CHECKED BY	DATE

REVISION	DATE	APPROVED BY	DATE

SCALES: PLAN & PROFILE
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 VERTICAL: 1" = 10'



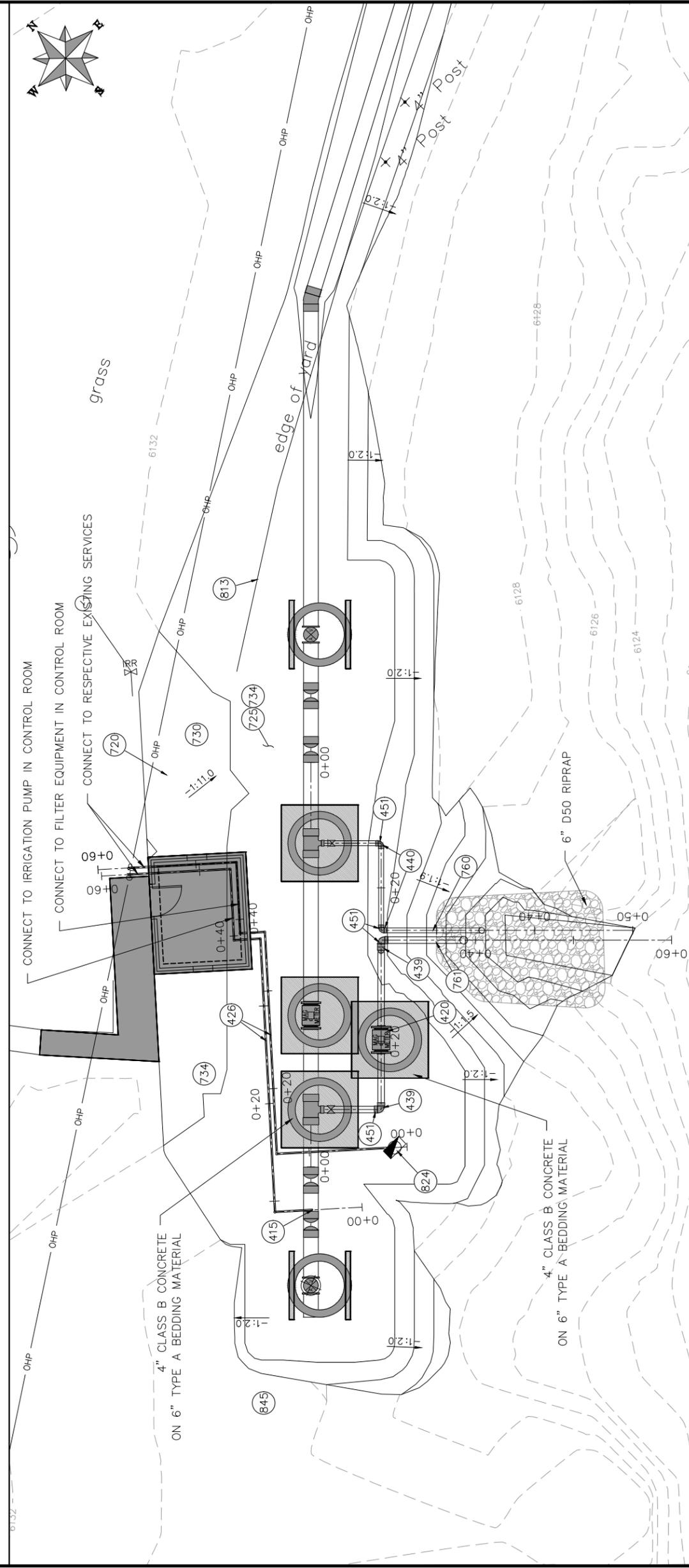
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ENGINEERING DIVISION

2017 KANNAH CREEK INTAKE REHABILITATION
WATERLINE PLAN AND PROFILE
STA 5+00 TO STA 7+50

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- 415 102.BK/108.4 - TAPPING SADDLE (18"x2")
- 420 102.B/108.4 - METER SETTER (SIZE AS SHOWN ON PLAN)
- 426 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 439 102.B/108.3 - 8", 90° ELBOW
- 440 102.B/108.3 - 6", 90° ELBOW
- 451 108.3 THRUSTBLOCK
- 720 207 - PLACE AND COMPACT FILL TO LEVEL EVEN WITH TOP OF FOUNDATION WALL
- 725 207 - PLACE, GRADE, AND COMPACT 4" SUITABLE TOPSOIL AS SHOWN

- 730 212 - RESEED AREA AS SHOWN
- 734 212 - SEED VARIATION 1
- 760 607 - 6" CHECK VALVE (TIDEFLEX CHECKMATE OR ENGINEER APPROVED EQUIVALENT)
- 761 607 - 8" CHECK VALVE (TIDEFLEX CHECKMATE OR ENGINEER APPROVED EQUIVALENT)
- 813 PROTECT LANDSCAPE APPURTENANCE (TYPE AS SHOWN ON PLAN).
- 824 PROTECT UTILITY PEDESTAL.
- 845 NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.



