



Purchasing Division

Invitation for Bid

IFB-4731-20-DH

23 Road Sewer Trunk Line Extension Project

Responses Due:

January 2, 2020 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, Senior Buyer

duaneh@gjcity.org

970-244-1545

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

Invitation for Bids

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1. Instructions to Bidders

- 1.1. **Purpose:** The City of Grand Junction is soliciting competitive bids from qualified and interested companies for all labor, equipment, and materials required **23 Road Sewer Trunk Line Extension Project**. All dimensions and scope of work should be verified by Contractors prior to submission of bids.

IFB Questions:

Duane Hoff, Senior Buyer
duaneh@gjcity.org

The City would like to remind all Contractors, Sub-Contractors, Vendors, Suppliers, Manufacturers, Service Providers, etc. that (with the exception of Pre-Bid or Site Visit Meetings) all questions, inquiries, comments, or communication pertaining to any formal solicitation (whether process, specifications, scope, etc.) must be directed (in writing) to the Purchasing Agent assigned to the project, or Purchasing Division. Direct communication with the City assigned Project Managers/Engineers is not appropriate for public procurement, and may result in disqualification.

- 1.2. **Mandatory Pre-Bid Meeting:** Prospective bidders are required to attend a mandatory pre-bid meeting on December 17, 2019 at 9:00 am. Meeting location shall be in the City Council Auditorium at City Hall, located at 250 North 5th Street, Grand Junction, CO. The purpose of this visit will be to inspect and to clarify the contents of this Invitation for Bids (IFB).
- 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. **Submission:** Each bid shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (<https://www.rockymountainbidssystem.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. (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**)
- 1.5. **Modification and Withdrawal of Bids Before Opening.** Bids may be modified or withdrawn by an appropriate document stating such, duly executed and submitted to the place where Bids are to be submitted at any time prior to Bid Opening.
- 1.6. **Printed Form for Price Bid:** All Price Bids must be made upon the Price Bid Schedule attached, and should give the amounts both in words and in figures, and must be signed and acknowledged by the bidder.

The Offeror shall specify a unit price in figures for each pay item for which a quantity is given and shall provide the products (in numbers) of the respective unit prices and quantities in the Extended Amount column. The total Bid price shall be equal to the sum of all extended amount prices. When an item in the Price Bid Schedule provides a choice to be made by the Offeror, Offeror's choice shall be indicated in accordance with the specifications for that particular item and thereafter no further choice shall be permitted.

Where the unit of a pay item is lump sum, the lump sum amount shall be shown in the "extended amount" column and included in the summation of the total Bid.

All blank spaces in the Price Bid Schedule must be properly filled out.

Bids by corporations must be executed in the corporate name by the president or vice president or other corporate office accompanied by evidence of authority to sign. The corporate address and state of incorporation shall be shown below the signature.

Bids by partnerships must be executed in the partnership name and signed by a partner whose title must appear under the signature and the official address of the partnership must be shown below the signature.

All names must be typed or printed below the signature.

The Offeror's Bid shall contain an acknowledgement of receipt of all Addenda, the numbers of which shall be filled in on the Contractor's Bid Form.

The contact information to which communications regarding the Bid are to be directed must be shown.

- 1.7. **Exclusions:** No oral, telephonic, emailed, or facsimile bid will be considered
- 1.8. **Contract Documents:** The complete IFB and bidder's response compose the Contract Documents. Copies of bid documents can be obtained from the City Purchasing website, <http://www.gjcity.org/business-and-economic-development/bids/>.
- 1.9. **Additional Documents:** The July 2010 edition of the "City Standard Contract Documents for Capital Improvements Construction", Plans, Specifications and other Bid Documents are available for review or download on the Public Works & Planning/Engineering page at www.gjcity.org. Electronic copies may be obtained on a CD format at the Department of Public Works and Planning at City Hall.
- 1.10. **Definitions and Terms:** See Article I, Section 3 of the General Contract Conditions in the *Standard Contract Documents for Capital Improvements Construction*.
- 1.11. **Examination of Specifications:** Bidders shall thoroughly examine and be familiar with the project Statement of Work. The failure or omission of any Offeror to receive or examine any form, addendum, or other document shall in no way relieve any Offeror from any obligation with respect to his bid. The submission of a bid shall be taken as evidence of compliance with this section. Prior to submitting a bid, each Offeror shall, at a minimum:

- a. Examine the *Contract Documents* thoroughly;
- b. Visit the site to familiarize themselves with local conditions that may in any manner affect cost, progress, or performance of the Work;
- c. Become familiar with federal, state, and local laws, ordinances, rules, and regulations that may in any manner affect cost, progress or performance of the Work;
- d. Study and carefully correlate Bidder's observations with the *Contract Documents*, and;
- e. Notify the Purchasing Agent of all conflicts, errors, ambiguities or discrepancies in or among the *Contract Documents* within the designated inquiry period.

On request, the Owner will provide each Offeror access to the site to conduct such investigations and tests as each Bidder deems necessary for submission of a Bid. It shall be the Offeror's responsibility to make or obtain any additional examinations, investigations, explorations, tests and studies and obtain any additional information and data which pertain to the physical conditions (including without limitation, surface, subsurface and underground utilities) at or contiguous to the site or otherwise which may affect cost, progress or performance of the work and which the Offeror deems necessary to determine its Bid for performing the work in accordance with the time, price and other terms and conditions of the *Contract Documents*. Location of any excavation or boring made by Offeror shall be subject to prior approval of Owner and applicable agencies. Offeror shall fill all holes, restore all pavements to match the existing structural section and shall clean up and restore the site to its former condition upon completion of such exploration. The Owner reserves the right to require the Offeror to execute an access agreement with the Owner prior to accessing the site.

The lands upon which the Work is to be performed, rights of way, and access thereto, and other lands designated for use by Contractor in performing the Work, are identified on the Drawings.

Information and data reflected in the *Contract Documents* with respect to underground utilities at or contiguous to the site are based upon information and data furnished to the Owner and the Engineer by the owners of such underground utilities or others, and the Owner does not assume responsibility for the accuracy or completeness thereof, unless it is expressly provided otherwise in the *Contract Documents*.

By submission of a Bid, the Offeror shall be conclusively presumed to represent that the Offeror has complied with every requirement of these Instructions to Bidders, that the *Contract Documents* are not ambiguous and are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the Work.

- 1.12. Questions Regarding Statement of Work:** Any information relative to interpretation of Scope of Work or specifications shall be requested of the Purchasing Representative, in writing, in ample time, prior to the inquiry deadline.
- 1.13. Addenda & Interpretations:** If it becomes necessary to revise any part of this solicitation, a written addendum will be posted electronically on the City's website at <http://www.gjcity.org/business-and-economic-development/bids/>. The Owner is not bound by any oral representations, clarifications, or changes made in the written specifications by Owner, unless such clarification or change is provided in written addendum form from the City Purchasing Representative.
- 1.14. Taxes:** The Owner is exempt from State retail and Federal tax. The bid price must be net, exclusive of taxes.
- 1.15. Sales and Use Taxes:** The Contractor and all Subcontractors are required to obtain exemption certificates from the Colorado Department of Revenue for sales and use taxes in accordance with the provisions of the General Contract Conditions. Bids shall reflect this method of accounting for sales and use taxes on materials, fixtures and equipment.
- 1.16. Offers Binding 60 Days:** Unless additional time is required by the Owner, or otherwise specified, all formal offers submitted shall be binding for sixty (60) calendar days following opening date, unless the Bidder, upon request of the Purchasing Representative, agrees to an extension.
- 1.17. Exceptions and Substitutions:** Bidders taking exception to the specifications and/or scope of work 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, Bidder 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 and/or scope of work. The absence of such a list shall indicate that the Bidder has not taken exceptions, and if awarded a contract, shall hold the Bidder responsible to perform in strict accordance with the specifications and/or scope of work contained herein.
- 1.18. Collusion Clause:** Each bidder by submitting a bid 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 bids shall be rejected if there is evidence or reason for believing that collusion exists among bidders. The Owner may, or may not, accept future bids for the same services or commodities from participants in such collusion.
- 1.19. Disqualification of Bidders:** A Bid will not be accepted from, nor shall a Contract be awarded to, any person, firm, or corporation that is in arrears to the Owner, upon debt or contract, or that has defaulted, as surety or otherwise, upon any obligation to the Owner, or that is deemed irresponsible or unreliable.

Bidders may be required to submit satisfactory evidence that they are responsible, have a practical knowledge of the project bid upon and that they have the necessary financial and other resources to complete the proposed Work.

Either of the following reasons, without limitation, shall be considered sufficient to disqualify a Bidder and Bid:

- a. More than one Bid is submitted for the same Work from an individual, firm, or corporation under the same or different name; and
- b. Evidence of collusion among Bidders. Any participant in such collusion shall not receive recognition as a Bidder for any future work of the Owner until such participant has been reinstated as a qualified bidder.

1.20. Public Disclosure Record: If the bidder has knowledge of their employee(s) or sub-contractors having an immediate family relationship with a City employee or elected official, the bidder 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 City.

2. General Contract Conditions for Construction Projects

- 2.1. The Contract:** This Invitation for Bid, submitted documents, and any negotiations, when properly accepted by the City, shall constitute a contract equally binding between the City and Contractor. The contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral. The contract may be amended or modified with Change Orders, Field Orders, or Addendums.
- 2.2. The Work:** The term Work includes all labor necessary to produce the construction required by the Contract Documents, and all materials and equipment incorporated or to be incorporated in such construction.
- 2.3. Execution, Correlation, Intent, and Interpretations:** The Contract Documents shall be signed by the Owner (City) and Contractor. City will provide the contract. By executing the contract, the Contractor represents that he/she has visited the site, familiarized himself with the local conditions under which the Work is to be performed, and correlated his 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 and other items necessary for the proper execution and completion of the scope of work as defined in the technical specifications and drawings contained herein. All drawings, specifications and copies furnished by the City are, and shall remain, City property. They are not to be used on any other project, and with the exception of one contract set for each party to the contract, are to be returned to the owner on request at the completion of the work.
- 2.4. The Owner:** The Owner is the City of Grand Junction, Colorado and is referred to throughout the Contract Documents. The term Owner means the Owner or his authorized representative. The Owner shall, at all times, have access to the work wherever it is in preparation and progress. The Contractor shall provide facilities for such access. The Owner will make periodic visits to the site to familiarize himself generally

with the progress and quality of work and to determine, in general, if the work is proceeding in accordance with the contract documents. Based on such observations and the Contractor's Application for Payment, the Owner will determine the amounts owing to the Contractor and will issue Certificates for Payment in such amounts, as provided in the contract. The Owner will have authority to reject work which does not conform to the Contract documents. Whenever, in his reasonable opinion, he considers it necessary or advisable to insure the proper implementation of the intent of the Contract Documents, he will have authority to require the Contractor to stop the work or any portion, or to require special inspection or testing of the work, whether or not such work can be then be fabricated, installed, or completed. The Owner will not be responsible for the acts or omissions of the Contractor, and sub-Contractor, or any of their agents or employees, or any other persons performing any of the work.

- 2.5. Contractor:** The Contractor is the person or organization 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 Work, 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 work without clarifying Drawings, Specifications, or Interpretations.
- 2.6. Sub-Contractors:** A sub-contractor is a person or organization who has a direct contract with the Contractor to perform any of the work at the site. The term sub-contractor is referred to throughout the contract documents and means a sub-contractor or his authorized representative.
- 2.7. Award of Sub-Contractors & Other Contracts for Portions of the Work:** Contractor shall submit with their bid response to the Owner, in writing for acceptance, a list of the names of the sub-contractors or other persons or organizations proposed for such portions of the work as may be designated in the proposal requirements, or, if none is so designated, the names of the sub-contractors proposed for the principal portions of the work. Prior to the award of the contract, the Owner shall notify the successful Contractor in writing if, after due investigation, has reasonable objection to any person or organization on such list. If, prior to the award of the contract, the Owner has a reasonable and substantial objection to any person or organization on such list, and refuses in writing to accept such person or organization, the successful Contractor may, prior to the award, withdraw their proposal without forfeiture of proposal security. If the successful Contractor submits an acceptable substitute with an increase in the proposed price to cover the difference in cost occasioned by the substitution, the Owner may, at their discretion, accept the increased proposal or may disqualify the Contractor. If, after the award, the Owner refuses to accept any person or organization on such list, the Contractor shall submit an acceptable substitute and the contract sum shall be increased or decreased by the difference in cost occasioned by such substitution and an appropriate Change Order shall be issued. However, no increase in the contract sum shall be allowed for any such substitution unless the Contractor has acted promptly and responsively in submitting a name with respect thereto prior to the award.

- 2.8. Quantities of Work and Unit Price:** Materials or quantities stated as unit price items in the Bid are supplied only to give an indication of the general scope of the Work, and are as such, estimates only. The Owner does not expressly or by implication agree that the actual amount of Work or material will correspond therewith, and reserves the right after award to increase or decrease the quantity of any unit item of the Work without a change in the unit price except as set forth in Article VIII, Section 70 of the *General Contract Conditions*. The City also reserves the right to make changes in the Work (including the right to delete any bid item in its entirety or add additional bid items) as set forth in Article VIII, Sections 69 through 71 of the *General Contract Conditions*.
- 2.9. Substitutions:** The materials, products and equipment described in the *Solicitation Documents* shall be regarded as establishing a standard of required performance, function, dimension, appearance, or quality to be met by any proposed substitution. No substitution will be considered prior to receipt of Bids unless the Offeror submits a written request for approval to the City Purchasing Division at least ten (10) days prior to the date for receipt of Bids. Such requests for approval shall include the name of the material or equipment for which substitution is sought and a complete description of the proposed substitution including drawings, performance and test data, and other information necessary for evaluation, including samples if requested. The Offeror shall set forth changes in other materials, equipment, or other portions of the Work including changes of the work of other contracts, which incorporation of the proposed substitution would require to be included. The Owner's decision of approval or disapproval of a proposed substitution shall be final. If the Owner approves a proposed substitution before receipt of Bids, such approval will be set forth in an Addendum. Offeror's shall not rely upon approvals made in any other manner.
- 2.10. Supervision and Construction Procedures:** The Contractor shall supervise and direct the work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract.
- 2.11. Warranty:** The Contractor warrants to the Owner that all materials and equipment furnished under this contract will be new unless otherwise specified, and that all work will be of good quality, free from faults and defects and in conformance with the Contract Documents. All work not so conforming to these standards may be considered defective. If required by Owner, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. If within ten (10) days after written notice to the Contractor requesting such repairs or replacement, the Contractor should neglect to make or undertake with due diligence to the same, the City may make such repairs or replacements. All indirect and direct costs of such correction or removal or replacement shall be at the Contractor's expense. The Contractor will also bear the expenses of making good all work of others destroyed or damaged by the correction, removal or replacement of his defective work.
- 2.12. 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 work. 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 work. 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 work 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.

- 2.13. Responsibility for Those Performing the Work:** The Contractor shall be responsible to the Owner for the acts and omissions of all his employees and all sub-contractors, their agents and employees, and all other persons performing any of the work under a contract with the Contractor.
- 2.14. Use of the Site:** The Contractor shall confine operations at the site to areas permitted by law, ordinances, permits and the Contract Documents, and shall not unreasonably encumber the site with any materials or equipment.
- 2.15. Cleanup:** The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of work he shall remove all his waste materials and rubbish from and about the project, as well as all his tools, construction equipment, machinery and surplus materials.
- 2.16. Insurance:** The Contractor shall secure and maintain such insurance policies as will provide the coverage and contain other provisions specified in the General Contract Conditions, or as modified in the Special Contract Conditions.

The Contractor shall file a copy of the policies or Certificates of Insurance acceptable to the City with the Engineer within ten (10) Calendar Days after issuance of the Notice of Award. These Certificates of Insurance shall contain a provision that coverage afforded under the policies shall not be canceled unless at least thirty (30) Calendar Days prior written notice has been given to the City.

Additionally, The Contractor shall name the City of Grand Junction and its officers and employees, and GVIC as additional insured against any and all loss, liability, claim or damage, including, but not limited to, claims for bodily injury, property damage or death, arising from or caused by errors or omissions in the Plans and Specifications or the construction, installation, seasoning, testing, and maintenance or repair of the Improvements. Insurance with coverages customary to and determined by the City shall include claims based on the acts or omissions of the Contractor and its agents and employees, and all persons or entities engaged by the Contractor for any aspect of the Project or the Work, including the creation of the Plans and Specifications and any contractor, subcontractor of other person or entity engaged for the purpose of performing the Work or repairing, maintaining or operating the Improvements.

- 2.17. Indemnification:** The Contractor 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 Contractor, or of any Contractor's agent, employee, sub-contractor or supplier in the execution of, or performance under, any contract which may result from proposal award. Contractor shall

pay any judgment with cost which may be obtained against the Owner growing out of such injury or damages.

- 2.18. Miscellaneous Conditions: Material Availability:** Contractors must accept responsibility for verification of material availability, production schedules, and other pertinent data prior to submission of bid. It is the responsibility of the bidder to notify the Owner immediately if materials specified are discontinued, replaced, or not available for an extended period of time. **OSHA Standards:** All bidders agree and warrant that services performed in response to this invitation shall conform to the standards declared by the US Department of Labor under the Occupational Safety and Health Act of 1970 (OSHA). In the event the services do not conform to OSHA standards, the Owner may require the services to be redone at no additional expense to the Owner.
- 2.19. Time:** Time is of the essence with respect to the time of completion of the Project and any other milestones or deadline which are part of the Contract. It will be necessary for each Bidder to satisfy the City of its ability to complete the Work within the Contract Time set forth in the Contract Documents. The Contract Time is the period of time allotted in the Contract Documents for completion of the work. The date of commencement of the work is the date established in a Notice to Proceed. If there is no Notice to Proceed, it shall be the date of the Contract or such other date as may be established therein, or as established as entered on the Bid Form. The Date of Final Completion of the work is the date certified by the Owner when all construction, and all other work associated to include, but not be limited to: testing, QA/QC, receipt of required reports and/or forms, grant requirements (if applicable), punch list items, clean-up, receipt of drawings and/or as-builts, etc., is fully complete, and in accordance with the Contract Documents.
- 2.20. Progress & Completion:** The Contractor shall begin work on the date of commencement as defined in the Contract, and shall carry the work forward expeditiously with adequate forces and shall complete it within the contract time.
- 2.21. 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 work under the Contract Documents. Upon receipt of written notice that the work 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 he finds the work acceptable under the Contract Documents and the Contract fully performed, the Owner shall make payment in the manner provided in the Contract Documents.
- 2.22. Bid Bond:** Each Bid shall as a guaranty of good faith on the part of the Bidder be accompanied by a Bid Guaranty consisting of: a certified or cashier's check drawn on an approved national bank or trust company in the state of Colorado, and made payable without condition to the City; or a **Bid Bond** written by an approved corporate surety in favor of the City. The amount of the Bid Guaranty shall not be less than 5% of the total Bid amount. Once a Bid is accepted and a Contract is awarded, the apparent successful bidder has ten calendar days to enter into a contractor in the form prescribed and to furnish the bonds with a legally responsible and approved surety. Failure to do so will result in forfeiture of the Bid Guaranty to the City as Liquidated Damages.

Each bidder shall guaranty its total bid price for a period of sixty (60) Calendar Days from the date of the bid opening.

- 2.23. Performance & Payment Bonds:** Contractor shall furnish a Performance and a Payment Bond, each in an amount at least equal to that specified for the contract amount as security for the faithful performance and payment of all Contractor's obligations under the Contract Documents. These bonds shall remain in effect for the duration of the Warranty Period (as specified in the Special Conditions). Contractor shall also furnish other bonds that may be required by the Special Conditions. All bonds shall be in the forms prescribed by the Contract Documents and be executed by such sureties as (1) are licensed to conduct business in the State of Colorado and (2) are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Audit Staff, Bureau of Accounts, U.S. Treasury Department. All bonds signed by an agent must be accompanied by a certified copy of the Authority Act. If the surety on any bond furnished by the Contractor is declared bankrupt, or becomes insolvent, or its rights to do business in Colorado are terminated, or it ceases to meet the requirements of clauses (1) and (2) of this section, Contractor shall within five (5) days thereafter substitute another bond and surety, both of which shall be acceptable to the City.
- 2.24. Retention:** The Owner will deduct money from the partial payments in amounts considered necessary to protect the interest of the Owner and will retain this money until after completion of the entire contract. The amount to be retained from partial payments will be five (5) percent of the value of the completed work, and not greater than five (5) percent of the amount of the Contract. When the retainage has reached five (5) percent of the amount of the Contract no further retainage will be made and this amount will be retained until such time as final payment is made.
- 2.25. Liquidated Damages for Failure to Enter Into Contract:** Should the Successful Bidder fail or refuse to enter into the Contract within ten Calendar Days from the issuance of the Notice of Award, the City shall be entitled to collect the amount of such Bidder's Bid Guaranty as Liquidated Damages, not as a penalty but in consideration of the mutual release by the City and the Successful Bidder of all claims arising from the City's issuance of the Notice of Award and the Successful Bidder's failure to enter into the Contract and the costs to award the Contract to any other Bidder, to re-advertise, or otherwise dispose of the Work as the City may determine best serves its interest.
- 2.26. Liquidated Damages for Failure to Meet Project Completion Schedule:** If the Contractor does not achieve Final Completion by the required date, whether by neglect, refusal or any other reason, the parties agree and stipulate that the Contractor shall pay liquidated damages to the City for each such day that final completion is late. As provided elsewhere, this provision does not apply for delays caused by the City. The date for Final Completion may be extended in writing by the Owner.

The Contractor agrees that as a part of the consideration for the City's awarding of this Contract liquidated damages in the daily amount of **\$350.00** is reasonable and necessary to pay for the actual damages resulting from such delay. The parties agree that the real costs and injury to the City for such delay include hard to quantify items such as:

additional engineering, inspection and oversight by the City and its agents; additional contract administration; inability to apply the efforts of those employees to the other work of the City; perceived inefficiency of the City; citizens having to deal with the construction and the Work, rather than having the benefit of a completed Work, on time; inconvenience to the public; loss of reputation and community standing for the City during times when such things are very important and very difficult to maintain.

The Contractor must complete the Work and achieve final completion included under the Bid Schedule in the number of consecutive calendar days after the City gives its written Notice to Proceed. When the Contractor considers the entire Work ready for its intended use, Contractor shall certify in writing that the Work is fully complete. Final Completion date is the date by which the Contractor shall have fully completed all clean-up, and all items that were identified by the City in the inspection for final completion. Unless otherwise stated in the Special Conditions, for purposes of this liquidated damages clause, the Work shall not be finished and the Contract time shall continue to accrue until the City gives its written Final Acceptance.

If the Contractor shall fail to pay said liquidated damages promptly upon demand thereof after having failed to achieve Final Completion on time, the City shall first look to any retainage or other funds from which to pay said liquidated damages; if retainage or other liquid funds are not available to pay said liquidated damages amounts, the Surety on the Contractor's Performance Bond and Payment Bond shall pay such liquidated damages. In addition, the City may withhold all, or any part of, such liquidated damages from any payment otherwise due the Contractor.

Liquidated damages as provided do not include any sums to reimburse the City for extra costs which the City may become obligated to pay on other contracts which were delayed or extended because of the Contractor's failure to complete the Work within the Contract Time. Should the City incur additional costs because of delays or extensions to other contracts resulting from the Contractor's failure of timely performance, the Contractor agrees to pay these costs that the City incurs because of the Contractor's delay, and these payments are separate from and in addition to any liquidated damages.

The Contractor agrees that the City may use its own forces or hire other parties to obtain Final Completion of the work if the time of completion has elapsed and the Contractor is not diligently pursuing completion. In addition to the Liquidated Damages provided for, the Contractor agrees to reimburse the City for all expenses thus incurred.

- 2.27. Contingency/Force Account:** Contingency/Force Account work will be authorized by the Owner's Project Manager and is defined as minor expenses to cover miscellaneous or unforeseen expenses related to the project. The expenses are not included in the Drawings, Specifications, or Scope of Work and are necessary to accomplish the scope of this contract. Contingency/Force Account Authorization will be directed by the Owner through an approved form. Contingency/Force Account funds are the property of the Owner and any Contingency/Force Account funds, not required for project completion, shall remain the property of the Owner. Contractor is not entitled to any Contingency/Force Account funds, that are not authorized by Owner or Owner's Project Manager.

- 2.28. 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 work, or in consequence of the non-execution thereof by the Contractor, he shall restore, at his 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.
- 2.29. Changes in the Work:** The Owner, without invalidating the contract, may order changes in the work within the general scope of the contract consisting of additions, deletions or other revisions, the contract sum and the contract time being adjusted accordingly. All such changes in the work shall be authorized by Change Order and shall be executed under the applicable conditions of the contract documents. A Change Order is a written order to the Contractor signed by the Owner issued after the execution of the contract, authorizing a change in the work or an adjustment in the contract sum or the contract time. The contract sum and the contract time may be changed only by Change Order.
- 2.30. Claims for Additional Cost or Time:** If the Contractor wishes to make a claim for an increase in the contract sum or an extension in the contract time, he shall give the Owner written notice thereof within a reasonable time after the occurrence of the event giving rise to such claim. This notice shall be given by the Contractor before proceeding to execute the work, except in an emergency endangering life or property in which case the Contractor shall precede in accordance with the regulations on safety. No such claim shall be valid unless so made. Any change in the contract sum or contract time resulting from such claim shall be authorized by Change Order.
- 2.31. Minor Changes in the Work:** The Owner shall have authority to order minor changes in the work 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.
- 2.32. Field Orders:** The Owner may issue written Field Orders which interpret the Contract Documents in accordance with the specifications, or which order minor changes in the work in accordance with the agreement, without change in the contract sum or time. The Contractor shall carry out such Field Orders promptly.
- 2.33. Uncovering & Correction of Work:** The Contractor shall promptly correct all work rejected by the Owner as defective or as failing to conform to the contract documents whether observed before or after substantial completion and whether or not fabricated installed or competed. The Contractor shall bear all costs of correcting such rejected work, including the cost of the Owner's additional services thereby made necessary. If within one (1) year after the date of completion or within such longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the contract documents, any of the work found to be defective or not in accordance

with the contract documents, the Contractor shall correct it promptly after receipt of a written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discover of condition. All such defective or non-conforming work under the above paragraphs shall be removed from the site where necessary and the work shall be corrected to comply with the contract documents without cost to the Owner. The Contractor shall bear the cost of making good all work of separate Contractors destroyed or damaged by such removal or correction. If the Owner prefers to accept defective or non-conforming work, he may do so instead of requiring its removal and correction, in which case a Change Order will be issued to reflect an appropriate reduction in the payment or contract sum, or, if the amount is determined after final payment, it shall be paid by the Contractor.

