



Purchasing Division

Invitation for Bid

IFB-4784-20-DH
2020 Horizon Place Street Reconstruction

Responses Due:

April 20, 2020 prior to 3:30pm

Accepting Electronic Responses Only

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

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

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

Purchasing Representative:

Duane Hoff Jr., Senior Buyer

duaneh@gjcity.org

970-244-1545

This 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 to complete the 2020 Horizon Place street reconstruction project. All dimensions and scope of work should be verified by Contractors prior to submission of bids.

IFB Questions:

Duane Hoff Jr., 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. **Recommended Site Visit Meeting:** **Prospective bidders are encouraged to attend a recommended site visit meeting on April 7, 2020 at 10:00am.** Meeting location shall be located on the north side of Horizon Place, west of the intersection of 26 ½ Road/7th Street and Horizon Place. Please park on the north side of Horizon Place. 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. **Procurement Process:** Procurement processes shall be governed by the most current version of the City of Grand Junction [Purchasing Policy and Procedure Manual](#).
- 1.5. **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**)
- 1.6. **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.

- 1.7. 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.

- 1.8. Exclusions:** No oral, telephonic, emailed, or facsimile bid will be considered
- 1.9. 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/> .
- 1.10. 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.
- 1.11. Definitions and Terms:** See Article I, Section 3 of the General Contract Conditions in the *Standard Contract Documents for Capital Improvements Construction*.
- 1.12. 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.

- 1.13. 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.
- 1.14. 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.
- 1.15. Taxes:** The Owner is exempt from State retail and Federal tax. The bid price must be net, exclusive of taxes.
- 1.16. 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.
- 1.17. 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.
- 1.18. 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.
- 1.19. 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.
- 1.20. 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.

1.21. 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. Offerors 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.

- 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 **\$2,500.00** 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 completed. 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 to perform the 2020 Horizon Place street reconstruction 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: This project generally consists of the reconstruction of a portion of Horizon Place generally located between 26 ½ Road and the new Juniper Ridge Community School. It includes demolition of sidewalk, curb and gutter, asphalt, and a trash enclosure as well as the new construction of sidewalk, curb and gutter, ADA ramps, a new trash enclosure, the construction of a new asphalt pavement section including aggregate base course, and the extension of a water line to facilitate the relocation of a new fire hydrant. All dimensions and scope of work should be verified by Contractors prior to submission of bids.

3.3. SPECIAL CONDITIONS & PROVISIONS:

3.3.1 Recommended Site Visit Meeting: Prospective bidders are encouraged to attend a recommended site visit meeting on April 7, 2020 at 10:00am. Meeting location shall be located on the north side of Horizon Place, west of the intersection of 26 ½ Road/7th Street and Horizon Place. Please park on the north side of Horizon Place. 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 SOLICIATION PROCESS/SCOPE OF WORK:

Duane Hoff Jr., Senior Buyer
City of Grand Junction
duaneh@gjcity.org

3.3.2 Project Manager: The Project Manager for the project is Eric Mocko, Project Engineer, who can be reached at (970)256-4017 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 Planning
Attn: Eric Mocko, Project Manager
333 West Avenue, 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 63 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 or as mutually agreed upon in the preconstruction meeting with the following exception:

All work shall be performed between the hours of 8:00 AM to 5:00 PM.

3.3.9 Licenses and Permits: Contractor is responsible for obtaining all necessary licenses and permits required for Construction, at Contractors expense. See Section 2.12. Contractor shall supply to Owner all copies of finalized permits.

3.3.10 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:

None

3.3.11 City Furnished Materials: The City will furnish the following materials for the Project:

- Door-hangers
- Damaged or outdated manhole ring and covers and Water Valve boxes and lids that need to be replaced. The City will furnish the above mentioned. The Contractor shall be responsible for picking up the materials from Castings Inc.

3.3.12 Project Newsletters: A newsletter for the Project will be prepared and distributed by the City, as necessary. It will include general information about the Project including interruptions in utility services, street closures, parking restrictions, project schedule, and the names and telephone numbers of the contacts for the City and Contractor. The newsletter will be mailed approximately one week before the Contractor commences work.

The Contractor will be responsible for notifying all businesses and / or residents located adjacent to the work. Door hanger notifications shall be distributed at least two (2) working days prior to the day the work is scheduled to begin.

3.3.13 Project Sign: Project signs, if any, will be furnished and installed by the City.

3.3.14 Authorized Representatives of the City: Those authorized to represent the City shall include Purchasing Agent, Engineers, and Inspectors employed by the City, only.

3.3.15 Stockpiling Materials and Equipment: All stockpiling/storage shall be in accordance with General Contract Condition Section 51.

3.3.16 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. A Traffic Control Plan shall be prepared by the Contractor and reviewed by the City two days prior to the pre-construction meeting.

3.3.17 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 sidewalk operations. The costs for all clean-up work shall be considered incidental and will not be paid for separately.

3.3.18 Quality Control Testing: Supplier shall perform Quality Control (QC) testing on the Asphalt. The Contractor shall provide QC throughout the Contract, with the use of their own QC Technicians or the use of a certified laboratory. In accordance with Section 401.06.3 of the City of Grand Junction Standard Specifications for Road and Bridge Construction, results of all QC tests shall be submitted to the Project Engineer and the City's Quality Assurance (QA) Technician within 4 hours of the time of sampling. Failure to do so may require that paving be suspended until all sampling results have been received, reviewed, and approved. The Contractor shall supply QC Lab personnel for night work for comparison of test data. If lab personnel is not supplied paving operations will be suspended until one is available. QC Field personnel shall remain on site during the duration of the paving operation or until in-place density are met.

The Contractor/Supplier shall perform QC testing on all concrete. The City will perform QA testing for concrete.

The Contractor, at their own discretion, may elect to forgo the soils QC field testing (in-place soils density) for placement of Embankment and Aggregate Base Course. QA testing for these items will be performed by the City, and laboratory results for submittal purposes will be provided by the contractor. However, if a sufficient number of failed test results are observed by the City and/or it's QA testing representatives, written notification will be provided to the contractor, and back payment to the City for failed location re-tests will be required.

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

- Traffic Control Plans
- Project Schedule
- Concrete Mix Design
- Class 6 Base Course
- Asphalt Mix Design

3.3.20 Uranium Mill Tailings: It is not anticipated that radioactive mill tailings will be encountered on this Project.

3.3.21 Fugitive Petroleum or Other Contamination: It is anticipated that soil contamination from fugitive petroleum or other contaminants will not be encountered with the Project.

3.3.22 Excess Material: All excess materials shall be disposed in accordance with General Contract Condition Section 50.

3.3.23 Existing Utilities and Structures: Utilities were not potholed during design of this project. The location of existing utilities and structures shown on the Plans is approximate with the information gathered during design. It is the responsibility of the Contractor to pothole/locate and protect all structures and utilities in accordance with General Contract Condition Section 37.

3.3.24 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.

3.3.25 Work to be Performed by the City (Prior to Construction):

- None

3.3.26 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.

3.3.27 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 Manager.

3.3.28 Tack Coat: Tack Coat will be required between the existing asphalt and the leveling asphalt, existing asphalt and new overlay, and between leveling asphalt and new overlay asphalt. The tack coat shall meet the requirements of Section 407 of the *Standard Specifications for Road and Bridge Construction*, as modified, herein. The cost of the tack coat will be considered incidental to the work and will not be paid for separately.

3.3.29 Temporary Pavement Marking Tape: The Contractor shall be responsible for furnishing and placing temporary pavement marking tape prior to the final roller pass. Pavement marking tape shall be placed on the seams of the new asphalt as determined by the record of existing striping or new striping locations per provided project plans. The cost of the marking tape and labor to install will be considered incidental to the work and will not be paid for separately.

3.3.30 Transverse Milling: Butt joints (Transverse Milling) shall be placed in all locations where new asphalt will be joined to existing pavement. The location and width of all butt joints will be designated by the Project Engineer or his representative.

3.3.31 Manholes and Water Valves: It shall be the contractors' responsibility to accurately record and adjust all manholes, valve boxes and survey monuments to final grade

3.4. SCOPE OF WORK:

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:

SP-1 SECTION 202 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Section 202 of the Standard Specifications is hereby revised for this project as follows:

Subsection 202.12, add the following:

Locations of saw cuts shall be determined and directed by the Construction Inspector or the Engineer. Saw cuts shall be incidental to work.

SP-2 SECTION 208 – EROSION CONTROL

For inlet protection along street sections, the only approved inlet protections shall be a filter sock.

Add the following to this subsection:

208.05(n) Add the Following:

Concrete Washout Structure:

Water for clean-up of equipment used in the mixing or distribution of concrete shall not be discharged to any storm water facilities, drain ways, or deposited into any open fields. The waste water used shall either be wasted on an open excavation area or in an onsite detention facility for future disposal.

Subsection 208.08 Payment for Best Management Practices.

The disposal of wash water shall be considered incidental to the concrete and will not be measured for or paid for separately.

Add the following to this subsection:

| <u>Pay Item</u> | <u>Pay Unit</u> |
|-------------------------------------|------------------------|
| Erosion Control (Complete In Place) | Lump Sum |

SP-3 SECTION 401 – PLANT MIX PAVEMENTS - GENERAL

REVISION OF SECTION 401 PLANT MIX PAVEMENTS

Section 401 of the Standard Specifications are hereby revised for this project as follows:

401.01 Description.

Add the following:

This work shall consist of providing a Hot Mix Asphalt (HMA) to be placed as shown on the plans, or as directed by the Owner. The Contractor shall be responsible for Process Control (PC) of the HMA; including the design, and control of the quality of the material incorporated into the project.

401.02 Composition of Mixtures.

Delete subparagraph (a) *Mix Design* and replace with the following:

A Job Mix Formula (JMF) design shall be submitted for each mixture required, at least 10 calendar days prior to placing any mix on the project, for acceptance by the Owner. JMF's previously approved by CDOT within the past six months may be utilized. The JMF design shall be determined using AASHTO T-312 or CP-L 5115 for the Method of Mixture Design. Grading ST, SX, and S shall be designed using 100mm molds. The job mix gradation shall be wholly within the Master Range Table in subsection 703.04 before the tolerances shown in Section 401 are applied.

Designs shall be developed and performed in a materials laboratory that meets the requirements set forth by AASHTO Materials Reference Laboratory (AMRL) for all testing procedures. The design shall be stamped and signed by a Professional Engineer licensed in the State of Colorado. In addition, the Contractor shall submit, as part of the mixture design, laboratory data documents to verify the following:

- Gradation, specific gravity, source and description of individual aggregate and properties, and the final blend.
- Aggregate physical properties.
- Source and Grade of the Performance Graded Binder.
- Proposed Design Job Mix: aggregate and additive blending, final gradation, optimum binder content.
- Mixing and compaction temperatures used.
- Mixture properties shall be determined with a minimum of four binder contents.

The JMF for each mixture shall establish a single percentage of aggregate passing each required sieve size, a single percentage of asphalt cement to be added to the aggregate, and a single temperature for the mixture at the discharge point of the plant.

The Owner reserves the right to verify the asphalt supplier's mix design for each JMF design utilizing materials produced and stockpiled. The asphalt supplier shall provide, at no cost, a sufficient quantity of each aggregate, mineral filler, Recycled Asphalt Pavement (RAP), and additive for the required laboratory tests, as well as all Certificates of Conformance/ Compliance at any time on any material used. The Asphalt Supplier shall provide copies of quality control testing results during the production of HMA used within one business day from the sampling date.

Mixture design of HMA shall meet the requirements of Table 403-1 and Table 403-2 in the Revision to Section 403. For mixes requiring a design gyration of 100 (ESALs greater than 3 million) the Project Special Conditions should be used. This gyration is not recommended for the majority of roads within Mesa County.

Delete subparagraph (b) *Mixtures Furnished to the Project* and replace with the following:

Production verification shall occur prior to, or during, the start of the project. Volumetric properties of the mix shall be verified by LabCAT Level C Certified Technicians. If the mix was produced for another project within the last 90 days, data from that project can be submitted for verification. All mixtures furnished for the project shall conform within the ranges of tolerance listed in Table 401.02A. The mix verification test reports shall be submitted to the Owner prior to mix placement.

TABLE
401.02A
Production Mix
Tolerances

| <u>Property</u> | <u>Tolerance</u> |
|-------------------------------|------------------|
| <u>Asphalt Cement Content</u> | <u>± 0.3%</u> |
| <u>VMA</u> | <u>± 1.2%</u> |
| <u>Air Voids</u> | <u>± 1.2%</u> |

Verification testing for binder content, gradation and physical properties shall be performed at the frequencies listed in Table 401.23-1.

There shall be no substitutions of materials allowed during production, unless approved in advance by the Owner. All substitutions will require checkpoint verification. If the checkpoint differs from the Job Mix Formula (JMF), a new mix design will be required. Upon request of the Owner, the binder grade may be changed by one available binder grade level without requiring a new mix design.

Should a change in the source of any material used in the production of HMA (aggregate, mineral filler, lime, or performance graded asphalt binder) occur, a one point verification test (at optimum binder content) of the mix must be performed to verify that the applicable criteria shown on Table 403-1 (HMA) and Table 403-2 (VMA) of Revision to Section 403 are still met. If this testing shows noncompliance, the Contractor shall establish a new job mix design and obtain approval by the Owner before the new HMA is used.