REVISION	DESCRIPTION	DATE	BY

SCALE	DATE	BY
HORIZONTAL: 1" = 20'		
VERTICAL: 1" = 10'		

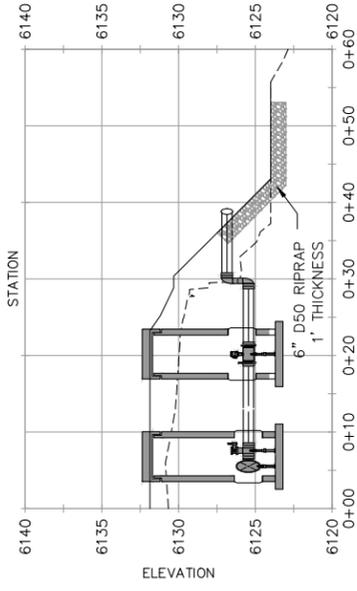


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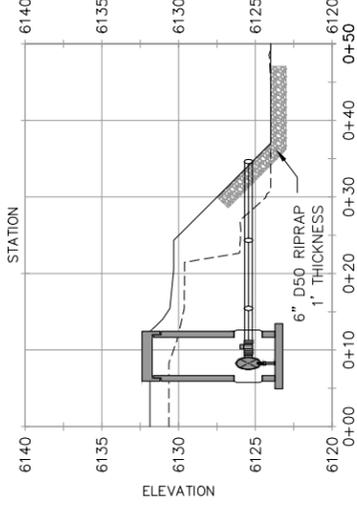
**2017 KANNAH CREEK INTAKE REHABILITATION
PLAN
OVERFLOW AND ADDITIONAL LINES**

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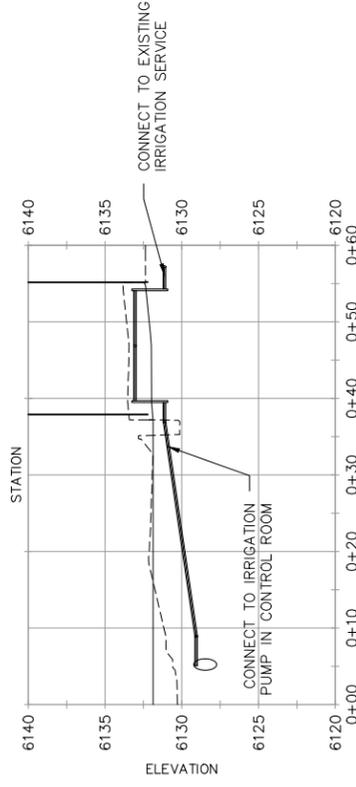
PROJECT NO. _____