- 2.30. 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.
- 2.31. Assignment:** The Contractor shall not sell, assign, transfer or convey any contract resulting from this IFB, in whole or in part, without the prior written approval from the Owner.
- 2.32. Compliance with Laws:** Bids 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.
- 2.33. Confidentiality:** All information disclosed by the Owner to the Contractor for the purpose of the work to be done or information that comes to the attention of the Contractor during the course of performing such work is to be kept strictly confidential.
- 2.34. Conflict of Interest:** No public official and/or City/County employee shall have interest in any contract resulting from this IFB.
- 2.35. 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.
- 2.36. Employment Discrimination:** During the performance of any services per agreement with the Owner, the Contractor, by submitting a Bid, agrees to the following conditions:
 - 2.36.1.** The Contractor shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, handicap, or national origin except when such condition is a legitimate occupational qualification reasonably necessary for the normal operations of the Contractor. The Contractor agrees to post in conspicuous places, visible to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

- 2.36.2.** The Contractor, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, shall state that such Contractor is an Equal Opportunity Employer.
- 2.36.3.** 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.
- 2.37. Affirmative Action:** In executing a Contract with the City, the Contractor agrees to comply with Affirmative Action and Equal Employment Opportunity regulations presented in the General Contract Conditions.
- 2.38. 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 workers 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).
- 2.39. Ethics:** The Contractor 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.
- 2.40. Failure to Deliver:** In the event of failure of the Contractor 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 Contractor 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.
- 2.41. 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.
- 2.42. Force Majeure:** The Contractor 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 Contractor, unless otherwise specified in the contract.
- 2.43. Independent Contractor:** The Contractor shall be legally considered an Independent Contractor and neither the Contractor 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 Contractor, its servants, or agents. The Owner shall not withhold from the contract payments to the Contractor any federal or state unemployment taxes, federal or state income taxes, Social Security Tax or any other amounts for benefits to the Contractor. Further, the Owner shall not provide to the Contractor any insurance coverage or other benefits, including Workers' Compensation, normally provided by the Owner for its employees.
- 2.44. Nonconforming Terms and Conditions:** A bid that includes terms and conditions that do not conform to the terms and conditions of this Invitation for Bid is subject to rejection

as non-responsive. The Owner reserves the right to permit the Contractor to withdraw nonconforming terms and conditions from its bid prior to a determination by the Owner of non-responsiveness based on the submission of nonconforming terms and conditions.

Items for non-responsiveness may include, but not be limited to:

- a. Submission of the Bid on forms other than those supplied by the City;
- b. Alteration, interlineation, erasure, or partial detachment of any part of the forms which are supplied herein;
- c. Inclusion of unauthorized additions conditional or alternate Bids or irregularities of any kind which may tend to make the Bid incomplete, indefinite, or ambiguous as to its meaning;
- d. Failure to acknowledge receipt of any or all issued Addenda;
- e. Failure to provide a unit price or a lump sum price, as appropriate, for each pay item listed except in the case of authorized alternative pay items;
- f. Failure to list the names of Subcontractors used in the Bid preparation as may be required in the Solicitation Documents;
- g. Submission of a Bid that, in the opinion of the Owner, is unbalanced so that each item does not reasonably carry its own proportion of cost or which contains inadequate or unreasonable prices for any item;
- h. Tying of the Bid with any other bid or contract; and
- i. Failure to calculate Bid prices as described herein.

2.45. Evaluation of Bids and Offers: The Owner reserves the right to:

- reject any and all Bids,
- waive any and all informalities,
- negotiate final terms with the Successful Bidder, and
- disregard any and all nonconforming, nonresponsive or conditional Bids.

Discrepancies between words and figures will be resolved in favor of words. Discrepancies between Unit Prices and Extended Prices will be resolved in favor of the Unit Prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. The corrected extensions and totals will be shown in the tabulation of Bids.

The Owner may consider the qualifications and experience of Subcontractors and other persons and organizations (including those who are to furnish the principal items of material or equipment) proposed for those portions of the work as to which the identity of Subcontractors and other persons and organizations must be submitted. Operating costs, maintenance considerations performance data, and guarantees of materials and equipment may also be considered by the Owner.

The Owner will conduct such investigations as deemed necessary to assist in the evaluation of any Bid and to establish the responsibility, qualifications and financial ability of the Offeror, proposed Subcontractors and other persons and organizations to do the Work in accordance with the *Contract Documents* to the City's satisfaction within the Contract Time.

The Offeror shall furnish the Owner all information and data requested by the Owner to determine the ability of the Offeror to perform the Work. The Owner reserves the right to reject the Bid if the evidence submitted by, or investigation of such Offeror fails to satisfy the Owner that such Offeror is properly qualified to carry out the obligations of the Contract and to complete the Work contemplated therein.

By submitting a Bid, each Offeror authorizes the Owner to perform such investigation of the Offeror as the Owner deems necessary to establish the responsibility, qualifications and financial ability of the Offeror and, by its signature thereon, authorizes the Owner to obtain reference information concerning the Offeror and releases the party providing such information and the Owner from any and all liability to the Offeror as a result of such reference information so provided.

The Owner reserves the right to reject the Bid of any Offeror who does not pass any evaluation to the Owner's satisfaction.

If the Contract is to be awarded, it will be awarded to the Offeror who, by evaluation, the Owner determines will best meet the Owner's interests.

The Owner reserves the right to accept or reject the Work contained in any of the Price Bid Schedules or alternates, either in whole or in part.

2.46. Award of Contract: Unless otherwise indicated, a single award will be made for all the bid items in an individual bid schedule. In the event that the Work is contained in more than one Bid Schedule, the City may award Schedules individually or in combination. In the case of two Bid Schedules which are alternative to each other, only one of such alternative Schedules will be awarded. Within forty-five (45) Calendar Days of Bid Opening, the City will issue a Notice of Award to the Successful Bidder which will be accompanied by four (4) unsigned copies of the Contract and the Performance and Payment Bond forms. Within ten (10) Calendar Days thereafter, the Successful Bidder shall sign and deliver four (4) copies of the Contract, Performance Bond, Payment Bond and Certificates of Insurance to the City. Within ten (10) Calendar Days thereafter, the City will deliver two (2) fully executed counterparts of the Contract to the Contractor. No contract shall exist between the Successful Bidder and the City and the Successful Bidder shall have no rights at law or in equity until the Contract has been duly executed by the City.

The Successful Bidder's failure to sign and submit a Contract and other documents set forth in this Paragraph within the prescribed time shall be just cause of annulment of the award, and forfeiture of the Bid Guaranty. The award of Contract may then be made to the next qualified Bidder in the same manner as previously prescribed.

- 2.47. Ownership:** All plans, prints, designs, concepts, etc., shall become the property of the Owner.
- 2.48. 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.
- 2.49. Patents/Copyrights:** The Contractor 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 Contractor 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 IFB.
- 2.50. Remedies:** The Contractor and Owner agree that both parties have all rights, duties, and remedies available as stated in the Uniform Commercial Code.
- 2.51. Venue:** Any agreement as a result of responding to this IFB 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.
- 2.52. Expenses:** Expenses incurred in preparation, submission and presentation of this IFB are the responsibility of the company and cannot be charged to the Owner.
- 2.53. 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.
- 2.54. Non-Appropriation of Funds:** The contractual obligation of the Owner under this contract is contingent upon the availability of appropriated funds from this fiscal year budget as approved by the City Council or Board of County Commissioners from this fiscal year only. State of Colorado Statutes prohibit obligation of public funds beyond the fiscal year for which the budget was approved. Anticipated expenditures/obligations beyond the end of the current Owner's fiscal year budget shall be subject to budget approval. Any contract will be subject to and must contain a governmental non-appropriation of funds clause.
- 2.55. Cooperative Purchasing:** Purchases as a result of this solicitation are primarily for the City/County. 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 Bid. The quantities furnished in this bid document are for only the City/County. It does not include quantities for any other jurisdiction. The City or County will be responsible only for the award for its 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 City/County 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.

- 2.56. Keep Jobs in Colorado Act:** Contractor shall be responsible for ensuring compliance with Article 17 of Title 8, Colorado Revised Statutes requiring 80% Colorado labor to be employed on public works. Contractor shall, upon reasonable notice provided by the Owner, permit the Owner to inspect documentation of identification and residency required by C.R.S. §8-17-101(2)(a). If Contractor claims it is entitled to a waiver pursuant to C.R.S. §8-17-101(1), Contractor shall state that there is insufficient Colorado labor to perform the work such that compliance with Article 17 would create an undue burden that would substantially prevent a project from proceeding to completion, and shall include evidence demonstrating the insufficiency and undue burden in its response.

Unless expressly granted a waiver by the Owner pursuant to C.R.S. §8-17-101(1), Contractor shall be responsible for ensuring compliance with Article 17 of Title 8, Colorado Revised Statutes requiring 80% Colorado labor to be employed on public works. Contractor shall, upon reasonable notice provided by the Owner, permit the Owner to inspect documentation of identification and residency required by C.R.S. §8-17-101(2)(a).

2.56.1. "Public project" is defined as:

- (a) any construction, alteration, repair, demolition, or improvement of any land, building, structure, facility, road, highway, bridge, or other public improvement suitable for and intended for use in the promotion of the public health, welfare, or safety and any maintenance programs for the upkeep of such projects
- (b) for which appropriate or expenditure of moneys may be reasonably expected to be \$500,000.00 or more in the aggregate for any fiscal year
- (c) except any project that receives federal moneys.

3. Statement of Work

- 3.1. GENERAL:** The City of Grand Junction is soliciting competitive bids from qualified and interested companies for all labor, equipment, and materials required for the **23 Road Sewer Trunk Line Extension Project**. All dimensions and scope of work should be verified by Contractors prior to submission of bids.

NOTE: The descriptions of the pay items listed in the Price Bid Schedule for this Project may not agree with those listed in the Standard Specifications. Payment for all Work performed, as required in the Contract Documents, will be in accordance with the items and units listed in the Price Bid Schedule.

The performance of the Work for this Project shall conform to the General Contract conditions presented in the City of Grand Junction's Standard Contract Documents for Capital Improvements Construction, revised July 2010, except as specifically modified or supplemented herein or on the Construction Drawings.

3.2. PROJECT DESCRIPTION: The Project generally consists of 4,420 L.F. of 12” SDR-35 PVC sewer pipe, 12 L.F. of 8” SDR-35 PVC sewer pipe, 275 L.F. of 4” SDR-35 PVC service pipe, sewer fittings, 60 L.F. of 36” RCP pipe, 44 L.F. of 45” x 29” Elliptical RCP pipe, slope and ditch paving, 10 each of 48” I.D. sewer manholes with exterior coal tar epoxy waterproofing. Work will also include restoration of disturbed landscape areas on private property. This project also includes fittings, landscape restoration, and related appurtenances.

3.3. SPECIAL CONDITIONS & PROVISIONS:

3.3.1 Mandatory Pre-Bid Meeting: Prospective bidders are required to attend a mandatory pre-bid meeting on December 17, 2019 at 9:00 am. Meeting location shall be in the City Council Auditorium at City Hall, located at 250 North 5th Street, Grand Junction, CO. The purpose of this visit will be to inspect and to clarify the contents of this Invitation for Bids (IFB).

3.3.2 QUESTIONS REGARDING SOLICITATION PROCESS/SCOPE OF WORK:

Duane Hoff, Senior Buyer
City of Grand Junction
duaneh@gjcity.org
970-244-1545

3.3.2 Project Manager: The Project Manager for the Project is Lee Cooper, Project Engineer, who can be reached at (970) 256-4155. During Construction, all notices, letters, submittals, and other communications directed to the City shall be addressed and mailed or delivered to:

City of Grand Junction
Department of Public Works and Utilities
Attn: Lee Cooper, Project Manager
333 West Ave., Building C
Grand Junction, CO 81501

3.3.3 Affirmative Action: The Contractor is not required to submit a written Affirmative Action Program for the Project.

3.3.4 Pricing: Pricing shall be all inclusive to include but not be limited to: all labor, equipment, supplies, materials, freight (F.O.B. Destination – Freight Pre-paid and Allowed to each site), travel, mobilization costs, fuel, set-up and take down costs, and full-time inspection costs, and all other costs related to the successful completion of the project.

The Owner shall not pay nor be liable for any other additional costs including but not limited to: taxes, shipping charges, insurance, interest, penalties, termination payments, attorney fees, liquidated damages, etc.

3.3.5 Freight/Shipping: All freight/shipping shall be F.O.B. Destination – Freight Pre-Paid and Allowed to the project site(s), Grand Junction, CO.

Contractor must meet all federal, state, and local rules, regulations, and requirements for providing such services.

3.3.6 Contract: A binding contract shall consist of: (1) the IFB and any amendments thereto, (2) the bidder's response (bid) to the IFB, (3) clarification of the bid, if any, and (4) the City's Purchasing Department's acceptance of the bid by "Notice of Award" or by "Purchase Order". All Exhibits and Attachments included in the IFB shall be incorporated into the contract by reference.

A. The contract expresses the complete agreement of the parties and, performance shall be governed solely by the specifications and requirements contained therein.

B. Any change to the contract, whether by modification and/or supplementation, must be accomplished by a formal contract amendment signed and approved by and between the duly authorized representative of the bidder and the City Purchasing Division or by a modified Purchase Order prior to the effective date of such modification. The bidder expressly and explicitly understands and agrees that no other method and/or no other document, including acts and oral communications by or from any person, shall be used or construed as an amendment or modification to the contract.

3.3.7 Time of Completion: The scheduled time of Completion for the Project is **89 Calendar Days** from the starting date specified in the Notice to Proceed.

Completion is achieved when site cleanup and all punch list items (resulting from the final inspection) have been completed. Completion shall have the meaning set forth in Article I, Section 3 (Definitions and Terms) of the General Contract Conditions.

3.3.8 Working Days and Hours: The working days and hours shall be as stated in the General Contract Conditions, Section VI, or as mutually agreed upon in the preconstruction meeting.

3.3.9 Permits: The following permits are required for the Project and will be obtained by the City at no cost to the Contractor:

- None

The following permits are required for the Project and shall be obtained and paid for by the Contractor, with the costs included in the total bid price for the Project:

- *Colorado Department of Public Health and Environment Dewatering Permit.* (If necessary due to the presence of groundwater) For more information, contact the Colorado Dept. of Public Health and Environment: www.cdphe.state.co.us/wq/PermitsUnit/wqcdpmt.html Approximately 7 – 10 days is required for processing of the permit application. The Contractor should begin preparing the permit application immediately upon notice of award.

- 3.3.10 City Furnished Materials:** The City will furnish the following materials for the Project:
- AutoCAD sewer line drawings for survey stake-out. (Austin Civil Group will have to supply the necessary AutoCAD drawings)
- 3.3.11 Project Newsletters:** Project newsletters will not be required for this project. The City will handle notifying the public and residents of the project and the project schedule.
- 3.3.12 Project Sign:** Project signs, if any, will be furnished and installed by the City.
- 3.3.13 Authorized Representatives of the City:** Those authorized to represent the City shall include Purchasing Agent, Engineers, and Inspectors employed by the City, only.
- 3.3.14 Stockpiling Materials and Equipment:** All stockpiling/storage shall be in accordance with General Contract Condition Section 51.
- 3.3.15 Traffic Control:** The Contractor shall provide and maintain traffic control in accordance with the approved Traffic Control Plan and the *Manual on Uniform Traffic Control Devices (MUTCD)*. The traffic control plan shall be presented to the Project Engineer at or prior to the pre-construction meeting for review and approval. The following requirements and limitations shall apply to the traffic control:
- No personal driveway and/or access point to a property shall be left inaccessible at the end of each work day or over a weekend; and no construction equipment shall be parked in front of a driveway and/or access point during non-working hours. When a driveway and/or access point has to be closed off due to construction activity, the Contractor shall provide advanced notification to the affected resident(s) at least two-days prior to closure and arrange an alternative access point to the property.
- 3.3.16 Clean-Up:** The Contractor is responsible for cleaning up all loose materials that have been deposited or swept into gutters, and onto sidewalks and driveways as a result of sewer installation operations. The costs for all clean-up work shall be considered incidental and will not be paid for separately.
- 3.3.17 Quality Control Testing:** As part of the project, the Contractor shall provide Quality Control testing per the Quality Control (QC) and Quality Assurance (QA) section within the City of Grand Junction's Standard Specifications for Road and Bridge Construction. Table 1 provides the testing frequencies.

The Contractor shall provide test frequencies for Full-Time inspection. The testing agency shall meet the minimum requirements as stated in the Standard Specifications section. A submittal of qualified personnel shall be submitted at or before the preconstruction meeting. This submittal shall include all certifications held by the tester assigned to the project. The following items will require QC testing:

- Backfill compaction – Backfill shall be placed in horizontal layers not to exceed 12-inches in loose lift thickness. If the Project Engineer allows the

native material to be used for trench backfill, completion of a Proctor analysis will be required by the QC testing agency on the native backfill material.

- Concrete
- Base Course (Class 6) Density Tests – (If necessary, completion of a Proctor analysis will be required by the QC testing agency)
- Hot Bituminous Pavement Density Tests

Method of Measurement:

Testing for QC will be paid for at the unit price per test.

Basis of Payment:

<u>Pay Item</u>	<u>Pay Unit</u>
Backfill Compaction Tests (Includes Proctor Analysis)	Each
Aggregate Base Course Density Tests	Each
Hot Bituminous Density Tests	Each

A report shall be generated by the testing firm that documents all tests including any re-tests results or failed tests. Included in the test reports shall be station locations of each test and the test results. All test results shall be presented to the Project Engineer prior to final payment and/or final acceptance of the project.

The City will perform and/or contract the Quality Assurance (QA) testing for this project.

3.3.18 Schedule of Submittals: Contractor shall deliver these submittals at least two days prior to the pre-construction meeting:

- Construction schedule submitted at or prior to the pre-construction meeting
- Pipe (4", 8", 12") SDR-35 PVC
- Pipe Fittings (wyes, elbows, caps)
- PVC pipe joint restraints
- 24" Steel Casing Pipe
- Casing Spacers and Casing End Caps
- 45" x 29" Culvert (Elliptical RCP)
- 36" Culvert (RCP)
- Manholes (includes exterior waterproofing)
- Ring and Covers
- LadTech Grade Rings
- Bedding Gradation, Type A
- Imported Trench Backfill Gradation (Class 3)
- Base course gradation, Proctor Curve (Class 6)
- Non-woven Geotextile Fabric
- Slope Paving (Shotcrete) psi mix design
- Hot Bituminous Pavement Mix Design

- 3.3.19 Uranium Mill Tailings:** It is anticipated that radioactive mill tailings will not be encountered on this Project.
- 3.3.20 Fugitive Petroleum or Other Contamination:** It is anticipated that soil contamination from fugitive petroleum or other contaminants will not be encountered with the Project.
- 3.3.21 Excess Material:** All excess materials shall be disposed in accordance with General Contract Condition Section 50.
- 3.3.22 Existing Utilities and Structures:** The location of existing utilities and structures shown on the Plans are approximate. All underground utilities were **not** potholed. It is the responsibility of the Contractor to locate and protect all structures and utilities in accordance with General Contract Condition Section 37. Conflicts between water and gas lines and/or storm drain pipe may be encountered. At such conflicts, the Contractor shall relocate the water and/or gas lines. Payment for utility relocations due to a conflict with the new sewer will be paid for using the Minor Contract Revision line item assigned to the Project.

If the Contractor discovers a conflict with an existing utility (either horizontal or vertical), the Contractor shall contact the Project Engineer and the utility owner immediately to assist in resolving the conflict.

- 3.3.23 Incidental Items:** Any item of work not specifically identified or paid for directly, but which is necessary for the satisfactory completion of any paid items of work, will be considered as incidental to those items, and will be included in the cost of those items.
- 3.3.24 Existing Property Pins and Survey Monuments:** The City of Grand Junction did not perform an exhaustive search for existing property pins when compiling survey data for this Project. Property pins and survey monuments have been shown on the construction drawings that were found in the field. The Contractor shall be responsible for locating, protecting and resetting property pins when and where necessary, including those shown on the plans, and including those not shown but found in the field during the course of the work. The cost of locating, protecting, referencing and resetting of property pins is incidental to the Construction Surveying pay item. The cost of referencing and resetting of survey monuments shall be paid for as described in Section 629 – Survey Monumentation within the July 2010 Standard Contract Documents.
- 3.3.25 Existing Concrete Sidewalks, Pans, Fillets, Curbs and Gutters:** The existing sidewalks, pans, fillets, curb and gutter are in good serviceable condition. In most instances the installation of new sidewalk and pavement will be adjacent to existing concrete. The Contractor will need to protect all concrete adjacent to construction. If the concrete is damaged during construction the Contractor will be responsible for its replacement at no cost to the City. The Contractor, the City Project Inspector, and/or the City Project Manager will walk and record any concrete that is deemed to be damaged before construction has started.
- 3.3.26 ACI Concrete and Flatwork Finisher and Technician:** Hand finishing concrete will be permitted only when performed under the direct supervision of a craftsman holding

the following certificate: ACI Concrete Flatwork Finisher and Technician (ACICFFT) or other Flatwork Finisher certification program approved by the City Engineering Department.

- 3.3.27 Payment for Damage to Private Property beyond Easement Limits/ROW Limits:** Easement and Rights of Way (ROW) lines are indicated on the Construction Plans. Any and all damage to improvements outside of easements and ROW, and/or outside the Construction Limit lines shall be repaired at the Contractor's expense. There will be no additional payment made for restoration of sod, landscaping, gravel, concrete or asphalt driveways, irrigation systems, decorative borders, fences, etc. beyond the property line or the construction easements as shown on the plan set.
- 3.3.28 Temporary Steel Plating:** If the Contractor chooses to use steel plates to protect an open trench section, the cost for supplying and securely placing the steel plates will not be paid for separately, but shall be included in the work.
- 3.3.29 Construction Dewatering:** All construction dewatering must meet the requirements specified in the CDPHE Dewatering Permit. Construction dewatering will be considered incidental and will not be measured and paid for separately.
- 3.3.30 Confined Space Entry:** The Contractor is responsible for providing any and all confined space entry safety equipment; including, but not limited to: air testing equipment, fresh air blowers, tripods, harnesses, and SCBA equipment. The Contractor's air monitoring devices shall be calibrated and certified. The cost for all confined space entry equipment shall be incidental to the project cost, and will not be paid for separately.
- 3.3.31 As-Built Manhole Survey Shots:** All invert as-built survey shots taken on the installed manholes and/or drop manholes shall be taken before the Contractor installs the manhole cone sections. This way the surveyor is able to shoot the manhole inverts with the survey rod in a vertical (plumb) position. Invert elevations on the 'shallow' sewer inverts and the 'deep' sewer inverts need to be provided to the Project Engineer prior to project final acceptance.
- 3.3.32 Manhole Grade Rings:** Concrete grade rings, shims and non-shrink grout shall not be used on the sewer manhole sections. Approved grade rings for this project shall be either HDPE Adjusting Rings by LadTech, Inc., or Expanded Polypropylene grade rings by Cretex Pro-Ring.
- Grade rings shall be installed per the manufacturer's recommendations and directions. Caulk and sealants shall be approved by the manufacturer and shall be applied per the manufacturer's recommendation. The top grade ring shall match as close as possible the cross-slope of the existing roadway surface. Both manufacturers of grade rings provide grade rings that can accommodate the existing roadway cross-slope.
- 3.3.33 Manhole Ring and Cover:** Manhole ring and covers for this project shall be Castings model MH-310-24 CI.

3.3.34 Construction Surveying & “As-Built” Drawings: In addition to Items I and II in the General Contract Conditions, Section 54, As-Built record information will be provided to, and approved by City staff prior to Final Acceptance of the Project. Information to be provided must be in electronic format (e.g. AutoCAD and/or survey files) along with a PDF set of As-Built drawings. As-Built electronic files must contain information suitable for the City to maintain Utility records to the standards set forth in the new Colorado 811 One Call/Subsurface Utility Law (effective August 8, 2018) and standards as described in the American Society of Civil Engineers (ASCE) Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data (ASCE 38-02).

Electronic information for As-Built records shall include, but is not limited to, verification of all horizontal and vertical changes in pipe alignments, elbows, tees, manholes, valves, control structures, service taps, service pipe (horizontal and vertical deflections to ROW line, meter pits, or clean-outs, whichever is closer), beginning and ending of slip-lined segments, tie-in or connection to existing infrastructure, etc. Distance between As-Built data points along pipe alignment is dependent on the amount of deflection used to install the pipe in the field. There must be sufficient point data to create a plan and profile of all infrastructure accurate to within eighteen inches (18”) of the physical structures anywhere along the project.

Sanitary Sewer Service Lines – The Contractor is responsible for providing to the City survey grade accuracy for As-Built locations for all sewer wye fittings, sewer service elbows, and sewer service clean-outs. The Contractor shall provide survey coordinates in the X,Y,Z dimensions for these fittings. The Contractor shall provide this survey information in electronic format (e.g. AutoCAD and/or survey files). The coordinates for this survey data shall be surveyed in the Mesa County Local System (MCLS). Accuracy on survey equipment shall be within 0.1 feet both vertically and horizontally. The Contractor will be required by the City to provide information on equipment being used and if the Contractor will be performing the as-built surveys or if a surveying subcontractor will be performing the as-built surveys.