Add the following new subparagraphs:

(c) *Reclaimed Asphalt Pavement (RAP)*. RAP shall be allowed in HMA up to a maximum binder replacement of 23 percent, unless otherwise specified in the contract, and provided that all the specifications for the HMA are met. Fine Aggregate Angularity requirements shall apply only to the virgin fraction of the fine aggregate. RAP shall be of uniform quality and gradation with a maximum size no greater than the nominal aggregate size of the mix. RAP shall not contain clay balls, vegetable matter, or other deleterious substances.

The Contractor shall have an approved mix design for the amount of RAP to be used. The AC content of the RAP utilized in the Contractor RAP mix design shall be the average AC content determined in accordance with 1B or 1C, below, or alternatively, a minimum of five samples of the Contractors RAP stockpile may be sampled and the average AC content of the RAP be determined

using AASHTO T-164, Method A or B, or in accordance with 1C below. The Contractor shall determine the total binder replaced by the binder in the RAP pursuant to the following equation:

$$\text{Total Binder Replaced} = (A \times B) \times 100/E$$

Where:

A = RAP % Binder Content *

B = RAP % in Mix *

E = Total Effective Binder Content *

* in decimal format (i.e. 2% is 0.02)

The Total Binder Replaced by the binder in the RAP shall not exceed 23 percent of the effective binder content of either the mix design or the produced mix.

The Contractor shall have an approved Quality Control (QC) Plan that details how the RAP will be processed and controlled. The QC plan shall address the following:

1. RAP Processing Techniques. This requires a schematic diagram and narrative that explains the processing (crushing, screening, and rejecting) and stockpile operation for this specific project.
2. Control of RAP Asphalt Binder Content (AASHTO T-164, Method A or B). RAP Asphalt Binder Content may also be determined in accordance with CP-L 5120, provided an RAP AC content correction factor is determined through correlation testing with AASHTO T-164, Method A or B. The correction factor shall be determined by performing correlation testing on the first five samples of the RAP AC content, then at a frequency of one for every five AC content tests thereafter. The correction factor shall be determined by calculating the average difference in AC content between CP-L 5120 and AASHTO T-164, Method A or B, and applying the correction to the AC content determined in accordance with CP-L 5120 :
Frequency: 1 per 1000 tons of processed RAP material (minimum five tests)
3. (Alternate) The Contractor may propose a RAP asphalt content correction factor to be used in conjunction with CP-L 5120. The proposed CP-L 5120 RAP asphalt content correction factor shall be used with all RAP asphalt contents tested for the mixture design and quality control sampling and testing. The methodology of the proposed CP-L 5120 RAP asphalt content correction factor shall be outlined in detail in the approved RAP QC Plan. At a minimum, the proposed CP-L 5120 correction factor shall identify the principal source locations of the RAP aggregate, gradation of the material tested, and specific ignition oven serial number used in all the RAP asphalt content testing. The RAP source locations, material gradation, and specific equipment used shall substantiate the CP-L 5120 asphalt content correction factor used for the testing. The substantiation must be from data gathered from historical information or specific asphalt content correction data obtained from tests performed on similar virgin aggregate sources, virgin material gradations, and the specific equipment used.
4. Control of RAP Gradation (CP31 or AASHTO T-30):
Frequency: 1 per 1000 tons of processed RAP material (minimum three tests, sampling from belt feed and not stockpile)
5. Process Control Charts shall be maintained for binder content and each screen listed in Table 401.2C, during addition of any RAP material to the stockpile. The Contractor shall maintain separate control charts for each RAP stockpile. The control charts shall be displayed and shall be made available, along with RAP AC extraction testing laboratory reports to the Engineer upon request

The processed RAP must be 100 percent passing the 31.5 mm (1¼ inch) sieve. The aggregate obtained from the processed RAP shall be 100 percent passing the 25.0 mm (1 inch) sieve. The aggregate and binder obtained from the processed RAP shall be uniform in all the measured parameters in accordance with the following:

**Table 401.2C
RAP Binder & Aggregate Uniformity Tolerances**

| Element | Standard Deviation |
|----------------|--------------------|
| Binder Content | 0.5 |
| % Passing ¾" | 4.0 |
| % Passing ½" | 4.0 |
| % Passing 3/8" | 4.0 |
| % Passing #4 | 4.0 |
| % Passing #8 | 4.0 |
| % Passing #30 | 3.0 |
| % Passing #200 | 1.5 |

(d) *Warm Mix Asphalt (WMA) Technology.* The Contractor may choose to use a WMA Technology that is included on the CDOT approved products list (<https://www.codot.gov/business/apl/asphalt-warm-mix.html>).

WMA technologies (additive or foaming) used shall be identified on the mix design, indicating usage as a workability additive and/or anti-strip additive. WMA shall be submitted and approved by the Owner for use on a project.

The addition of WMA additives during production, including foaming, shall be controlled by a calibrated metering system interlocked with the plant's controls per the manufacturers' recommendation. Additives may be added at the asphalt terminal at the dosage rate recommended by the WMA technology provider. The foaming process mixes water and binder to create microscopic steam bubbles. Typical water injection rate is ≤ 2% of binder flow rate or per manufacturers' recommendation.

(e) *Anti-Strip Additives.* Anti-Strip shall be added into the HMA. Anti-Strip agents may be liquids (added to the binder), lime (added to the aggregates) or other products, and shall be submitted for approval by the Owner.

The minimum value for Tensile Strength Ratio (TSR) tested in accordance with Table 401.21-1 shall be 80% for the mix design and 70% during production.

There are various types of liquid Anti-Strips. Amine and Organo-silane type liquid Anti-Strip additives are physically mixed with the asphalt binder. Liquid Anti-Strip agents shall be added per the manufactures recommendations. Typical product dosages are provided in Table 401.2E-1.

**TABLE 401.2E-1
Liquid Anti-Strip Dosage Rates**

| Type | Typical Dosage Rate |
|---------------|---------------------|
| Amine | 0.4% to 0.8% |
| Organo-silane | 0.05% to 0.15% |

WMA chemical products which display Anti-Stripping characteristics will be classified, and identified on the mix design, as a liquid Anti-Strip additive.

When a liquid Anti-Strip additive is used, the Contractor shall include the following information with the mix design submission:

- Information on the type of liquid Anti-Strip additive to be supplied, including product name, product manufacturer/supplier
- Additive rate
- TSR values for the treated mixes
- The proposed method for incorporating the additive into the plant produced mix

401.03 Aggregates.

Add the following:

The percentage of fractured faces shall be as shown in Table 403.1 of the Revision to Section 403.

Grading ST (3/8" nominal) mixes may be used for leveling, maintenance, bike paths, sidewalks and thin lift overlays. Grading SX (1/2" nominal) mixes shall be used on top and bottom lifts and for patching. Grading S (3/4" nominal) mixes may be used for bottom lifts.

401.05 Hydrated Lime.

Add the following:

When used in the HMA, hydrated lime shall be added at the rate of 1% by dry weight of the aggregate and shall be included in the amount of material passing the No. 200 sieve.

401.06 Asphalt Cement.

Revise the second paragraph to read as follows:

The asphalt cement shall meet the applicable requirements of subsection 702.01.

Add the following:

The Contractor shall provide to the Owner acceptable 'Certifications of Compliance' of each applicable asphalt binder grade from the supplier. Should testing or certificate show nonconformance with the specifications, the asphalt binder may be rejected. When production begins, the Contractor shall, upon request, provide to the Owner a one quart can of each specified asphalt binder for analysis. Additionally, the Contractor shall provide the refinery test results that pertain to the asphalt binders used during production.

Based on climatic conditions and reliability, binder grades approved for use in Mesa County are as follows in Table 401.06A-1:

**TABLE
401.06A-1
Recommended Performance Graded
Binders**

| Condition | Non-modified Binder | Modified Binder |
|---|------------------------|-----------------------------|
| Free flowing traffic loads and 300,000 to 1 million 18K ESAL | PG 64-22 | |
| Free flowing traffic loads and 300,000 to 1 million 18K ESAL, plus above 6000 elevation | PG 58-28 | |
| Slow moving or standing trucks, major street intersections and/or 10,000,000 18K ESAL | | PG 76-28 (top lift only) |

Binder grades other than those shown above shall not be used unless the proposed binder and the mix design are approved in writing by the OWNER. The asphalt cement shall meet the requirements of subsection 702.01

401.07 Weather Limitations and Placement Temperatures.

Revise as follows:

Surface temperatures shall be used to determine placement of APM. APM produced with documented WMA will be allowed a reduction in minimum surface temperatures for placement as provided in Table 401.07A-1. Ambient temperatures and other weather conditions shall be considered prior to placement.

**TABLE 401.07A-1
Minimum Surface Temperatures for placement of APM**

| Compacted Layer Thickness (in.) | Minimum Surface Temperature (°F) | | | |
|------------------------------------|----------------------------------|----------|-------------------------------|----------|
| | Top Layer | | Layers Below the Top Layer | |
| Product | APM | with WMA | APM | with WMA |
| <1½ | 60 | 50 | 50 | 40 |
| 1½ - <3 | 50 | 45 | 40 | 35 |
| 3 or more | 45 | 40 | 35 | 35 |

If the Contractor modifies the placement and compaction processes when ambient temperatures are below minimum surface temperatures in Table 401.07A-1, they shall demonstrate to the Owner the required in-place density has been achieved. APM cooling software such as PaveCool, or MultiCool can be used to determine placement and compaction times available.

401.08 Asphalt Mixing Plant.

Delete the last paragraph of the subsection.

401.09 Hauling Equipment.

Add the following:

The Owner may reject any HMA which demonstrates it has been contaminated from a petroleum distillate release agent. The Owner may reject any uncovered HMA which demonstrates it has been impacted by contamination and/or weather.

401.10 Asphalt Pavers.

Delete the twelve paragraph and replace with the following:

Contractor shall submit for and receive approval of the screed control devices to be utilized on the paver prior to use for placing HMA on the project.

Add the following:

A Material Transfer Vehicle (MTV) or Material Transfer Device (MTD) may be required for placement of the HMA when specified in the contract documents. The MTV shall be a self-propelled unit with on board storage of material. An MTD is a non-self-propelled unit. Both MTV and MTD are capable of receiving material from trucks or from the ground, transferring the material from the unit to a paver hopper insert via a conveyor system.

401.11 Tack Coat.

Delete and replace with the following:

A tack coat shall be applied between pavement course and to all existing concrete and asphalt surfaces per Section 407. Tack coat is considered incidental to the cost of the HMA.

401.15 Mixing.

Add the following:

If a WMA technology (additive or foaming) is used, the discharge temperatures may be lowered during production at the discretion of the Contractor provided all specifications are achieved. Mix design is to indicate revised allowable discharge temperatures with WMA usage.

401.16 Spreading and Finishing.

Revise as follows:

Joints in the top layer of new pavement shall be located on lane lines unless otherwise shown on the plans. Longitudinal joints shall be minimized with wide paving pulls. Transverse joints shall be formed by cutting back on the previous run to expose the full depth of the course. Tack coat material shall be applied to contact surfaces of all joints before additional mixture is placed against the previously compacted material.

401.17 Compaction.

Revise as follows:

Equipment used for compaction of the HMA will be at the discretion of the Contractor. The number, weight, and type of rollers furnished shall be sufficient to obtain the required density and surface texture.

All joints shall be compacted to 92% of maximum theoretical specific gravity (Rice), taken six inches offset from the joint. The allowable variance shall be $\pm 2\%$. Joint density will be determined using nuclear density equipment.

Delete paragraphs six through eight, and paragraphs eleven to the end of the subsection and replace with the following:

Cores may be used to verify compaction results. The Contractor shall core the pavement, as required by the Owner; in accordance with AASHTO T 230, Method B, or for field calibration of nuclear density equipment in accordance with the ASTM D 2950. At a minimum, cores for nuclear density equipment correlation shall be taken at the beginning of placement of each project or change of mixture materials or gradation, unless otherwise approved by the Engineer. If the correlation cores were produced for another project within the last 90 days, data from that project can be submitted for verification, if no change in materials or gradation has occurred. When cores are used, the Contractor shall provide all labor and equipment for the coring and repair of the holes.

Along forms, curbs, headers, walls, and all other places not accessible to the rollers, the mixture shall meet all project compaction specifications. Any mixture that is defective, shall be corrected to meet the project specifications at the expense of the Contractor.

401.20 Surface Smoothness.

Delete and replace with the following:

The finish transverse and longitudinal surface elevation of the pavement shall be measured using a 10-foot straightedge. Surface smoothness shall be verified following the finish roller pass. Surface variation shall not exceed 3/16 inch in 10 feet for full lane width paving. For patching, the variation shall not exceed 3/8 inch in 10 feet. The final pavement surface shall not vary from the specified cross section by more than one inch at any point. Transverse measurements for variations shall exclude breaks in the crown sections. If the surface tolerance exceeds 3/16" across transverse joints, measured in at least three locations, the Contractor shall make corrections to the joint before proceeding. All corrections shall be made at the Contractor's expense.