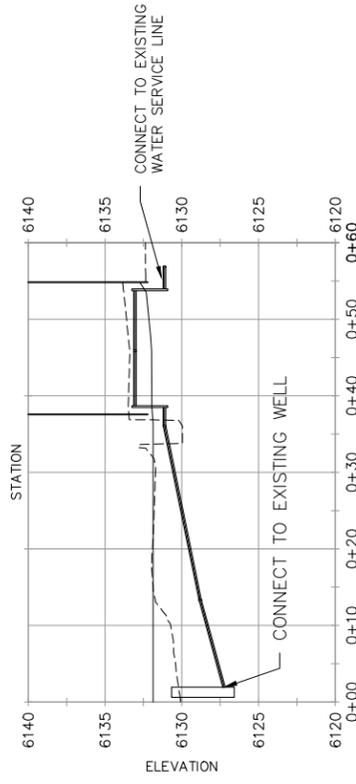
8IN OVERFLOW LINE



6IN OVERFLOW LINE



2IN IRRIGATION LINE



2IN WATER LINE

REVISION	DESCRIPTION

DATE	DATE	DATE	DATE

DRAWN BY	HMC	DATE	2017
DESIGNED BY	JAE	DATE	2017
CHECKED BY	JAE	DATE	2017
APPROVED BY		DATE	

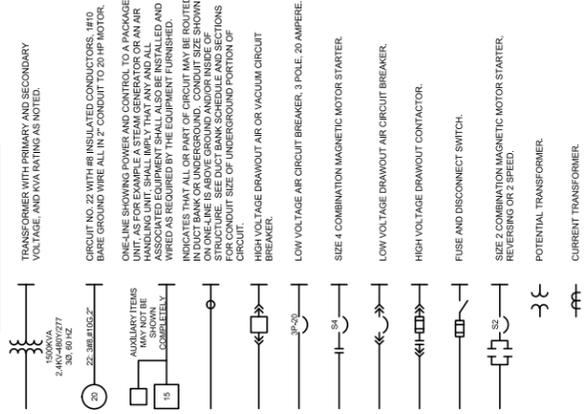
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PUBLIC WORKS
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2017 KANNAH CREEK INTAKE REHABILITATION
PROFILES
OVERFLOW AND ADDITIONAL LINES

ONE LINE DIAGRAM LEGEND



SCHEMATIC SYMBOLS



ABBREVIATIONS

A	AMBIER	ALARM
AC	ADJUSTING	CURRENT
AD	ADJUSTABLE	FREQUENCY
AFF	ABOVE	FINISHED FLOOR
AM	AMMETER	THROU/THRU
ANV	AMERICAN	WIRE GAUGE
C	CLOSE	COUNTER,
CA	CAPACITOR	
CB	CIRCUIT	BREAKER
CD	CONTROL	DAMPER
CL	CHLORINE	PANEL
CM	CONTROL	POWER
CPT	CYCLE	TIMER, CURRENT
CS	TRANSFORMER	
CT	TRANSFORMER	MOTOR
CTM	2" CONDUIT	
4C	4" CONDUIT	
DC	DAMPER	MOTOR, DEMAND
DM	METER	
DPT	DOUBLE	POLE DOUBLE THROW
DP	DIFFERENTIAL	PRESSURE
DPS	DIFFERENTIAL	PRESSURE
DS	SWITCH	CONNECT SWITCH
E	ELECTRIC	OPERATOR FOR
EMH	CONTROL	DAMPER OR VALVE
ETM	ELAPSED	TIME METER
EX	EXISTING	
FS	FLOW	SWITCH
G	GREEN	GROUND
GI	GEARED	LIMIT SWITCH
GLS	GEARED	LIMIT SWITCH
HL	HANDLE	
HH	HIGH	MOTOR TEMPERATURE
HMT	HAND-OFF	REMOTE
HOR	HAND-OFF	REMOTE
HP	HORSEPOWER	
HPIC	HIGH	PRESSURE INTERRUPT
HZ	HERTZ	CYCLE
I/O	INPUT/OUTPUT	
J	JUNCTION	BOX
KVA	KILOVOLT	AMPERE
KVAR	KILOVOLT	AMPERE
KWH	KILOWATT	HOUR
L	LOW	LEVEL
LA	LOCAL	AREA NETWORK
LAN	LOCAL	AREA NETWORK
LP	LIGHTING	PANEL
LS	LOW	SPEED ON, LEVEL
LWCO	LOW	WATER CUTOFF
M	MOTOR	
MA	MILLIAMPERE	
MB	MOTOR	BREAKER
MCC	MOTOR	CONTROL CENTER
MC	THOUSAND	CIRCULAR MIL
MH	MANHOLE	MOUNTING
MV	HEIGHT	OPERATED VALVE
MS	MANUAL	MOTOR STARTER
MSH	MOTOR	SPACE HEATER
NC	NORMALLY	CLOSED
NO	NORMALLY	OPEN, NUMBER
OL	OVERLOAD	
OL	OVERLOAD	
PB	PUSH	BUTTON, PULL BOX
PH	PHASE	CHUCK (ALTERNATE)
PLC	PROGRAMMABLE	LOGIC
PLC	PROGRAMMABLE	LOGIC
PP	POTENTIAL	PRESSURE SWITCH
PT	POTENTIAL	TRANSFORMER, PROGRAM
SP	2 POLE	REVERSE, RELAY,
R	REVERSE	

AREA DESIGNATIONS

THE SPECIAL AREA DESIGNATION BOXES, AS DEFINED BELOW, ARE LOCATED ON THE PLAN DRAWINGS TO DEFINE ELECTRICAL INSTALLATION REQUIREMENTS. DESIGNATION BOXES ARE LOCATED WITHIN ROOM OR BELOW ROOM NUMBER. ALL INDOOR AREAS NOT INDICATED OTHERWISE ARE AREA TYPE 1 AND MINIMUM NEMA TYPE 1 ENCLOSURES.