The cost for all surveying the all fittings, both sewer and water, shall be incidental to the project cost, and will not be paid for separately.

3.4. SCOPE OF WORK: The Project generally consists of 4,420 L.F. of 12” SDR-35 PVC sewer pipe, 12 L.F. of 8” SDR-35 PVC sewer pipe, 275 L.F. of 4” SDR-35 PVC service pipe, sewer fittings, 60 L.F. of 36” RCP pipe, 44 L.F. of 45” x 29” Elliptical RCP pipe, slope and ditch paving, 10 each of 48” I.D. sewer manholes with exterior coal tar epoxy waterproofing. Work will also include restoration of disturbed landscape areas on private property. This project also includes fittings, landscape restoration, and related appurtenances. See attached Construction Drawings/Plans/Scope/Specifications.

Additionally, All Work affecting the [GVIC] Project Area and the Canal Facilities shall be conducted during the winter months so as to avoid interference with the operation of the Canal Facilities and completed on or before noon, March 15 of 2020. The timing, sequence and staging of the Work shall be coordinated with GVIC and the City shall assure that all Work does not interfere with GVIC’s use, operation and maintenance of

the Canal Facilities and that the Project will be completed by the construction dates set forth above.

3.5. Attachments:

- Appendix A: Project Submittal Form
- Appendix B: Project Special Provisions
- Appendix C: CDPHE's Construction Dewatering Permit **APPLICATION ONLY**
- Construction Plans

3.6. Contractor Bid Documents: For Contractor's convenience, the following is a list of forms/items to be submitted with the Contractor's bid response. However, should a form/item not be listed in this section, but required in the solicitation documents, it is the Contractor's responsibility to ensure all forms/items are submitted.

- **Contractor's Bid Form**
- **Price Bid Schedule**

3.7. IFB TENTATIVE TIME SCHEDULE:

Invitation for Bids available:	December 6, 2019
Mandatory Pre-Bid Meeting:	December 17, 2019
Inquiry deadline, no questions after this date:	December 19, 2019
Addendum Posted:	December 23, 2019
Submittal deadline for proposals (Bid Opening):	January 2, 2020
City Council Approval:	January 16, 2020
Notice of Award & Contract execution:	January 17, 2020
Bonding & Insurance Cert. due:	January 28, 2020
Preconstruction meeting:	January 28, 2020
Work begins no later than:	Upon Receipt of Notice to Proceed
Final Completion:	89 Calendar Days from Notice to Proceed
Holidays:	President's Day

4. Contractor's Bid Form

Bid Date: _____

Project: IFB-4731-20-DH "23 Road Sewer Trunk Line Extension Project"

Bidding Company: _____

Name of Authorized Agent: _____

Email _____

Telephone _____ **Address** _____

City _____ **State** _____ **Zip** _____

The undersigned Bidder, in compliance with the Invitation for Bids, having examined the Instruction to Bidders, General Contract Conditions, Statement of Work, Specifications, and any and all Addenda thereto, having investigated the location of, and conditions affecting the proposed work, hereby proposes to furnish all labor, materials and supplies, and to perform all work for the Project in accordance with Contract Documents, within the time set forth and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Contractor's Bid Form is a part.

The undersigned Contractor does hereby declare and stipulate that this offer is made in good faith without collusion or connection to any person(s) providing an offer for the same work, and that it is made in pursuance of, and subject to, all terms and conditions of the Instructions to Bidders, the Specifications, and all other Solicitation Documents, all of which have been examined by the undersigned.

The Contractor also agrees that if awarded the Contract, to provide insurance certificates within ten (10) working days of the date of Notification of Award. Submittal of this offer will be taken by the Owner as a binding covenant that the Contractor will be prepared to complete the project in its entirety.

The Owner reserves the right to make the award on the basis of the offer deemed most favorable, to waive any formalities or technicalities and to reject any or all offers. It is further agreed that this offer may not be withdrawn for a period of sixty (60) calendar days after closing time. Submission of clarifications and revised offers automatically establish a new thirty day (30) period.

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

- Prices in this bid 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 bid proposal for the purpose of restricting competition.
- The individual signing this bid 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 Bidder to ensure all Addenda have been received and acknowledged.

By signing below, the Undersigned agree to comply with all terms and conditions contained herein.

Company: _____

Authorized Signature: _____

Title: _____

Bid Schedule: 23 Road Sewer Trunk Line Extension Project

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	108.2	4" Sewer Service Pipe (SDR-35 PVC)	275.	Lin. Ft.	\$ _____	\$ _____
2	108.2	8" Gravity Sewer Pipe (SDR-35 PVC)	12.	Lin. Ft.	\$ _____	\$ _____
3	108.2	12" Gravity Sewer Pipe (SDR-35 PVC)	4,420.	Lin. Ft.	\$ _____	\$ _____
4	108.2	45" x 29" Culvert (Elliptical RCP Pipe) (Includes grading of existing drain ditch upstream and downstream per plan)	44.	Lin. Ft.	\$ _____	\$ _____
5	108.2	36" Culvert (RCP Pipe) (Includes grading of existing drain ditch channel upstream and downstream as necessary)	60.	Lin. Ft.	\$ _____	\$ _____
6	108.2	Imported Trench Backfill (Including haul and disposal of unsuitable excavated material) (Assumed Unit Weight = 133 lbs/cu.ft.)	2,200.	Ton	\$ _____	\$ _____
7	108.3	12" x 4" Sewer Service Tap (Full Body Wye w/ Street 45-deg.) (See City Std. Detail SS-06)	10.	Each	\$ _____	\$ _____
8	108.3	Install 2-way Sewer Service Cleanout and Ring and Cover (Castings Inc. CO-8030-CI or Approved Equal) (Includes concrete collar in unpaved areas per City Std. Detail SS-07)	10.	Each	\$ _____	\$ _____
9	108.3	4" End Cap (PVC) (Air Tight)	10.	Each	\$ _____	\$ _____
10	108.3	8" End Cap (PVC)	4.	Each	\$ _____	\$ _____
11	108.3	12" End Cap (PVC)	1.	Each	\$ _____	\$ _____
12	108.3	15" x 12" Reducer (Eccentric Coupling) (G x G)	1.	Each	\$ _____	\$ _____
13	108.3	Bell Fitting Joint Restraints (To be used at both drainage ditch crossings) (Sta. 23+04 - 23+60 and 27+00 - 27+60)	8.	Each	\$ _____	\$ _____
14	108.5	Sanitary Sewer Basic Manhole (48" I.D.) (Includes Manhole Waterproofing, epoxy invert coating, grade rings, MH-310-24 CI covers, and concrete collars in unpaved areas per City Std. Detail SS-	10.	Each	\$ _____	\$ _____
15	108.5	Manhole Barrel Section (D>5') (48" I.D.) (Includes Manhole Waterproofing)	12.	Lin. Ft.	\$ _____	\$ _____

Bid Schedule: 23 Road Sewer Trunk Line Extension Project

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
16	108.5	Connect to Existing Manhole (Ex. Manhole may have a 15" pipe stubbed out to connect to. Need to field verify)	1.	Each	\$ _____	\$ _____
17	108.7	Granular Stabilization Material (Type B) (18" Thick Min.) (Includes haul and disposal of unsuitable excavated material) (Assumed Unit Weight = 136 lbs/cu.ft.)	1,000.	Ton	\$ _____	\$ _____
18	201	Clearing and Grubbing	1.	Lump Sum	\$ _____	\$ _____
19	202	Removal of Asphalt (Full-Depth) (Milling)	475.	Sq. Yd.	\$ _____	\$ _____
20	202	Remove Existing 18" RCP Culvert (Contractor shall return pipe to Grand Valley Drainage District property)	45.	Lin. Ft.	\$ _____	\$ _____
21	206	Structure Backfill (Flow-Fill)	120.	Cu. Yd.	\$ _____	\$ _____
22	208	Concrete Washout Structure	1.	Each	\$ _____	\$ _____
23	208	Vehicle Tracking Pad	1.	Each	\$ _____	\$ _____
24	208	Temporary Berm	2,700.	Lin. Ft.	\$ _____	\$ _____
25	209	Dust Abatement	30.	Day	\$ _____	\$ _____
26	210	Reset Fence (Ex. Wire Fence)	25.	Lin. Ft.	\$ _____	\$ _____
27	210	Reset Fence (Ex. Wooden Fence) (Match in Kind)	60.	Lin. Ft.	\$ _____	\$ _____
28	210	Reset Landscape Rock (Cobble Style Rock) (Match in Kind)	45.	Sq. Yd.	\$ _____	\$ _____
29	304	Aggregate Base Course (Class 6) (6" thick) (Shotcrete Canal Liner)	150.	Sq. Yd.	\$ _____	\$ _____
30	304	Aggregate Base Course (Class 6) (4" thick) (Roadway Shoulder Base)	56.	Sq. Yd.	\$ _____	\$ _____
31	304	Aggregate Base Course (Class 6) (15" thick)	475.	Sq. Yd.	\$ _____	\$ _____
32	401	Hot Bituminous Pavement (Patching) (2" Thick) (Grading SX, PG 64-22) (GYR.=75) (2" Bottom Mat)	475.	Sq. Yd.	\$ _____	\$ _____
33	401	Hot Bituminous Pavement (Patching) (2" Thick) (Grading SX, PG 64-22) (GYR.=75) (2" Top Mat) (T-Top)	955.	Sq. Yd.	\$ _____	\$ _____

Bid Schedule: 23 Road Sewer Trunk Line Extension Project

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
34	407	Emulsified Asphalt (Tack Coat)	95.	Gallon	\$ _____	\$ _____
35	420	Geotextile (Separator) (Non-woven) (Contech C-60NW, Nilex NW60, or Engineer Approved Equal) (Wrap stabilization material with fabric) (Minimum Overlap = 30") (Use for stabilization and for underneath the concrete slope and ditch paving)	1,300.	Sq. Yd.	\$ _____	\$ _____
36	507	Concrete Slope and Ditch Paving (Shotcrete) (Polypropylene Synthetic Fiber Reinforcement) (3" Thick Min.) (1.5 lbs/cyd shotcrete) (Fiber Length = Graded)	150.	Sq. Yd.	\$ _____	\$ _____
37	608	Cap Top Half of Sewer Pipe in Concrete per City Std. Detail GU-04 (20' long) (If necessary)	2.	Each	\$ _____	\$ _____
38	608	Encase Sewer Pipe in Concrete per City Std. Detail GU-04 (20' long) (If necessary)	1.	Each	\$ _____	\$ _____
39	619	24" Steel Casing Pipe (Open Trench Installation) (1/4" Thick)	60.	Lin. Ft.	\$ _____	\$ _____
40	619	24" x 12" Casing Pipe End Caps	2.	Each	\$ _____	\$ _____
41	619	Cascade Waterworks Casing Spacers or Engineer Approved Equal (Spacing and Installation shall be per Manufacturer's Recommendation)	1.	Lump Sum	\$ _____	\$ _____
42	620	Portable Sanitary Facility	1.	Lump Sum	\$ _____	\$ _____
43	625	Construction Surveying (Includes As-Built Drawings)	1.	Lump Sum	\$ _____	\$ _____
44	626	Mobilization	1.	Lump Sum	\$ _____	\$ _____
45	629	Survey Monumentation (Reference and Reset) (If Necessary)	2.	Each	\$ _____	\$ _____
46	630	Traffic Control Plan	1.	Lump Sum	\$ _____	\$ _____
47	630	Traffic Control (Complete in Place)	1.	Lump Sum	\$ _____	\$ _____
48	630	Flagging	300.	Hour	\$ _____	\$ _____
49	SP	Anti-Seep Collars (4' x 4') (Construct per GVIC details shown in the plans)	2.	Each	\$ _____	\$ _____

Bid Schedule: 23 Road Sewer Trunk Line Extension Project

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
50	SC 3.3.17	Backfill Compaction Tests (Includes Proctor Test) (Quality Control Testing)	12.	Each	\$ _____	\$ _____
51	SC 3.3.17	Aggregate Base Course Density Tests (Includes Proctor Test) (Quality Control Testing)	4.	Each	\$ _____	\$ _____
52	SC 3.3.17	Hot Bituminous Density Tests (Quality Control Testing)	4.	Each	\$ _____	\$ _____
53		Gravel Driveway Restoration (759 Goldenrod Court) (Includes grading and placing new gravel/rock that matches the existing driveway material)	240.	Sq. Yd.	\$ _____	\$ _____
MCR		Minor Contract Revisions	---	---	---	\$ <u>50,000.00</u>

Bid Amount: \$ _____

Bid Amount:

_____ **dollars**

Contractor Name:
Contractor Address:
Contractor Phone #:

The undersigned Bidder proposes to subcontract the following portion of Work:

<u>Name & address of Sub-Contractor</u>	<u>Description of work to be performed</u>	<u>% of Contract</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

The undersigned Bidder acknowledges the right of the City to reject any and all Bids submitted and to waive informalities and irregularities therein in the City's sole discretion.

By submission of the Bid, each Bidder certifies, and in the case of a joint Bid each party thereto certifies as to his own organization, that this Bid has been arrived at independently, without collusion, consultation, communication, or agreement as to any matter relating to this Bid with any other Bidder or with any competitor.

Appendix A

Project Submittal Form

PROJECT SUBMITTAL FORM

PROJECT: **23 Road Sewer Trunk Line Extension Project**

CONTRACTOR:

PROJECT ENGINEER: Lee Cooper

Description	Date Received	Resubmittal Requested	Resubmittal Received	Date Accepted
-------------	---------------	-----------------------	----------------------	---------------

CONSTRUCTION

4", 8" & 12" Gravity Sewer Pipe (SDR-35 PVC)				
45" x 29" Culvert (Elliptical RCP)				
36" Culvert (RCP)				
24" Steel Casing Pipe				
Casing Spacers and End Caps				
Imported Trench Backfill				
Granular Stabilization Material (Type B)				
Pipe Fittings – End caps, joint restraints, reducer, wyes, clean-outs				
Pipe Bedding Material				
48" I.D. Sewer Manhole and barrel sections (Includes 10 mil Coal Tar Epoxy Waterproofing)				
Geotextile Fabric (Non-woven)				
Aggregate Base Course, Class 6				
Slope Paving Shotcrete Mix Design				
Quality Control Testing Agency and Certifications				
Construction Schedule				
Labor and Equipment hourly rate table				

Appendix B

Project Special Provisions

23 ROAD SEWER TRUNK LINE EXTENSION PROJECT

SPECIAL PROVISIONS

GENERAL:

The descriptions of the pay items listed in the Bid Schedule for this Project may not agree with those listed in the Standard Specifications. Payment for all Work performed, as required in the Contract Documents, will be in accordance with the items and units listed in the Bid Schedule.

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION:

The *City of Grand Junction Standard Specifications for Road and Bridge Construction* are hereby modified or supplemented for this Project by the following modifications to *The Standard Specifications for Road and Bridge Construction*, State Department of Highways, Division of Highways, State of Colorado:

SECTION 208 – EROSION CONTROL

Section 208 of the Standard Specifications is hereby revised for this project as follows:

Subsection 208.04 shall include the following:

Any of the materials to be installed or used for the installation of the sewer line shall be stored within the construction area where the Contractor is working unless permission is granted to store materials elsewhere. Any glues and/or adhesives necessary shall be contained at all times within a spill proof and waterproof container when not being used.

All vehicle and equipment maintenance and fueling shall be performed in a designated area within the construction area that will not interfere with roadway traffic operations unless traffic control is provided. The fueling area shall exhibit Best Management Practices in order to minimize and/or eliminate the potential of fuel spillage. Any spillage of fuel onto the ground shall be immediately cleaned up and any contaminated soil disposed of properly at the Mesa County Landfill. Documentation of spills, leaks and overflows that result in the discharge of pollutants, including logging and reporting of the spill is required to the Water Quality Control Division at their toll-free 24-hour environmental emergency spill reporting line – 1-877-518-5608.

The Contractor shall clear the site of all on-site waste daily, including scrap from construction materials.

Concrete trucks will be required to wash out in a portable concrete washout pool supplied by the Contractor or the concrete truck can wait to washout back at the concrete batching

facility. The Contractor will be responsible for maintaining the washout pool. The washout pool shall be cleaned out and/or replaced when the washout pool reaches 50% of total capacity. The concrete washout pool needs to be dynamic and durable in its ability to be moved with the progress of construction.

The Contractor shall clear the site of all trash and litter daily. Portable toilets will be maintained (cleaned and emptied) by a local supplier.

SECTION 420 – GEOSYNTHETICS

Section 420 of the Standard Specification is hereby revised for this project as follows:

Subsection 420.02 in the City of Grand Junction’s Standard Specifications shall include the following:

The materials supplied for the “Geotextile (Non-Woven Separator for use with Type B Granular Stabilization Material)” shall be Contech C-60NW or Nillex NW60, or approved equal. Where specified by the Engineer, Geotextile shall be installed per Std. Detail GU-03 and used underneath the slope and ditch paving (shotcrete).

SECTION 507 – SLOPE AND DITCH PAVING

Section 507 of the Standard Specifications is hereby revised for this project as follows:

Subsection 507.13, Method of Measurement, shall include the following paragraph:

The slope paving (shotcrete) shall include the supply and placement of spray-applied concrete, including polypropylene fiber reinforcement, as well as, any necessary compaction, smoothing, or other preparation of slopes, excavation and forming of the cut-off walls, the forming of edges, and final surface finishing.

STANDARD SPECIFICATIONS FOR CONSTRUCTION OF WATER LINES, SANITARY SEWERS, STORM DRAINS, UNDERDRAINS AND IRRIGATION SYSTEMS

The City of Grand Junction *Standard Specifications for Construction of Water Lines, Sanitary Sewers, Storm Drains, Underdrains and Irrigation Systems* are hereby modified for this Project as follows:

SECTION 103 – REMOVALS, EXCAVATION, BACKFILLING AND RESTORATION

Section 103 of the Standard Specifications is hereby revised for this project as follows:

Subsection 103.10, Cutoff Walls, shall include the following:

Payment for this work will not be measured or paid for separately and will be considered incidental to the installation of Gravity Sewer Pipe. Refer to Section 108.13 for list of Incidental Construction items.

Subsection 103.16, Earth Backfill Material, shall include the following:

Native material excavated on site shall be used for backfill on all pipelines and appurtenances above the bedding and haunching material unless the native material is too wet, rocky or otherwise unsuitable for backfill as determined by the Engineer or his representative. In such case, imported trench backfill material, or other approved material, shall be used and paid for per ton of material supplied, placed and compacted. The Contractor will be required to salvage useable materials from the project excavations and mix the useable material with imported trench backfill prior to placing backfill in the trench. The contract price for “Imported Trench Backfill” shall include the disposal of the unsuitable material.

SECTION 105 – PIPELINE TESTING

This is a new sewer installation project, and as a result, the new sewer pipe shall be tested for leakage and alignment before final acceptance per the City Pipeline Testing Specification.

The City will provide CCTV video inspection of the new sewer lines. The Contractor will not be responsible for CCTV video inspection. All sanitary sewer mains shall be deflection tested using a Mandrel.

Appendix C

CDPHE Construction Dewatering Permit (Application Only)



For Agency Use Only:	
Permit Number Assigned	
COG07 -	_____
COG315 -	_____
COG316 -	_____

Application for COLORADO DISCHARGE PERMIT SYSTEM (CDPS) General Permits:

- Construction Dewatering (COG070000)
- Remediation Activities Discharging To Surface Water (COG315000), or
- Remediation Activities Discharging To Groundwater (COG316000)

Please print or type. Original signatures are required. Photo, faxed, pdf or email copies will not be accepted.

This combined permit application is designed to streamline the application process for the three types of discharge permits listed in Part A below, and includes an *Application Guidance Document* to help applicants complete the application and select the right permit coverage for their activity. Please note that **one** application is intended to cover **one** project and **one** type of permit. Where multiple projects or types of permits are required, please submit an appropriate number of permit applications.

The application must be submitted to the Water Quality Control Division at least 30 days (for Construction Dewatering) or 45 days (for Remediation) prior to the anticipated date of discharge, and must be considered complete by the division before the review and approval process begins. The division will notify the applicant if additional information is needed to complete the application. If more space is required to answer any question, please attach additional sheets to the application form. Applications must be submitted by mail or hand delivered to:

**Colorado Department of Public Health and Environment
 Water Quality Control Division, WQCD-P-B2
 4300 Cherry Creek Drive South
 Denver, Colorado 80246-1530**

IMPORTANT: Please read the *Application Guidance Document (Guidance)* for this permit application prior to completing this application. The *Guidance* provides specific and important instructions required for completing this application correctly.

A. PERMIT INFORMATION

Reason for Application: NEW CERT
 RENEW CERT EXISTING CERT # _____

Applicant is: Property Owner Contractor/Operator

Application is for the following discharge permit (select **ONE**). See Guidance.

- Construction Dewatering (COG070000)
- Remediation Activities Discharging to Surface Water (COG315000)
- Remediation Activities Discharging to Groundwater (COG316000)

Note: This application is designed for processing each of the three permit types listed above. The division may request additional characterization of the proposed discharge to ensure that the appropriate permit coverage is requested and the appropriate permit certification is issued. The division may deny or change the requested type of discharge permit after review of the submitted application and will notify the applicant of the changes. Coverage under the "Subterranean Dewatering or Well Development" General Permit COG6030000 is not available using this application form.



B. CONTACT INFORMATION

1. Permittee Information

Organization Formal Name: _____

Permittee Name: the person **authorized to sign and certify** the permit application. This person receives all permit correspondences and is **responsible** for ensuring compliance with the permit.

Responsible Position (Title): _____

Currently Held By (Person): _____

Telephone No: _____

Email address: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

This form must be signed by the permittee to be considered complete. **Per Regulation 61, in all cases**, it shall be signed as follows:

- a) In the case of corporations, by a responsible corporate officer. For the purposes of this section, the responsible corporate officer is responsible for the overall operation of the facility from which the discharge described in the application originates.
- b) In the case of a partnership, by a general partner.
- c) In the case of a sole proprietorship, by the proprietor.
- d) In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official.

2. DMR Cognizant Official (i.e. authorized agent) the person or position authorized to sign and certify reports required by permits including Discharge Monitoring Reports [DMR's], Annual Reports, Compliance Schedule submittals, and other information requested by the division. The division will transmit pre-printed DMR's to this person. If more than one, please add additional pages.

Same as 1) Permittee

Responsible Position (Title): _____

Currently Held By (Person): _____

Telephone No: _____

Email address: _____

Organization: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Per Regulation 61: All reports required by permits, and other information requested by the Division shall be signed by the permittee or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- a) The authorization is made in writing by the permittee
- b) The authorization specifies either an individual or a **position having responsibility for the overall operation of the regulated facility or activity** such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position)
- c) Submitted in writing to the Division



B. CONTACT INFORMATION (cont.)

3. Site/Local Contact (contact for questions relating to the facility & discharge authorized by this permit.)

Same as 1) Permittee

Responsible Position (Title): _____

Currently Held By (Person): _____

Telephone No: _____

Email address: _____

Organization: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

4. Operator in Responsible Charge Required for Groundwater Remediation COG315000 or COG316000

Same as 1) Permittee

Same as 3) Site/ Local Contact

**Note: Where the division determines that coverage under the construction dewatering permit is appropriate, an ORC is not required.*

Operator Number _____ Legal Name: _____

Telephone No: _____ Email address: _____

Company: _____

5. Billing Contact

Same as 1) Permittee

Responsible Position (Title): _____

Currently Held By (Person): _____

Telephone No: _____

Email address: _____

Organization: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

6. Other Contact Types (check below) Add pages if necessary:

Responsible Position (Title): _____

Currently Held By (Person): _____

Telephone No: _____

Email address: _____

Organization: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Environmental Contact

Facility Inspection Contact

Consultant

Compliance Contact

Property Owner

Other _____



C. PERMITTED FACILITY INFORMATION

Facility or Project Name _____

Street Address (or cross streets) _____

City _____ Colorado, Zip Code _____

County _____

Type of Facility Ownership

- City Government Corporation Private Municipal or Water District
 State Government Mixed Ownership _____

Facility or Project Latitude/Longitude – List the latitude and longitude of the excavation resulting in the discharge(s). If the exact excavation location(s) are not known, list the latitude and longitude of the center point of the construction project. If using the center point, be sure to specify that it is the center point of construction activity.

Latitude _____. _____ Longitude _____. _____
 Provide coordinates in decimal degrees to 6 decimal places (e.g., 39.703345°, -104.933567°)

Horizontal Collection Method: GPS Unspecified Interpolation Map - Map Scale Number _____
 Reference Point: Project/Facility Entrance Project/Facility Center/Centroid

Horizontal Reference Datum: _____

Standard Industrial Classification (SIC) Code(s) for this FACILITY (include up to 4, in order of importance)

1 _____ 2 _____ 3 _____ 4 _____

Receiving Water _____

D. PROJECT DESCRIPTION

D.1. Description of Activity:

- a) Provide a brief overview of the project and dewatering activity (e.g., highway, bridge and tunnel construction, storm drain expansion, etc.).

- b) Is the dewatering and discharge in-stream? (The dewatering operation is considered in-stream where the dewatering activity is conducted within approximately the ordinary high water mark of the stream and/or on the bank of the stream and the discharge is back to the same water body.)
 Yes * No

**If yes, you must provide a description of how your project meets this definition in the box below. If no description is provided, the work will not be considered in-stream. Please note that in-stream work activities may also require a separate Clean Water Act Section 404 Permit and Colorado 401 Certification.*



- c) Will the project involve a temporary stream diversion (e.g. diversion channel, pump-around, piped diversion, coffer dam) to reroute water around the construction area?
 - Yes * No

**By checking yes, the applicant understands that temporary water diversions are not covered under the permit certification and may require coverage under a Clean Water Act Section 404 Permit. Only dewatering discharge outfalls associated with construction-related activities may be covered under the permit certification.*

- d) Will dewatering be conducted in areas that involve work on (e.g. replacing, repairing, making connections to, etc...) existing sanitary sewer lines, conveyances, or vessels, or in proximity to septic disposal systems?
 - Yes No

If yes, is there the potential that sewage or septage could be in the effluent to be discharged?