The final surface pavement adjacent to curb and gutter shall be finished from 1/8-inch to 3/8- inches above the lip for catch curb and shall not extend above the lip for spill curb.

The Contractor shall adjust all manholes, valve boxes, and survey range boxes 1/8 to 1/4- inch below final grade and adjusted to match the slope of the roadway. Valve boxes and manholes are to be maintained fully accessible at all times for emergency and maintenance operations. The cost of adjusting valve boxes, manholes, and survey range boxes shall be included in the work, unless otherwise specified. The Contractor shall be responsible for any cost incurred by the Owner to provide access to the covered manholes or valve boxes. Final adjustment of all utility access points shall be completed within seven days of from the time the HMA was placed.

Add the following new subsections:

401.23 Testing and Inspection

The Contractor shall assume full responsibility for controlling all operations and processes to meet the Specifications. The Contractor shall perform all tests necessary for process control purposes on all elements at the frequency listed in Table 401.23-1. The Contractor shall maintain a log of all process control testing. Test results that have sampling or testing errors shall not be used. Process control testing shall be performed at the expense of the Contractor.

Laboratories shall be accredited by AASHTO Materials Reference Laboratory (AMRL) for the tests being performed. Technicians obtaining samples and conducting compaction tests must have a LabCAT Level A certification. Technicians conducting tests of asphalt content and gradation must have a LabCAT Level B certification. Technicians performing volumetric testing must have a LabCAT Level C certification. Equivalent NICET certification for all technicians is acceptable.

When requested by the Owner, the Contractor shall submit a quality control plan that addresses production, sampling, testing, and qualifications of testing personnel, timing, and methods for making adjustments to meet the specifications. The Contractor will provide a process or schedule for making corrections for material that was placed but does not meet specifications as well as obtain a follow up sample immediately after corrective actions are taken to assess the adequacy of the corrections. In the event the follow-up process control sample also fails to meet Specification requirements; the Contractor shall cease production of the asphalt mixture until the problem is adequately resolved to the satisfaction of the Owner.

**TABLE
401.23-1
Minimum Materials Sampling and Testing
for Process Control and Owners
Acceptance**

| Test | Standard | Minimum Frequency |
|---|---|---|
| Sampling | AASHTO T168, ASTM D 979 and ASTM D3665, CP 41 | 1/1000 tons or fraction thereof (not less than one test per day) |
| In-Place Density | AASHTO T 166, T 238, T 230, CP 81 (nuclear), CP 44 (coring) | One test for each 250 lineal feet per lane and one test per 1,000 lineal feet of joint per lift |
| Thickness (Core) (when called for in Project specs.) | ASTM D3549 | One test for each 1000 lineal feet per lane |
| Air Voids & VMA | CP-L 5115 A.I. SP-2 | 1/1000 tons or fraction thereof (not less than one test per day) |
| Gradation | AASHTO T 27/T 11, CP 31 | 1/1000 tons or fraction thereof (not less than one test per day) |
| Hveem/Marshall Stability As Applicable | CP-L 5016 | One per project per mix used |

| | | |
|---|---|--|
| Binder Content | CP-L 5120, AASHTO T 164 or other methods agreed upon between Owner and Contractor | 1/1000 tons or fraction thereof (not less than one test per day) |
| Maximum Theoretical Specific Gravity (Rice) | AASHTO T 209 (Rice), CP-L 51 | 1/1000 tons or fraction thereof (not less than one test per day) |
| Lottman Stripping, TSR & Dry Density | CP-L 5109 | One per project per mix used. |

Field control testing of dense graded asphalt mixes for the above tests shall meet the requirements of Table 403-1 and Table 403-2 in the Revision to Section 403.

401.24 Acceptance

If any materials furnished, or work performed, fails to meet the specification requirements, such deficiencies shall be documented and reported to the Owner. Copies of all process control tests shall be delivered to the Owner within one business day. Test results that cannot be completed within one day shall be provided to the Owner no later than three days after the sample was obtained.

Owners Acceptance (OA) test results, if any, and/or Process Control (PC) test results will be evaluated to determine acceptability. If the Contractor does not meet the project specifications, but acceptable work has been produced, the Owner shall determine the extent of the work to be accepted. If the Owner determines the work is not acceptable, the Contractor shall correct the work, as approved by the Owner, at the expense of the Contractor.

SP-4 SECTION 403 – HOT MIX ASPHALT

REVISION OF SECTION 403 HOT MIX ASPHALT

Section 403 of the Standard Specifications is hereby revised for this project as follows:

403.02 Materials

Delete and replace with the following:

The materials shall conform to the requirements of subsections 401.2 of the Revised Section 401 above.

The design mix for hot mix asphalt (HMA) shall conform to the following Table 403-1 and Table 403-2:

**Table 403-1
Mixture Properties for Hot Mix Asphalt**

| Property | Test Method | Value |
|--|---------------------------|-----------|
| | | |
| Air Voids, percent at: N (design) | AASHTO T-132, CPL 5115 | 3.0 – 4.0 |
| Lab Compaction (Revolutions): N (design) | CPL 5115 | 75 |

| Property | Test Method | Value |
|---|--|------------------------|
| | | |
| Hveem Stability, (Grading ST, SX & S only) | CPL 5106 | 28 min. |
| Aggregate Retained on the 4.75 mm (No. 4) Sieve for S, SX and SG, and on the 2.36mm (No. 8) Sieve for ST and SF with at least 2 Mechanically Induced fractured faces | CP 45 | 60% min. |
| Accelerated Moisture Susceptibility Tensile Strength Ratio (Lottman)(for S & SX mixes) | AASHTO T-283 Method B, CPL 5109 Method B | 80 min. |
| Minimum Dry Split Tensile Strength, kPa (psi) | CPL 5109 Method B | 205 (30) min. |
| Voids in the Mineral Aggregate (VMA) % minimum | CP 48, AI-SP2 | See Table 403-2 |
| Voids Filled with Asphalt (VFA) | AI MS-2 | 65-80% |
| Dust to Asphalt Ratio: Fine Gradation Coarse Gradation | CP 50 | 0.6 – 1.2 0.8 – 1.6 |
| <p>Note: AI MS-2 = Asphalt Institute Manual Series 2</p> <p>Note: Mixes with gradations having less than 40% passing the 4.75 mm (No. 4) sieve shall be approached with caution because of constructability problems.</p> <p>Note: Gradations for mixes with a nominal maximum aggregate size of one-inch or larger are considered a coarse gradation if they pass below the maximum density line at the #4 screen.</p> <p>Gradations for mixes with a nominal maximum aggregate size of 3/4" to 3/8" are considered a coarse gradation if they pass below the maximum density line at the #8 screen.</p> <p>Gradations for mixes with a nominal maximum aggregate size of #4 or smaller are considered a coarse gradation if they pass below the maximum density line at the #16 screen.</p> | | |

**Table 403-2
Minimum Voids in Mineral Aggregate (VMA)**

| Nominal Maximum Size*, mm (inches) | ***Design Air Voids ** | | |
|---|------------------------|------|------|
| | 3.5% | 4.0% | 4.5% |
| 37.5 (1½) | 11.6 | 11.7 | 11.8 |
| 25.0 (1) | 12.6 | 12.7 | 12.8 |
| 19.0 (¾) | 13.6 | 13.7 | 13.8 |
| 12.5 (½) | 14.6 | 14.7 | 14.8 |
| 9.5 (⅜) | 15.6 | 15.7 | 15.8 |
| 4.75 (No. 4) | 16.6 | 16.7 | 16.8 |
| * The Nominal Maximum Size is defined as one sieve larger than the first sieve to | | | |

retain more than 10%.
 ** Interpolate specified VMA values for design air voids between those listed.
 *** Extrapolate specified VMA values for production air voids beyond those listed.

403.03 Construction Requirements

Delete the first paragraph and replace with the following:

The construction requirements shall be as prescribed in subsections 401.3 through 401.14 of the Revised Section 401 above.

403.04 Method of Measurement

Delete and replace with the following:

Hot Mix Asphalt will be measured by the ton or the square yard. Batch weights will not be permitted as a method of measurement when measured by the ton. The tonnage shall be the weight used in the accepted pavement.

403.05 Basis of Payment

Delete and replace with the following:

The accepted quantities of hot mix asphalt will be paid for in accordance with subsection 401.22, at the contract unit price per ton or square yard for the asphalt mixture.

Payment will be made under:

| Pay Item | Pay Unit |
|-------------------------------------|-----------------|
| Hot Mix Asphalt (Grading __)(PG __) | Ton |
| Hot Mix Asphalt (Grading __)(PG __) | Square Yard |
| Hot Mix Asphalt (Patching) | Square Yard |

Aggregate, asphalt cement, asphalt recycling agent, additives, hydrated lime, tack coat, and all other work necessary to complete each hot mix asphalt items will not be paid for separately but shall be included in the unit price bid.

Excavation, preparation, and tack coat of areas to be patched will not be measured and paid for separately, but shall be included in the work.

SP-5 SECTION 601 – STRUCTURAL CONCRETE

Section 601 of the Standard Specifications is hereby revised for this project as follows:

Subsection 601.02, Classification:

CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:

- 4,500 PSI Compressive at 28 Days
- 6% air ±1.5%
- Slump 4”, Loads exceeding 4 ½” shall be rejected

- Maximum Water Cement Ratio no greater than 0.45.

Subsection 601.06, Batching:

This CDOT Specification has been added to this Project:

The Contractor shall furnish a batch ticket (delivery ticket) with each load for all concrete. Concrete delivered without a batch ticket containing complete information as specified shall be rejected. The Contractor shall collect and complete the batch ticket at the placement site and deliver all batch tickets to the Engineer or his representative at the end of each day. The Engineer or his representative shall have access to the batch tickets at any time during the placement. The following information shall be provided on each ticket:

1. Suppliers name and date
2. Truck number
3. Project name and location
4. Concrete class and designation number
5. Cubic yards batched
6. Type brand and amount of each admixture
7. Type, brand, and amount of cement and fly ash
8. Weights of fine and course aggregates
9. Moisture of fine and course aggregates
10. Gallons of batch water

The contractor shall add the following information to the batch ticket at time of placement:

1. Gallons of water added by the truck operator.
2. Number of revolutions of the drum for mixing
3. Discharge time

SP-6 SECTION 608 – CURBS, GUTTERS, SIDEWALKS, AND TRAILS

Section 608 of the Standard Specifications is hereby revised for this project as follows:

Subsections 608.06, Basis of Payment shall include the following:

The Contract Unit Price for the various concrete items shall be full compensation for all equipment, labor, materials, and incidentals required for the complete installation. Incidental items include subgrade compaction, cutting and removal of asphalt in areas where concrete will be installed; removal of existing concrete, disposal of excavated and removed materials; furnishing, placement and compaction of Aggregate Base Course; forming, furnishing and placement, finishing, curing and protection of the concrete; reinforcing steel and joint filler.

SP-7 SECTION 630 - CONSTRUCTION ZONE TRAFFIC CONTROL

Subsection 630.09, Traffic Control Plan, shall include the following:

The following guidelines and limitations shall apply to the traffic control:

1. Two-way traffic shall be maintained on all streets (unless otherwise approved).
2. Concrete activities shall be coordinated so that concrete trucks and other vehicles do not block the traffic lanes.
3. All incidental costs shall be included in the original contract price for the project. Flagging shall be considered incidental and included in Traffic Control (Complete in Place).
4. Sidewalks that are obstructed or under construction shall be barricaded, as required for pedestrian safety.

3.5. Attachments:

- Appendix A: Project Submittal Form
- Appendix B: Construction Drawings

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**
- **References**

3.7. IFB TENTATIVE TIME SCHEDULE:

| | |
|--|---|
| Invitation For Bids available | March 30, 2020 |
| Recommended Site Visit Meeting | April 7, 2020 |
| Inquiry deadline, no questions after this date | April 10, 2020 |
| Addendum Posted | April 14, 2020 |
| Submittal deadline for proposals | April 20, 2020 |
| City Council Approval | May 6, 2020 |
| Notice of Award & Contract execution | May 7, 2020 |
| Bonding & Insurance Cert due | May 14, 2020 |
| Preconstruction meeting | May 14, 2020 |
| Work begins no later than | Upon Receipt of Notice to Proceed |
| Final Completion | 63 Calendar Days from Notice to Proceed |
| Holidays: | May 25, 2020 July 3-4 2020 |

4. Contractor's Bid Form

Bid Date: _____

Project: IFB-4784-20-DH "2020 Horizon Place Street Reconstruction"

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. The Owner reserves the right to take into account any such discounts when determining the bid award.