AREA TYPE 1 CORROSIVE CHEMICAL FEED AND STORAGE ROOMS. CONDUIT SYSTEM SHALL BE RIGID NONMETALLIC CONDUIT WITH PVC FITTINGS, BOXES, AND ACCESSORIES.

AREA TYPE 2 INDOOR WET LOCATIONS SUCH AS VAULTS, HOSEDOWN AREAS, BASEMENTS, ETC. CONDUIT SYSTEM SHALL BE RIGID NONMETALLIC CONDUIT WITH PVC FITTINGS, BOXES, AND ACCESSORIES.

AREA TYPE 3 INDOOR WET LOCATIONS SUCH AS VAULTS, HOSEDOWN AREAS, BASEMENTS, ETC. CONDUIT SYSTEM SHALL BE RIGID NONMETALLIC CONDUIT WITH PVC FITTINGS, BOXES, AND ACCESSORIES.

AREA TYPE 4 CLASS 1, DIVISION 1 AREAS DEFINED BY NEC. ALL EQUIPMENT AND CONDUIT SYSTEMS SHALL BE RATED FOR USE IN THIS AREA.

AREA TYPE 5 CLASS 1, DIVISION 2, GROUP C AND D (METHANE, GASOLINE) AS DEFINED BY NEC. EQUIPMENT AND CONDUIT SYSTEMS SHALL BE RATED FOR USE IN THIS AREA.

AREA TYPE 6 INDOOR, DRY, DIRTY AREA. REQUIRES MINIMUM NEMA TYPE 12 GASKETED ENCLOSURES FOR ALL EQUIPMENT AND GASKETED FITTINGS IN CONDUIT SYSTEMS.

AREA TYPE 7 OUTDOOR AND INDOOR WET LOCATIONS SUBJECT TO CORROSION. CONDUIT SYSTEM SHOULD BE PVC COATED RIGID GALVANIZED STEEL WITH PVC COATED FITTINGS, BOXES, AND STAINLESS STEEL HARDWARE.

GENERAL REQUIREMENTS

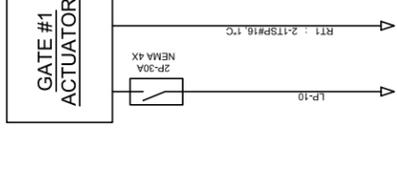
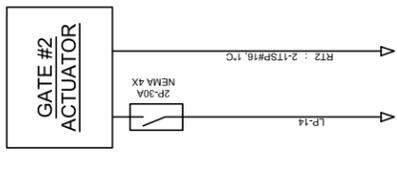
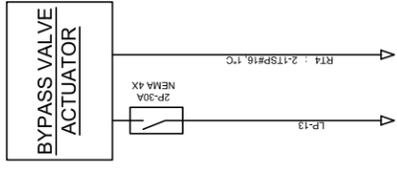
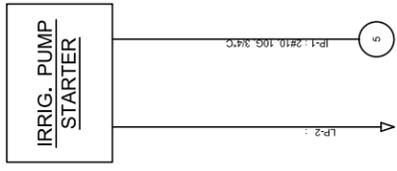
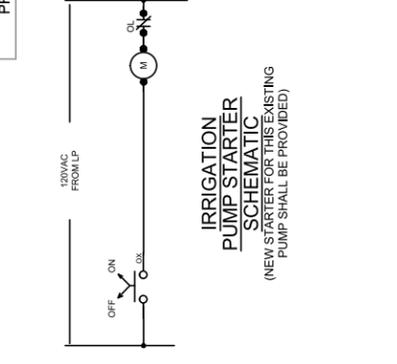
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING ALL CONDUITS NOT SHOWN ON THE PLANS. THIS SHALL INCLUDE ALL CONDUITS SHOWN ON THE ONE-LINES AND ALL CONDUITS NOT SHOWN ON THE PLANS OR DRAWINGS. CONDUITS SHALL BE ROUTED AS DEFINED IN THE SPECIFICATIONS.
- SPARE WIRES SHALL BE TAPED AND COILED.
- IF EQUIPMENT SUPPLIED BY MANUFACTURER HAS A LARGER LOAD THAN VALUE SHOWN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT SHALL BE ENLARGED, AS REQUIRED, TO ACCOMMODATE THE HIGHER VALUE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINISHING PROPERLY SIZED STARTER OVERLOADS FOR EQUIPMENT FURNISHED.
- LOADS SHALL BE BASED ON THE FLOOR PLANS AS NOT SHOWN ON THE ONE-LINES. CONDUCTORS FOR LIGHTING RECEPTACLES AND MISCELLANEOUS 120VAC CIRCUITS SHALL BE MINIMUM NO. 12 AWG CONDUIT FOR LIGHTING RECEPTACLES, AND MISCELLANEOUS 120VAC CIRCUITS SHALL BE MINIMUM #12.
- IN AREAS WHERE THERE ARE OVERHEAD BRIDGE CRANES, HOISTS, ETC., NO CONDUITS SHALL BE OVERHEAD THAT WILL INTERFERE WITH THE OPERATION OF THE EQUIPMENT.