- Yes No *

**If no, you must provide a description of the control measures that will be implemented to prevent sewage or septage from entering the discharge (use the box below). The division may add effluent limits for E. coli and/or Total Coliform if the applicant does not demonstrate that adequate measures will be in place.*

D.2 Description of Discharge:

- a) Is the discharge to a ditch or storm sewer system? Yes* No

**If yes, the applicant must contact the owner of the ditch or storm sewer system prior to discharging to address any local ordinances and to determine if additional requirements will be imposed by the owner.*

- b) Is the discharge to an impoundment? Yes* No

- c) Discharge Frequency and Duration:

- Estimated discharge start date: _____
- Estimated discharge duration: Years _____ Months _____ Days _____
- Upon completion of construction phase dewatering, will there be long-term subterranean dewatering at the site (e.g. foundation, footer, toe drains, etc...)? Yes* No

**If yes, note that construction phase dewatering and long-term subterranean dewatering cannot be covered under the same permit certification.*

- d) Provide a brief description of the Best Management Practices (BMPs) to be used in the box below.

D.3 Discharge Outfalls (Limit 20 outfalls):

- Total number of **defined** outfalls requested: _____
- Total number of **undefined** outfalls requested: _____ (construction dewatering only)
- Complete Table 2a (for discharges to surface water) and/or 2b (for discharges to land with percolation to groundwater) to identify your defined and undefined outfall locations. Attach additional pages as necessary.



Table 2a - Requested Outfalls for Discharges to Surface Water (Discharges that may reach surface water through direct discharge or through a conveyance such as a ditch or a storm sewer system)				
OUTFALL NUMBER ¹	NAME OF RECEIVING STREAM(S) (e.g., Cherry Creek, Boulder Creek, Arkansas River)	ESTIMATED MAXIMUM FLOW RATE ² (gpm)	DESCRIPTION OF DISCHARGE LOCATION ³ (e.g., Discharge enters storm sewer located at the corner of Speer and 8 th Ave. with flow to Cherry Creek)	LATITUDE/LONGITUDE OF EACH DISCHARGE OUTFALL
Defined Discharges to Surface Water				
001-A				
002-A				
003-A				
004-A				
Undefined Discharges to Surface Water (Available for construction dewatering only) (Provide <i>estimated</i> lat/long only for undefined outfalls)				
001-AU				
002-AU				
003-AU				
004-AU				

1 Identify up to 20 defined or undefined outfalls (undefined for construction dewatering only). Use additional pages as necessary.

2 For construction dewatering the maximum flow limit will be equal to twice the estimated maximum flow rate provided in the permit application. For groundwater remediation the 30-day average flow limit will be based on the design capacity of the treatment as provided in the permit application.

3 The discharge location is the point where effluent sampling will occur. This location must be at a point after treatment and before the effluent joins or is diluted by any other waste stream, body of water, or substance. If the discharge is to a ditch or storm sewer system, include the name of the ultimate receiving waters where the ditch or storm sewer discharges.



Table 2b - Requested Outfalls for Discharges to Land with the Potential to Percolate to Groundwater (These discharges do not have the potential to reach surface water either directly or through a conveyance.) ⁴			
OUTFALL NUMBER ¹	ESTIMATED MAXIMUM FLOW RATE ² (gpm)	DESCRIPTION OF DISCHARGE LOCATION ³ (e.g., Discharge to a field south of project site and East of I-25)	LATITUDE/LONGITUDE OF EACH DISCHARGE OUTFALL
Defined Discharges to Land with Potential Percolation to Groundwater			
G001-A			
G002-A			
G003-A			
G004-A			
Undefined Discharges to Land with Potential Percolation to Groundwater (Available for construction dewatering only) (Provide estimated lat/long only for undefined outfalls)			
G001-AU			
G002-AU			
G003-AU			
G004-AU			

1 Identify up to 20 defined or undefined outfalls (undefined for construction dewatering only). Use additional pages as necessary.

2 For construction dewatering the maximum flow limit will be equal to twice the estimated maximum rate flow rate provided in the permit application. For groundwater remediation the 30-day average flow limit will be based on the design capacity of the treatment as provided in the permit application.

3 The discharge location is the point where effluent sampling will occur. This location must be at a point after treatment and before the effluent joins or is diluted by any other waste stream, body of water, or substance.

4 For discharges of uncontaminated groundwater to land, please review and consider the applicability of the division's *Low Risk Discharge Guidance: Discharges of Uncontaminated Groundwater to Land* before submitting a permit application to the division. This policy is available for download at <https://www.colorado.gov/pacific/cdphe/clean-water-construction-compliance-assistance-and-guidance>.



E. ADDITIONAL INFORMATION

E.1 Nearby Sources of Potential Groundwater Contamination:

- a) Has the proposed dewatering area been reviewed for possible groundwater contamination, such as plumes from leaking underground storage tanks (LUSTs), hazardous waste sites, or additional sources other than what is normally encountered at excavation and construction sites? *Applicants are expected to exercise due diligence in evaluating their project sites prior to applying for a discharge permit.*

Yes No

- b) Is an open LUST located within **one-half mile** of the site?

Yes* No

**If yes, BTEX analytical data for a source water sample representative of the proposed discharge at the site must be included with the permit application. Failure to include this data may result in delays in processing the permit application until such data is submitted to the Division. See Guidance.*

- c) Is a Superfund site or National Priorities List (NPL) site located within **one mile** of the site?

Yes* No

**If yes, analytical data for all parameters shown in Table 1 of this application (or an alternate list of constituents approved by the division) for a source water sample representative of the proposed discharge must be included with the permit application. Failure to include this data may result in delays in processing the permit application until such data is submitted to the Division. See Guidance.*

- d) Is any other (non-LUST, non-Superfund, non-NPL site) known source of contamination, such as a Voluntary Cleanup (VCUP), Environmental Covenant, open RCRA Corrective Action site, or brownfields site located within **one-half mile** of the site?

Yes* No

**If yes, analytical data for all parameters shown in Table 1 of this application (or an alternate list of constituents approved by the division) for a source water sample representative of the proposed discharge must be included with the permit application. Failure to include this data may result in delays in processing the permit application until such data is submitted to the Division. See Guidance.*

- e) If known sources of contamination are located near the site, provide an overview of the source and nature of contamination including:

- The nature of the contamination of the groundwater, alluvial water, stormwater, and/or surface water (the source water) for which treatment and/or remedial activities will occur,
- The primary industrial activities which resulted in the source water contamination,
- The source of the contamination (pipes, leaking underground storage tank, up gradient sources, etc.) or state "unknown."



- f) For contaminated discharges (remediation), provide a narrative description of the type(s) of treatment proposed for use at each identified outfall.

E.2 Chemical Additions

List any chemical additives or other materials to be used in the water or to treat water prior to discharge. Include the Material Safety Data Sheet (MSDS) for each chemical with the application.

CHEMICAL NAME	MANUFACTURER	PURPOSE	DOSAGE

E.3 Site Maps and Schematics

- Are required maps and schematics attached? Yes No-Application cannot be processed without required maps

- ✓ **Location Map(s) for Outfalls** - Application must include a location map(s) that shows the location of the project/facility, the limits of the construction activity, the approximate location of the requested discharge point(s)/outfalls, and the location of potential receiving water(s). If known, the map should also include the approximate location(s) where dewatering is to occur and the location of proposed BMP(s) to be used. A north arrow must be shown. **Maps must be on paper that can be folded to 8 ½ x 11 inches.**

E.4 Associated Permits

Does the applicant have a Stormwater Permit for Construction Activities? YES NO PENDING
 If Yes, Stormwater Construction Permit Number: COR-_____

Does the applicant have a Clean Water Act Section 404 Permit? YES NO PENDING



E.5 Water Rights

The State Engineers Office (SEO) has indicated that any discharge that does not return water directly to surface waters (i.e. land application, rapid infiltration basins, etc.) has the potential for material injury to a water right. As a result, the SEO needs to determine that material injury to a water right will not occur from such activities. To make this judgment, the SEO requests that a copy of all documentation demonstrating that the requirements of Colorado water law have been met, be submitted to their office for review. The submittal should be made as soon as possible to the following address:

Colorado Division of Water Resources • 1313 Sherman Street, Room 818 • Denver, Colorado 80203

Should there be any questions on the issue of water rights; the SEO can be contacted at (303) 866-3581. It is important to understand that any CDPS permit issued by the division does not constitute a water right. Issuance of a CDPS permit does not negate the need to also have the necessary water rights in place. It is also important to understand that even if the activity has an existing CDPS permit, there is no guarantee that the proper water rights are in place.

F. REQUIRED CERTIFICATION SIGNATURE [Reg 61.4(1)(h)]

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature (Legally Responsible Party (Page 2 item 1) _____

Date _____

Name (printed) _____ Title _____

This form must be signed by the permittee to be considered complete. **Per Regulation 61, in all cases**, it shall be signed as follows:

- a) In the case of corporations, by a responsible corporate officer. For the purposes of this section, the responsible corporate officer is responsible for the overall operation of the facility from which the discharge described in the application originates.
- b) In the case of a partnership, by a general partner.
- c) In the case of a sole proprietorship, by the proprietor.
- d) In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official.



ATTACHMENT 1

Please Submit the Laboratory Data Package for any Required Analysis with the Permit Application
(See Important Table Notes)

Required Water Quality Data			
<u>Metals</u>	<u>PQL (ug/l) ¹</u>	<u>Metals</u>	<u>PQL (ug/l) ¹</u>
Aluminum-Trec	15	Lead-PD	0.5
Antimony-Trec	2	Manganese-PD	2
Arsenic-Trec	1	Manganese-Diss	2
Arsenic-PD	1	Molybdenum-Trec	0.5
Barium-Trec	1	Nickel-Trec	1
Beryllium-Trec	2	Nickel-PD	1
Cadmium-Trec	0.5	Selenium-Trec	1
Cadmium-PD	0.5	Selenium-PD	1
Chromium III-Trec	20	Silver-Trec	0.5
Chromium III-PD	20	Silver-PD	0.5
Chromium VI-Diss	20	Thallium-Trec	0.5
Chromium-Trec	20	Thallium-PD	0.5
Copper-Trec	2	Uranium-PD	1
Copper-PD	2	Uranium-Trec	1
Iron-Trec	20	Zinc-Trec	10
Iron-Diss	20	Zinc-PD	10
Lead-Trec	0.5		
<u>Volatiles</u>	<u>PQL (ug/l) ¹</u>	<u>Volatiles</u>	<u>PQL (ug/l) ¹</u>
acrolein	15	ethylbenzene	75
benzene	3	methyl bromide	5
bromoform	3	methyl chloride	4.5
carbon tetrachloride	3	1,1,2-tetrachloroethane	2
chlorobenzene	60	tetrachloroethylene	2.3
chlorodibromomethane	3	toluene	60
2-chloroethylvinyl ether	0.65 *	1,2-trans-dichloroethylene	0.5 *
chloroform	3	1,1,1-trichloroethane	5
1,2-dichlorethane	3	1,1,2-trichloroethane	2.0
1,1-dichlorethylene	5	trichloroethylene	2.3
1,2-dichloropropane	2	vinyl chloride	3
1,3-dichlorpropylene	2 *	1,4-Dioxane	0.15 *
<u>Semi-Volatile Organic Compounds</u>	<u>PQL (ug/l) ¹</u>	<u>Semi-Volatile Organic Compounds</u>	<u>PQL (ug/l) ¹</u>
acenaphthene	20	1,2-diphenylhydrazine (as azobenzene)	5 *
acenaphthylene	30	fluorene	20
anthracene	20	fluoranthene	25
benzidine	170	hexachlorobenzene	16
benzo(a)anthracene	12	hexachlorobutadiene	9
benzo(a)pyrene	20	hexachlorocyclopentadiene	50
benzo(b)fluoranthene	35	hexachloroethane	16
benzo(ghi)perylene	20	indeno(1,2,3-cd)pyrene	20
benzo(k)fluoranthene	25	isophorone	25
bis(2-chloroethyl)ether (or Dichloroethyl ether)	15	naphthalene	20
bis(2-chloroisopropyl)ether (or 2,2-dichloroisopropyl ether)	60	nitrobenzene	19
bis(2-ethylhexyl)phthalate	25	N-nitrosodimethylamine	30

<u>Semi-Volatile Organic Compounds</u>	<u>PQL (ug/l) ¹</u>	<u>Semi-Volatile Organic Compounds</u>	<u>PQL (ug/l) ¹</u>
Butyl benzyl phthalate	25	N-nitrosodi-n-propylamine	30
2-chloronaphthalene	20	N-nitrosodiphenylamine	19
chrysene	18	pyrene	10
dibenzo(a,h)anthracene	20	1,2,4-trichlorobenzene	20
1,2-dichlorobenzene	2.5	2-chlorophenol	35
1,3-dichlorobenzene	2.5	2,4-dichlorophenol	30
1,4-dichlorobenzene	3.5	2,4,-dimethylphenol	30
3,3-dichlorobenzidine	18	4,6-dinitro-o-cresol	17
diethyl phthalate	20	2,4-dinitrophenol	100
dimethyl phthalate	20	4-nitrophenol	25
di-n-butyl phthalate	25	pentachlorophenol	36
2,4-dinitrotoluene	17	phenol	15
2,6-dinitrotoluene	20	2,4,6-trichlorophenol	25
xylene	10 *	1,4-Dioxane	0.15 *

¹ PQLs are as listed in the division's *Practical Quantitation Limits Policy* (CW 6) unless noted otherwise.

* This is a recommended PQL based on EPA approved methods. The division's *Practical Quantitation Limits Policy* (CW 6) does not provide a 40 CFR 136 based PQL for this parameter.

Trec = Total Recoverable

PD = Potentially Dissolved

Diss = Dissolved

PQL = Practical Quantitation Limit

Important table notes:

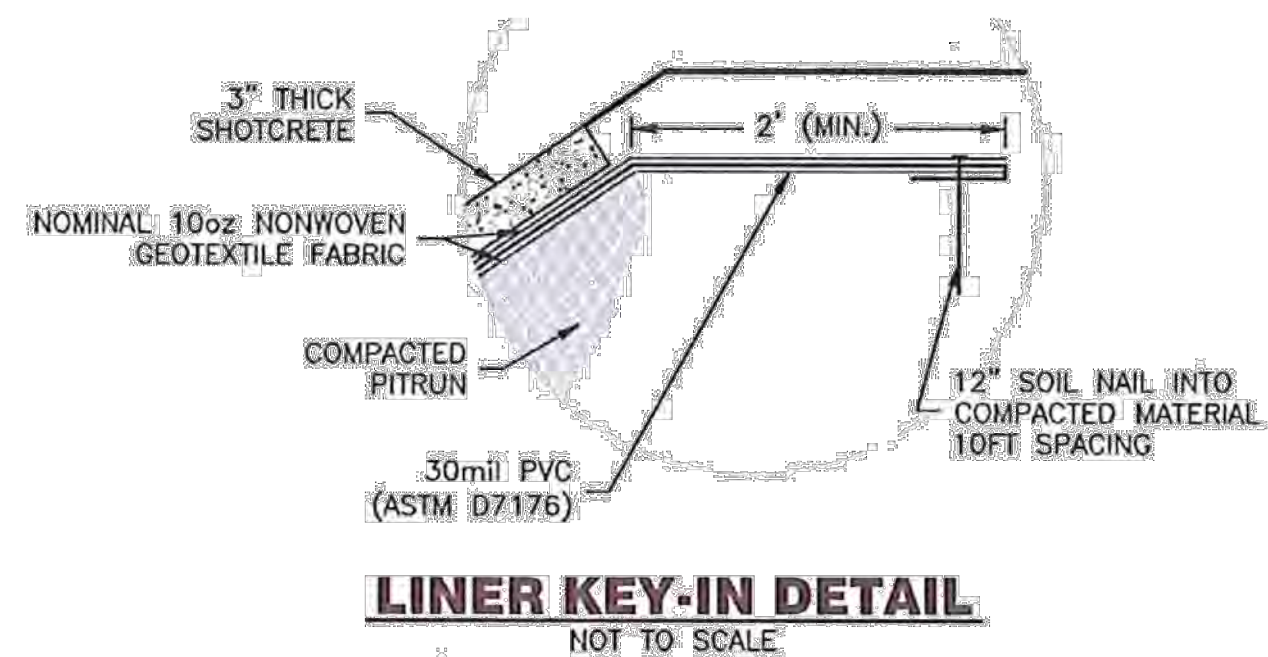
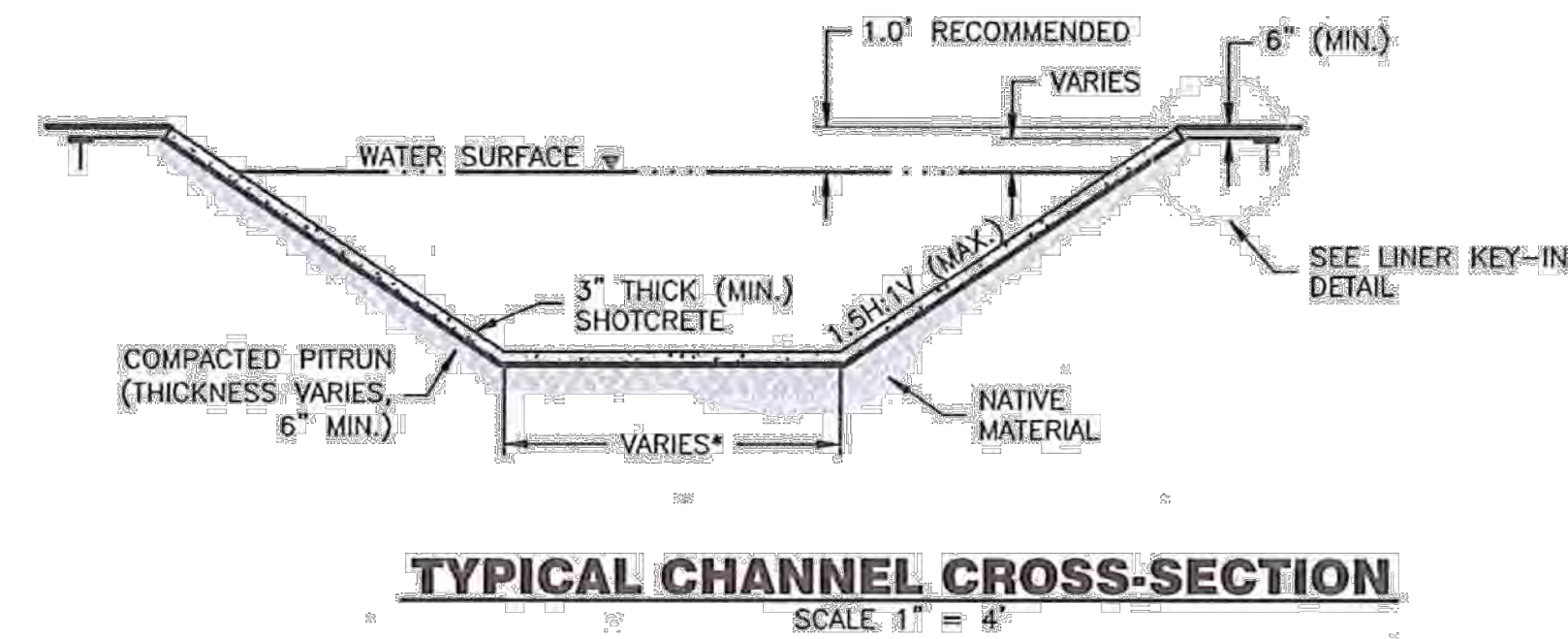
- 1) Please refer to the permit application Guidance to determine whether analytical data is required with the permit application, and if so, what specific type of data is required.
- 2) Parameter names match the names as they appear in the general permit or, as italicized, as they appear in the division's *Practical Quantitation Limits Policy* (CW-6).
- 3) The division may require analytical data for additional parameters where the project site is located in close proximity to potential sources of contamination for parameters not included in this Attachment 1, including but not limited to pesticide, PCB, radionuclide contamination.
- 4) Applicants applying under the General Permit for Remediation Activities Discharging to Groundwater (COG316000) are encouraged to contact the division prior to sample collection to ensure that the correct metal speciation is included in the sample analysis.
- 5) For the permit application, all sampling should be performed according to specified methods in 40 CFR 136, methods approved by EPA pursuant to 40 CFR 136, or methods approved by the division, in the absence of a method specified in or approved pursuant to 40 CFR 136. In addition, the PQLs listed in Attachment 1 should be met unless otherwise approved by the division.

GENERAL CONSTRUCTION NOTES

- Locations of existing utilities shown on these plans are approximate only. Contractor is to contact affected utility for specific locations before digging.
- The Contractor shall notify the engineer if unanticipated conditions are encountered during completion of the work which require modifications to the contract drawings. The engineer can be reached at 970-242-7540.
- Contractor shall give 48-hour notice to all authorized inspectors, superintendents, or person in charge of public and private utilities affected by his operations prior commencement of work. Contractor shall assure himself that all construction permits are current.
- Contractor shall confine his construction operations to the right-of-way, easements, and lots, as shown on plans and plat. Any damage to private facilities outside these limits shall be repaired by the Contractor at no expense to the Owner.
- All construction, related work, materials, performance and quality of work provided shall conform to the requirements of the City of Grand Junction Standard Specifications and Drawings and the applicable sections of the most current edition of the Division of Highways, State of Colorado Standard Specifications for Road and Bridge Construction, Colorado Standard Plans, Division of Highways M & S Standards.
- Contractor shall familiarize himself with the geotechnical testing requirements of the City of Grand Junction. The results of the required types of tests and numbers of passing tests shall be furnished to the Engineer for verification before final acceptance by the Owner will be granted. All failing tests shall be brought to the immediate attention of the Engineer and retests shall be performed until passing results are obtained. All utility lines, including service lines falling shall be tested.
- Only materials on which a proctor test can be performed and accurate nuclear density tests can be run are approved for utility trench back fill unless otherwise approved by the Engineer.
- All utility installations are to be performed in accordance with the City of Grand Junction Standard Specifications for the Construction of Underground Utilities and Standard Details.
- In the event of a discrepancy between the construction notes contained herein and the notes and details in the City of Grand Junction Standard Contract Documents for Capital Improvements Construction manual, the City's manual shall control.
- All concrete shall have a minimum of 6-inches of Class VI ABC, unless otherwise noted.
- The Contractor shall use flow-fill to backfill the sewer line at the Grand Valley Irrigation Canal crossing. See plans for extends.
- Anti-Seep collars shall be provided on the upstream and downstream ends of the sewer line crossing of the Grand Valley Irrigation Canal.

FUGITIVE DUST CONTROL PLAN

- Before stripping of the site preparation for overlot grading, the surface is to be pre-wet to control dust.
- Any stockpiles of stripping materials are to be periodically sprayed with water or a crusting agent to stabilize potentially wind blown material.
- Haul road both into and around the site are to be sprayed as needed to suppress dust.
- The Storm Water Management Plan and permit shall be obtained and kept onsite before starting any construction work. Gravel pads are to be constructed at the entrances to the site to help in removing mud from the wheels of haulage trucks before they enter onto City streets.
- Trucks hauling import fill are to be tarped to aid in the control of airborne dust.



SANITARY SEWER CONSTRUCTION NOTES

- All materials and workmanship shall comply to the Standards and Specifications of the City of Grand Junction. The City of Grand Junction reserves the right to accept or reject any materials and or workmanship that does not conform.
- The Contractor shall have one signed copy of plans and a copy of the City of Grand Junction Standards and Specifications at the job site at all times.
- All sanitary sewer pipe shall be PVC SDR-35 (ASTM 3034) unless otherwise specified. All pipe joints shall be 13-foot joints unless otherwise approved by the District Engineer.
- All sewer lines to be laid to grade utilizing a "pipe laser".
- All connections to the new sewer lines shall be accomplished with full body wyes or tees. Tapping saddles will not be allowed, except as noted.
- All trenches shall be compacted to 95% within 2% of optimum moisture content, as determined AASHTO T-99.
- A minimum of 10 ft. of separation shall be maintained at all times between the waterline and sewer line except at specified crossings.
- Six-inch service line connections to sewer main shall be connected using a manhole.
- The contractor is responsible for all required sewer line testing to be completed in accordance with the City of Grand Junction Standards and Specifications.
- Manholes shall be constructed as shown on the City of Grand Junction Standard Sanitary Sewer Detail sheets SS-02 of SS-03 as appropriate.
- Provide a 5" Thick concrete apron around all sewer manholes a minimum of 2-ft each side of the manhole.
- Water stop gaskets and clamp assemblies are to be furnished and installed at all connections to manholes.
- Where sanitary sewers cross under a water line with less than 18 inches of vertical separation, and in all cases where the sanitary sewer crosses over the waterline at any depth, provide total concrete encasement of pipe for a length of 10 feet to either side of the waterline.
- Only materials on which a proctor test can be performed and accurate nuclear density tests can be run are approved for sewer line trench backfill unless otherwise approved by the Engineer.
- To inhibit the movement of ground water through sewer bedding and haunching material, clay cutoff wall of native material are to be constructed approximately 10 feet upstream from each manhole and shown on sanitary sewer plan and profiles.
- Notify the City of Grand Junction 48 hours prior to the construction of the sanitary sewer facilities.
- All sanitary sewer manhole inverts will require epoxy coating per City of Grand Junction Standards for Capital Improvements Construction.