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: Horizon Place

Contractor: _____

| Item No. | CDOT, City Ref. | Description | Quantity | Units | Unit Price | Total Price |
|----------|-----------------|--|----------|----------|------------|-------------|
| 1 | 108.2 | Water Main (6") (C-900, DR-18)(Includes cost of restrained connection to existing pipe) | 19. | LF | \$ _____ | \$ _____ |
| 2 | 108.2 | Water Main (8") (C-900, DR-18) (Includes cost of restrained connection to existing pipe) | 26. | LF | \$ _____ | \$ _____ |
| 3 | 108.3 | 8" Gate Valve(Restrained Fitting)(Epoxy Coated) | 3. | EA | \$ _____ | \$ _____ |
| 4 | 108.3 | Tee (8" x 6") MJ Swivel Tee (Epoxy Coated) | 1. | EA | \$ _____ | \$ _____ |
| 5 | 108.3 | Elbow (8" x 45 deg)(Epoxy Coated) | 2. | EA | \$ _____ | \$ _____ |
| 6 | 108.3 | Cap (8") | 1. | EA | \$ _____ | \$ _____ |
| 7 | 108.3 | Fire Hydrant Assembly | 1. | EA | \$ _____ | \$ _____ |
| 8 | 201 | Clear and Grub Trees/Vegetation(Approx. 1,308 SY) | | Lump Sum | --- | \$ _____ |
| 9 | 202 | Concrete Curb, Gutter, Sidewalk, V-Pan & Dumpster Pad Removal & Disposal | 180. | SY | \$ _____ | \$ _____ |
| 10 | 202 | Asphalt Removal and Disposal | 1,664. | SY | \$ _____ | \$ _____ |
| 11 | 202 | Storm Sewer Manhole Removal and Disposal | 1. | EA | \$ _____ | \$ _____ |
| 12 | 202 | Dumpster Enclosure Removal and Disposal | 1. | EA | \$ _____ | \$ _____ |
| 13 | 202 | Tree Removal and Disposal | 2. | EA | \$ _____ | \$ _____ |
| 14 | 202 | Chain Link Fence Removal and Disposal | 30. | LF | \$ _____ | \$ _____ |
| 15 | 202 | Fire Hydrant Removal and Disposal | 1. | EA | \$ _____ | \$ _____ |
| 16 | 203 | Earthen Ditch | 165. | LF | \$ _____ | \$ _____ |
| 17 | 208 | Rip Rap Outlet Protection Structures | 30. | LF | \$ _____ | \$ _____ |
| 18 | 208 | Erosion Control (Complete In Place) (To Include Earthwork) | | Lump Sum | --- | \$ _____ |
| 19 | 208 | Vehicle Tracking Pad | 1. | EA | \$ _____ | \$ _____ |
| 20 | 208 | Temporary Berms | | Lump Sum | --- | \$ _____ |
| 21 | 208 | Concrete Wash Out Pit & Maintenance | | Lump Sum | --- | \$ _____ |
| 22 | 208 | Stormwater Management | | Lump Sum | --- | \$ _____ |
| 23 | 210 | Relocate Street Signs | 6. | EA | \$ _____ | \$ _____ |
| 24 | 210 | Landscaping to Match Existing | | Lump Sum | --- | \$ _____ |
| 25 | 304 | Aggregate Base Course (Class 6) (12" Thickness) | 1,350. | Tons | \$ _____ | \$ _____ |

Bid Schedule: Horizon Place

Contractor: _____

| Item No. | CDOT, City Ref. | Description | Quantity | Units | Unit Price | Total Price |
|----------|-----------------|--|----------|----------|------------|--------------|
| 26 | 306 | Subgrade Reconditioning (12" Deep) | 2,814. | SY | \$ _____ | \$ _____ |
| 27 | 401 | Hot Mix Asphalt (4" thick) (Grading SX-75, Binder Grade 64-22) | 625. | Tons | \$ _____ | \$ _____ |
| 28 | 608 | Concrete Curb Ramp - 20' Radius ADA Alternate Ramp with Cast Iron Wet Set ADA Detectible Mat | 1. | EA | \$ _____ | \$ _____ |
| 29 | 608 | Concrete Curb Ramp - 20' Radius ADA Curb Return with Cast Iron Wet Set ADA Detectible Mat | 1. | EA | \$ _____ | \$ _____ |
| 30 | 608 | Concrete Dumpster Pad (8" Thick) | 42. | SY | \$ _____ | \$ _____ |
| 31 | 608 | Concrete Driveway (8" Thick) | 110. | SY | \$ _____ | \$ _____ |
| 32 | 608 | Monolithic Curb, Gutter, Sidewalk (7' Wide) | 324. | LF | \$ _____ | \$ _____ |
| 33 | 608 | 1'6" Concrete Spill Curb and Gutter (To Include Subgrade Excavation, Reconditioning, & 6" Class 6 ABC) | 521. | LF | \$ _____ | \$ _____ |
| 34 | 608 | 2' Concrete Curb and Gutter (To Include Subgrade Excavation, Reconditioning, & 6" Class 6 ABC) | 73. | LF | \$ _____ | \$ _____ |
| 35 | 614 | End of Roadway Signs | 3. | EA | \$ _____ | \$ _____ |
| 36 | 620 | Sanitary Facility | | Lump Sum | --- | \$ _____ |
| 37 | 625 | Construction Surveying | | Lump Sum | --- | \$ _____ |
| 38 | 626 | Mobilization | | Lump Sum | --- | \$ _____ |
| 39 | 630 | Traffic Control (Complete In Place) | | Lump Sum | --- | \$ _____ |
| 40 | 630 | Traffic Control Plan | | Lump Sum | --- | \$ _____ |
| MCR | | Minor Contract Revisions | | --- | --- | \$ 15,000.00 |

Bid Amount: \$ _____

Bid Amount: _____

dollars

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: **2020 Horizon Place**

CONTRACTOR:

PROJECT ENGINEER: Eric Mocko

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

STREET CONSTRUCTION

| | | | | |
|---------------------------------------|--|--|--|--|
| Asphalt mix design | | | | |
| Base course gradation, Proctor curves | | | | |
| Concrete Mix Designs | | | | |
| Water Line Pipe | | | | |
| Fire Hydrant | | | | |
| Gate Valves | | | | |
| Tee | | | | |
| Elbow | | | | |

EROSION CONTROL / STORMWATER MANAGEMENT

| | | | | |
|------------------|--|--|--|--|
| Inlet Protection | | | | |
| Concrete Washout | | | | |
| | | | | |

PERMITS, PLANS, OTHER

| | | | | |
|----------------------|--|--|--|--|
| Traffic Control Plan | | | | |
| | | | | |
| | | | | |

Appendix B

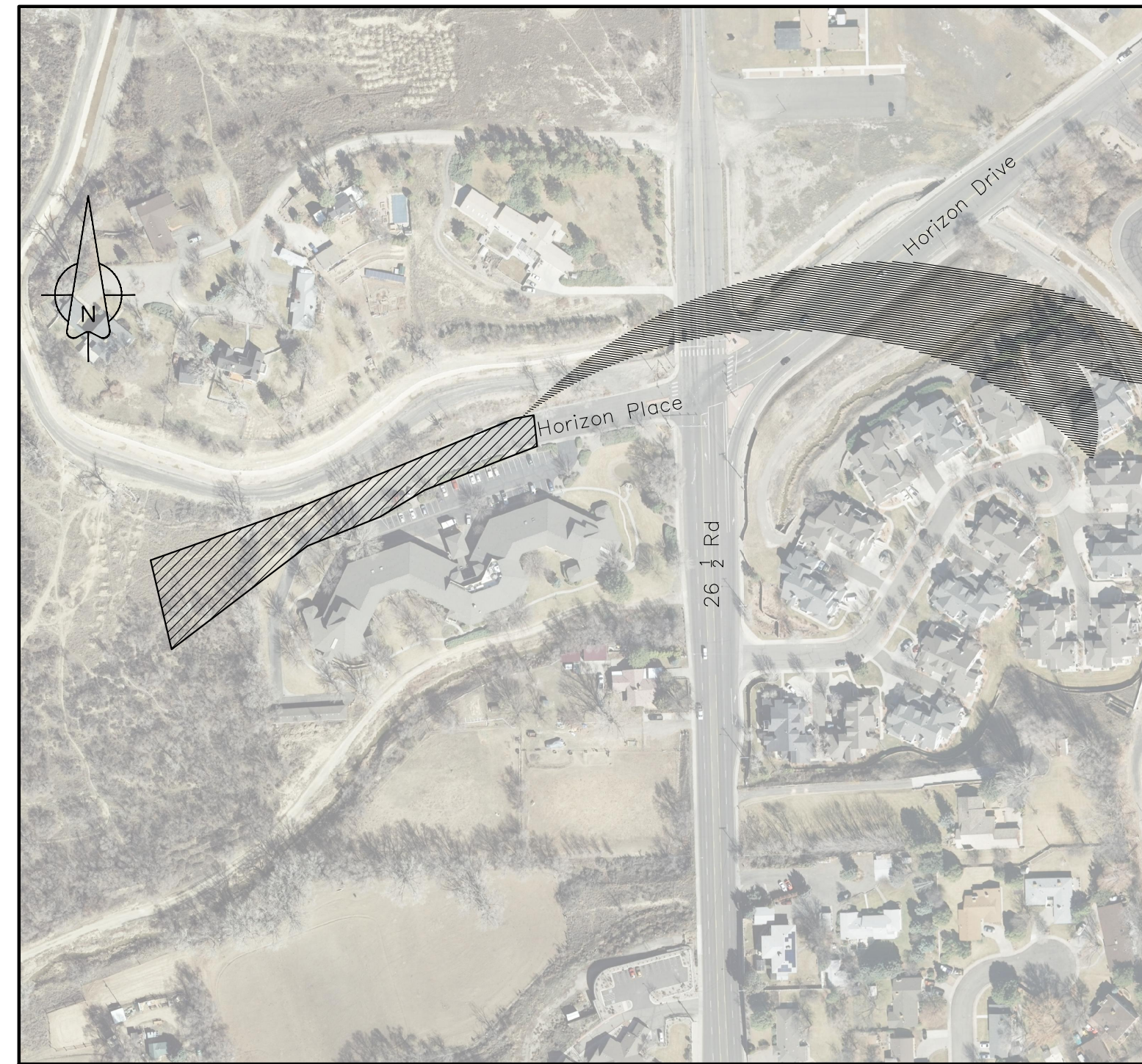
Construction Drawings

CITY OF GRAND JUNCTION
 250 NORTH 5TH STREET
 Grand Junction, Colorado 81501
 (970) 244-1501

PLANS FOR
 CONSTRUCTION OF

HORIZON PLACE

FEBRUARY 18, 2020




VICINITY MAP
 NTS

PROJECT
 LOCATION



| NO. | TITLE |
|-----|--|
| C1 | COVER |
| C2 | TYPICAL CONSTRUCTION NOTES |
| C3 | DEMOLITION PLAN |
| C4 | SITE PLAN |
| C5 | UTILITY COMPOSITE PLAN |
| C6 | HORIZON PLACE PLAN & PROFILE |
| C7 | GRADING PLAN COMMUNITY LANE/DUMPSTER ENCLOSURE |

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

| NO. | REVISIONS | DATE | BY |
|-----|------------------------------|----------|-----|
| 1 | RESPONSE TO 2-24-20 COMMENTS | 02-26-20 | CIM |
| 2 | RESPONSE TO 3-19-20 COMMENTS | 03-19-20 | CIM |

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 123 North 7th Street, Suite 300 • Grand Junction, Colorado 81501
 (970) 242-7540

| |
|---|
| HORIZON PLACE |
| description COVER |
| 601 HORIZON PLACE |
| prepared for CITY OF GRAND JUNCTION |

| | | | |
|--------------------------|---------------------|-------------|---------------------|
| DRAWN BY: CIM | DESIGNED BY: CIM | CHECKED BY: | APPROVED BY: MFA |
| JOB NUMBER: 1382.0001 | | | |
| DATE: 02-18-20 | | | |
| SCALE: NTS | | | |
| SHEET NO: C-1 | | | |

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

GENERAL CONSTRUCTION NOTES

- Contractor shall contact Mark Barslund, City of Grand Junction's Development Inspector and 5-2-1 Drainage Authority Representative, at (970) 201-1362 and Eric Mocko, Project Engineer, at (970) 256-4017 a minimum of 72 hours in advance, for pre-construction meeting prior to beginning work.
- 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 work within the City of Grand Junction Right-of-Way shall require a "Work in the Right-of-Way" Permit. All construction work shall be in accordance with the latest edition of the City of Grand Junction Standard Specifications.
- All concrete shall have a minimum of 6" of Class VI ABC, unless otherwise noted.
- The Contractor shall be required to comply with the requirements and recommendations of the Huddleston Berry Geotech report titled Juniper Ridge Community School, Project No. 01588-0002 dated November 27, 2018, unless otherwise noted.
- All fill, building, concrete or asphalt pavement areas shall be stripped of a minimum 6-inches of topsoil.

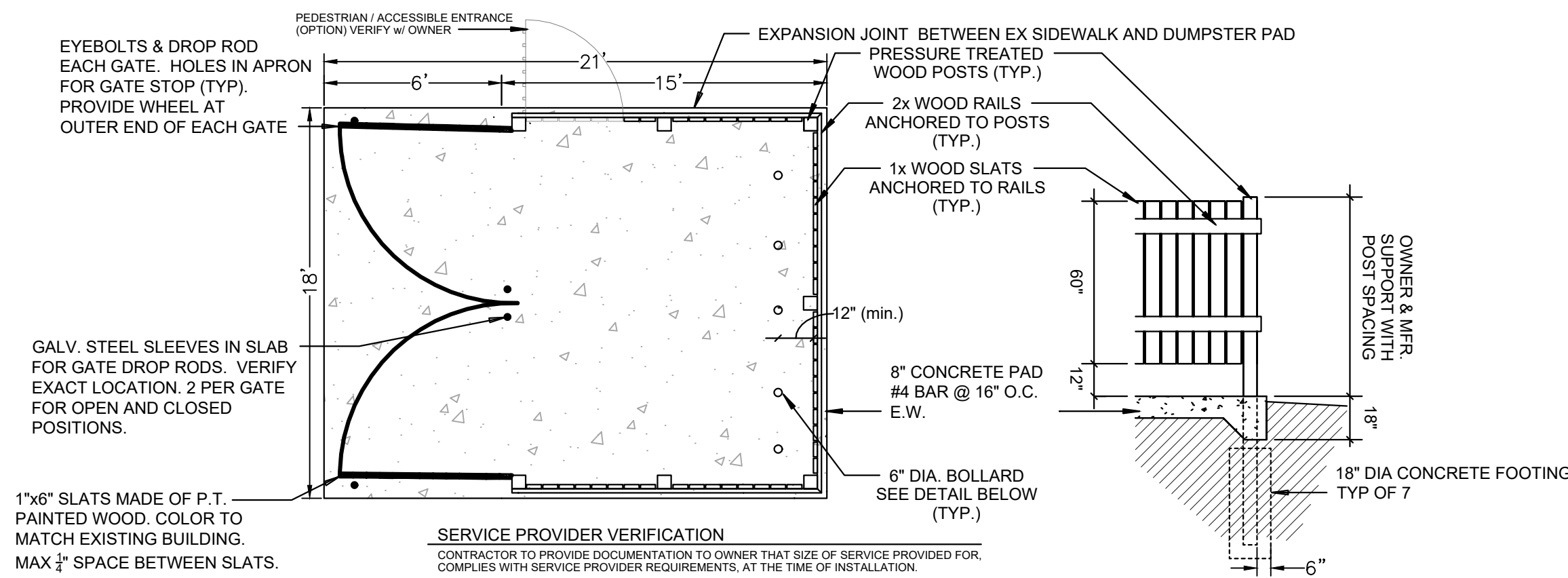
PAVING CONSTRUCTION NOTES

- All road widths and radii are to flow line unless noted otherwise. Any "spot" design elevations are to flow line of curb and gutter unless otherwise noted.
- Prior to pavement placement, the pavement prism should be stripped of all unsuitable materials. It is recommended that the subgrade soils be scarified to a depth of 12-inches, moisture conditioned, and recompact to a minimum of 95% of the standard Proctor maximum dry density, within ±2% of optimum moisture as determined by AASHTO T-99.
- Contractor to protect existing utilities and appurtenances. Manholes, drainage inlets, utility lines, etc., damaged, covered, or filled with dirt or debris by the Contractor shall be cleaned and repaired at no expense to the Owner.
- Where proposed pavement is to match existing pavement, existing pavement is to be squared cut, full base thickness is to be brought to match line and existing surface is to be tack-coated before proposed surface is placed.
- All handicap ramps, sidewalks and curb and gutter are to be constructed where indicated on the plans and in accordance The City of Grand Junction requirements..
- Curb, gutter, and drainage pans are to have expansion joints at each change in horizontal alignment of curb and gutter, but in no case at a greater distance apart than 100 feet. Locate dummy grooved joints between expansion joints at intervals not exceeding 10 feet. Where length of pour precludes 10 foot intervals, the end sections may be less than 10 feet but not less than 5 feet.

7. PAVEMENT SECTION: "Hot-Mix Asphalt" 5-inch HMA over 9-inch CDOT Class 6 over 12-inch scarified & recompact subgrade. " Rigid Pavement" 6-inch Portland Cement Concrete w/ #4 bars @ 16" cntrs., E.W. over 8-inch CDOT Class 6 over 12-inch scarified & recompact subgrade.

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.



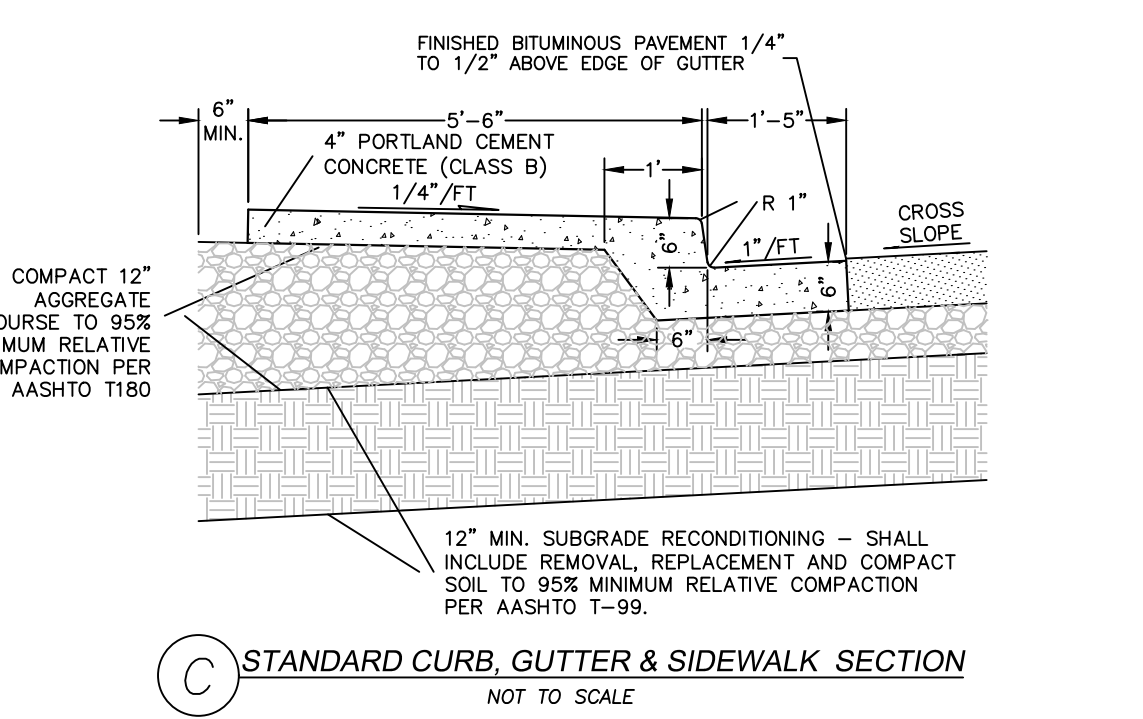
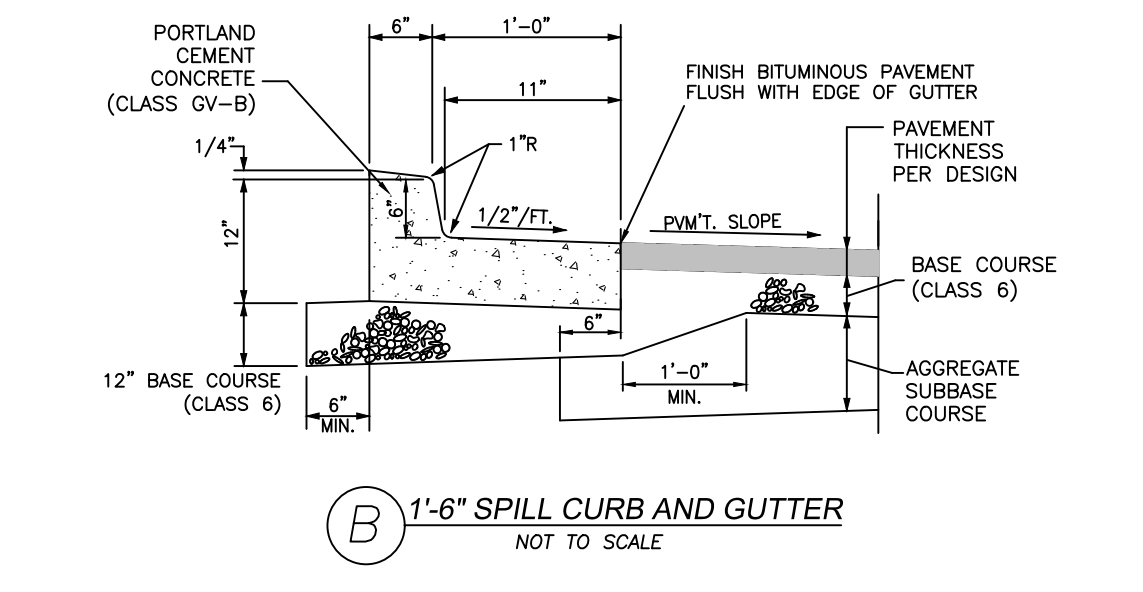
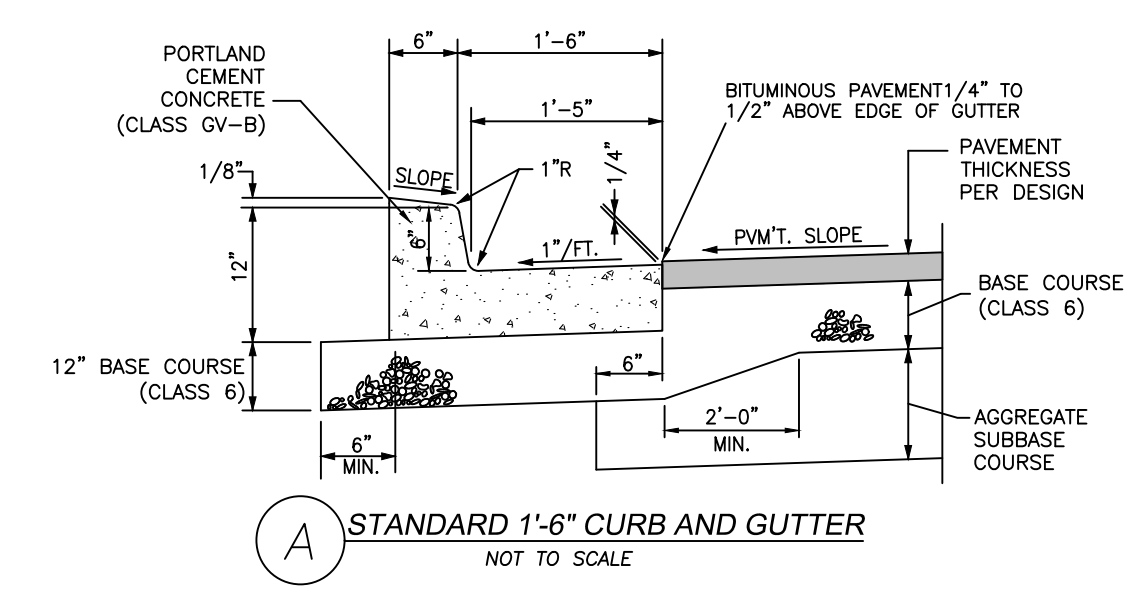
GENERAL NOTES

- ALL POSTS, RAILS, SLATS, GATES AND SCREENING COMPONENTS (ALONG WITH ACCESSORY ITEMS) SHALL BE FLUSH AND FREE OF SPURS, AND SHARP EDGES. INSTALLATION SHALL BE LEVEL, PLUMB, SQUARE AND COMPLY WITH MFR. SPECIFICATIONS. GATE CONSTRUCTION, FINISH OPERATIONS AND LOCKING DEVICES SHALL BE COORDINATED WITH OWNER.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL.
- ALTERNATE MATERIALS (ACCEPTABLE TO AUTHORITY HAVING JURISDICTION & COORDINATED WITH SERVICE PROVIDER) MAY BE SUBMITTED TO OWNER FOR APPROVAL.
- FINISH PAINT TO MATCH BUILDING
- PLACE CONCRETE PAD OVER 12" CDOT CLASS 6 OVER 12" SCARIFIED & RECOMPACTED SUBGRADE.

| 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 WATER METER |
| ▬ | EXISTING RETAINING WALL | ⊕ | PROPOSED METER/BACKFLOW VAULT |
| ▬ | EXISTING 1-FEET CONTOUR | ⊕ | PROPOSED IRRIGATION MANHOLE |
| ▬ | EXISTING 5-FEET CONTOUR | ⊕ | PROPOSED FENCE |
| ▬ | PROPOSED 1-FEET CONTOUR | ⊕ | EXISTING FENCE |
| ▬ | PROPOSED 5-FEET CONTOUR | ⊕ | PROPOSED TRAFFIC FLOW |
| ▬ | EXISTING GRAVEL | ⊕ | GRADE BREAK |
| ▬ | PROPOSED GRAVEL | ⊕ | ROOF DRAIN (RD) |
| ▬ | EXISTING ASPHALT | ⊕ | STREET LIGHT POLE |
| ▬ | PROPOSED ASPHALT | ⊕ | FIRE DEPARTMENT CONNETION |
| ▬ | PROPOSED HEAVY DUTY ASPHALT | ⊕ | PARKING LOT LIGHT |
| ▬ | EXISTING CONCRETE | ⊕ | PROPOSED BUILDING LIGHT |
| ▬ | PROPOSED CONCRETE | ⊕ | POWER POLE |
| ▬ | PROPOSED HEAVY DUTY CONCRETE | ⊕ | FLOWLINE |
| ▬ | EXISTING SANITARY SEWER | ⊕ | EDGE OF PAVEMENT |
| ▬ | PROPOSED SANITARY SEWER | ⊕ | TOP OF CONCRETE |
| ⊕ | EXISTING SANITARY SEWER MANHOLE | ⊕ | TOP OF WALL |
| ⊕ | PROPOSED SANITARY SEWER MANHOLE | ⊕ | BOW BOTTOM OF WALL |
| ⊕ | PROPOSED SANITARY SEWER CLEANOUT | ⊕ | TBW TOP BACK OF WALK |
| ▬ | EXISTING STORM SEWER | ⊕ | TC TOP OF CURB |
| ▬ | PROPOSED STORM SEWER | ⊕ | BOC BACK OF CURB |
| ▬ | EXISTING STORM SEWER INLET | ⊕ | LS LANDSCAPE AREA |
| ▬ | PROPOSED STORM SEWER INLET | ⊕ | ULS UTILITY PEDESTALS (TEL & ELEC) |
| ▬ | | ⊕ | TRANSFORMER |

| UTILITIES AND AGENCIES | | |
|-------------------------------------|---------------|----------|
| CITY OF GRAND JUNCTION PUBLIC WORKS | MARK BARSLAND | 244-1554 |
| GRAND VALLEY IRRIGATION | PHIL BERTRAND | 242-2762 |
| CITY OF GRAND JUNCTION PUBLIC WORKS | MARK BARSLAND | 244-1554 |
| XCEL ENERGY | BRENDA BOES | 244-2681 |
| CENTURY LINK | CHRIS JOHNSON | 244-4333 |
| CHARTER | JOHN VALDEZ | 245-8750 |

TYPICAL CONCRETE SECTIONS



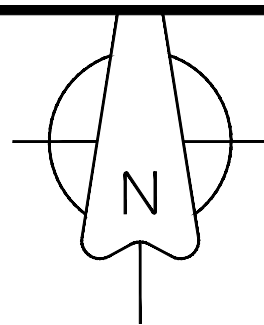
| | |
|--|---|
| Know what's below. Call before you dig. | |
| | SCALE VERIFICATION BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY |
| NO. | REVISIONS |
| DATE | DESCRIPTION |
| 02-28-20 | 1 RESPONSE TO 2-24-20 COMMENTS |
| 03-19-20 | 2 RESPONSE TO 3-19-20 COMMENTS |

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Land Planning • Civil Engineering • Development Services
123 North 7th Street, Suite 300 • Grand Junction, Colorado 81501
(970) 242-7540

| | |
|--------------------------|-----------------------------------|
| HORIZON PLACE | GENERAL CONSTRUCTION NOTES |
| 601 HORIZON PLACE | CITY OF GRAND JUNCTION |
| DRAWN BY: CIM | DESIGNED BY: CIM |
| CHECKED BY: MFA | APPROVED BY: CIM |
| JOB NUMBER: 1382.0001 | DATE: 02-18-20 |
| SCALE: NTS | SHEET NO: C-2 |



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.
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VALLEY CANAL

WINTERFELL MESA VIEW
PARCEL NO. 2945-023-24-002

HORIZON PLACE

CLEAR & GRUB ±766 SY

REMOVE AND DISPOSE OF
±112 LF CURB & GUTTER

REMOVE AND DISPOSE OF
±10,340 SF ASPHALT

REMOVE AND DISPOSE
OF ±110 LF SIDEWALK
& CURB & GUTTER

CLEAR & GRUB ±100 SY

REMOVE & DISPOSE OF
MANHOLE, PLUG INLET
& OUTLET.

REMOVE & DISPOSE
OF TREE.

REMOVE AND DISPOSE
OF FIRE HYDRANT

REMOVE AND DISPOSE
OF ±50 SY CONCRETE

REMOVE AND DISPOSE
OF ±17 LF CURB

CLEAR & GRUB ±59 SY

CLEAR & GRUB ±42 SY

REMOVE & DISPOSE OF
DUMPSTER ENCLOSURE
& CONCRETE SLAB

REMOVE & DISPOSE OF
30 LF CHAIN LINK FENCE

WINTERFELL MESA VIEW (CO) OWNER LLC
c/o NORTHSTAR REALTY FINANCE CORP

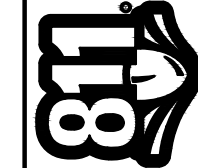
LOT 1 MESA VIEW RETIREMENT RESIDENCE

JUNIPER RIDGE SCHOOL

CLEAR & GRUB ±147 SY

REMOVE & DISPOSE
OF TREE

PRESERVE TREES



| NO. | REVISIONS | DATE | BY |
|-----|------------------------------|----------|-----|
| 1 | RESPONSE TO 2-24-20 COMMENTS | 02-28-20 | CIM |
| 2 | RESPONSE TO 3-19-20 COMMENTS | 03-19-20 | CIM |

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 Land Planning • Civil Engineering • Development Services
 123 North 7th Street, Suite 300 • Grand Junction, Colorado 81501
 (970) 242-7540

HORIZON PLACE
 DEMOLITION PLAN
 601 HORIZON PLACE
 prepared for
CITY OF GRAND JUNCTION

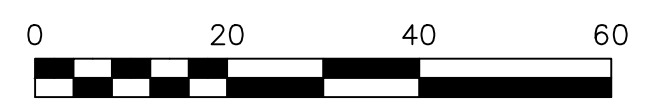
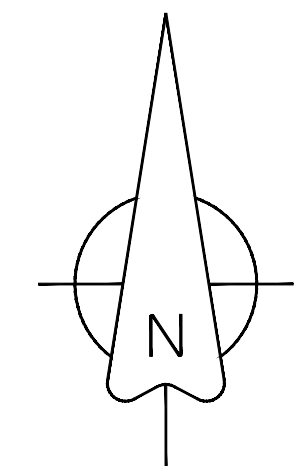
| | |
|--------------|-----|
| DRAWN BY: | CIM |
| DESIGNED BY: | CIM |
| CHECKED BY: | MFA |
| APPROVED BY: | CIM |

JOB NUMBER: 1382.0001
 DATE: 02-18-20
 SCALE: 1"=20'
 SHEET NO: C-3



ACCEPTANCE BLOCK
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CITY DEVELOPMENT ENGINEER DATE

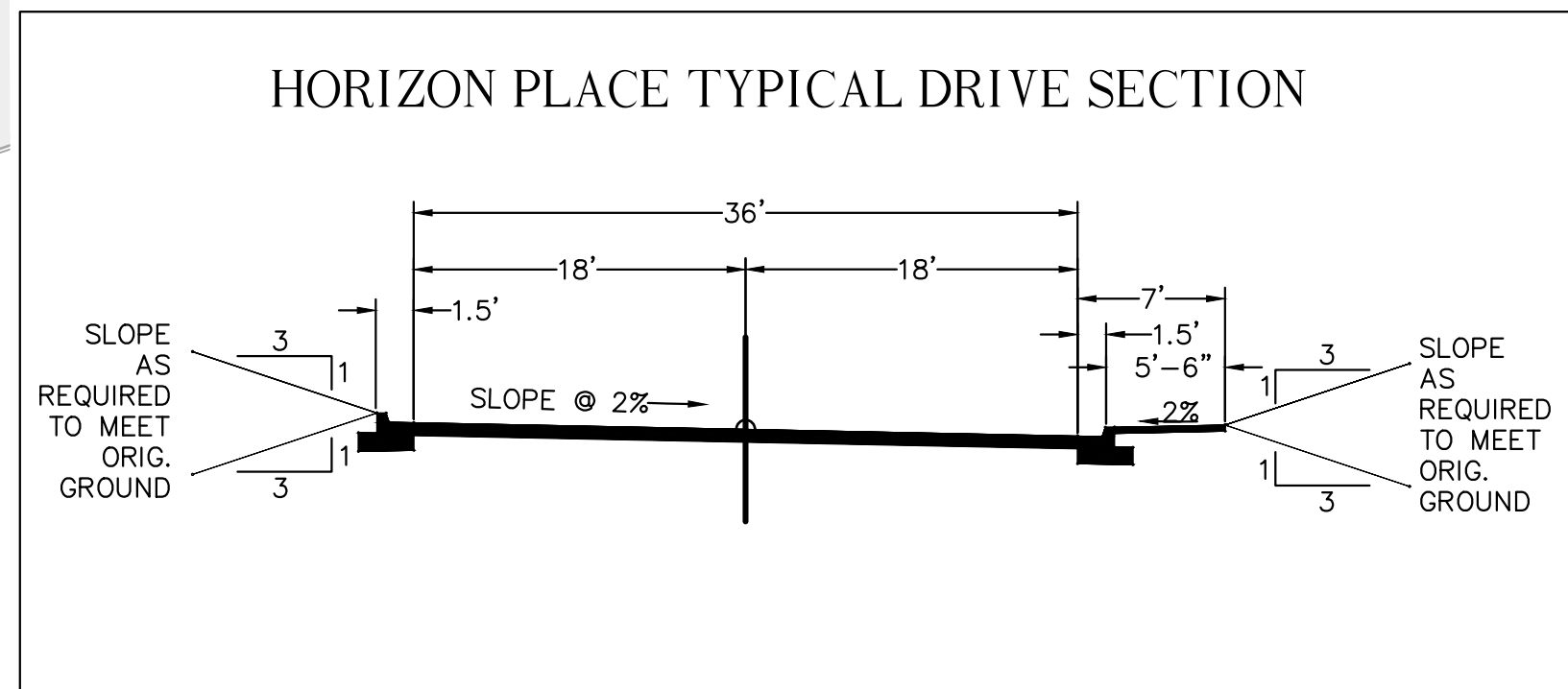
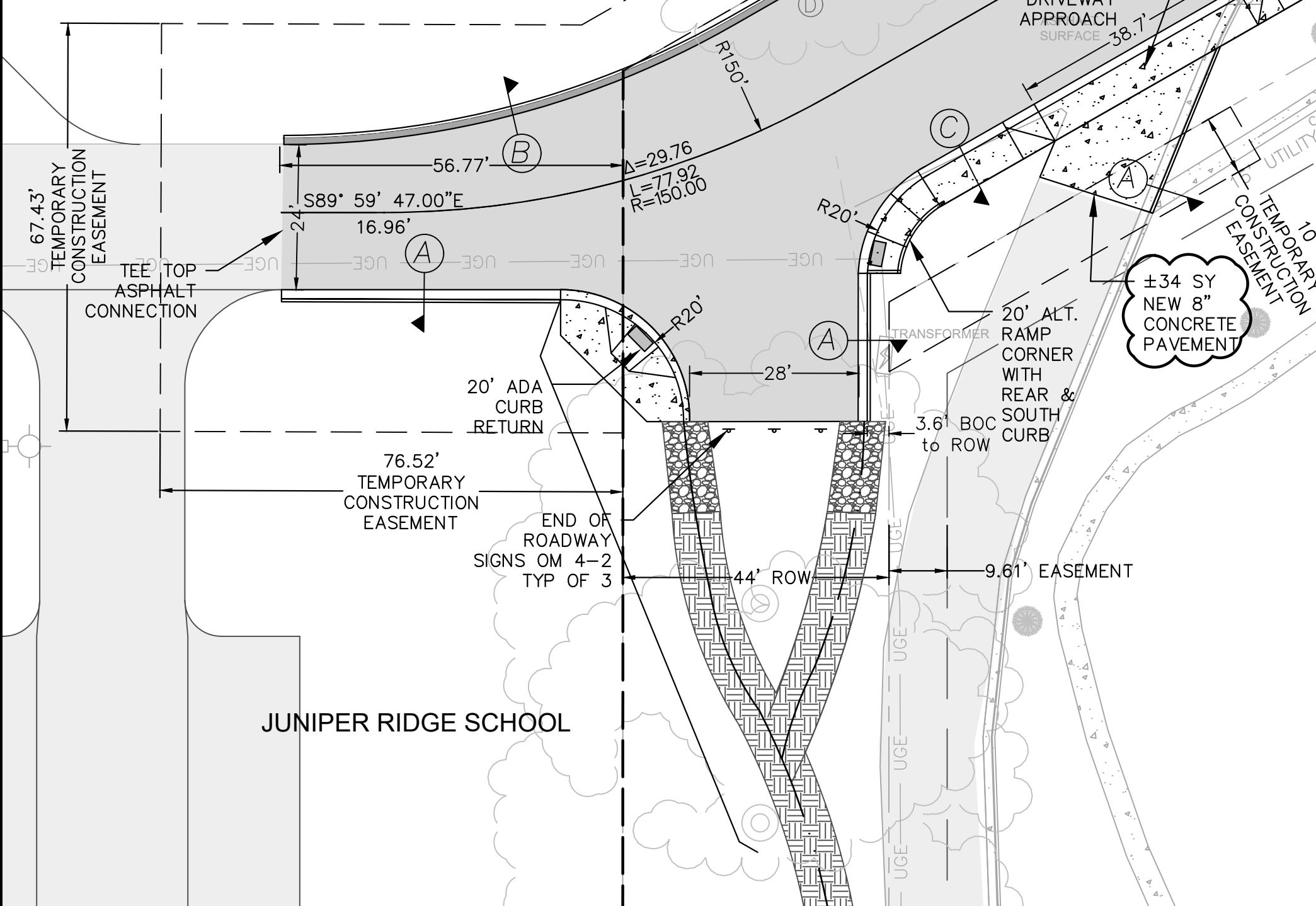


VALLEY CANAL

WINTERFELL MESA VIEW
PARCEL NO. 2945-023-24-002

CITY OF GRAND JUNCTION

HORIZON PLACE



WINTERFELL MESA VIEW (CO) OWNER LLC
c/o NORTHSTAR REALTY FINANCE CORP

| UTILITIES AND AGENCIES | | |
|-------------------------------------|---------------|----------|
| CITY OF GRAND JUNCTION PUBLIC WORKS | MARK BARSLAND | 244-1554 |
| GRAND VALLEY IRRIGATION | PHIL BERTRAND | 242-2762 |
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| XCEL ENERGY | BRENDA BOES | 244-2681 |
| CENTURY LINK CHARTER | CHRIS JOHNSON | 244-4333 |
| | JOHN VALDEZ | 245-8750 |

| 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-FT CONTOUR |
| --- | EXISTING 5-FT CONTOUR |
| --- | PROPOSED 1-FT CONTOUR |
| --- | PROPOSED 5-FT CONTOUR |
| --- | 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 |
| --- | EXISTING STORM SEWER |
| --- | PROPOSED STORM SEWER |
| --- | EXISTING STORM SEWER INLET |
| --- | PROPOSED STORM SEWER INLET |
| --- | EXISTING STORM SEWER MANHOLE |
| --- | PROPOSED STORM SEWER MANHOLE |
| --- | PROPOSED INLINE DRAIN |
| --- | 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 |
| --- | BOW |
| --- | TOW |
| --- | TOP BACK OF WALK |
| --- | TOP OF CURB |
| --- | BACK OF CURB |
| --- | LANDSCAPE AREA |
| --- | UTILITY PEDESTALS |

NOTE:
1. OBTAIN WORK IN RIGHT OF WAY PERMITS FROM THE CITY OF GRAND JUNCTION BEFORE DOING ANY WORK ALONG HORIZON PLACE.
2. RESTORE LANDSCAPING TO EQUAL OR BETTER THAN EXISTING CONDITION OR INSTALL SIMILAR ROCK OVER WEED FABRIC IN AREAS WHERE NO LANDSCAPING EXISTS ALONG ENTIRE PROJECT.



Know what's below.
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SCALE VERIFICATION
BAR IS ONE INCH ON ORIGINAL DRAWING
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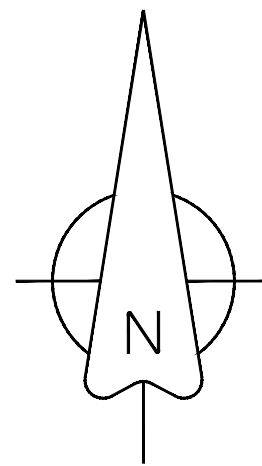
| NO. | REVISIONS | DATE | BY |
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| 1 | RESPONSE TO 2-24-20 COMMENTS | 02-26-20 | CIM |
| 2 | RESPONSE TO 3-19-20 COMMENTS | 03-19-20 | CIM |

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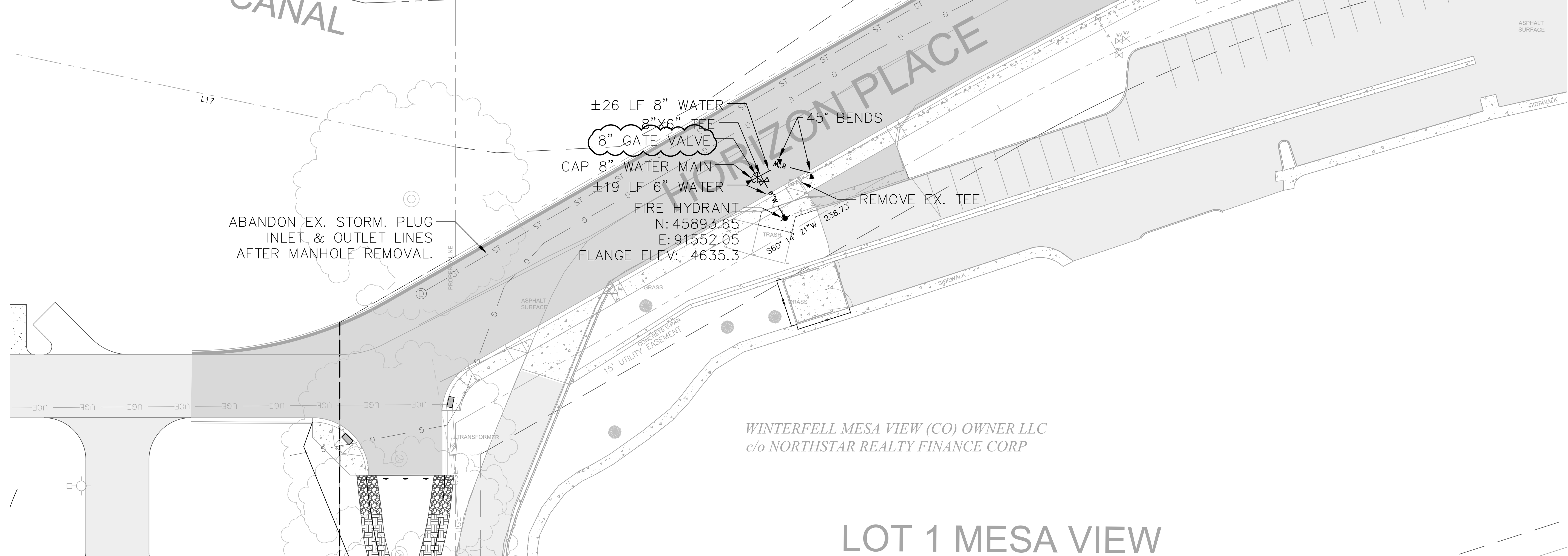
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| HORIZON PLACE | | SITE PLAN | |
|---------------|-----------|--------------|----------|
| DRAWN BY: | CIM | DESIGNED BY: | CIM |
| CHECKED BY: | MFA | APPROVED BY: | CIM |
| JOB NUMBER: | 1382.0001 | DATE: | 02-18-20 |
| SCALE: | 1"=20' | SHEET NO.: | C-4 |



AND VALLEY CANAL

WINTERFELL MESA VIEW
PARCEL NO. 2945-023-24-002



ABANDON EX. STORM. PLUG
INLET & OUTLET LINES
AFTER MANHOLE REMOVAL.

±26 LF 8" WATER
8" X 6" TEE
8" GATE VALVE
CAP 8" WATER MAIN
±19 LF 6" WATER
FIRE HYDRANT
N: 45893.65
E: 91552.05
FLANGE ELEV: 4635.3
REMOVE EX. TEE

WINTERFELL MESA VIEW (CO) OWNER LLC
c/o NORTHSTAR REALTY FINANCE CORP

LOT 1 MESA VIEW

NOTE:

- OBTAIN WORK IN RIGHT OF WAY PERMITS FROM THE CITY OF GRAND JUNCTION BEFORE DOING ANY WORK ALONG HORIZON PLACE.

| UTILITIES AND AGENCIES | | |
|-------------------------------------|---------------|----------|
| CITY OF GRAND JUNCTION PUBLIC WORKS | MARK BARSLAND | 244-1554 |
| GRAND VALLEY IRRIGATION | PHIL BERTRAND | 242-2762 |
| CITY OF GRAND JUNCTION PUBLIC WORKS | MARK BARSLAND | 244-1554 |
| XCEL ENERGY | BRENDA BOES | 244-2681 |
| CENTURY LINK CHARTER | CHRIS JOHNSON | 244-4333 |
| | JOHN VALDEZ | 245-8750 |

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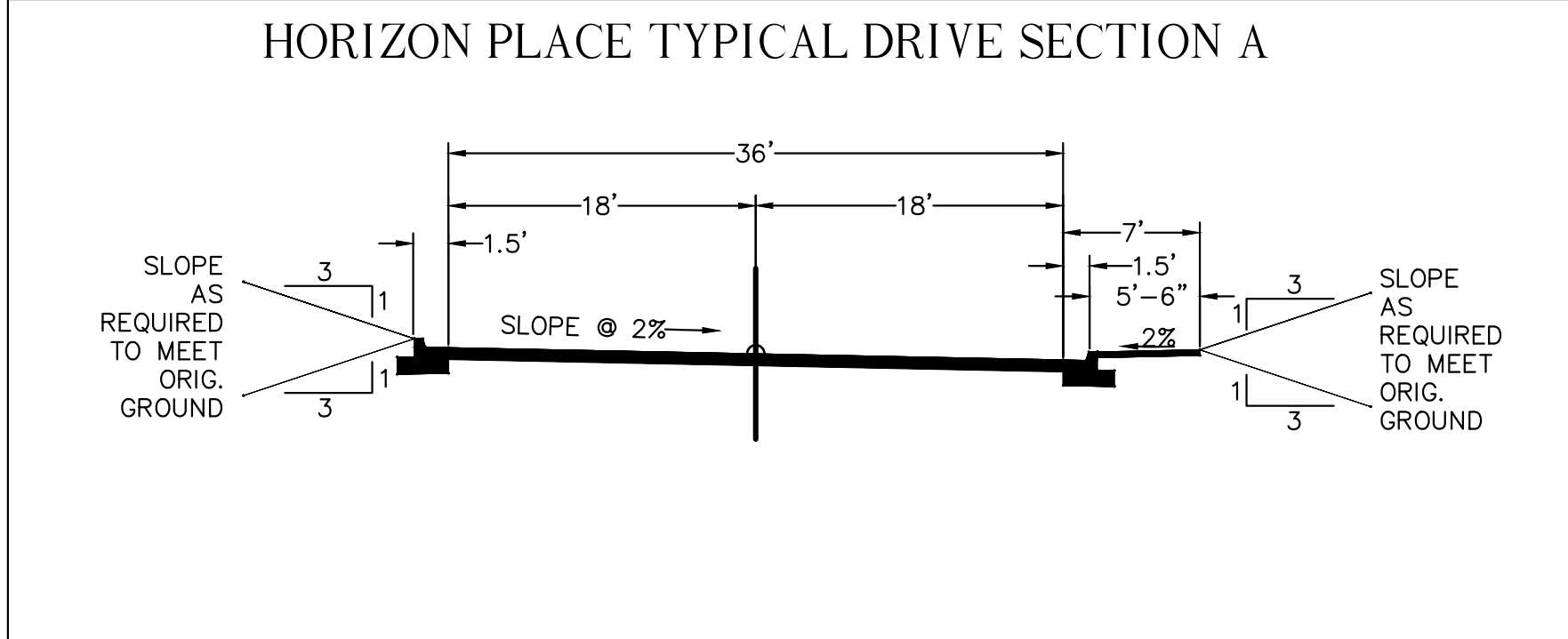
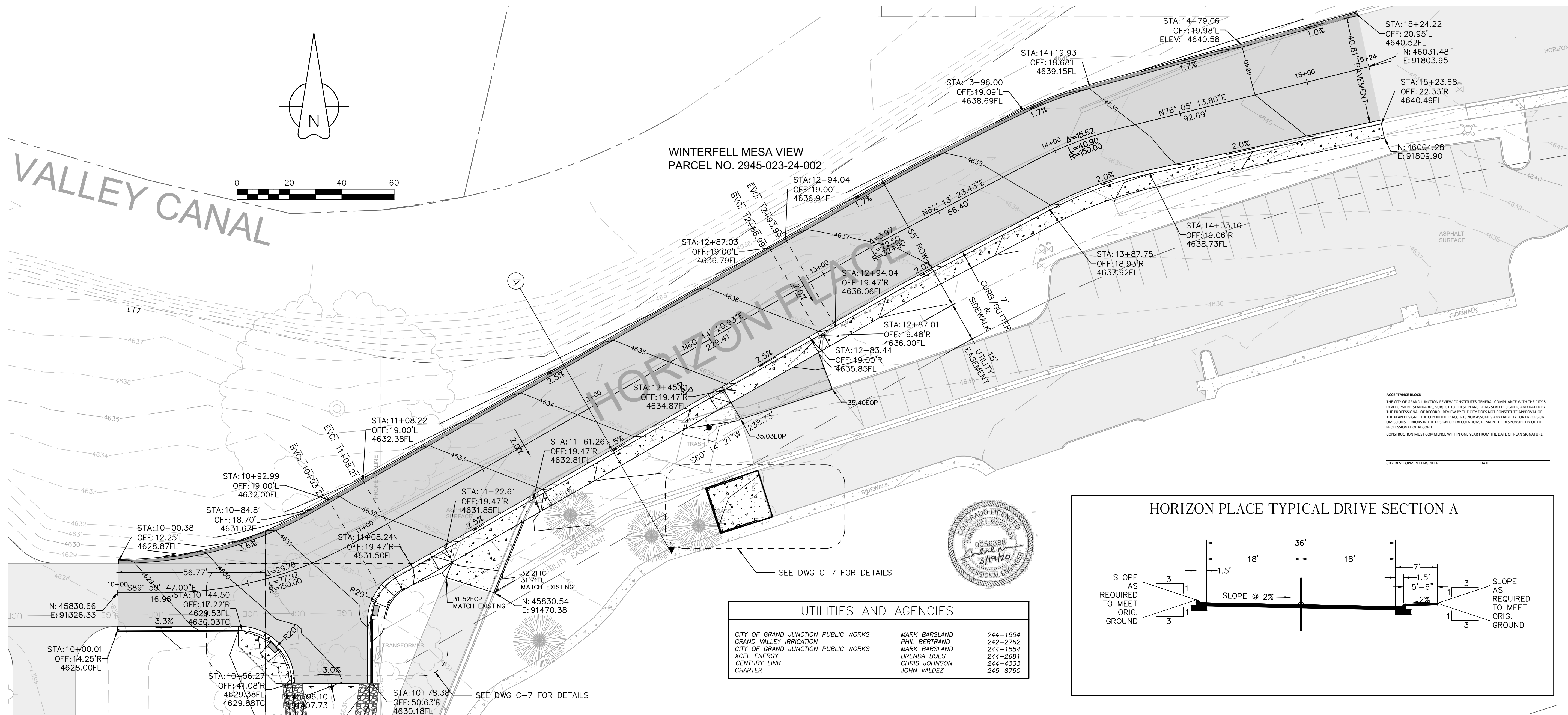
HORIZON PLACE
UTILITY COMPOSITE PLAN
601 HORIZON PLACE
CITY OF GRAND JUNCTION

| | |
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| DESIGNED BY: | CIM |
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| JOB NUMBER: | 1382.0001 |
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| SHEET NO.: | C-5 |

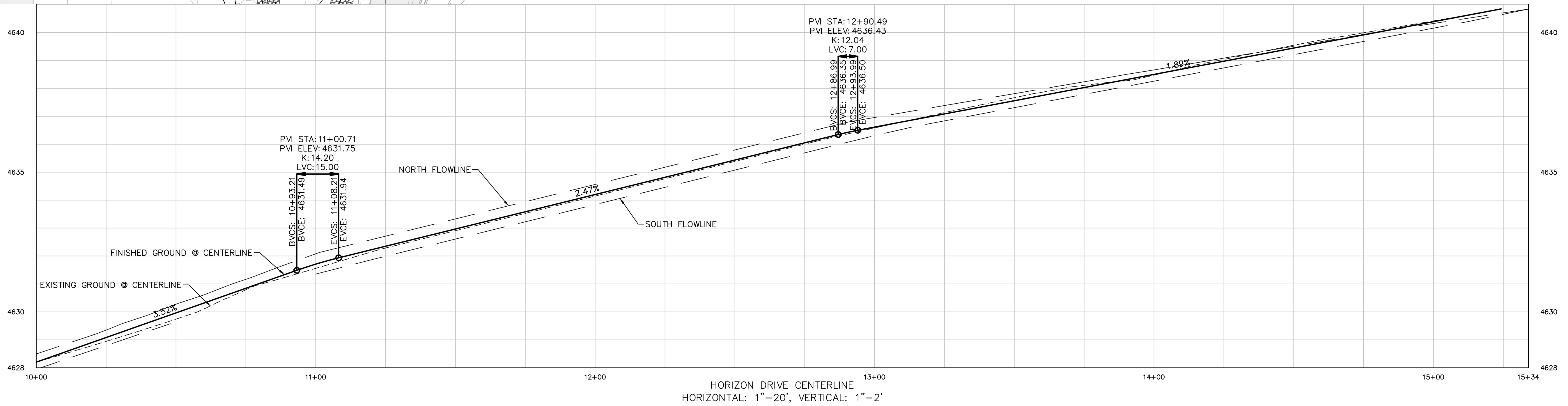


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CONSTRUCTION MUST COMMENCE WITHIN ONE YEAR FROM THE DATE OF PLAN SIGNATURE.

CITY DEVELOPMENT ENGINEER DATE



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| CENTURY LINK | CHRIS JOHNSON | 244-4333 |
| CHARTER | JOHN VALDEZ | 245-8750 |



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HORIZON PLACE
 HORIZON PLACE PLAN & PROFILE
 601 HORIZON PLACE
 prepared for
CITY OF GRAND JUNCTION

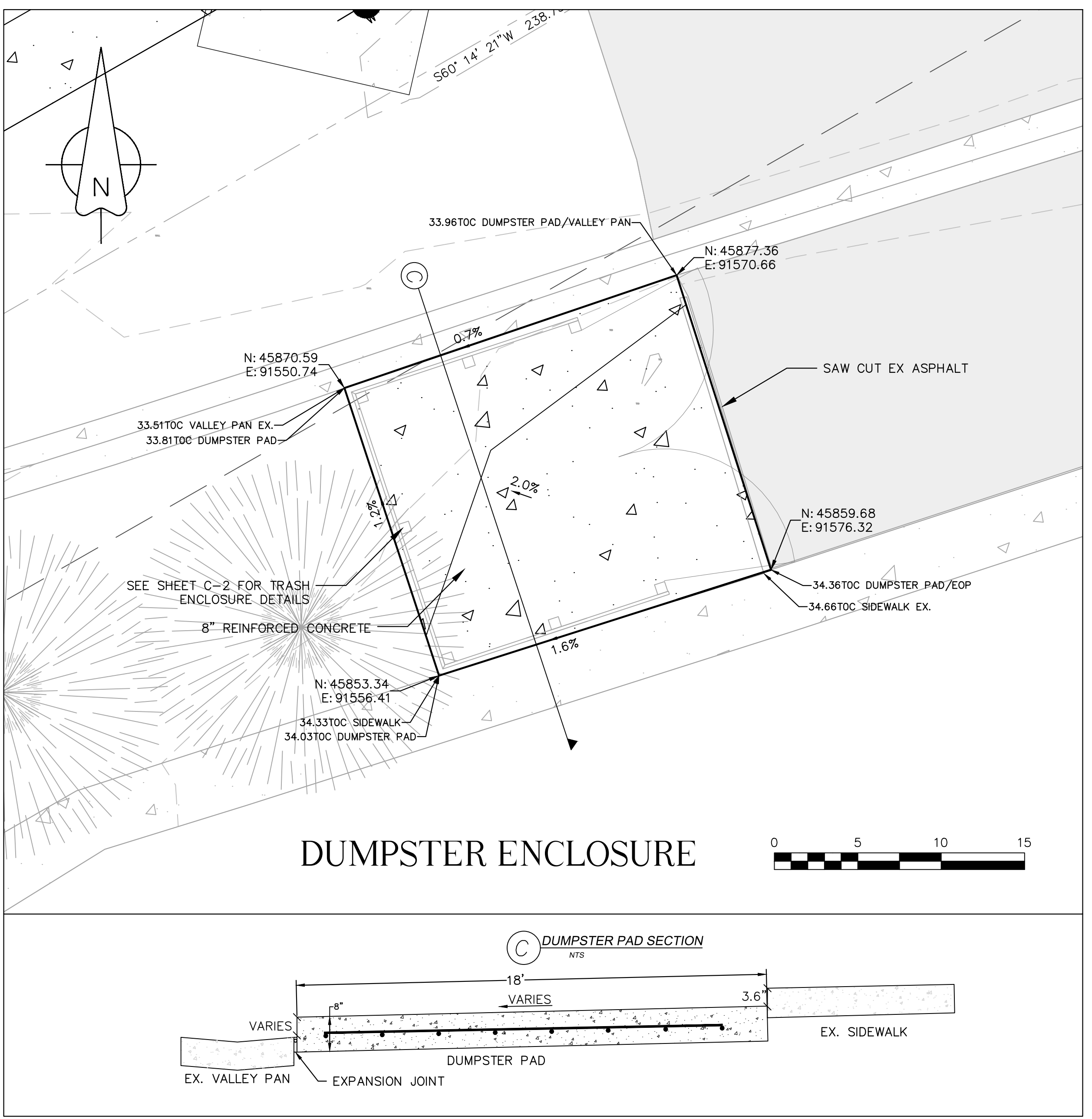
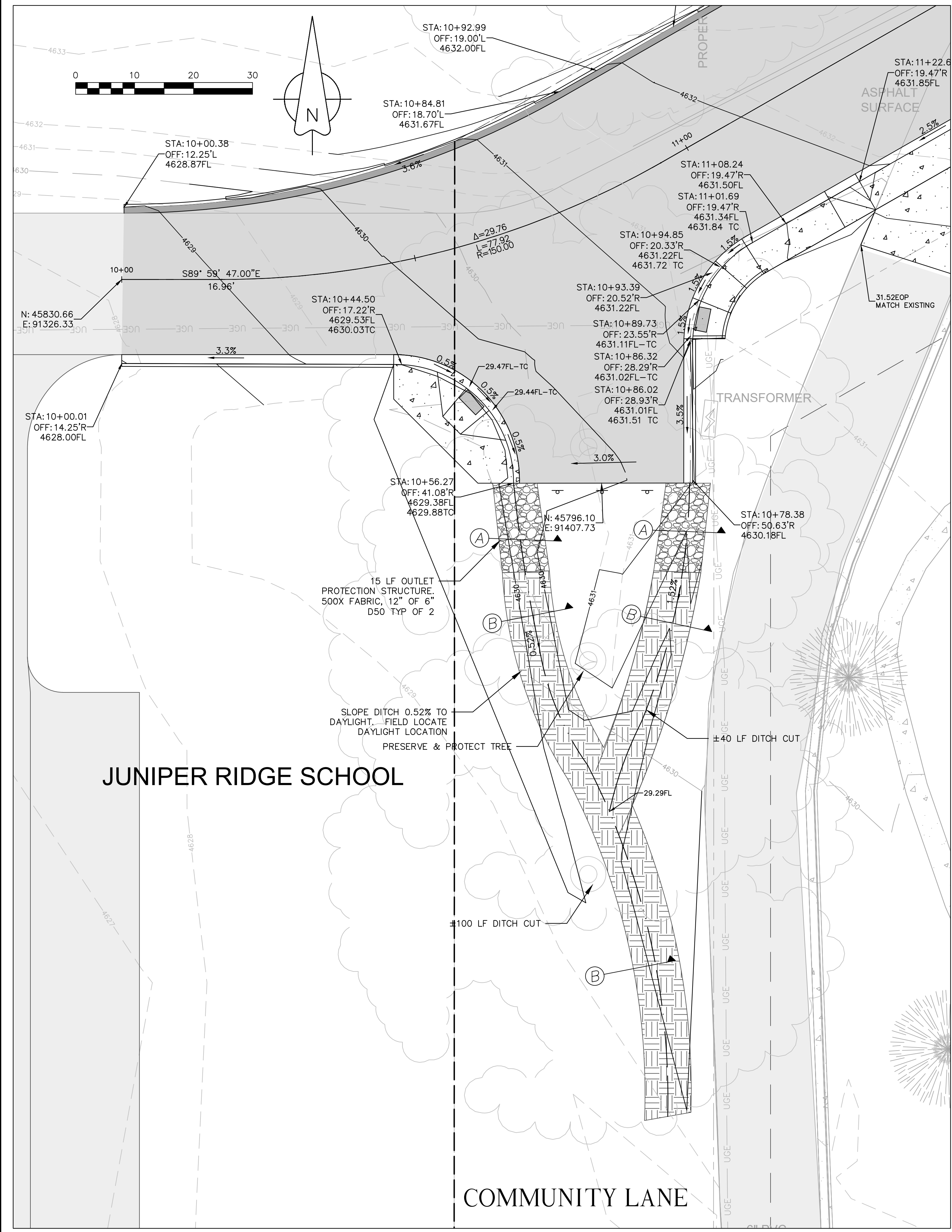
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| DRAWN BY: | CIM |
| DESIGNED BY: | CIM |
| CHECKED BY: | MFA |
| APPROVED BY: | CIM |

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 DATE: 02-18-20
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 SHEET NO: C-6

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M:\PROJECTS\1382-0001 - Horizon Place Road Addition\Drawings\C3d\Production Dwg\PROD-SITE HORIZON PLACE FINAL.dwg, 3/19/2020 10:44:35 AM, AutoCAD PDF (General Documentation).pc3



| UTILITIES AND AGENCIES | | |
|-------------------------------------|---------------|----------|
| CITY OF GRAND JUNCTION PUBLIC WORKS | MARK BARSLAND | 244-1554 |
| GRAND VALLEY IRRIGATION | PHIL BERTRAND | 242-2762 |
| CITY OF GRAND JUNCTION PUBLIC WORKS | MARK BARSLAND | 244-1554 |
| XCEL ENERGY | BRENDA BOES | 244-2661 |
| CENTURY LINK | CHRIS JOHNSON | 244-4333 |
| CHARTER | JOHN VALDEZ | 245-8750 |

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CONSTRUCTION MUST COMMENCE WITHIN ONE YEAR FROM THE DATE OF PLAN SIGNATURE.

CITY DEVELOPMENT ENGINEER _____ DATE _____

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| DATE: 02-18-20 | | | |
| SCALE: 1"=20' | | | |
| SHEET NO: C-7 | | | |

HORIZON PLACE

DESCRIPTION

GRADING PLAN COMM. LANE/DUMPSTER

PROJECT FOR

601 HORIZON PLACE

CITY OF GRAND JUNCTION