GENERAL NOTES

- SOLID LINES — INDICATE NEW WORK OR EQUIPMENT.
- DOTTED LINES - - - INDICATE EXISTING WORK OR EQUIPMENT.
- DASHED LINES - · - · INDICATE FUTURE WORK OR EQUIPMENT.
- THIS IS A GENERAL LEGEND SHEET. SOME SYMBOLS AND ABBREVIATIONS MAY NOT BE UTILIZED ON THIS SPECIFIC PROJECT.
- INFORMATION RELATED TO CIRCUIT IDENTIFICATION, WIRE & CONDUIT SIZES, AND ROUTING IS ON THE FOLLOWING DRAWING TYPES.
 - ONE-LINE DIAGRAMS SHOW CIRCUIT IDENTIFICATION, WIRE QUANTITY, AND SIZES, AND DESTINATION OF CIRCUITS, AND IDENTIFY CIRCUITS ROUTED UNDERGROUND.
 - FOR CIRCUITS WITHOUT UNDERGROUND PORTIONS, BUILDING FLOOR PLANS SHOW LOCATION OF EQUIPMENT FOR DETERMINING CIRCUIT LENGTH WITHIN THE STRUCTURE. FOR CIRCUITS WITH UNDERGROUND PORTIONS, ANTICIPATED PENETRATION OF UNDERGROUND STRUCTURE PORTIONS OF CIRCUITS. BUILDING FLOOR PLANS MAY ALSO SHOW HOME RUNS FOR LIGHTING RECEPTACLE, AND OTHER MISCELLANEOUS EQUIPMENT CIRCUITS.
 - SITE PLANS INDICATE THE GENERAL ROUTING OF UNDERGROUND CONDUITS AND DUCT BANKS. CIRCUITS ROUTED IN UNDERGROUND CONDUITS OR DUCT BANKS ARE INDICATED IN DUCT BANK SECTIONS REFERENCED ON THE SITE PLAN.
 - DUCT BANK SECTIONS AND SCHEDULES IDENTIFY CONDUIT SIZE, CONDUIT MATERIAL, AND NUMBER OF UNDERGROUND CONDUITS, AND CIRCUITS ROUTED IN EACH UNDERGROUND CONDUIT.
- CLOSED MARKINGS INDICATE WORK IN EXISTING AREAS THAT IS NOT OTHER WORK ON AN EXISTING PIECE OF EQUIPMENT.