STORM SEWER CONSTRUCTION NOTES

- All storm sewer line construction shall be in accordance with the City of Grand Junction Standards and Specifications.
- All Reinforced Concrete storm sewer pipe shall conform to ASTM Standard Specifications, C-76, Class III unless otherwise noted.
- All polyvinyl chloride (PVC) pipe and fittings shall conform to ASTM Standard Specifications, D3034 and F679, SDR-35 unless otherwise noted.
- All High Density Polyethylene (HDPE) pipe and fittings shall be smooth bore and shall conform to the following:
 12 inch to 36 inch shall meet ASSHTO M294
 42 inch to 48 inch shall meet ASSHTO MP6
 All HDPE pipe up to 30" shall be backfilled to springline with Class-6.

LEGEND	
---	PROPERTY LINE
---	ADJACENT PROPERTY LINE
---	EXISTING EASEMENT
---	PROPOSED EASEMENT
▨	EXISTING BUILDING
▨	PROPOSED BUILDING
▨	EXISTING CURB/GUTTER
▨	PROPOSED CURB/GUTTER
▨	PROPOSED SPILL CURB/GUTTER
▨	PROPOSED TRANSITION CURB/GUTTER
▨	EXISTING RETAINING WALL
---	EXISTING 1-FEET CONTOUR
---	EXISTING 5-FEET CONTOUR
---	PROPOSED 1-FEET CONTOUR
---	PROPOSED 5-FEET CONTOUR
▨	EXISTING GRAVEL
▨	PROPOSED GRAVEL
▨	EXISTING ASPHALT
▨	PROPOSED ASPHALT
▨	PROPOSED HEAVY DUTY ASPHALT
▨	EXISTING CONCRETE
▨	PROPOSED CONCRETE
▨	PROPOSED HEAVY DUTY CONCRETE
---	EXISTING SANITARY SEWER
---	PROPOSED SANITARY SEWER
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	PROPOSED SANITARY SEWER MANHOLE
⊙	PROPOSED SANITARY SEWER CLEANOUT
---	EXISTING STORM SEWER
---	PROPOSED STORM SEWER
---	EXISTING STORM SEWER INLET
---	PROPOSED STORM SEWER INLET
⊙	EXISTING STORM SEWER MANHOLE
⊙	PROPOSED STORM SEWER MANHOLE
---	EXISTING 8" WATER MAIN
---	PROPOSED 2" DOMESTIC SERVICE
---	PROPOSED 4" FIRE LINE
⊙	EXISTING FIRE HYDRANT
⊙	PROPOSED FIRE HYDRANT
⊙	EXISTING WATER METER
⊙	PROPOSED WATER METER
⊙	PROPOSED METER/BACKFLOW VAULT
⊙	PROPOSED IRRIGATION MANHOLE
---	PROPOSED FENCE
---	EXISTING FENCE
---	PROPOSED TRAFFIC FLOW
---	GRADE BREAK
⊙	ROOF DRAIN (RD)
⊙	STREET LIGHT POLE
⊙	FIRE DEPARTMENT CONNECTION
⊙	PARKING LOT LIGHT
⊙	PROPOSED BUILDING LIGHT
⊙	POWER POLE
---	FLOWLINE
---	EDGE OF PAVEMENT
---	TOP OF CONCRETE
---	TOP OF WALL
---	BOTTOM OF WALL
---	TOP BACK OF WALK
---	TOP OF CURB
---	BACK OF CURB
---	LANDSCAPE AREA
---	UTILITY PEDESTALS (TEL & ELEC)
---	TRANSFORMER

shotcrete & liner

- Shotcrete shall have a minimum 28-day strength of 3,000 PSI.
- Shotcrete shall have a water to cement ratio of 0.40 to 0.50.
- Shotcrete shall not contain coarse aggregate larger than that defined by AASHTO M43 No. 8. fine aggregate shall conform to AASHTO M6.
- Shotcrete shall contain 0.75" long polypropylene fibers at a rate of 1.5 pounds per cubic yard of shotcrete.
- Proposed shotcrete mix design shall be submitted to engineer 7 days prior to shotcrete placement.
- Prior to placement shotcrete shall have an air content of 7-10%. in place shotcrete shall have an air content of 3.5-5%.
- Shotcrete shall have a slump of 2-4 inches prior to placement.
- Shotcrete temperature when placed shall be greater than or equal to 55 degrees Fahrenheit.
- The time from batching shotcrete to final placement shall not exceed 45 minutes when ambient air temperatures exceed 80 degrees Fahrenheit. When ambient air temperatures are below 80 degrees Fahrenheit, The time may be extended to a maximum time of 90 minutes.
- Shotcrete shall not be placed on frozen surfaces; all surfaces on which shotcrete is to be placed shall be warmed to 35 degrees Fahrenheit before placement.
- Shotcrete shall not be applied during periods of rain, snow, or high wind.
- Shotcrete shall not be placed when the ambient air temperature is below 30 degrees fahrenheit without approval from the engineer.
- The minimum concrete temperature as mixed shall be determined by the following table:

AIR TEMPERATURE	CONCRETE TEMPERATURE
ABOVE 30°F	60° F
0 TO 30°F*	65° F

*ENGINEER NOTIFICATION AND APPROVAL REQUIRED.

- Keep applied shotcrete at temperature greater than 55 degrees for a minimum of 2 days immediately following application.
- The maximum allowable gradual temperature drop during the first 24 hours after protection is removed is 50 degree Fahrenheit.
- Maximum and minimum temperatures of the in-place shotcrete, over the initial 24 hours shall be recorded and provided to the engineer.
- The shotcrete surface shall be covered with plastic/blankets or kept continuously moist for an initial curing period of at least 2 days.
- Shotcrete shall be placed with a minimum thickness of 3 inches, and not to exceed 4 inches, measured at 90 degrees from the prepared surface.
- When gunning vertical work or side slopes, shotcrete shall be applied from the bottom up.
- Fill horizontal and vertical corners first, followed by bringing the rest of the surface to the required thickness.
- The in-place thickness shall be checked on each surface. each side slope and bottom, a minimum of once for every 5 feet of canal length. the in-place thickness of the shotcrete may be verified by probing the fresh shotcrete with a blunt tool so as not to harm the underlying pvc liner. thin areas should be corrected by immediate application of additional material.
- When shotcrete is to be placed directly against existing concrete or shotcrete, prepare the surface by dry sandblasting, wet sandblasting, grinding, or high-pressure water jetting to expose aggregate. the surface shall be damp for 24 hours prior to placement of the new shotcrete and a bonding agent should be applied prior to shotcrete placement.
- When applying to an existing concrete surface, a thin coat of shotcrete should be rapidly applied to the selected work surface before starting the layering of shotcrete. Once the initial wet coat is applied, a second pass over the area may proceed at a slower rate. corners should be filled first, followed by application onto the flat areas.
- Satisfactory evidence must be shown that the shotcrete mixer is capable of thorough mixing and discharging all batched material without any carry-over from one batch to the next. the mixer should be inspected and cleaned thoroughly at least twice a day, more often if necessary, to prevent accumulations of batched material and minimize unplanned shutdowns.
- Personnel applying the shotcrete must possess and show current aci nozzleman certification or be able to show significant experience with placing shotcrete.
- Plane surfaces shall be shotcreted with the nozzle held at 90 degrees to the surface. Apply the shotcrete with a steady circular or elliptical movement of the nozzle across the surface. do not direct the nozzle towards one spot for an extended period of time.
- Joints shall be tapered to a maximum thickness of 1 inch over a maximum distance of 12 inches. The entire joint shall be thoroughly cleaned and wetted prior to the application of additional shotcrete.
- Surface defects must be repaired as soon as possible after initial placement of the shotcrete. all shotcrete which lacks uniformity, which exhibits segregation, honeycombing, or lamination, or which contains any dry patches, slugs, voids, or sand pockets must be removed and replaced with fresh shotcrete.
- Testing shall occur once per day or every 175 cubic yards of placement. testing shall include temperature, slump and air content. testing frequency may be increased or decreased at the discretion of the engineer.
- A test panel should be shot at least once a shift. the panel should be shot by the same nozzleman who is placing shotcrete that day. the panel should be at least 18 by 18 by 7.25 inches thick. the test panel should be cured in place at the project site in accordance with the contract requirements until it has attained sufficient strength to allow movement to the testing laboratory. Curing should continue in the test laboratory until specimens are obtained from the panel. four 6 inch long by 3 inch diameter cores should be taken from the panel in accordance with the provisions of CRD-C 27 (ASTM C 42). Compression tests shall be performed at 7, 14, and 28 days. testing frequency may be increased or decreased at the discretion of the engineer.
- Geotextile fabric shall conform to the following specifications; nominal weight of 10 oz/yd, minimum cbr puncture resistance of 625 lbs. according to astm d6241, and a minimum grab tensile strength of 250 lbs according to astm d4632.
- Geotextile shall be anchored with a minimum horizontal lip of 2 feet that is keyed in under the access road or embankment as shown on the drawings.

UTILITIES AND AGENCIES		
CITY OF GRAND JUNCTION SANITARY SEWER	PUBLIC WORKS	256-4106
UTE WATER	JIM DAUGHERTY	242-7491
GRAND VALLEY IRRIGATION	PHIL BERTRAND	242-2762
CITY OF GRAND JUNCTION PUBLIC WORKS	PUBLIC WORKS	256-4106
YCEL ENERGY	JOHN SALAZAR	244-2681
CENTURY LINK	CHRIS JOHNSON	244-4333
CHARTER	JOHN VALDEZ	245-8750



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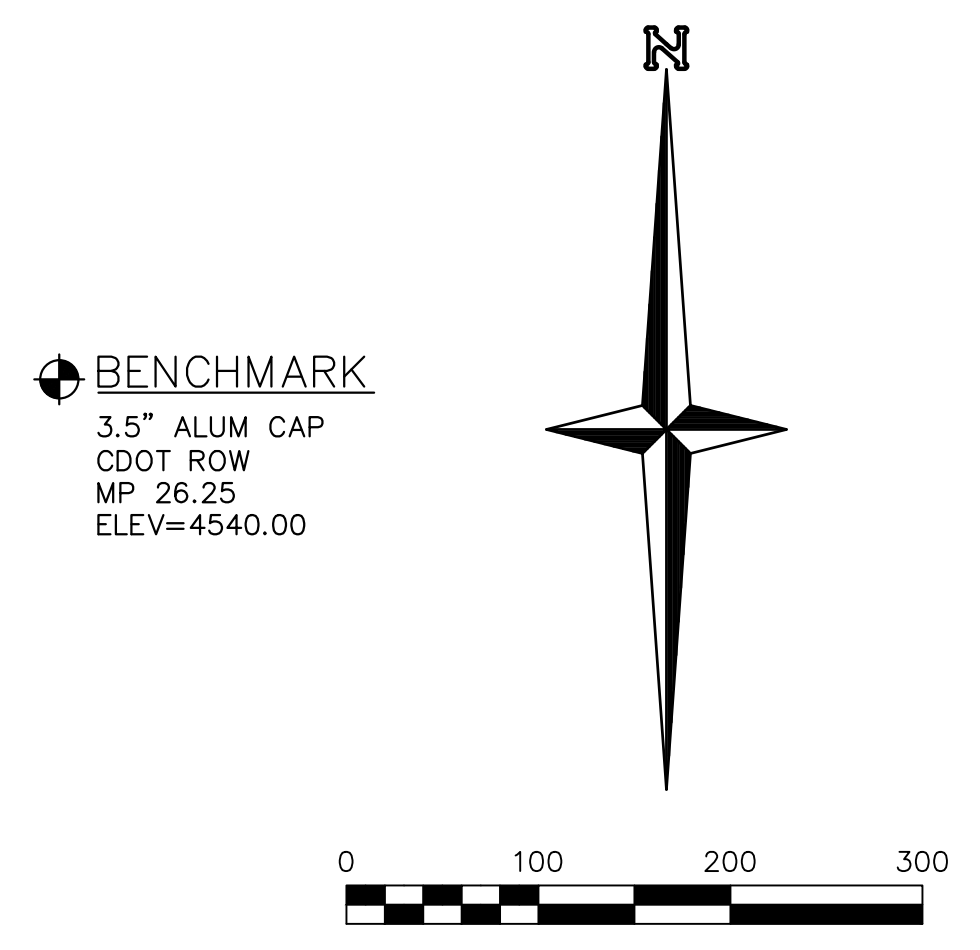
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 (970) 242-7540

23 ROAD TRUNK EXTENSION
 GENERAL CONSTRUCTION NOTES
 PROJECT # F092420
 CITY OF GRAND JUNCTION

DRAWN BY: lms	DESIGNED BY: lms	CHECKED BY: MRA	APPROVED BY: MRA
JOB NUMBER: 1233.0001			
DATE: 12-04-19			
SCALE: NTS			
SHEET NO: C-2			

M:\PROJECTS\1233\0001 Taurus of Texas Swr Ext\DWG\C3.dwg Production Dwg\PROP-UTILITIES-SWR EXT.dwg C-3 UTIL COMP. 12/5/2019 6:09:07 PM

LEGEND			
---	PROPERTY LINE	⊙	EXISTING STORM SEWER MANHOLE
- - -	ADJACENT PROPERTY LINE	⊙	PROPOSED STORM SEWER MANHOLE
---	EXISTING EASEMENT	—	PROPOSED INLINE DRAIN
---	PROPOSED EASEMENT	—	EXISTING 8" WATER MAIN
---	EXISTING BUILDING	—	PROPOSED 2" DOMESTIC SERVICE
---	PROPOSED BUILDING	—	PROPOSED 4" FIRE LINE
---	EXISTING CURB/GUTTER	—	EXISTING FIRE HYDRANT
---	PROPOSED CURB/GUTTER	—	PROPOSED FIRE HYDRANT
---	PROPOSED SPILL CURB/GUTTER	—	EXISTING WATER METER
---	PROPOSED TRANSITION CURB/GUTTER	—	PROPOSED METER/BACKFLOW VAULT
---	EXISTING RETAINING WALL	—	PROPOSED IRRIGATION MANHOLE
---	EXISTING 1-FEET CONTOUR	—	PROPOSED FENCE
---	EXISTING 5-FEET CONTOUR	—	EXISTING FENCE
---	PROPOSED 1-FEET CONTOUR	—	PROPOSED TRAFFIC FLOW
---	PROPOSED 5-FEET CONTOUR	—	GRADE BREAK
---	EXISTING GRAVEL	—	ROOF DRAIN (RD)
---	PROPOSED GRAVEL	—	STREET LIGHT POLE
---	EXISTING ASPHALT	—	FIRE DEPARTMENT CONNECTION
---	PROPOSED ASPHALT	—	PARKING LOT LIGHT
---	PROPOSED HEAVY DUTY ASPHALT	—	PROPOSED BUILDING LIGHT
---	EXISTING CONCRETE	—	POWER POLE
---	PROPOSED CONCRETE	—	FLOWLINE
---	PROPOSED HEAVY DUTY CONCRETE	—	EOP
---	EXISTING SANITARY SEWER	—	EDGE OF PAVEMENT
---	PROPOSED SANITARY SEWER	—	TOC
---	EXISTING SANITARY SEWER MANHOLE	—	TOP OF CONCRETE
---	PROPOSED SANITARY SEWER MANHOLE	—	TOW
---	EXISTING SANITARY SEWER CLEANOUT	—	TOP OF WALL
---	PROPOSED SANITARY SEWER CLEANOUT	—	BOW
---	EXISTING STORM SEWER	—	BOTTOM OF WALL
---	PROPOSED STORM SEWER	—	TBW
---	EXISTING STORM SEWER INLET	—	TOP BACK OF WALK
---	PROPOSED STORM SEWER INLET	—	TC
---	EXISTING STORM SEWER INLET	—	TOP OF CURB
---	PROPOSED STORM SEWER INLET	—	BOC
---	EXISTING STORM SEWER INLET	—	BACK OF CURB
---	PROPOSED STORM SEWER INLET	—	LANDSCAPE AREA
---	EXISTING STORM SEWER INLET	—	UTILITY PEDESTALS (TEL & ELEC)
---	PROPOSED STORM SEWER INLET	—	TRANSFORMER



NOTES:
1. ALL NEW SANITARY SEWER MANHOLES FOR THIS PROJECT WILL REQUIRE EPOXY COATED INVERTS PER CITY OF GRAND JUNCTION STANDARDS.

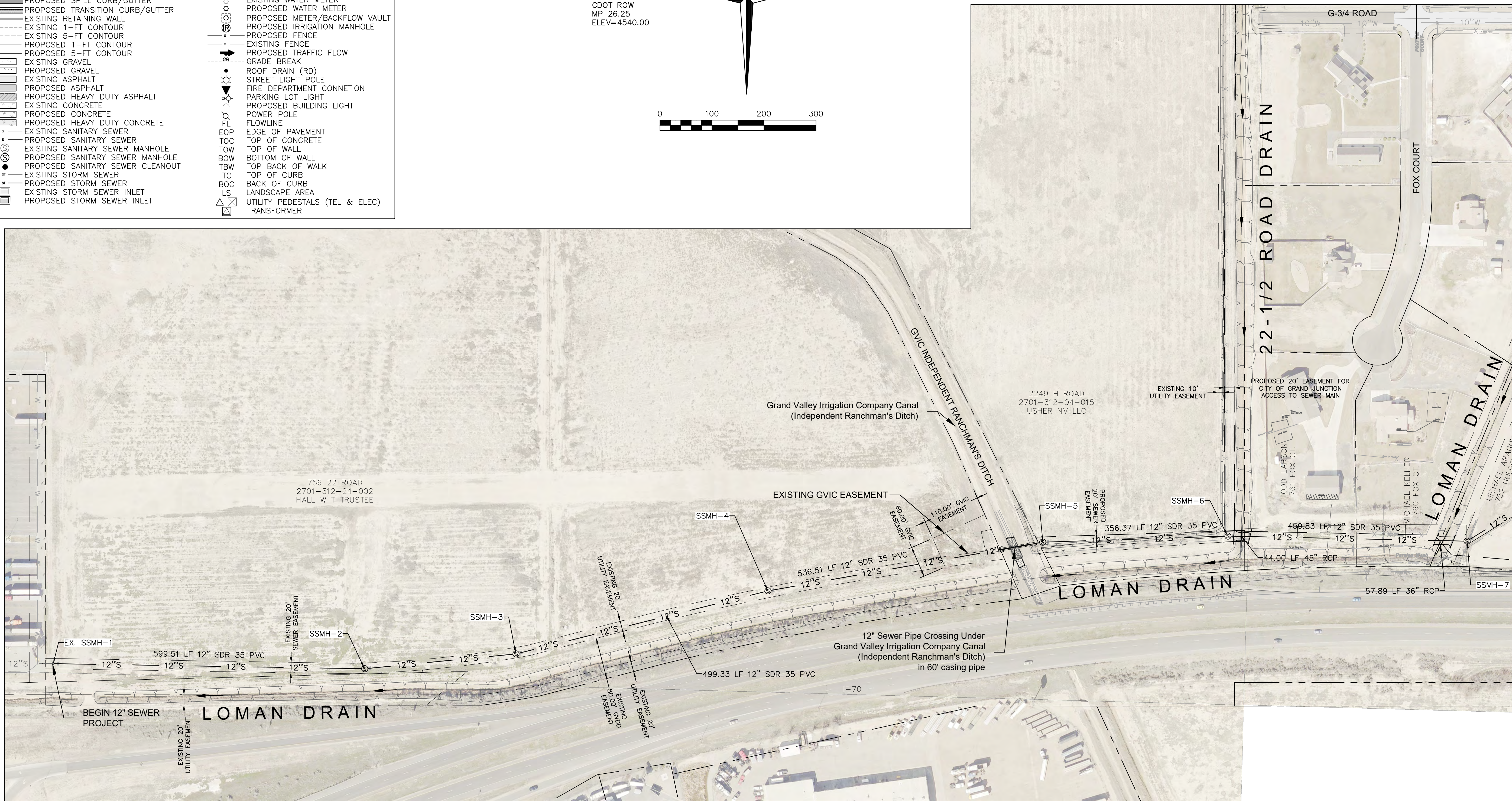
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2	MOVED SSMH-5	9-20-19	MRH

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23 ROAD TRUNK EXTENSION
UTILITY COMPOSITE PLAN - WEST
PROJECT # F092420
prepared for
CITY OF GRAND JUNCTION

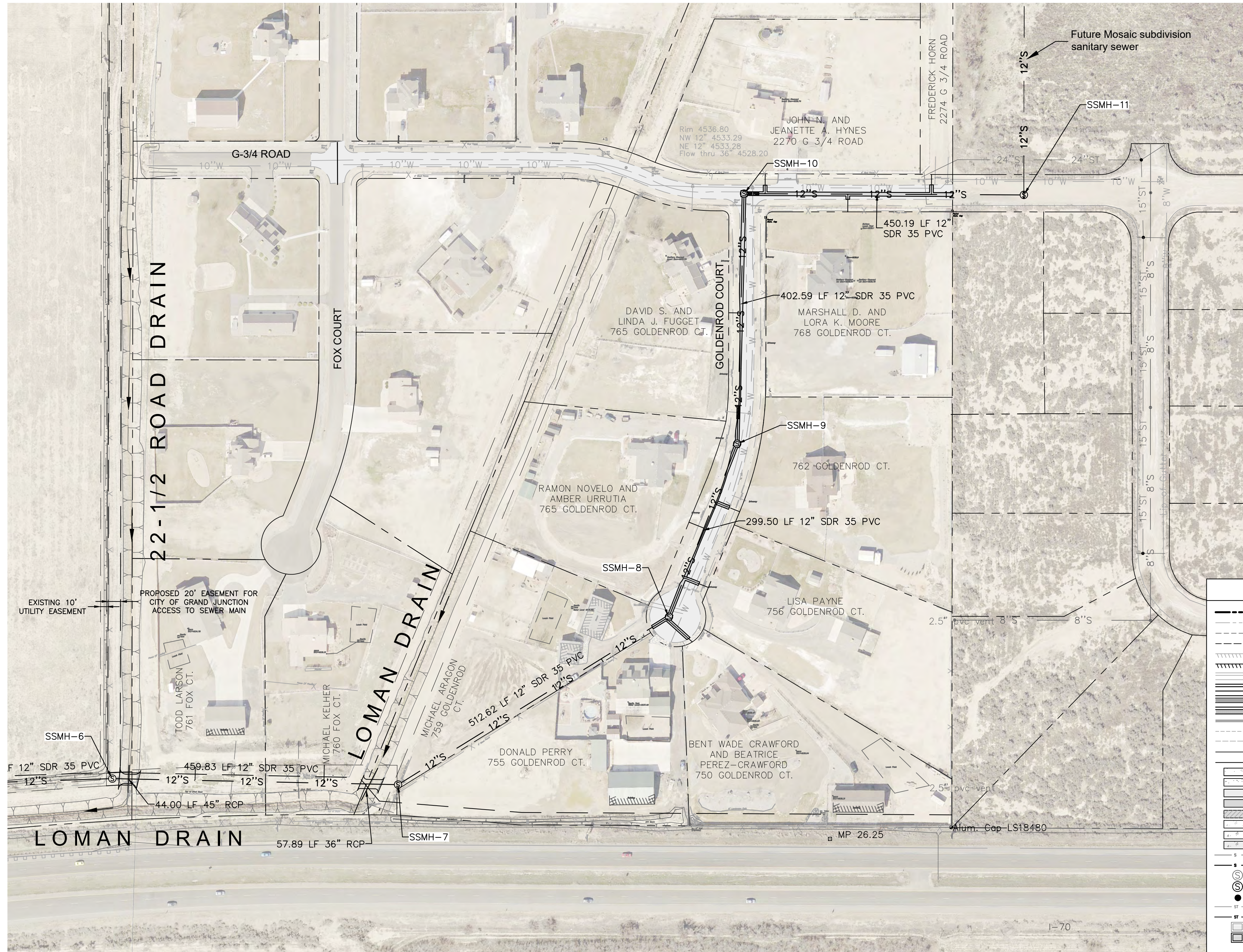
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JOB NUMBER:	1233.0001
DATE:	12-04-19
SCALE:	1" = 100'
SHEET NO.:	C-3



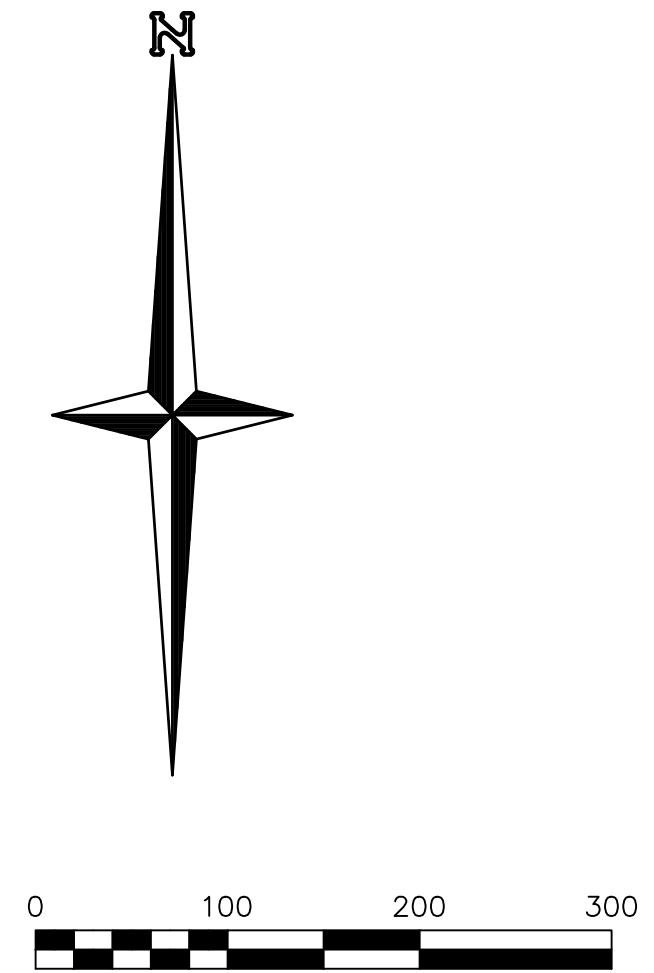
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CITY DEVELOPMENT ENGINEER DATE

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BENCHMARK
 3.5" ALUM CAP
 CDOT ROW
 MP 26.25
 ELEV=4540.00



NOTES:
 1. ALL NEW SANITARY SEWER MANHOLES FOR THIS PROJECT WILL REQUIRE EPOXY COATED INVERTS PER CITY OF GRAND JUNCTION STANDARDS.

LEGEND			
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- - -	ADJACENT PROPERTY LINE	⊙	PROPOSED STORM SEWER MANHOLE
- - -	EXISTING EASEMENT	⊙	PROPOSED INLINE DRAIN
- - -	PROPOSED EASEMENT	⊙	EXISTING 8" WATER MAIN
▨	EXISTING BUILDING	⊙	PROPOSED 2" DOMESTIC SERVICE
▨	PROPOSED BUILDING	⊙	PROPOSED 4" FIRE LINE
▨	EXISTING CURB/GUTTER	⊙	EXISTING FIRE HYDRANT
▨	PROPOSED CURB/GUTTER	⊙	PROPOSED FIRE HYDRANT
▨	PROPOSED SPILL CURB/GUTTER	⊙	EXISTING WATER METER
▨	PROPOSED TRANSITION CURB/GUTTER	⊙	PROPOSED WATER METER
▨	EXISTING RETAINING WALL	⊙	PROPOSED METER/BACKFLOW VAULT
▨	EXISTING 1-FIT CONTOUR	⊙	PROPOSED IRRIGATION MANHOLE
▨	PROPOSED 1-FIT CONTOUR	⊙	PROPOSED FENCE
▨	EXISTING 5-FIT CONTOUR	⊙	EXISTING FENCE
▨	PROPOSED 5-FIT CONTOUR	⊙	PROPOSED TRAFFIC FLOW
▨	EXISTING GRAVEL	⊙	GRADE BREAK
▨	PROPOSED GRAVEL	⊙	ROOF DRAIN (RD)
▨	EXISTING ASPHALT	⊙	STREET LIGHT POLE
▨	PROPOSED ASPHALT	⊙	FIRE DEPARTMENT CONNECTION
▨	PROPOSED HEAVY DUTY ASPHALT	⊙	PARKING LOT LIGHT
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▨	PROPOSED CONCRETE	⊙	POWER POLE
▨	PROPOSED HEAVY DUTY CONCRETE	⊙	FLOWLINE
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⊙	PROPOSED SANITARY SEWER	⊙	TOC
⊙	EXISTING SANITARY SEWER MANHOLE	⊙	TOW
⊙	PROPOSED SANITARY SEWER MANHOLE	⊙	BOW
⊙	PROPOSED SANITARY SEWER CLEANOUT	⊙	TBW
⊙	EXISTING STORM SEWER	⊙	TC
⊙	PROPOSED STORM SEWER	⊙	BOC
⊙	EXISTING STORM SEWER INLET	⊙	LS
⊙	PROPOSED STORM SEWER INLET	⊙	UTILITY PEDESTALS (TEL & ELEC)
		⊙	TRANSFORMER

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23 ROAD TRUNK EXTENSION
 UTILITY COMPOSITE
 PLAN - EAST
 PROJECT # F092420
 prepared for
CITY OF GRAND JUNCTION

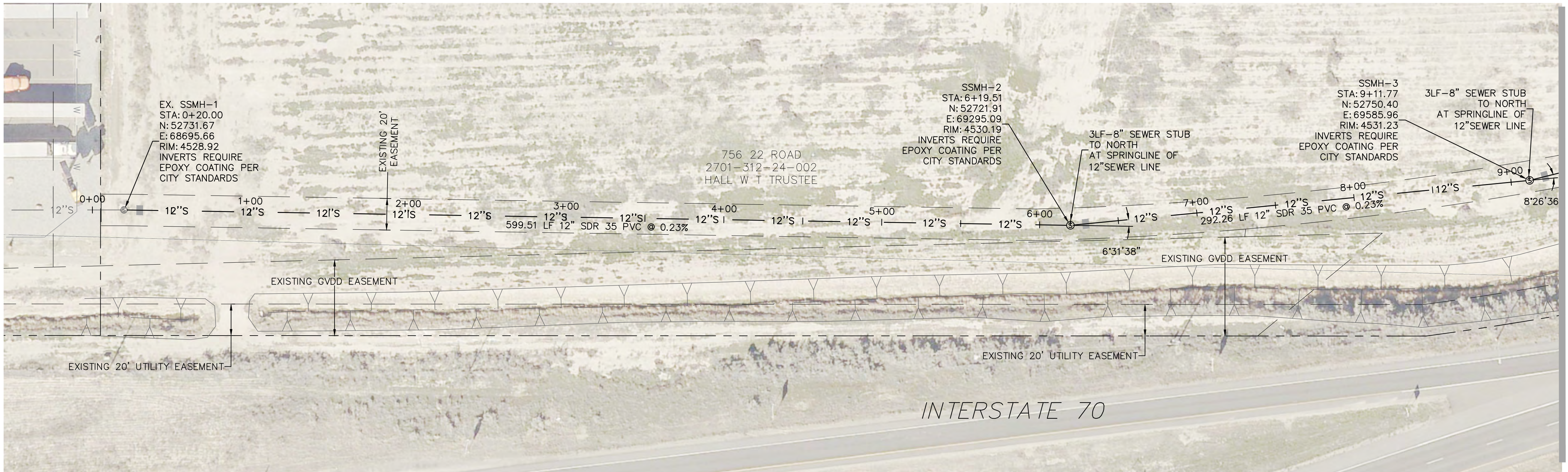
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DATE:	12-04-19
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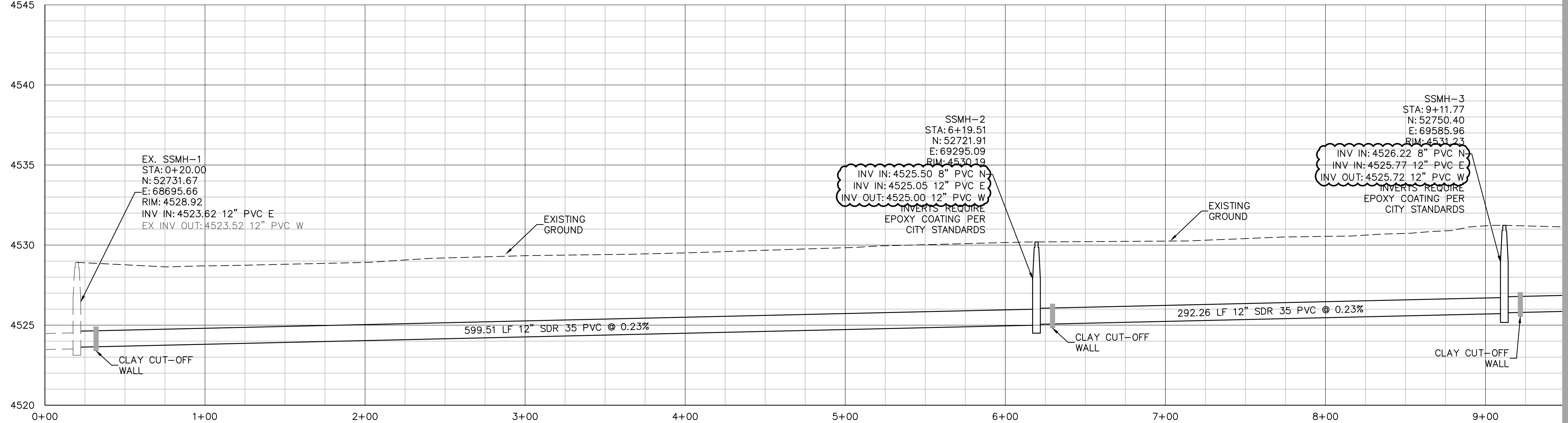
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CITY DEVELOPMENT ENGINEER DATE

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MATCH LINE SS-2 - STA: 9+50

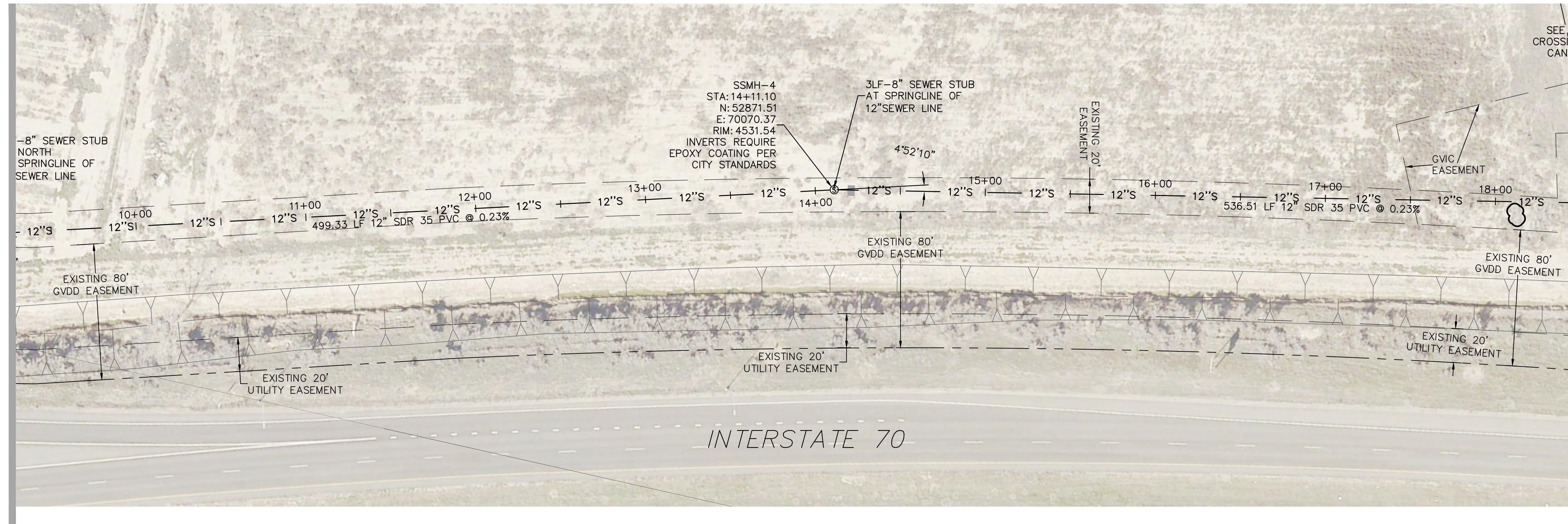


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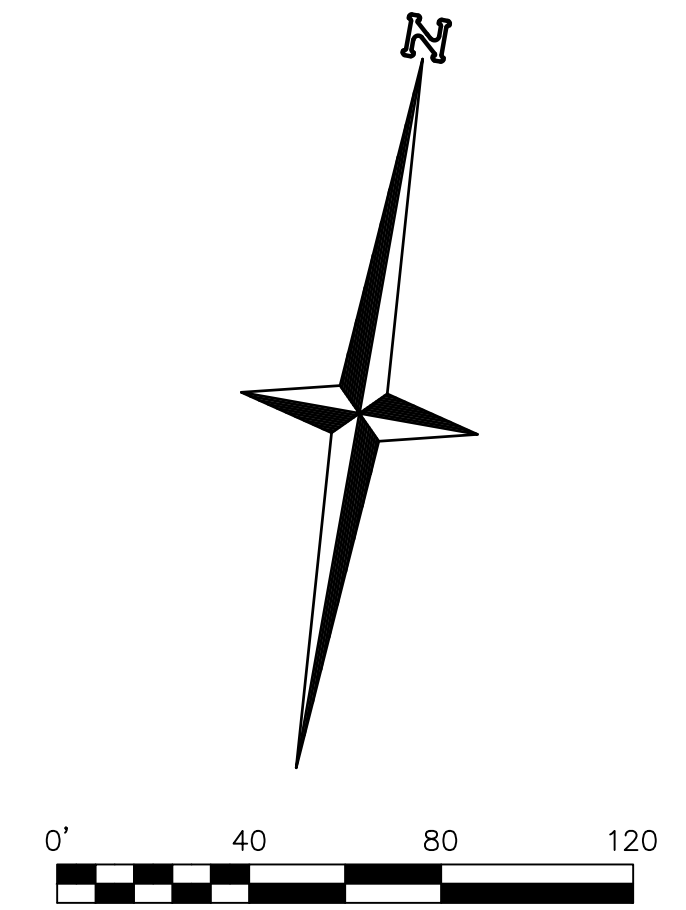
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NO.	REVISIONS
1	REVISED SEWER LINE ELEVATIONS
2	REVISED PER COMMENTS
BY	DATE
LMS	9-13-17
MRA	11-21-18
<p>A · C · G AUSTIN CIVIL GROUP, INC Land Planning • Civil Engineering • Development Services 123 N. 7th Street, Suite 300 • Grand Junction, Colorado 81501 (970) 242-7540</p>	
<p>23 ROAD TRUNK EXTENSION SANITARY SEWER LINE 1 STA: 0+00 TO STA: 9+50 PROJECT #: F092420 prepared for CITY OF GRAND JUNCTION</p>	
DRAWN BY:	LMS
DESIGNED BY:	LMS
CHECKED BY:	MRA
APPROVED BY:	MRA
JOB NUMBER:	1233.0001
DATE:	12-04-19
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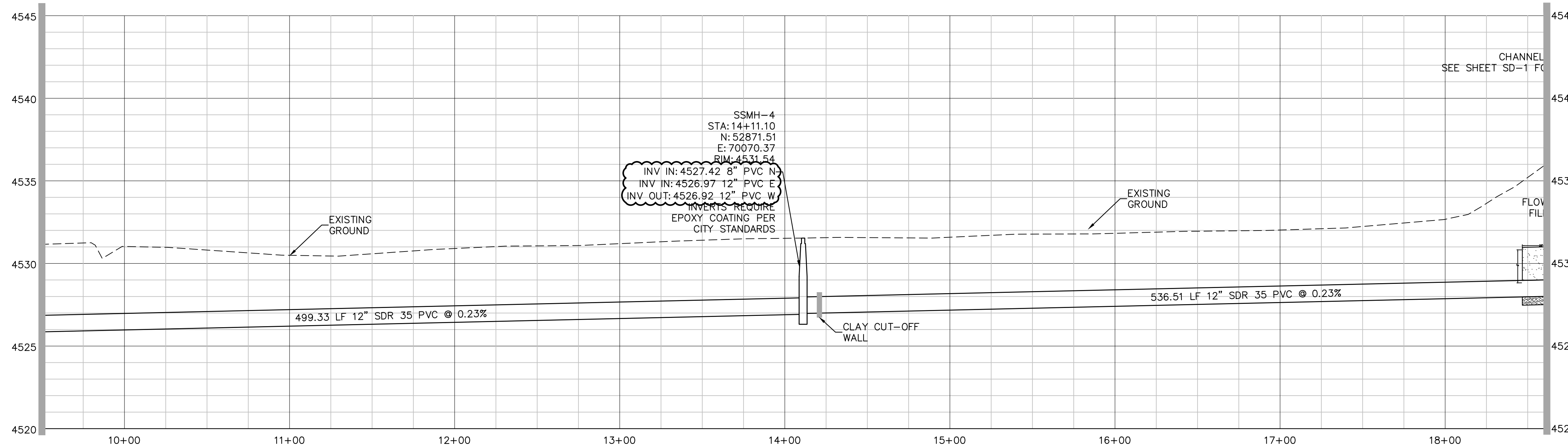
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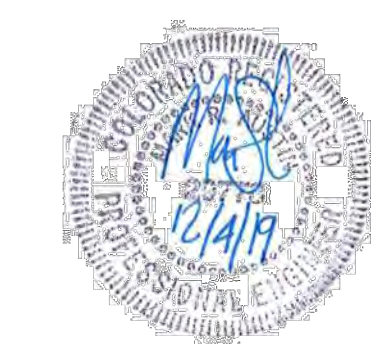
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MATCH LINE SS-3 - STA: 18+50

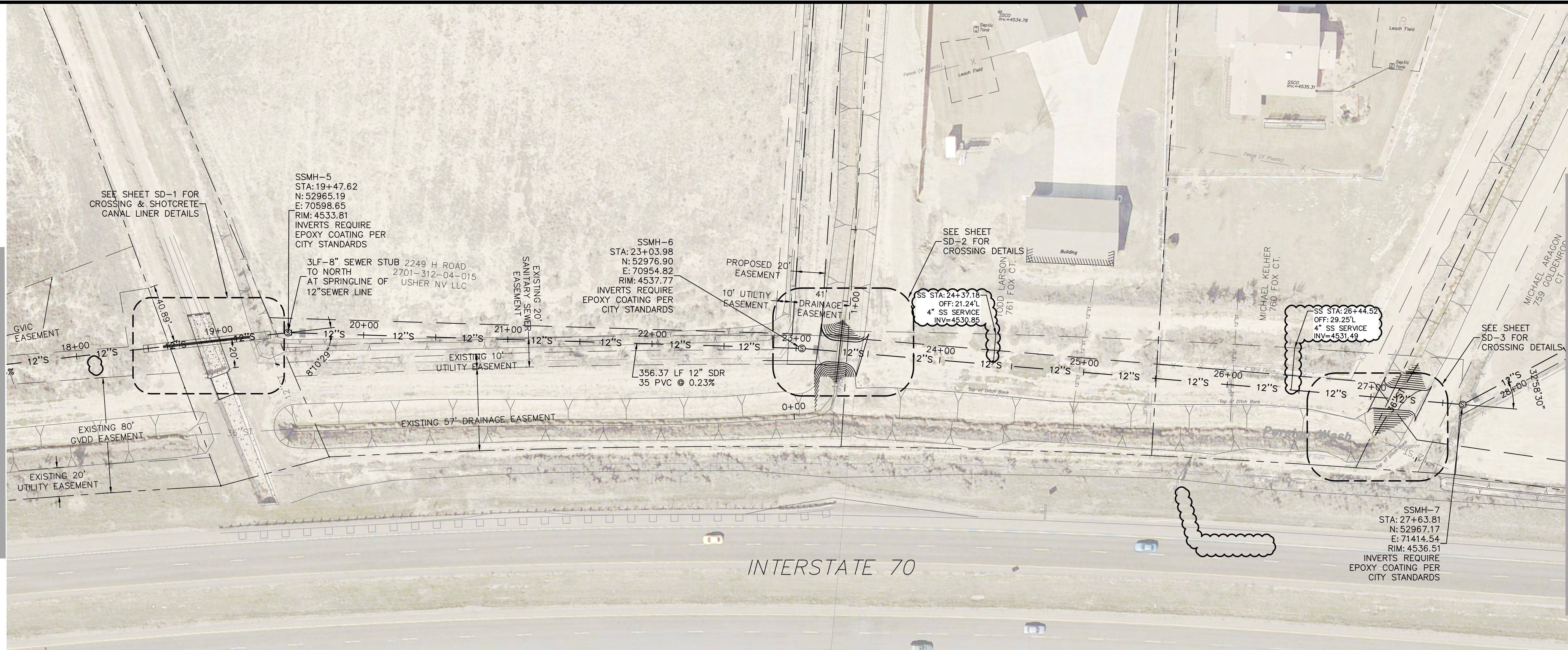


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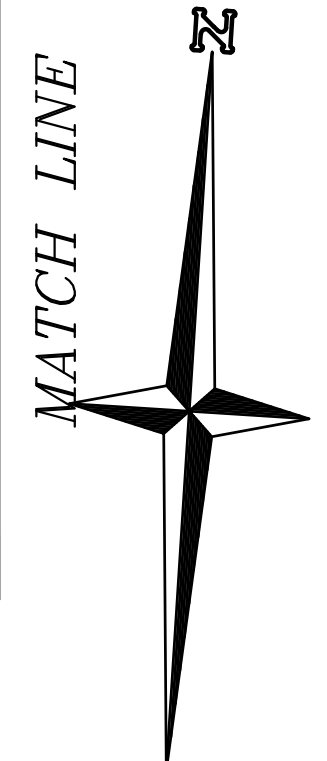
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<p>NO. 2</p>	<p>DATE 11-21-18</p>	<p>BY LMS</p>										
<p>NO. 3</p>	<p>DATE 9-20-19</p>	<p>BY MRA</p>										
<p>NO. 4</p>	<p>DATE 11-26-19</p>	<p>BY MRA</p>										
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NO.	DESCRIPTION											
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2	REVISED PER COMMENTS											
3	MOVED SSMH-5											
4	REVISED PER COMMENTS											
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<p>23 ROAD TRUNK EXTENSION SANITARY SEWER LINE 1 STA: 9+50 TO STA: 18+50 PROJECT #: F092420 prepared for CITY OF GRAND JUNCTION</p>												
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MATCH LINE SS-3 - STA: 28+00



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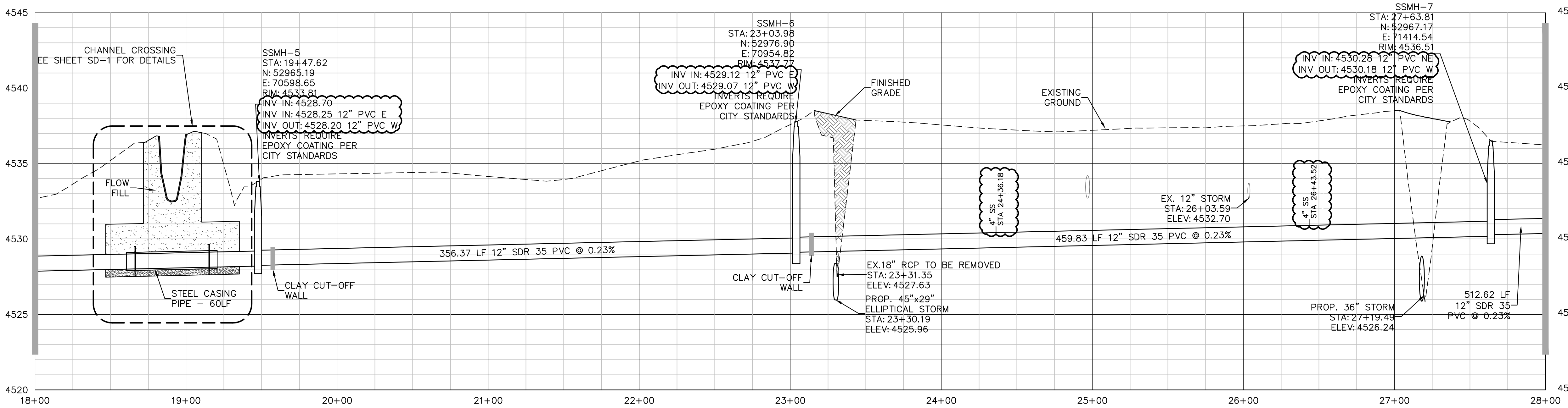
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NO.	REVISIONS	DATE	BY
1	REVISED SEWER LINE ELEVATIONS	9-13-17	LMS
2	ADDED STORM LINE & CHANNEL X-ING	1-10-18	LMS
3	SHOW EXIST. STORM LINE & CHANNEL X-ING	4-23-18	LMS
4	REVISED PER COMMENTS	11-21-18	LMS
5	MOVED SSMH-5, FLOWMILL, CASING & SHOTCRETE	10-21-19	MRA
6	REVISED PER COMMENTS	11-26-19	MRA