PROJECT NO. _____



IRRIGATION PUMP STARTER ONE-LINE DIAGRAM

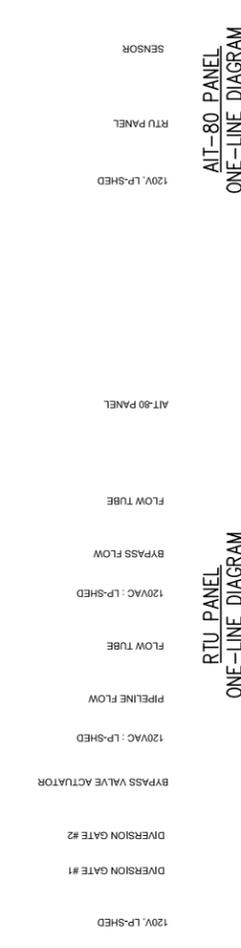
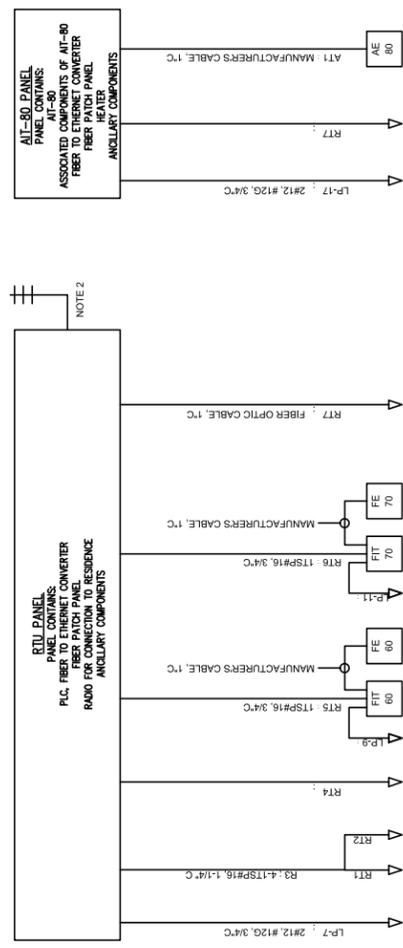
WELL PUMP VFD EXISTING ONE-LINE DIAGRAM

BYPASS VALVE ACTUATOR ONE-LINE DIAGRAM

GATE #2 ONE-LINE DIAGRAM

GATE #1 ONE-LINE DIAGRAM

DIVERSION STRUCTURE ONE-LINE DIAGRAM



- NOTES:
1. THE EXISTING CIRCUIT TO THE EXISTING SHED SHALL BE RELOCATED TO CONNECT TO THE NEW LIGHTING PANEL, LP-SHED.
 2. AN ETHERNET RADIO SHALL BE INSTALLED TO CONNECT THE SHED TO THE RESIDENCE'S INTERNET SERVICE.

REVISION A	DATE	DRAWN BY	DATE 8-17	SCALE: PLAN & PROFILE
REVISION A		DESIGNED BY	DATE 8-17	HORIZONTAL: 1" =
REVISION A		CHECKED BY	DATE	VERTICAL: 1" =
REVISION A		APPROVED BY	DATE	

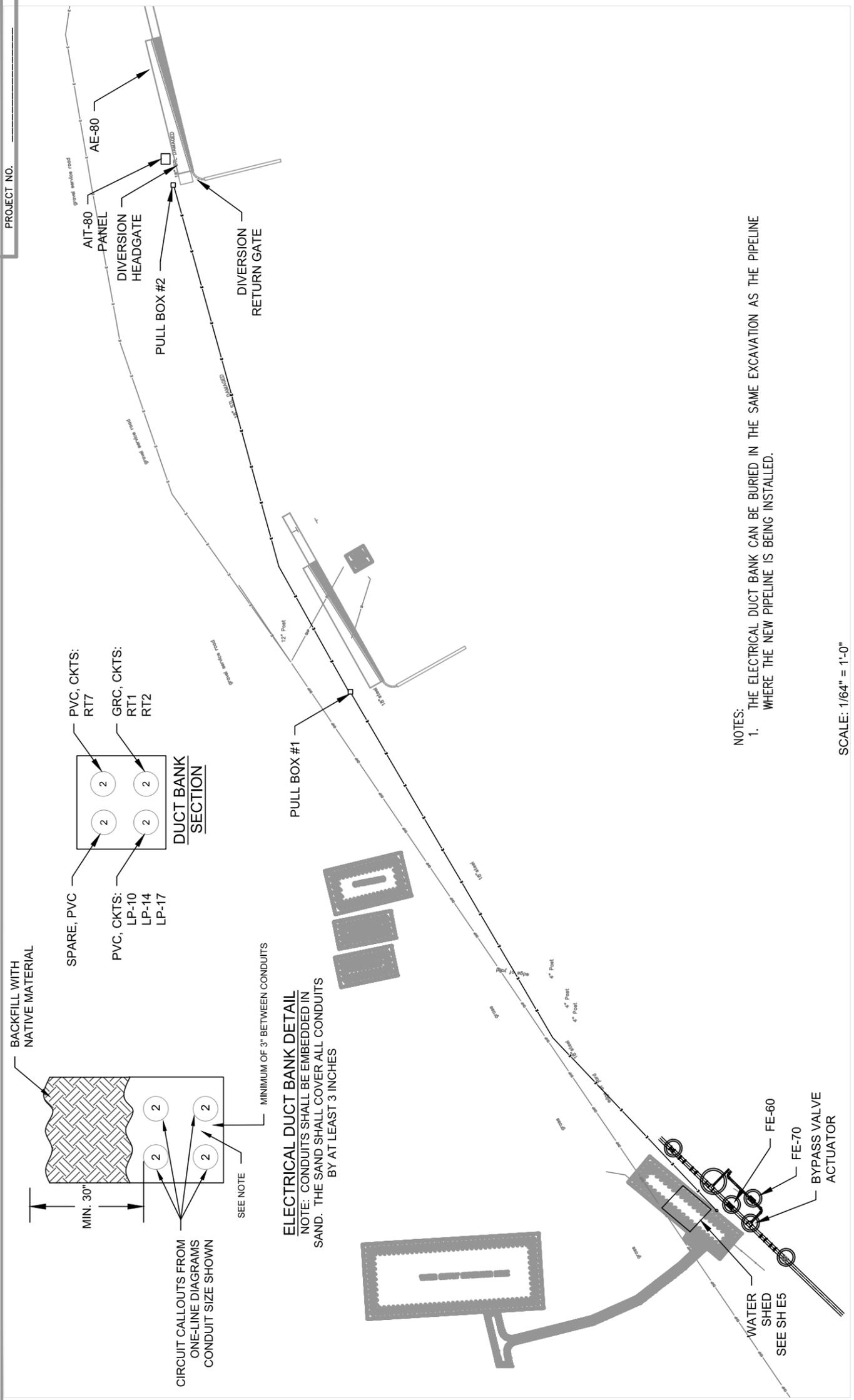
RTU PANEL ONE-LINE DIAGRAM

AIT-80 PANEL ONE-LINE DIAGRAM

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PUBLIC WORKS
ENGINEERING DIVISION

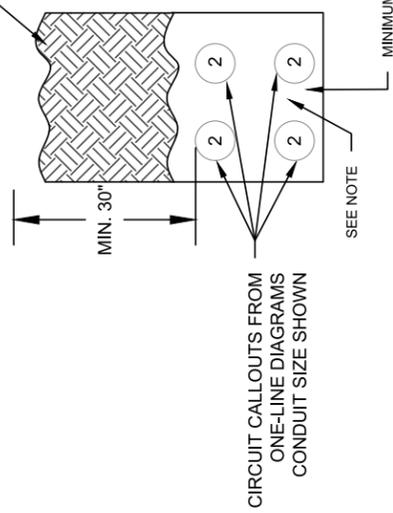
CITY OF GRAND JUNCTION
2017 KANNAH CREEK INTAKE REHABILITATION
ELECTRICAL ONE-LINE DIAGRAMS

E3

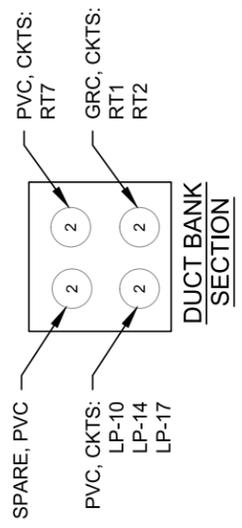


PROJECT NO. _____

BACKFILL WITH NATIVE MATERIAL



ELECTRICAL DUCT BANK DETAIL
 NOTE: CONDUITS SHALL BE EMBEDDED IN SAND. THE SAND SHALL COVER ALL CONDUITS BY AT LEAST 3 INCHES



MINIMUM OF 3" BETWEEN CONDUITS

NOTES:
 1. THE ELECTRICAL DUCT BANK CAN BE BURIED IN THE SAME EXCAVATION AS THE PIPELINE WHERE THE NEW PIPELINE IS BEING INSTALLED.

SCALE: 1/64" = 1'-0"

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	DESIGNED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
REVISION A			JTW	8-17	JTW	8-17				
REVISION B										
REVISION C										
REVISION D										

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" =	
VERTICAL: 1" =	



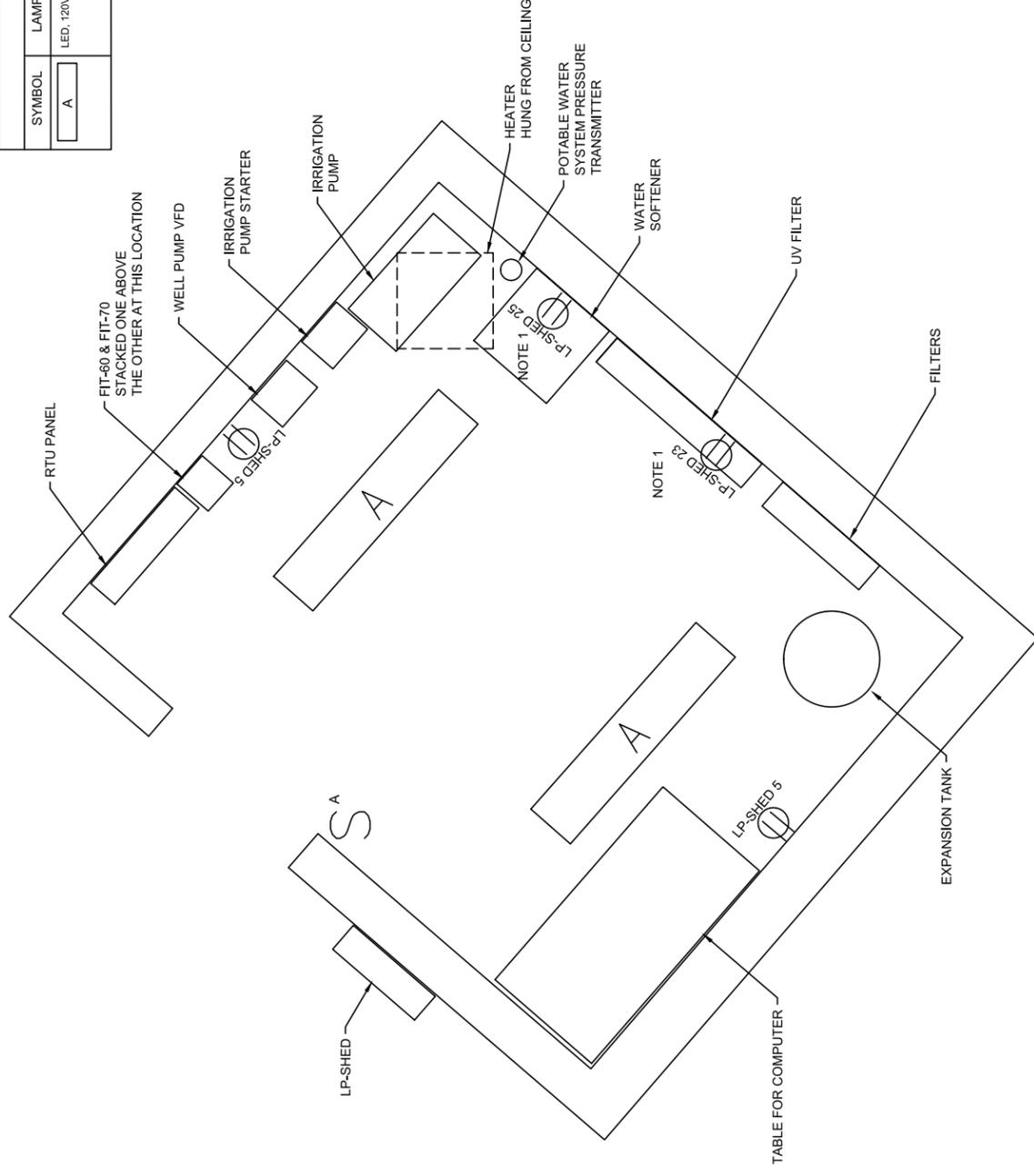
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 ENGINEERING DIVISION

CITY OF GRAND JUNCTION
 2017 KANNAH CREEK INTAKE REHABILITATION
 ELECTRICAL SITE PLAN

E4

PROJECT NO. _____

LIGHTING FIXTURE SCHEDULE			
SYMBOL	LAMP	MTG HEIGHT	MANUFACTURER
A	LED, 120V	MOUNT ON CEILING	DIALIGHT: LPK44-2C3DF



NOTES:
1. MOUNT THE RECEPTACLE NEAR THE EQUIPMENT IT IS DEDICATED FOR.

WATER SHED - PLAN VIEW

NTS

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	DESIGNED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
REVISION A			JTW	8-17	JTW	8-17				
REVISION B										
REVISION C										

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" =	
VERTICAL: 1" =	



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2017 KANNAH CREEK INTAKE REHABILITATION
ELECTRICAL ONE-LINE DIAGRAMS

E5