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MATCH LINE SS-4 STA: 28+00

BENCHMARK
3.5" ALUM CAP
CDOT ROW
MP 26.25
ELEV=4540.00



23 ROAD TRUNK EXTENSION
SANITARY SEWER LINE 1
STA: 18+50 TO 28+00
PROJECT #: F092420
prepared for
CITY OF GRAND JUNCTION

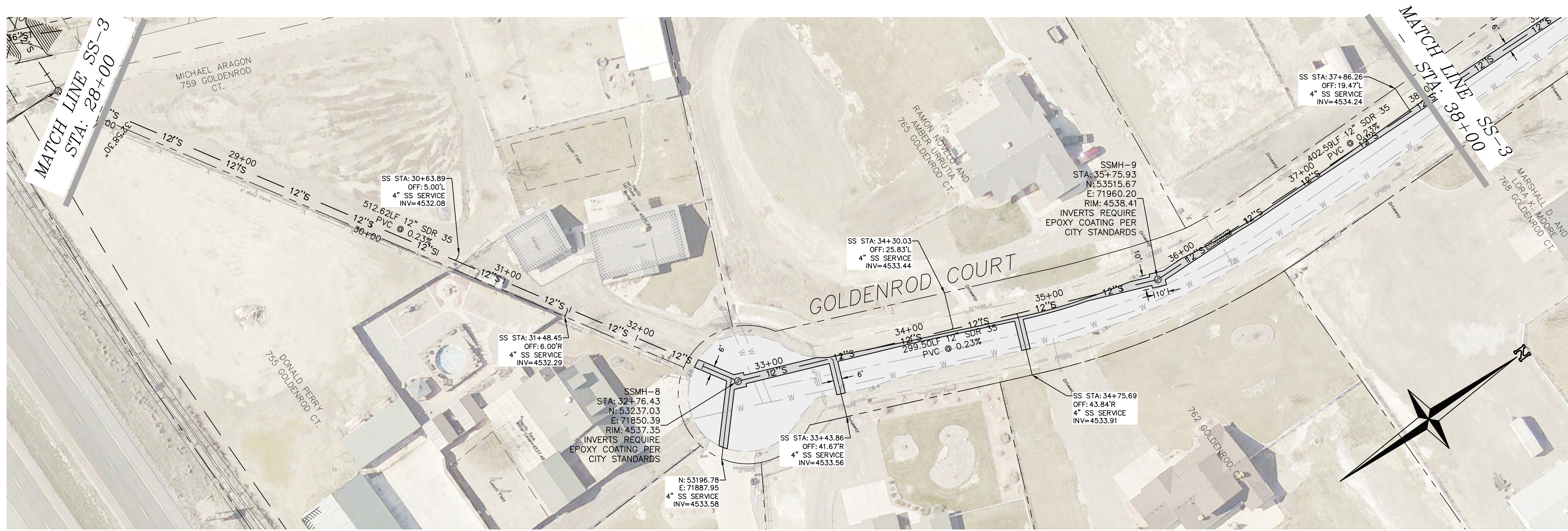
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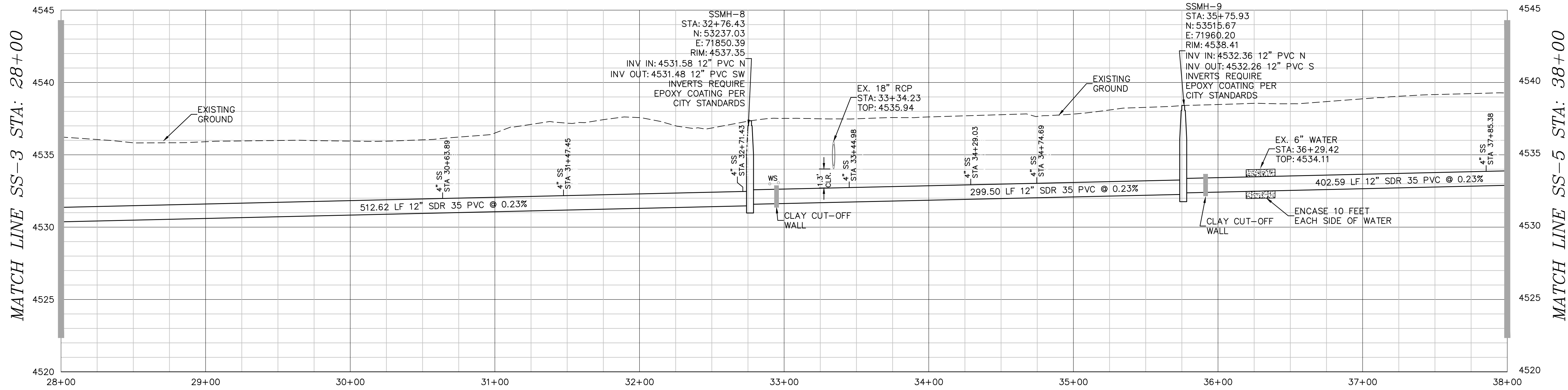
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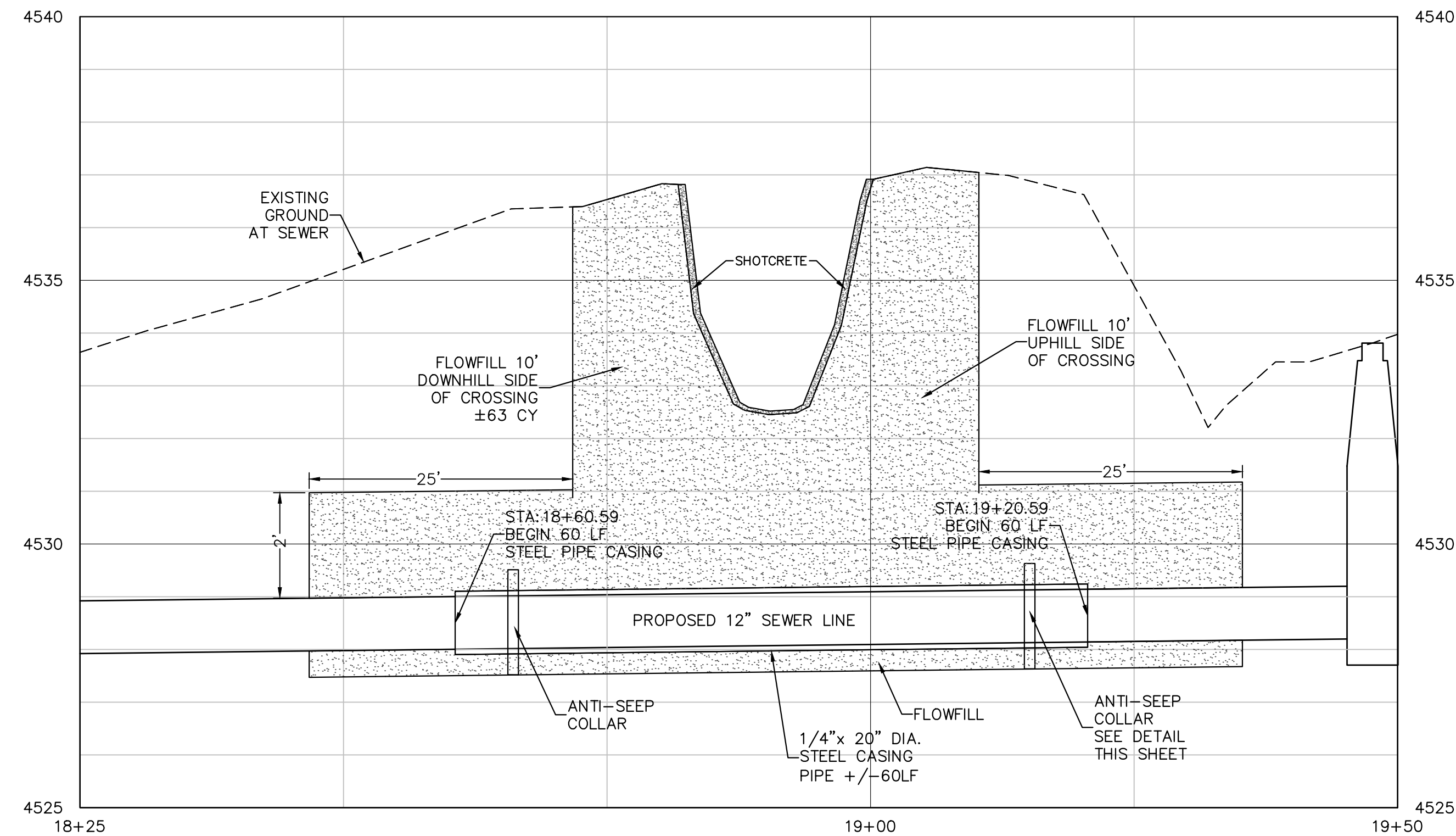
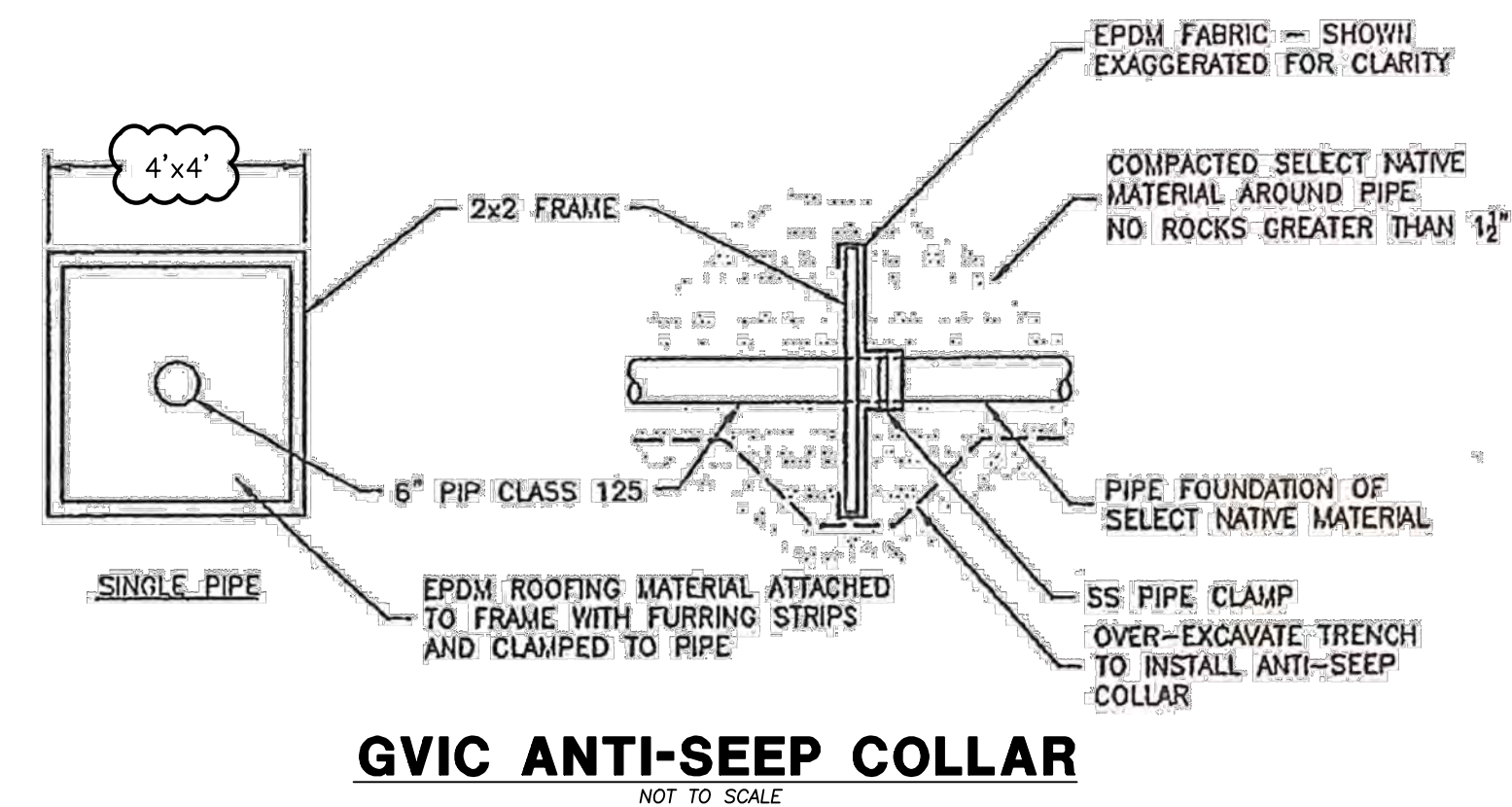
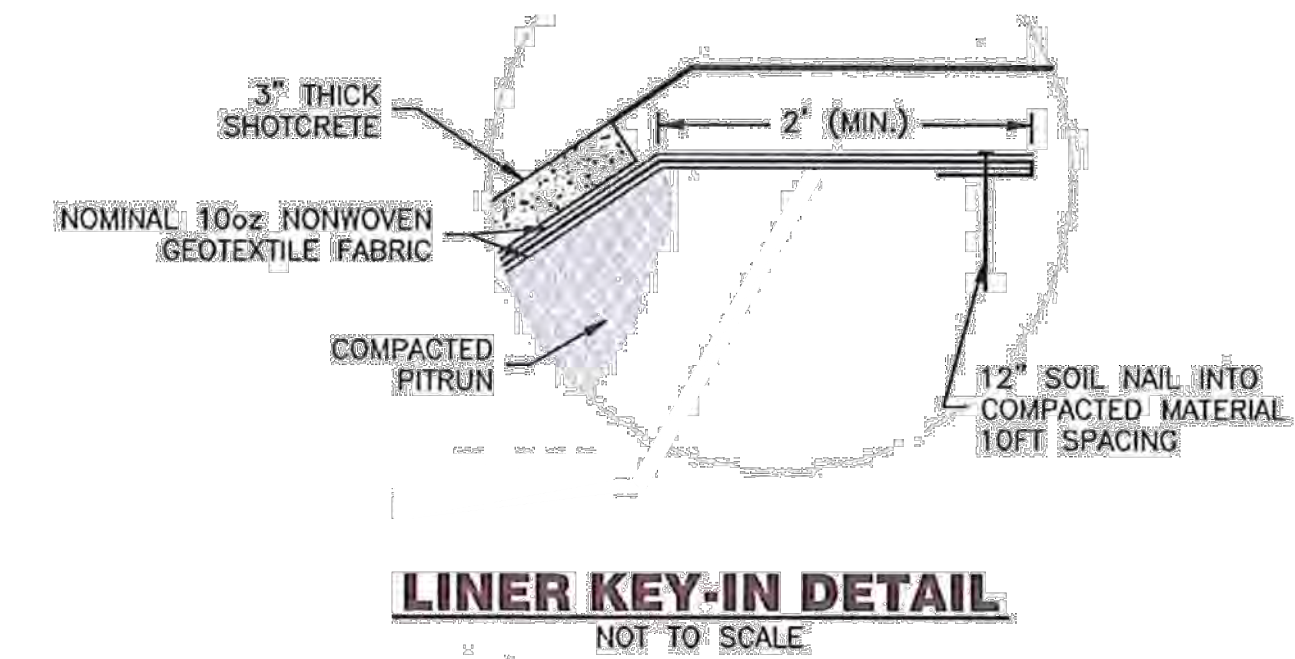
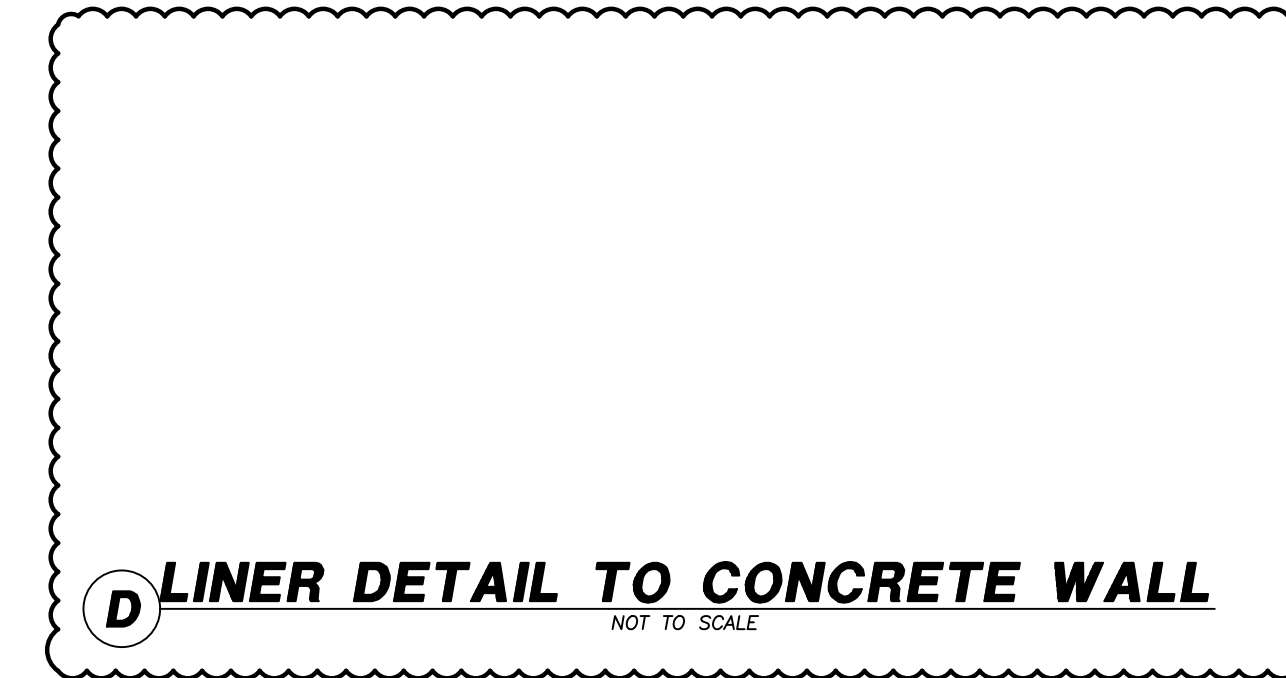
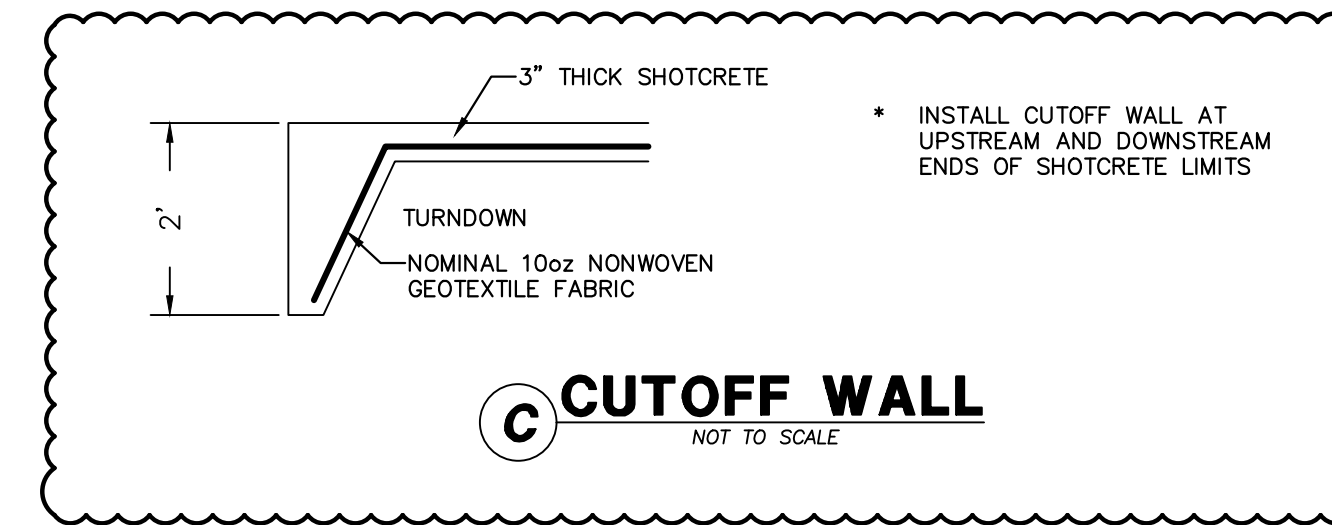
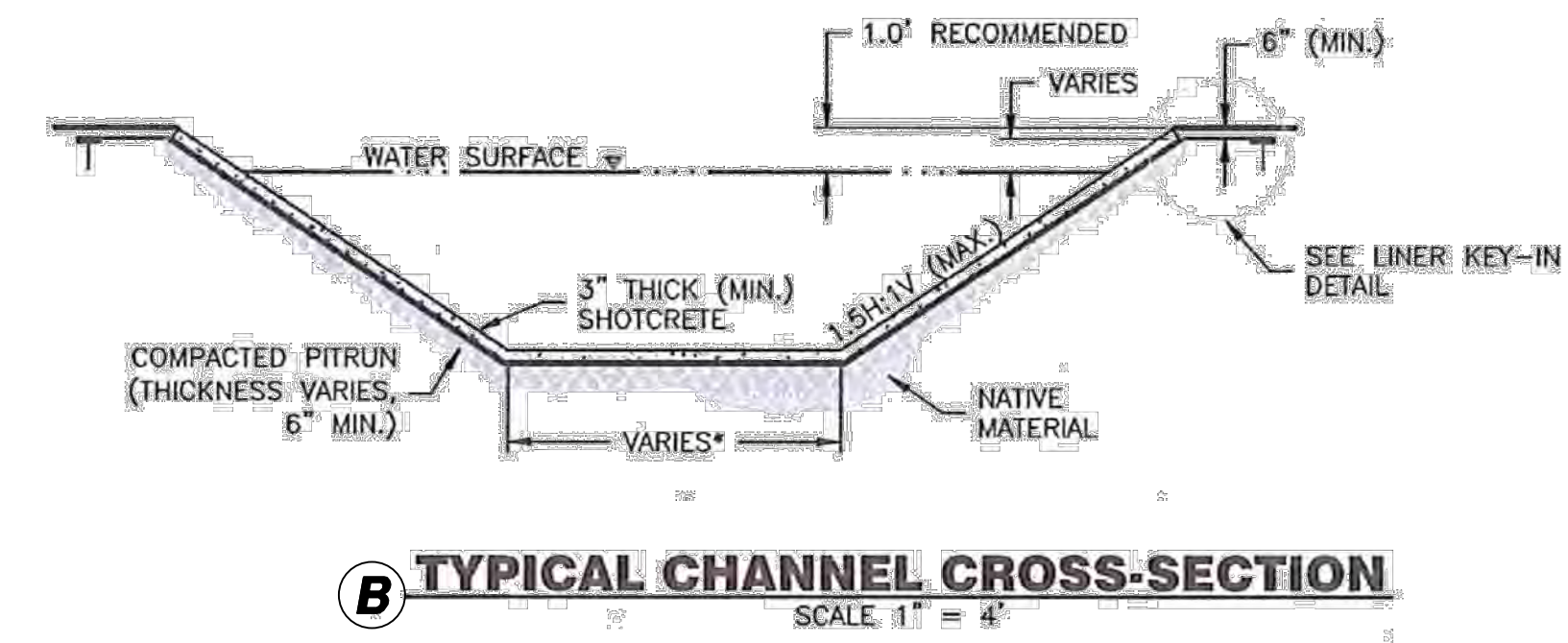
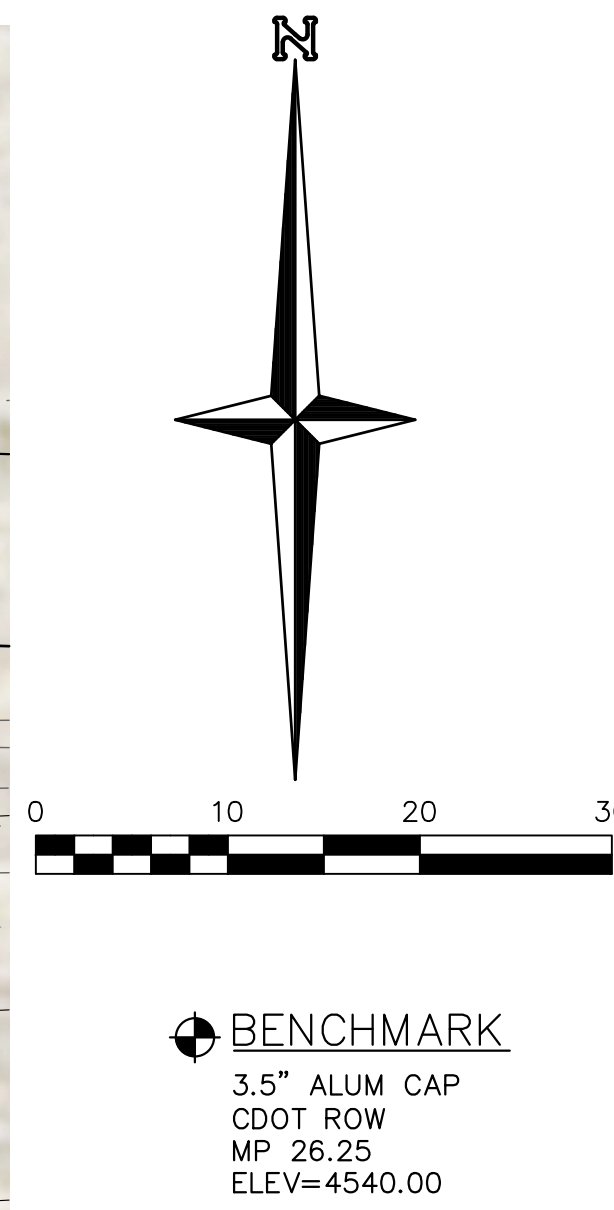
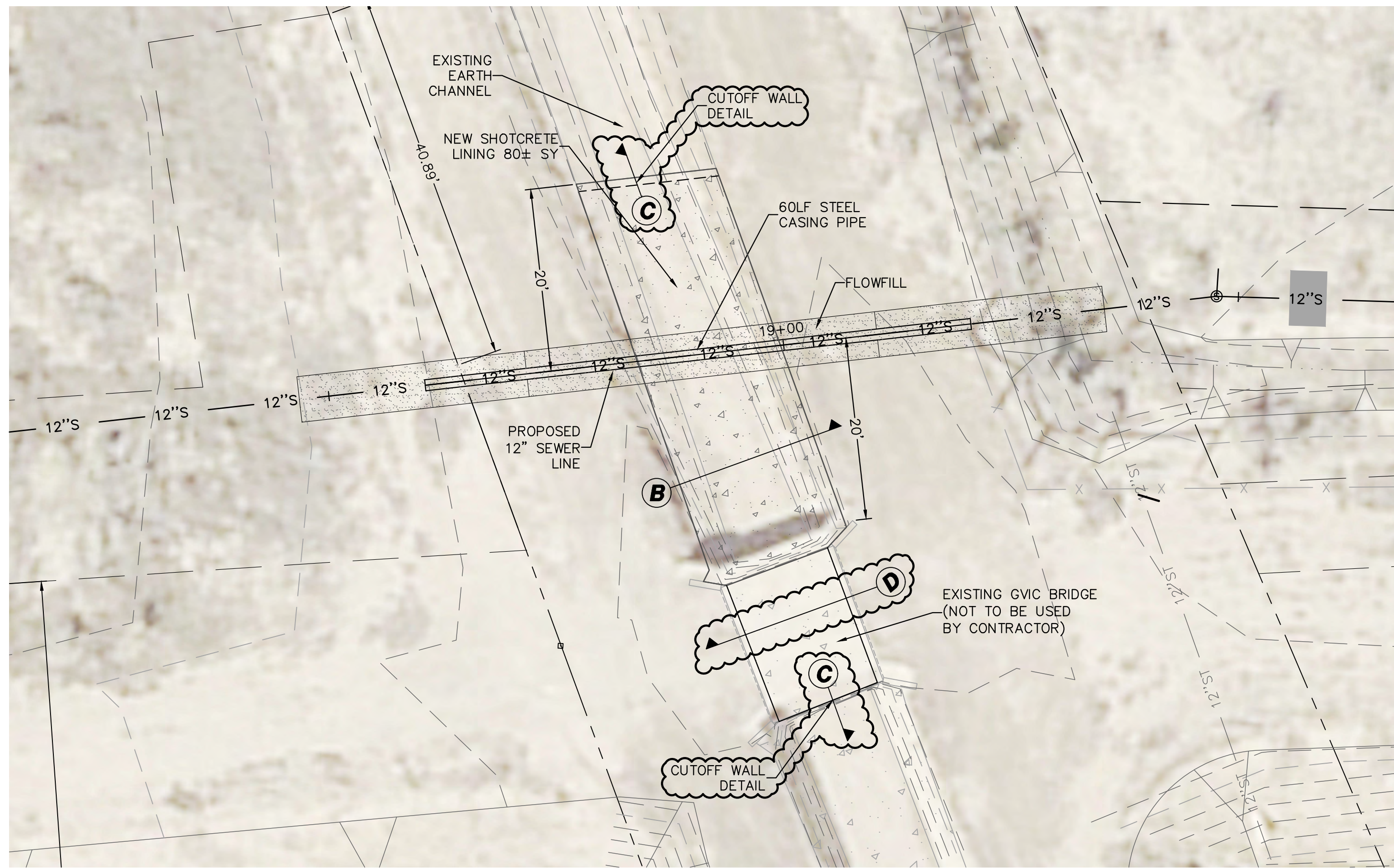
BENCHMARK
 3.5" ALUM CAP
 CDOT ROW
 MP 26.25
 ELEV=4540.00



ACCEPTANCE BLOCK
 THE CITY OF GRAND JUNCTION REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE CITY'S DEVELOPMENT STANDARDS, SUBJECT TO THEIR PLACING BEING SEALED, SIGNED, AND DATED BY THE PROFESSIONAL OF RECORD. REVIEW BY THE CITY DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN. THE CITY NEITHER ACCEPTS NOR ASSUMES ANY LIABILITY FOR ERRORS OR OMISSIONS, ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD.
 CONSTRUCTION MUST COMMENCE WITHIN ONE YEAR FROM THE DATE OF PLAN SIGNATURE.

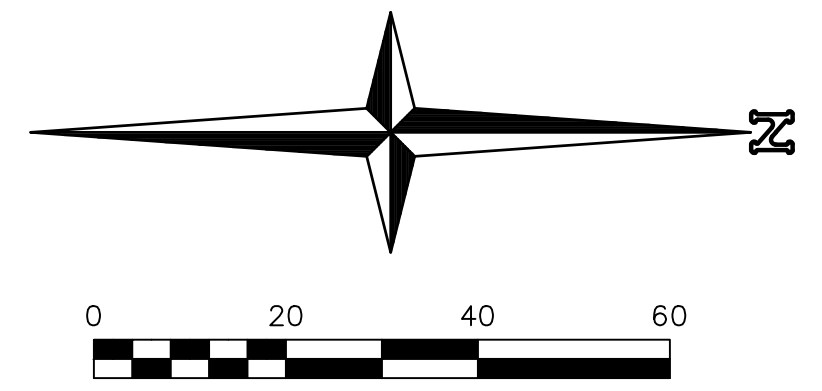
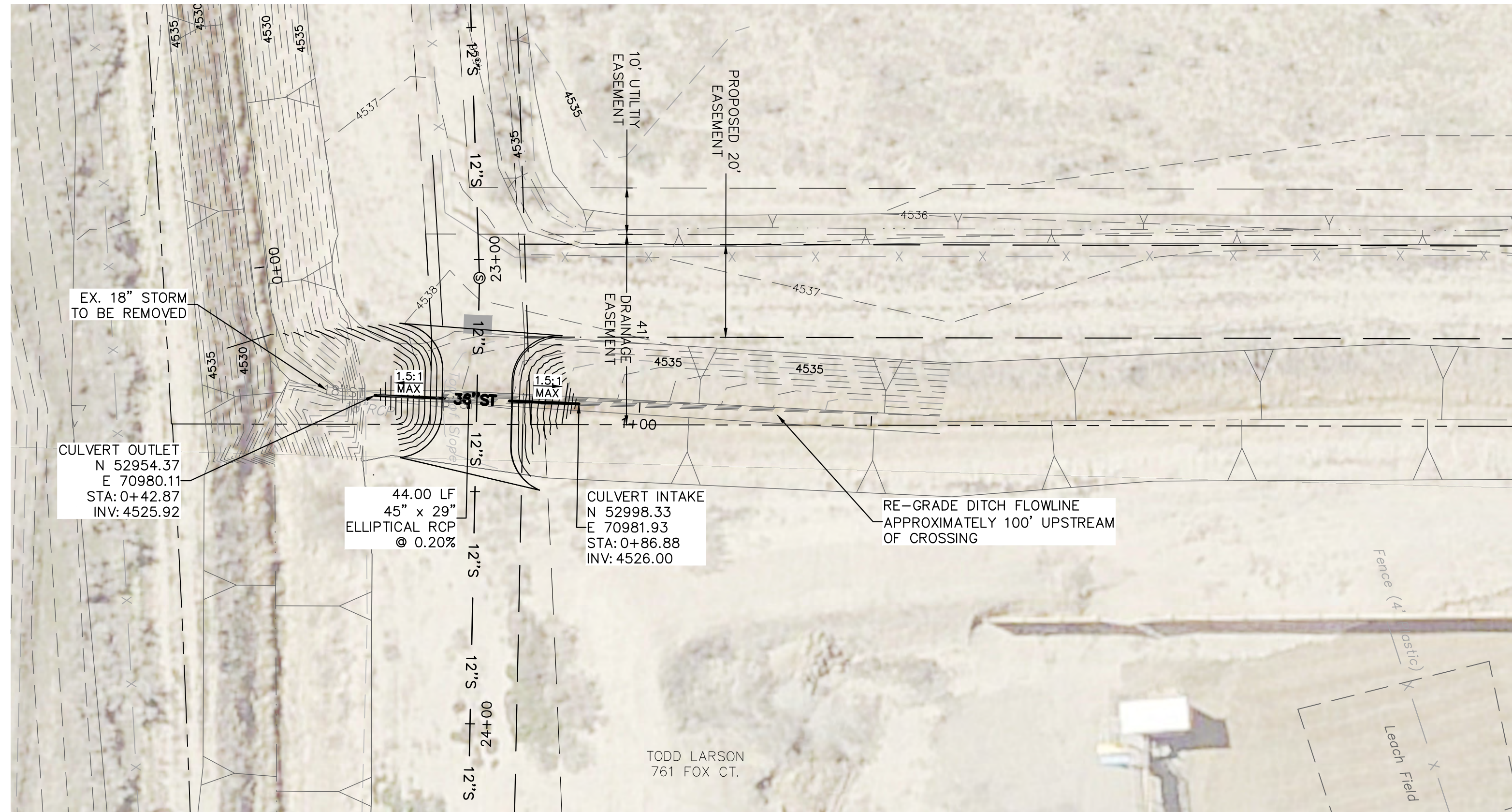
<p>Know what's below. Call before you dig.</p>	
<p>SCALE VERIFICATION BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY</p>	
NO.	REVISIONS
1	GENERATED ADDITIONAL P&P SHEETS
DATE	BY
11-26-19	MRH
<p>A · C · G AUSTIN CIVIL GROUP, INC Land Planning • Civil Engineering • Development Services 123 N. 7th Street, Suite 300 • Grand Junction, Colorado 81501 (970) 242-7540</p>	
<p>23 ROAD TRUNK EXTENSION description SANITARY SEWER LINE 1 STA: 28+00 TO STA: 38+00 PROJECT # F092420 prepared for CITY OF GRAND JUNCTION</p>	
DRAWN BY:	LMS
DESIGNED BY:	LMS
CHECKED BY:	MRA
APPROVED BY:	MRA
JOB NUMBER:	1233.0001
DATE:	12-04-19
SCALE:	1" = 40'
SHEET NO.:	SS-4

M:\PROJECTS\1233\0001 Taurus of Texas Swr Ext\DWG\C3d\Production Dwg\PROP-UTILITIES-SWR EXT.dwg, SD-1, 12/5/2019 6:09:59 PM

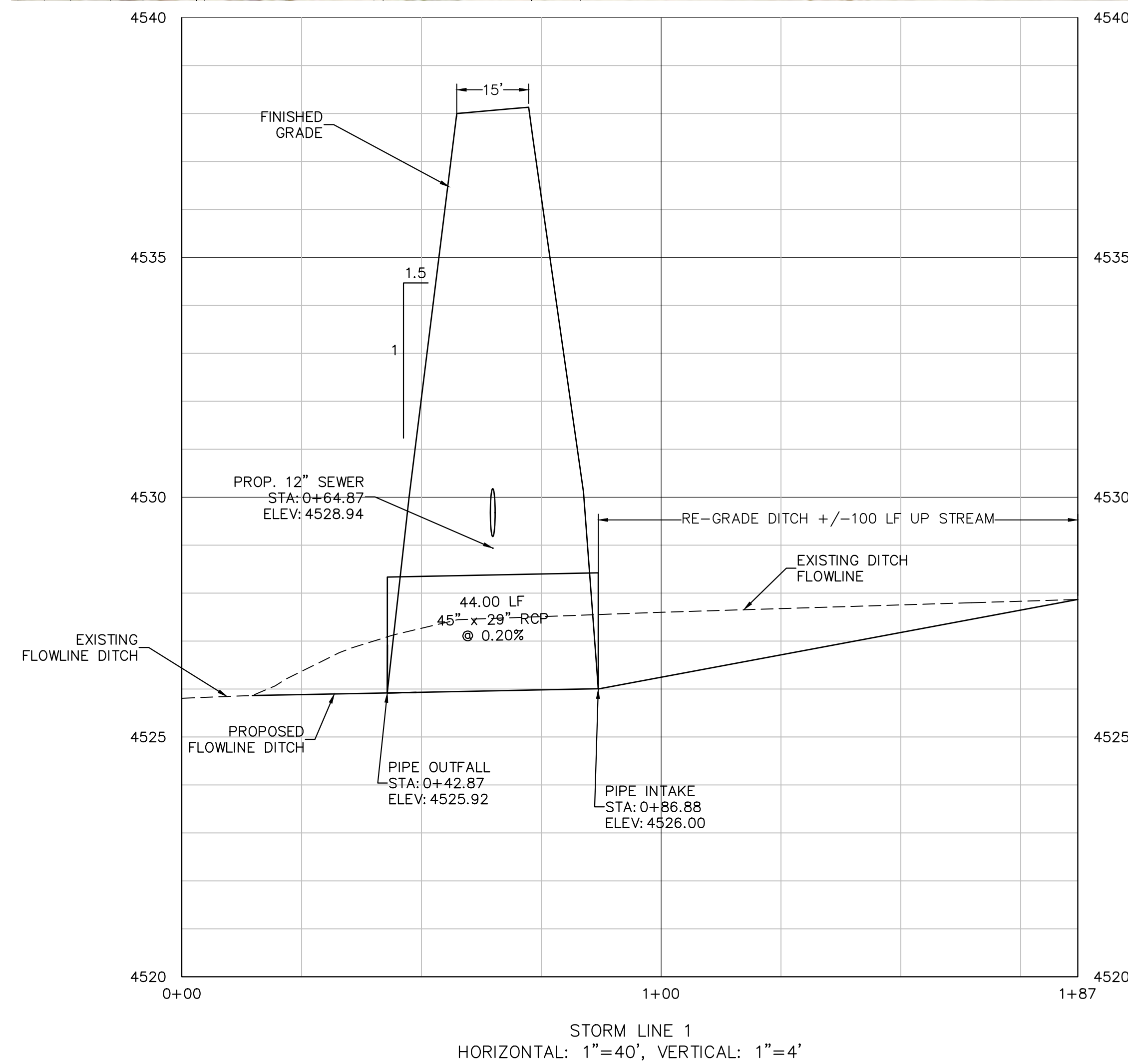


BRIDGE/CHANNEL CROSSING
HORIZONTAL: 1"=10', VERTICAL: 1"=2'

<p>Know what's below. Call before you dig.</p> <p>SCALE VERIFICATION BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY</p>			
NO.	REVISIONS	DATE	BY
1	REVISED SEWER LINE ELEVATIONS	9-13-17	LMS
2	ADD STEEL PIPE CASING BRIDGE/CHANNEL X-ING	1-10-18	LMS
3	SHOW EX. STORM AT CHANNEL X-ING	4-23-18	LMS
4	REVISED PER COMMENTS	11-21-18	LMS
5	MOVED FLOWFILL, CASING & ADDED SHOTCRETE	10-20-19	MRH
6	REVISED PER COMMENTS	11-26-19	MRH
<p>A · C · G</p> <p>AUSTIN CIVIL GROUP, INC</p> <p>Land Planning • Civil Engineering • Development Services 123 N. 7th Street, Suite 300 • Grand Junction, Colorado 81501 (970) 242-7540</p>			
<p>23 ROAD TRUNK EXTENSION</p> <p>BRIDGE/CHANNEL CROSSING</p> <p>PROJECT # F092420</p> <p>prepared for CITY OF GRAND JUNCTION</p>		<p>DRAWN BY: LMS</p> <p>DESIGNED BY: LMS</p> <p>CHECKED BY: MRA</p> <p>APPROVED BY: MRA</p>	
<p>JOB NUMBER: 1233.0001</p> <p>DATE: 12-04-19</p> <p>SCALE: AS SHOWN</p> <p>SHEET NO: SD-1</p>		<p>ACCEPTANCE BLOCK</p> <p>THE CITY OF GRAND JUNCTION REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE CITY'S DEVELOPMENT STANDARDS, SUBJECT TO THEIR PLANS BEING SCALED, SIGNED, AND DATED BY THE PROFESSIONAL OF RECORD. REVIEW BY THE CITY DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN. THE CITY NEITHER ACCEPTS NOR ASSUMES ANY LIABILITY FOR ERRORS OR OMISSIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD.</p> <p>CONSTRUCTION MUST COMMENCE WITHIN ONE YEAR FROM THE DATE OF PLAN SIGNATURE.</p> <p>CITY DEVELOPMENT ENGINEER DATE</p>	



BENCHMARK
 3.5" ALUM CAP
 CDOT ROW
 MP 26.25
 ELEV=4540.00



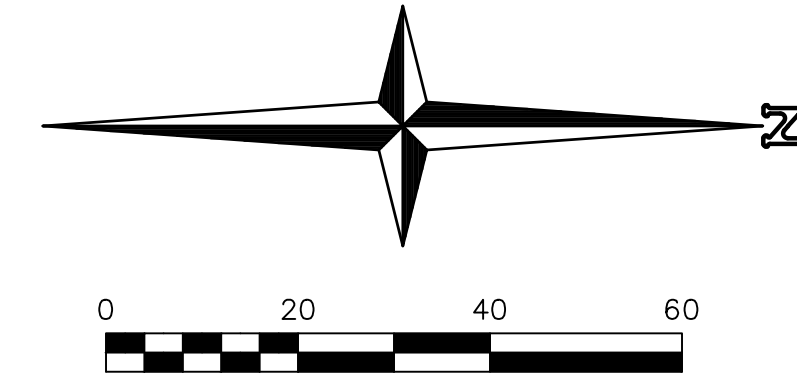
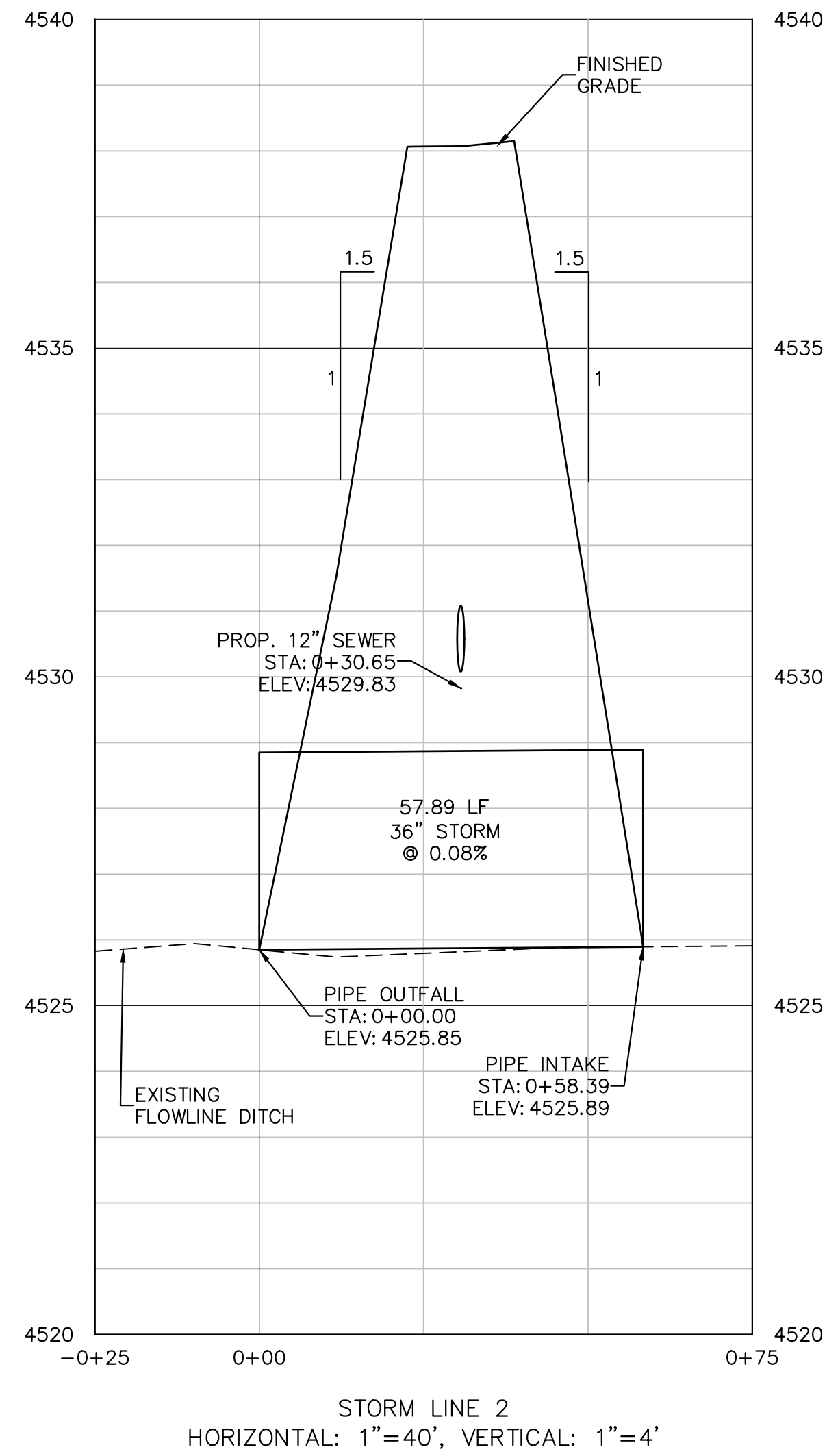
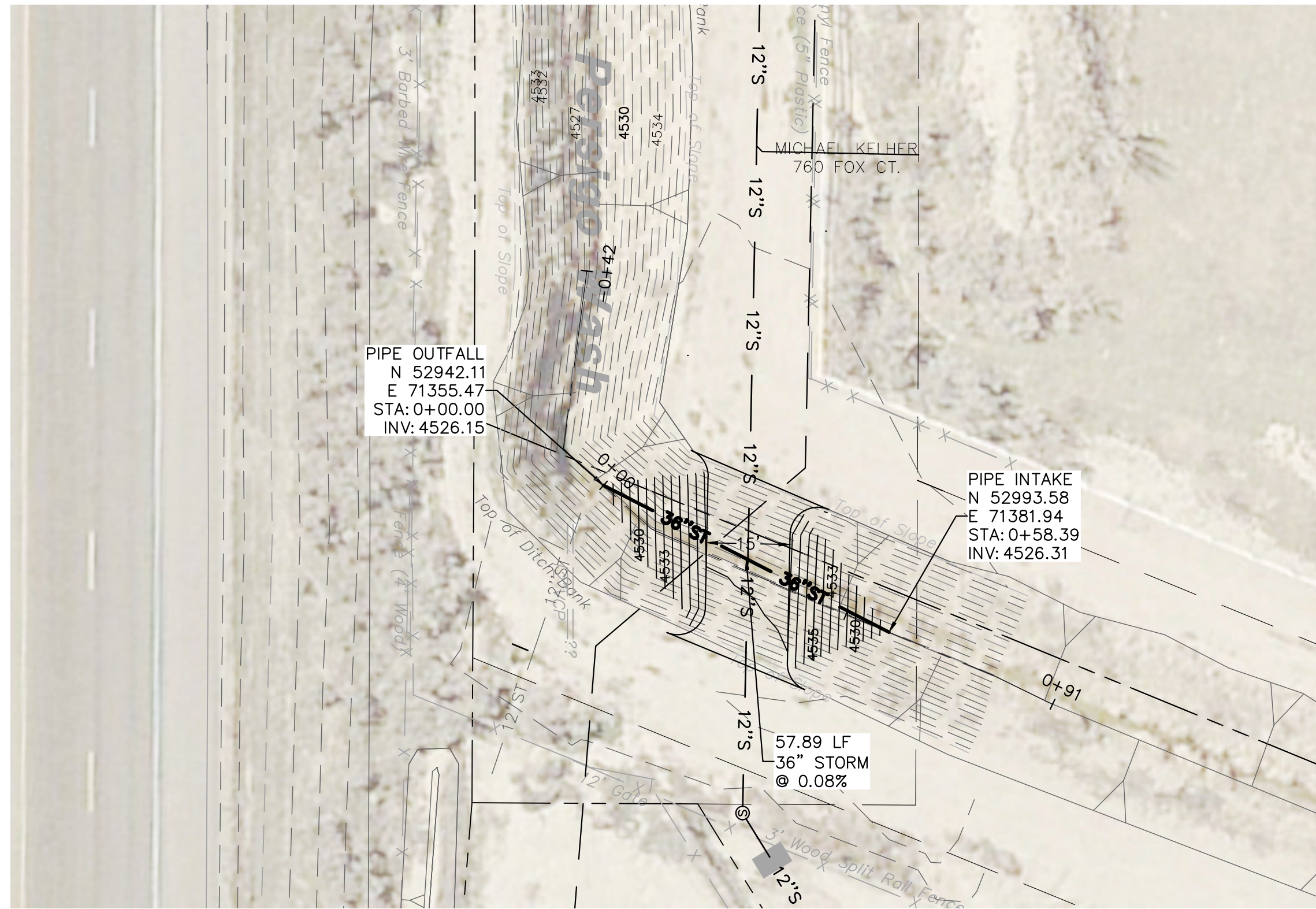
STORM LINE 1
 HORIZONTAL: 1"=40', VERTICAL: 1"=4'



ACCEPTANCE BLOCK
 THE CITY OF GRAND JUNCTION REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE CITY'S DEVELOPMENT STANDARDS, SUBJECT TO THESE PLANS BEING SEALED, SIGNED, AND DATED BY THE PROFESSIONAL OF RECORD. REVIEW BY THE CITY DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN. THE CITY NEITHER ACCEPTS NOR ASSUMES ANY LIABILITY FOR ERRORS OR OMISSIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD.
 CONSTRUCTION MUST COMMENCE WITHIN ONE YEAR FROM THE DATE OF PLAN SIGNATURE.

CITY DEVELOPMENT ENGINEER DATE

23 ROAD TRUNK EXTENSION		STORM LINE 1		PROJECT #: F092420		CITY OF GRAND JUNCTION	
DRAWN BY: LMS		DESIGNED BY: LMS		CHECKED BY: MRA		APPROVED BY: MRA	
JOB NUMBER: 1233.0001		DATE: 12-04-19		SCALE: AS SHOWN		SHEET NO: SD-2	
A · C · G AUSTIN CIVIL GROUP, INC Land Planning • Civil Engineering • Development Services 123 N. 7th Street, Suite 300 • Grand Junction, Colorado 81501 (970) 242-7540		REVISIONS NO. DESCRIPTION 1 REVISED SEWER LINE ELEVATIONS 2 ADD STEEL PIPE CASING BRIDGE/CHANNEL X-ING 3 SHOW EX. STORM AT CHANNEL X-ING 4 REVISED PER COMMENTS 5 MOVED FLOWLINE, CASING & ADDED SHOTCRETE		DATE BY 9-13-17 LMS 1-10-18 LMS 4-23-18 LMS 11-21-18 LMS 10-21-19 MRA		Know what's below. Call before you dig. 811	
		SCALE VERIFICATION BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY					



BENCHMARK
3.5" ALUM CAP
CDOT ROW
MP 26.25
ELEV=4540.00



ACCEPTANCE BLOCK
THE CITY OF GRAND JUNCTION REVIEWS THIS GENERAL COMPLIANCE WITH THE CITY'S DEVELOPMENT STANDARDS, SUBJECT TO THESE PLANS BEING SEALED, SIGNED, AND DATED BY THE PROFESSIONAL OF RECORD. REVIEW BY THE CITY DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN. THE CITY NEITHER ACCEPTS NOR ASSUMES ANY LIABILITY FOR ERRORS OR OMISSIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD.
CONSTRUCTION MUST COMMENCE WITHIN ONE YEAR FROM THE DATE OF PLAN SIGNATURE.

23 ROAD TRUNK EXTENSION <i>description</i> STORM LINE 2 PROJECT # F092420 <i>prepared for</i> CITY OF GRAND JUNCTION		A · C · G AUSTIN CIVIL GROUP, INC Land Planning • Civil Engineering • Development Services 123 N. 7th Street, Suite 300 • Grand Junction, Colorado 81501 (970) 242-7540		REVISIONS NO. DESCRIPTION 1 REVISED PER COMMENTS	BY LMS	DATE 11-21-18
DRAWN BY: LMS DESIGNED BY: LMS CHECKED BY: MRA APPROVED BY: MRA		JOB NUMBER: 1233.0001		DATE: 01-10-18		
SCALE: AS SHOWN		SHEET NO: SD-3		Know what's below. Call before you dig. SCALE VERIFICATION BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY		