



LETTER OF INTENT

Date: February 6, 2017

Company: M.A. Concrete Construction, Inc.

Project: 1st Street Reconstruction (Ouray Ave to North Ave) IFB-4321-17-DH

Based upon review of the bid responses received for IFB-4321-17-DH 1st Street Reconstruction (Ouray Ave to North Ave), you have been selected as the lowest responsive and responsible bidder. It is the intent of the City of Grand Junction to award the aforementioned purchase to your company as is listed in the IFB documents, and your bid response, in the amount of \$2,102,074.60.

This purchase must be approved by the City of Grand Junction, City Council prior to award and a Contract being issued. The project Council date for approval is February 15, 2017.

Upon receipt of Notice to Proceed, please notify Jusin Vensel, Project Manager for project scheduling.

Please feel free to contact me with any questions at 970-244-1545.

Thank you and Best Regards

A handwritten signature in black ink, appearing to read "Duane Hoff Jr.", written in a cursive style.

Duane Hoff Jr., Senior Buyer



NOTICE OF AWARD

Date: February 16, 2017
Company: M.A. Concrete Construction, Inc.
Project: 1st Street Reconstruction (Ouray Ave to North Ave) IFB-4321-17-DH

You have been awarded the City of Grand Junction IFB-4321-17-DH 1st Street Reconstruction (Ouray Ave to North Ave) for a total price of **\$2,102,074.60**.

Please notify Justin Vensel, City of Grand Junction Project Engineer 970-256-4017 for project scheduling, and return to the City Purchasing Division an acknowledged copy of this Notice of Award, signed contract, insurance certificate, and payment & performance bonds.

CITY OF GRAND JUNCTION, COLORADO

DocuSigned by:
Duane Hoff
9F709E7D50F14BC...
Duane Hoff Jr., Senior Buyer

SUPPLIER ACKNOWLEDGEMENT

Receipt of this Notice to Award is hereby acknowledged:

Company: M.A. Concrete Construction, Inc.

By: Martin Azcarraga - President

DocuSigned by:
Martin Azcarraga - President
D8D21E7355A3471...

Title: President

Date: 2/16/2017 | 09:15 MST



CITY OF GRAND JUNCTION, COLORADO

CONTRACT

This CONTRACT made and entered into this 16th day of February 2016 by and between the City of Grand Junction, Colorado, a government entity in the County of Mesa, State of Colorado, hereinafter in the Contract Documents referred to as the "Owner" and M.A. Concrete Construction, Inc. hereinafter in the Contract Documents referred to as the "Contractor."

WITNESSETH:

WHEREAS, the Owner advertised that sealed Bids would be received for furnishing all labor, tools, supplies, equipment, materials, and everything necessary and required for the Project described by the Contract Documents and known as 1st Street Reconstruction (Ouray Ave to North Ave) IFB-4321-17-DH.

WHEREAS, the Contract has been awarded to the above named Contractor by the Owner, and said Contractor is now ready, willing and able to perform the Work specified in the Notice of Award, in accordance with the Contract Documents;

NOW, THEREFORE, in consideration of the compensation to be paid the Contractor, the mutual covenants hereinafter set forth and subject to the terms hereinafter stated, it is mutually covenanted and agreed as follows:

ARTICLE 1

Contract Documents: It is agreed by the parties hereto that the following list of instruments, drawings, and documents which are attached hereto, bound herewith, or incorporated herein by reference constitute and shall be referred to either as the "Contract Documents" or the "Contract", and all of said instruments, drawings, and documents taken together as a whole constitute the Contract between the parties hereto, and they are fully a part of this agreement as if they were set out verbatim and in full herein:

The order of contract document governance shall be as follows:

- a. The body of this contract agreement
- b. Solicitation Documents for the Project; **1st Street Reconstruction (Ouray Ave to North Ave)**;
- c. Notice of Award
- d. Contractors Response to the Solicitation

- e. Work Change Requests (directing that changed work be performed);
- f. Field Orders
- g. Change Orders.

ARTICLE 2

Definitions: The clauses provided in the Solicitation apply to the terms used in the Contract and all the Contract Documents.

ARTICLE 3

Contract Work: The Contractor agrees to furnish all labor, tools, supplies, equipment, materials, and all that is necessary and required to complete the tasks associated with the Work described, set forth, shown, and included in the Contract Documents as indicated in the Solicitation Document.

ARTICLE 4

Contract Time and Liquidated Damages: Time is of the essence with respect to this Contract. The Contractor hereby agrees to commence Work under the Contract on or before the date specified in the Solicitation from the Owner, and to achieve Substantial Completion and Final Completion of the Work within the time or times specified in the Solicitation. In the event the Work is not completed in the times set forth and as agreed upon, the Contractor further agrees to pay Liquidated Damages to the Owner as set forth in the Solicitation. The Contractor acknowledges and recognizes the delays, expenses and difficulties involved in proving in a legal proceeding the actual losses suffered by the Owner if the work is not completed on time. Accordingly, instead of requiring any such proof, the Owner and the Contractor agree that as Liquidated Damages for delay, but not as a penalty, the Contractor shall pay to the Owner the amounts specified in the Solicitation.

ARTICLE 5

Contract Price and Payment Procedures: The Contractor shall accept as full and complete compensation for the performance and completion of all of the Work specified in the Contract Documents, the sum of **Two Million One Hundred Two Thousand, Seventy Four and 60/100 Dollars (\$2,102,074.60)**. **This amount includes \$100,000 in Force Account funds (if required), and up to \$75,000 in early completion incentive (if achieved).** If this Contract contains unit price pay items, the Contract Price shall be adjusted in accordance with the actual quantities of items completed and accepted by the Owner at the unit prices quoted in the Solicitation Response. The amount of the Contract Price is and has heretofore been appropriated by the Grand Junction City Council or Mesa County Board of County Commissioners for the use and benefit of this Project. The Contract Price shall not be modified except by Change Order or other written directive of the Owner. The Owner shall not issue a Change Order or other written directive which requires additional work to be performed, which work causes the aggregate amount payable under this Contract to exceed the amount appropriated for this Project, unless and until the Owner provides Contractor written assurance that lawful appropriations to cover the costs of the additional work have been made.

Unless otherwise provided in the Solicitation, monthly partial payments shall be made as the Work progresses. Applications for partial and Final Payment shall be prepared by the Contractor and approved by the Owner in accordance with the Solicitation.

Upon Final Completion of the Work under the Contract and before the Contractor shall receive final payment, the Owner shall publish at least twice in a newspaper of general circulation published in the County a notice that: 1. the Owner has accepted such Work as completed according to the Contract Documents; 2. the Contractor is entitled to final payment therefore; 3. thirty days after the first publication, specifying the exact date, the Owner shall pay the full balance due under the Contract; and 4. persons having claims for labor, materials, team hire, sustenance, provisions, provender, or other supplies used or consumed by the Contractor or a subcontractor shall file a verified statement of the amount due and unpaid on account of such claim prior to the date specified for such payment. Nothing herein shall be construed as relieving the Contractor and the Sureties on the Contractor's Bonds from any claim or claims for work or labor done or materials or supplies furnished in the execution of the Contract.

ARTICLE 6

Bonds: The Contractor shall furnish currently herewith the Bonds required by the Contract Documents, such Bonds being attached hereto. The Performance Bond shall be in an amount not less than one hundred percent (100%) of the Contract Price set forth in Article 5. The Payment Bond shall be in an amount not less than one hundred (100%) of the Contract Price set forth in Article 5.

ARTICLE 7

Contract Binding: The Owner and the Contractor each binds itself, its partners, successors, assigns and legal representatives to the other party hereto in respect to all covenants, agreements and obligations contained in the Contract Documents. The Contract Documents constitute the entire agreement between the Owner and Contractor and may only be altered, amended or repealed by a duly executed written instrument. Neither the Owner nor the Contractor shall, without the prior written consent of the other, assign or sublet in whole or in part its interest under any of the Contract Documents and specifically, the Contractor shall not assign any moneys due or to become due without the prior written consent of the Owner.

ARTICLE 8

Severability: If any part, portion or provision of the Contract shall be found or declared null, void or unenforceable for any reason whatsoever by any court of competent jurisdiction or any governmental agency having the authority thereover, only such part, portion or provision shall be effected thereby and all other parts, portions and provisions of the Contract shall remain in full force and effect.

IN WITNESS WHEREOF, City of Grand Junction, Colorado, has caused this Contract to be subscribed and sealed and attested in its behalf; and the Contractor has signed this Contract the day and the year first mentioned herein.

The Contract is executed in two counterparts.

CITY OF GRAND JUNCTION, COLORADO

DocuSigned by:
Duane Hoff
By: _____
9F799E7D56F1486...
Duane Hoff Jr., Senior Buyer

2/16/2017 | 10:38 MST

Date

M.A. Concrete Construction, Inc.

DocuSigned by:
Martin Azcarraga - President
By: _____
D8D34E725BA3471...
Martin Azcarraga - President President

2/16/2017 | 09:16 MST

Date



Purchasing Division

Invitation for Bid

IFB-4321-17-DH

1st Street Reconstruction (Ouray Ave to North Ave.)

Responses Due:

February 1, 2017 prior to 3:30 PM

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

Table of Contents

Section 1	Instruction to Bidders
Section 2	General Contract Conditions
Section 3	Statement of Work
Section 4	Contractor's Bid Form
	Price Proposal/Bid Schedule Form
	Attachments

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, as scoped in the attached bid documents and plan set for the reconstruction of 1st Street from Ouray Avenue to North Avenue. 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

- 1.2. **Mandatory Site Visit/Briefing:** **Prospective bidders are required to attend a site visit/briefing on January 19, 2017 at 10:00am.** Meeting location shall be at City Hall Auditorium, 250 N. 5th Street, Grand Junction, CO. The purpose of this visit will be to inspect and to clarify the contents of this Invitation for Bids (IFB).
- 1.3. **The Owner:** The Owner is the City of Grand Junction, Colorado and is referred to throughout this Solicitation. The term Owner means the Owner or his authorized representative.
- 1.4. **Submission:** **Each bid shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (<https://www.rockymountainbidsystem.com/default.asp>).** **This site offers both "free" and "paying" registration options that allow for full access of the Owner's documents and for electronic submission of proposals.** (Note: "free" registration may take up to 24 hours to process. Please Plan accordingly.) Please view our "Electronic Vendor Registration Guide" at <http://www.gjcity.org/BidOpenings.aspx> for details. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline. 800-835-4603)
- 1.5. **Printed Form for Price Bid:** All Price Bids must be made upon the Contractor's Bid Form attached, and should give the amounts both in words and in figures, and must be signed and acknowledged by the bidder.
- 1.6. **Exclusions:** No oral, telephonic, emailed, or facsimile bid will be considered
- 1.7. **Contract Documents:** The complete IFB and bidder's response compose the Contract Documents. Copies of these documents can be obtained from the City Purchasing website, <http://www.gjcity.org/BidOpenings.aspx>.
- 1.8. **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.

- 1.9. **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 response time.
- 1.10. **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/BidOpenings.aspx>. 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.
- 1.11. **Taxes:** The Owner is exempt from State retail and Federal tax. The bid price must be net, exclusive of taxes.
- 1.12. **Offers Binding 60 Days:** Unless 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.
- 1.13. **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.
- 1.14. **Public Disclosure Record:** If the bidder has knowledge of their employee(s) or sub-contractors having an immediate family relationship with a City/County 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/County.

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/County, shall constitute a contract equally binding between the City/County 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 in not less than triplicate by the Owner (City/County) and Contractor. City/County 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/County are, and shall remain, City/County 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 and/or Mesa County, 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:** As soon as practicable after bids are received and prior to the award of the contract, the successful Contractor shall furnish 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. 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.
- 2.9. 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.
- 2.10. 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.

2.11. 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.

2.12. 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.

2.13. 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.

2.14. Insurance Requirements: The selected Bidder agrees to procure and maintain, at its own cost, policy(s) of insurance sufficient to insure against all liability, claims, demands, and other obligations assumed by the Bidder pursuant to this Section. Such insurance shall be in addition to any other insurance requirements imposed by this Contract or by law. The Bidder shall not be relieved of any liability, claims, demands, or other obligations assumed pursuant to this Section by reason of its failure to procure or maintain insurance in sufficient amounts, durations, or types. Bidder shall procure and maintain and, if applicable, shall cause any Subcontractor of the Bidder to procure and maintain insurance coverage listed below. Such coverage shall be procured and maintained with forms and insurers acceptable to the Owner. All coverage shall be continuously maintained to cover all liability, claims, demands, and other obligations assumed by the Bidder pursuant to this Section. In the case of any claims-made policy, the necessary retroactive dates and extended reporting periods shall be procured to maintain such continuous coverage. Minimum coverage limits shall be as indicated below unless specified otherwise in the Special Conditions:

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

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

One Million Dollars (\$1,000,000) each occurrence and
One Million Dollars (\$1,000,000) per job aggregate.

The policy shall be applicable to all premises and operations. The policy shall include coverage for bodily injury, broad form property damage (including completed operations), personal injury (including coverage for contractual and employee acts),

blanket contractual, products, and completed operations. The policy shall include coverage for explosion, collapse, and underground hazards. The policy shall contain a severability of interests provision.

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

One Million Dollars (\$1,000,000) each occurrence and
One Million Dollars (\$1,000,000) aggregate

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

With respect to each of Bidder's owned, hired, or non-owned vehicles assigned to be used in performance of the Work. The policy shall contain a severability of interests provision. The policies required by paragraphs (b), and (c) above shall be endorsed to include the City and/or County, and the City's and/or County's officers and employees as additional insureds. Every policy required above shall be primary insurance, and any insurance carried by the Owner, its officers, or its employees, or carried by or provided through any insurance pool of the Owner, shall be excess and not contributory insurance to that provided by Bidder. No additional insured endorsement to any required policy shall contain any exclusion for bodily injury or property damage arising from completed operations. The Bidder shall be solely responsible for any deductible losses under any policy required above.

2.15. 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.

2.16. 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.

- 2.17. Time:** 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 Substantial Completion of the work or designated portions thereof is the date certified by the Owner when construction is sufficiently complete, in accordance with the Contract Documents.
- 2.18. 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.
- 2.19. 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.
- 2.20. 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. The City 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. 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.
- 2.21. 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.
- 2.22. 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.

- 2.23. 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.
- 2.24. 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 readvertise, or otherwise dispose of the Work as the City may determine best serves its interest.
- 2.25. 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 **\$5000.00** 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 is 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 substantially complete. In addition to the Work being substantially 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 Substantial or 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.

- 2.26. 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.
- 2.27. 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.

- 2.28. 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.
- 2.29. 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.
- 2.30. 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.
- 2.31. 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.
- 2.32. 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. 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).
- 2.38. 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.
- 2.39. 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.
- 2.40. 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.
- 2.41. 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.
- 2.42. 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.
- 2.43. 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.

- 2.44. Ownership:** All plans, prints, designs, concepts, etc., shall become the property of the Owner.
- 2.45. 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.
- 2.46. 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.
- 2.47. Remedies:** The Contractor and Owner agree that both parties have all rights, duties, and remedies available as stated in the Uniform Commercial Code.
- 2.48. 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.
- 2.49. Expenses:** Expenses incurred in preparation, submission and presentation of this IFB are the responsibility of the company and cannot be charged to the Owner.
- 2.50. 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.
- 2.51. 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.
- 2.52. 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.

- 2.53. 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).

2.53.1. "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/Specifications

- 3.1. General:** The City of Grand Junction is soliciting competitive bids from qualified and interested companies for all labor, equipment, and materials required, as scoped in the attached bid documents and plan set for the reconstruction of 1st Street from Ouray Avenue to North Avenue. All dimensions and scope of work should be verified by Contractors prior to submission of bids. All work shall be in accordance with the City of Grand Junction Standard Specifications for road and Bridge Construction and what is 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.

3.2. Project Description: The project consists of a complete road reconstruction of 6 city blocks. The project generally consists of removal of the existing roadway, subgrade excavation, the installation of 10,700 SY of pit run material, class 6 aggregate base course, and a new asphalt mat, 1250 SY of asphalt patching, 1190 SY Colored concrete paving, 250 SY of concrete alley improvements, 250 LF of concrete V-pan. 4410 LF of curb and Gutter, 2676 SY of 4" concrete sidewalk, 325 SY of monolithic curb gutter and sidewalk, 1945 SY driveway and curb ramps, 410 LF of concrete median, 2500 LF of electrical trenching, irrigation and landscape improvements, 406 LF of 42" RCP storm drain pipe, 360 LF of 12" RCP storm drain pipe, 4 manholes, and 11 storm drain inlets.

3.3. Special Conditions & Provisions:

3.3.1 Mandatory Site Visit/Briefing: Prospective bidders are required to attend a site visit/briefing on January 19, 2017 at 10:00am. Meeting location shall be at City Hall Auditorium, 250 N. 5th Street, Grand Junction, CO. The purpose of this visit will be to inspect and to clarify the contents of this Invitation for Bids (IFB).

3.3.2 Questions Regarding Solicitation Process/Scope of Work:

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

3.3.3 Project Manager: The Project Manager for the Project is Justin Vensel, 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
Attn: Justin Vensel, Project Engineer
333 West Ave Building A
Grand Junction, CO 81501

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

3.3.5 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.

3.3.6 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.

3.3.7 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.

3.3.8 Time of Completion: The scheduled time of Completion for the Project is **143 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.

3.3.9 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.

3.3.10 Excess Material: All excess materials shall be disposed in accordance with General Contract Condition Section 50. All millings shall be delivered to City Shops, Riverside Yard, and become the property of the City of Grand Junction.

3.3.11 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.

3.3.12 Early Completion Incentive Payment: If the Contractor completes ALL of the Work, achieves Milestones and Final Completion prior to the Contract time (as stated in the Notice to proceed plus any City approved extensions) in addition to other amounts owing to the contractor, less any offsets, the Owner shall pay the Contractor \$2,500 for each Calendar Day that Final Completion is earlier than specified in the Notice to Proceed. Incentive payments will be paid up to a maximum amount of \$75,000.

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

3.3.14 Licenses and Permits: Contractor is responsible for obtaining all necessary licenses and permits required for Construction, at Contractors expense. See Section 2.10. Contractor shall supply to Owner all copies of finalized permits.

3.3.15 Working Days and Hours: The working days and hours shall be as stated in the General Contract Conditions, Section VI, or as stated below:

Weekdays

6:00 am to 8:00 pm February 20th to July 14th 2017

Weekends

6:00 am to 8:00 pm February 20th to July 14th 2017

The Contractor may opt to perform many tasks as night work to assist with traffic and business flows.

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

- CDPH Storm Water Permit
- 521 Drainage Authority Storm Water Permit

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:

- CDOT Work in the ROW Permit for the intersection work and the Storm line upgrade

3.3.17 Project Newsletters: The first newsletter for the Project will be prepared and distributed by the City of Grand Junction. 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 first newsletter will be mailed approximately one weeks before the Contractor commences work.

The Contractor shall prepare the information for the weekly newsletter until the project is completed. The newsletters will be email and mail the information to the business owners.

The contractor shall supply the following information in the weekly newsletters:

1. Description of work completed during the previous week
2. Description of work scheduled for the upcoming two weeks
3. Information about any road closures, detours, parking restrictions and other activities that may cause delay or inconvenience to the businesses or the general public
4. Scheduled or planned interruption changes in any utility services, trash pickup, mail delivery or other services
5. Project schedule changes or other information that may be useful or of interest
6. The project schedule shall contain a one week look behind and a three week look ahead to be included in the news letter.

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

3.3.19 Authorized Representatives of the City: Those authorized to represent the City shall include engineers and inspectors employed by the City, and Independent 3rd Party Testing Firm only.

3.3.20 Uranium Mill Tailings: It is anticipated that radioactive mill tailings will be encountered on this project.

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

When approved by the Project Engineer, the Contractor may stockpile and store materials and equipment within public right-of-way. The Contractor shall be responsible for obtaining written permission to use private property for storage of materials and equipment. Copies of the above-mentioned agreements shall be submitted to the Project Engineer prior to use of the property.

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

3.3.23 Traffic Control: The following street and lane closures will be allowed for construction of this project:

All available public parking is reserved for the public. Contractor and subcontractor employee personal vehicle parking is prohibited in these locations. Parking of Contractor or subcontractor vehicles or construction equipment in existing public parking space is allowed only in the zones that are closed for construction. Parking of Contractor, subcontractor or employee construction or personal vehicles (or construction equipment) in private residential or business parking space is also strictly prohibited. Suitable transportation to the work site for personnel whose vehicles are parked off site shall be provided by the Contractor.

Access Maintenance Plan

Unless otherwise included in the plans or directed by the Engineer, the Contractor shall maintain continuous access to all roadways, side streets, walkways, alleyways, driveways, and other sidewalks and pathways at all times. Sidewalks shall remain open to pedestrians to the greatest extent practicable. If a sidewalk has to be closed, an alternate access shall be provided with appropriate signage. To the greatest extent possible, driveways shall be re-constructed when the access is closed for concrete pavement placement.

At least 7 calendar days prior to beginning work on any driveway or private access, the Contractor shall notify each business or resident of the expected construction schedule.

The Contractor shall develop an Access Maintenance Plan (AMP) in coordination with all affected owners and tenants. A sample form of the AMP shall be developed for this purpose by the Contractor and submitted to the Engineer for review and approval. The AMP shall address any special needs any business or residence has for Americans with Disabilities Act (ADA) access or any other special needs. A place on the AMP form shall address special needs and ADA issues.

The AMP shall detail the effects to the accesses including closing dates, time and duration, and, if applicable, barricades, fencing and temporary means of access with all affected owners and tenants in a work area. The AMP shall include the address, the station location, the work periods affected, and show documentation of coordination, including the appropriate property owner signatures, and the date of the contact. Contact information regarding the companies that make frequent deliveries to the affected businesses shall be obtained and details of access changes shall be provided to these companies by the Public Information Manager along with other routine public information.

The signed AMP shall be submitted, as part of the corresponding method of handling traffic, to the Project Engineer for approval one week prior to the start of any work which will affect the signatory properties. If the Contractor is unable to obtain approval and signatures, documentation of "good faith efforts" to obtain said approval and signatures shall be submitted.

The Contractor will not be allowed to begin work until the plan is accepted. If Contractor does not have approved AMP forms completed for all accesses within a work area, the Engineer may delay progress of work for the affected accesses. Such delay shall not be the basis for a claim for additional contract time or compensation.

Other Special Traffic Control Requirements

Signs and stands shall not be permitted to be left on sidewalks or landscaped areas overnight.

Equipment shall not be stored within 20 feet of the currently traveled roadway lanes on the interstate and ramps; and within 10 feet of the currently traveled roadway lanes on city streets.

Traffic Control Management shall include all Traffic Control Supervisors and helpers necessary to perform the work. There shall be a minimum of one helper for each Traffic Control Supervisor required for the project. At least one Traffic Control Supervisor and one Helper shall be on site at all times when construction activities are underway.

Although Traffic Control items such as Variable Message Sign Panels, Traffic Control Management or Traffic Control Inspection, and construction traffic control signs may be required and used prior to the beginning of contract time, no payment will be made for the use of any item prior to the beginning of contract time. All work performed prior to commencement of Contract time shall be considered subsidiary to mobilization.

Helpers for the Traffic Control Management item may give flagger breaks. However, the time shall be included in the item for Traffic Control Management, and shall not be paid as additional flagging hours.

The Contractor shall provide Traffic Control Supervisor(s) (TCS) with at least one year of experience, as accepted by the Engineer. A copy of the certification of the Traffic Control Supervisor(s) shall be provided to the Engineer at least two days prior to the project preconstruction conference.

A meeting will be scheduled each working day with the Contractor’s superintendent, the Traffic Control Supervisor(s), and the Project Engineer for discussion, submittal and approval of the MHT(s) for the next day’s scheduled work. Work that has not been scheduled and requires a MHT that has not been approved shall not be allowed. Work which does not require a MHT may proceed if approved by the Engineer.

The required TCS Diary shall be submitted to the Engineer by 10:00 a.m. each following day and shall include a listing of all flagging hours.

All Construction Zone Traffic Control Devices shall be continuously maintained in accordance with Section 630 of the Standard Specifications. The TCS shall establish a set maintenance and cleaning schedule. A copy of the maintenance and cleaning schedule shall be provided to the Engineer.

All costs incidental to the foregoing requirements shall be included in the original contract prices for the project.

3.3.24 Right of Way Restrictions:

The contractor is hereby made aware that at the time of bidding on this project, the City of Grand Junction does not have possession of all necessary Right of Way required to complete the following portion of this project and has identified the following areas as a “**No Work Zone**”, until the Restriction Date shown below. Please reference TE PE and Right of Way Plans.

Address	Ownership Name	Restriction Date
535 N 1 st Street	Vera Pearce	February 15,2017
537 N 1 st Street	Brad Stewart	February 15,2017
539 N 1 st Street	Kenneth Risky	February 15,2017
827 N 1 st Street	Scott Howard	February 15,2017
841 N 1 st Street	Ralph Belcastro	February 15,2017
901 N 1 st Street	Larry Badini	February 15,2017
931 N 1 st Street	Larry Badini	February 15,2017

When bidding, the contractor is advised that the Contractor shall not enter the listed right of way parcels identified above, prior to the dates indicated above, unless otherwise directed in writing by the Project Engineer.

The City anticipates no delay toward completion of the project due to the restrictions imposed herein. No additional time or mobilization costs shall be granted to the Contractor for delays associated with not having possession of the above mentioned locations prior to the dates specified above.

3.3.25 Stormwater Management Plan:

Existing curbside storm drain inlet basins are located throughout the project and each inlet basin as shown on the construction plans shall receive stormwater protection in the form of a “Silt Sack” or “Filter Sock.” The inlet basin stormwater protection devices shall remain in place until the Contractor has completed the asphalt paving operations and the street has been swept clean. The Contractor shall also be responsible for maintaining the inlet basin protection device throughout construction and periodically inspecting the inlet basin protection device during construction. In addition, after every rainfall and/or snowmelt event the Contractor shall inspect all inlet basin protection devices on the project. The Contractor shall be responsible for either cleaning or replacing the inlet basin protection device when the capacity of the protection device has reached 50% of its full capacity. The Contractor shall take into account the associated maintenance cost in the specific pay item.

Street sweeping shall be periodically completed along the streets adjacent to the project to contain tracking of soil. The street sweeping machine shall be capable of both sweeping and vacuuming up the roadway dirt. A machine that only sweeps will not be accepted and will not be paid for. The Contractor shall submit for approval a description of the street cleaning machine to be used prior to cleaning the street. Street sweeping will be paid for by the hour as shown in the Bid Schedule.

The Contractor shall keep on site gravel filter socks (gravel wattles) for placing around the base of excavated soil piles in the event of a rainstorm and/or snow melt event. The Contractor will only be required to use the gravel filter socks when it is likely that a rainstorm and/or snowstorm event is going to occur. The Contractor should contact the NOAA National Weather Service Forecast Office in Grand Junction to obtain extended weather forecast information to help in deciding whether gravel filter socks will need to be used. The NOAA Forecast Office of Grand Junction can be reached at 970-243-7007. Gravel filter socks will be measured and paid for by the lineal foot as shown in the Bid Schedule.

If groundwater within the new water line or storm drain line trenches is encountered and requires dewatering, the dewatering pump shall have a filter sock attached to the end of the discharge hose. This will prevent sediment in the discharge water from entering into the City’s storm drainage system. The contractor will be responsible for monitoring the levels of sediment within the filter sock and replacing the filter sock when it reaches 50% of its holding capacity. It will also be the responsibility of the contractor to obtain the Dewatering Permit from the Colorado Department of Public Health and Environment if necessary.

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

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

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

Concrete trucks will be required to wash out in a portable concrete washout pool supplied by the Contractor or the concrete truck can wait to washout back at the concrete batching facility. The Contractor will be responsible for maintaining the washout pool. The washout pool shall be cleaned out and/or replaced when the washout pool reaches 50% of total capacity. The concrete washout pool needs to be dynamic and durable in its ability to be moved with the progress of construction.

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

3.3.26 Schedule of Submittals:

The Contractor shall provide these specific submittals at the preconstruction meeting:

- Hourly rate table for labor and equipment to be used on this project.
- Traffic Control Plan
- Construction Schedule
- Storm line Pipe
- Irrigation including Valves, pipe drip emitters etc.
- Manholes
- Inlet Basin Protection
- Concrete Washout Facility
- Street Sweeping/Vacuum Machine
- Bedding Gradation, Type A
- Pit run
- Base course gradation, Proctor Curve (Class 6)
- Asphalt
- Concrete mix design, 4500 PSI

3.3.27 Discrepancy between Bid Schedule and Construction Notes: In the event of a discrepancy between a Pay Item description in the Bid Schedule and the description for the same Pay Item in the drawings/construction notes; the language in the Bid Schedule shall govern or supersede that found elsewhere.

3.3.28 Existing Utilities and Structures: The location of existing utilities and structures shown on the Plans are approximate. It is the responsibility of the Contractor to locate and protect all structures and utilities in accordance with General Contract

Condition Section 37. The Contractor shall coordinate with the utility companies any necessary relocation of utilities and schedule his work accordingly. A pay item is included in the bid tabulations for investigation of potential conflicts and clearances.

3.3.29 Quality Control Testing: The contractor shall be responsible for Quality Control Testing as part of this project. All testing frequencies shall be followed as **part time inspection frequencies** as depicted in the charts within the City of Grand Junction Standard Specifications for Road and Bridge Construction and the Standard specifications for the construction of Underground Utilities

3.3.30 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.

3.4 Scope of Work/Specifications:

3.4.1 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.

901 N 1st St (Simpson Auto):

All concrete associated with the sign foundation shall be removed a minimum of 1' below the final grade of the project.

935 N 1st St (Intermountain Auto):

All concrete associated with the sign foundation shall be removed a minimum of 1' below the final grade of the project.

2582 HWY 6 & 50 (Fuoco Motor):

All concrete associated with the sign foundation shall be removed a minimum of 1' below the final grade of the project.

Pay Item

Removal Business sign base (901,
935 N 1st St and 2582 HWY 6 & 50)

Pay Unit

EA

3.4.2 SECTION 203 – PROOF ROLLING: Section 203 of the Standard Specifications is hereby revised for this project as follows:

Delete Subsection 203.13(f), add the following:

In subsection 203.14, delete the pay item Proof Rolling, delete the last paragraph

and add the following:

Proof Rolling will not be measured and paid for separately, but shall be included in the work.

3.4.3 SECTION 208 – EROSION CONTROL

For inlet protection along Major Arterial or Collector 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:

Pay Item

Erosion Control (Complete In Place)

Pay Unit

Lump Sum

The lump sum price for Erosion Control (complete in place) shall be in full compensation for the Erosion Control Supervisor and all materials, labor and equipment required to furnish, install, maintain, remove and dispose of erosion and settlement control features and Best Management Practices (BMP's) in accordance with the Stormwater Management Plan (SWMP), State and local permits, and the contract documents.

Erosion Control (Complete in Place) shall include storm drain inlet protection and the concrete washout structure.

3.4.4 Section 210- Reset Structure:

Section 210 of the Standard Specifications is hereby revised for this project as follows:

Subsection 210, Basis of Payment, shall include the following:

935 N 1st St (Intermountain Auto):

The base for the post shall be a minimum of 36" diameter with a minimum depth on the foundation of 5' below the finished grade. #6 rebar hoops spaced 12" apart with Quantity 8, #8 longitudinal bars. The contractor shall submit shop drawings prior to installations. All concrete shall be a minimum of 4500 PSI compressive strength and a maximum of 6% air.

901 N 1st St (Simpson Auto):

Installation of one 36" diameter caisson matching the description above. In addition, the contractor will be required to pour a 6' X 4.5' X 2' foundation at finished elevation at the new location, with the following rebar schedule. #4 verticals with 18" spacing and #4 horizontal with 10" spacing. a 1 ½" schedule 80 conduit from the center of the caisson extended out to the perimeter of the footer.

Pay Item

Reset Business (Sign)

(Price to Include new base)

Lump Sum

3.4.5 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

3.4.6 **SECTION 613 – REVISION OF SECTION 613:**

ELECTRICAL CONDUIT AND PULL BOXES

Section 613 of the Colorado Department of Transportation Standard Specifications is hereby revised for this project as follows:

MATERIALS

Subsection 613.02 shall include the following:

All materials furnished, assembled, fabricated, or installed under this item shall be new, corrosion resistant and in strict accordance with the Plans and these Special Provisions.

CONDUIT

The conduit shall be fully compatible with the proposed fiber optic cable types and compatible for use with directional boring applications. Conduit shall be Schedule 40, as called out for in the Plans, with a nominal diameter of 2" and 6". The conduit shall be constructed out of either RNC (i.e., PVC) or HDPE. The coefficient of friction and cut-through rating of the conduit shall meet or exceed the requirements stated in Bellcore/Telcordia GR-356-CORE *Generic Requirements for Optical Cable Innerduct and Accessories*.

All empty conduit runs shall have a #10 A.W.G. solid copper conductor placed inside for locating purposes. In addition, a pull rope should be left in each conduit after installation. Locating conductor, pull rope, and tape will not be measured and paid separately, but shall be included in the unit price for conduit.

Conduit shall always enter a pull box, hand-hole, or any other type structure from the direction of the run only.

PVC conduit shall be listed as approved for use by the RUS. PVC conduit shall be manufactured in accordance with the following industry standards:

- NEMA TC-2 *Electrical Polyvinyl Chloride (PVC) Conduit*
- UL 651 *Schedule 40 and 80 Rigid PVC Conduit and Fittings*

PVC fittings shall be manufactured in accordance with the following industry standards:

- NEMA TC-3 *PVC Fittings for Use with Rigid PVC Conduit and Tubing*
- UL 514B *Conduit, Tubing, and Cable Fittings*

HDPE conduit shall be listed as approved for use by the RUS. HDPE conduit shall be manufactured in accordance with the following industry standards:

- ASTM D-2447 *Standard Specification for PE Plastic Pipe, Schedules 40 and 80, Based on Outside Diameter*
- ASTM F-2160 *Standard Specification for Solid Wall HDPE Conduit Based on Controlled Outside Diameter*
- NEMA TC-7 *Smooth-Wall Coilable Electrical PE Conduit*
- EPEC-80 for Schedule 80 HDPE

HDPE conduit shall be capable of being coiled or placed on reels in continuous lengths, transported, stored outdoors and subsequently uncoiled for installation without affecting its properties or performance.

The Contractor shall utilize either all PVC or HDPE conduit for underground installations on this Contract. The mixing of PVC and HDPE conduit types for underground installations shall not occur without prior written approval from the Engineer.

All underground-to-aboveground and aboveground conduit installations shall utilize RMC as indicated on the Plans.

Where RMC is used, the uncoupled end shall be covered by industry color-coded thread protectors to aid in trade size recognition and protect the threads. Since 2" and 6" diameter conduit are called out throughout the entire project, the thread protectors should be color-coded blue. Threads shall conform to ANSI B1.20.1 *Pipe Threads, General Purpose (inch)*. RMC, including factory manufactured threads, shall be hot-dipped galvanized inside and out. It shall also be top-coated with a compatible organic layer to inhibit white rust and increase corrosion resistance. RMC shall meet UL safety standard UL 6 *Electrical Rigid Metal Conduit - Steel* and be manufactured to ANSI C80.1 *Electrical Rigid Steel Conduit (ERSC)*.

All conduit transitions shall be constructed in a smooth and gradual manner as directed by the Engineer. Conduit sweeps into pull boxes and splice vaults shall be installed to facilitate pulling fiber optic cable directly through the pull box or splice vault. PVC conduits shall utilize 45° elbows with a minimum radius of 36". Similarly, HDPE conduits shall be installed with a 45° bend with a minimum radius of 36". The sum of the individual conduit bends, both horizontal and vertical, on a single conduit run between two pull boxes or a pull box and splice vault shall not exceed 270°. No individual bend shall be greater than 45°, unless indicated on the Plans for building access and pole-mounted

cabinets where conduits transition from underground to above ground installations.

When conduits are coupled, the coupling technology shall allow the conduit to plug together without the need for special tools, and shall form both an airtight and watertight seal. Breaking force between segments shall exceed 250 lbs. The couplings shall be specifically designed for use with the size and type of conduits to be joined. Where toneable conduits are to be joined, the couplings shall be specifically designed for that purpose to ensure continuous conduit run detectability. If the Contractor intends to employ air-assisted fiber optic cable installation techniques, the couplings shall be pressure tight to internal conduit pressures not less than 200 psi when unrestrained.

The Contractor shall use conduit plugs and sealing plugs for sealing all empty conduits and conduits occupied with cabling, respectively, installed under this Contract. Conduit plugs shall be utilized in conduit ends (for all empty conduits shown on the Plans) as soon as the conduit is installed. End caps, appropriately sized for the installed conduit, shall be utilized on conduit ends (for all conduits to be occupied with cabling as shown on the Plans) as soon as the conduit is installed and sealed with electrical tape. The end caps shall be replaced with the appropriate sealing plugs as soon as cabling is installed within the conduit. Conduits shall be plugged or capped at all termination points such as pull boxes, splice vaults, junction boxes and building entries.

- Conduit plugs shall be manufactured from high-impact plastic components, combined with durable elastic gaskets. They shall be corrosion proof and appropriate for use as either a long-term or temporary seal. Conduit plugs shall be removable and reusable. They shall be both watertight and airtight to prevent the flow of water and buildup of sedimentation within the conduit. Each conduit plug shall be equipped with a rope tie device to allow the securing of pull rope to the plug's back compression plate. The Contractor shall attach the pull rope to the back compression plate of the plug and store excess slack pull rope behind the plug within the conduit for future use.
- Sealing plugs shall be simplex, bplex or triplex depending on the number of cables within a single conduit. They shall be removable and reusable. All sealing plugs shall be of the split type design, manufactured without metallic parts and easily removable and reinstallable around in-place cables without damaging the outer cable jacket. Sealing plugs shall provide a minimum watertight and airtight seal of 20 psi. They shall be installable by hand without using special tools and have no sharp corners that could damage the outer cable jacket.

Pull rope shall be a prelubricated, woven polyester tape made from low friction, high abrasion resistant yarns providing a low coefficient of friction. It shall be printed with sequential footage markings. The pull rope shall not be less than ½" with a minimum tensile strength of 1,250 lbs.

Warning tape shall be of the non-detectable variety. It shall be fabricated using a pigmented polyolefin film that has been specially treated so as not to degrade when exposed to acids or other destructive chemicals. The warning tape thickness shall be at least 4 mil and have a width not less than 3". The color of the warning tape shall be an APWA-approved orange color with black letters of approximately 3/4" printed on one side with the wording "CAUTION FIBER OPTIC CABLE BURIED BELOW". The wording shall be repeated at approximately 3' intervals. Fiber optic warning tape shall be installed above the conduit in all open trenches for short conduit runs where directional boring methods are not feasible. A 1/2" diameter by 8' long ground rod shall be installed in each vault. The cost of the ground rod shall be included in the price of the vault or manhole.

Prior to installation, the specifications for all conduit types, couplings, fittings, elbows, L-bends, mounting hardware, conduit plugs, sealing plugs, pull tape, warning tape and curb markers shall be submitted to the Engineer for written approval.

BASIS OF PAYMENT

Subsection 613.11 shall include the following:

Accepted quantities of electrical conduit will be paid as measured above which price includes all items as listed above including full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in furnishing and installing electrical conduit as shown on the Plans, as specified in the Standard Plans and Standard Specifications, as specified in these Special Provisions, and as directed by the Engineer

Accepted quantities of pull boxes and junction boxes will be paid as measured above which price includes all items as listed above including full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in furnishing and installing each pull box and junction box as shown on the Plans, as specified in the Standard Plans and Standard Specifications, as specified in these Special Provisions, and as directed by the Engineer.

Payment will be made under:

Pay Item	Pay Unit
2" Electrical Conduit (Schedule 40)	Linear Feet
6" Electrical Conduit (Schedule 40)	Linear Feet

3.2.28 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. This is to include any assistant to the traffic control supervisor.
4. Sidewalks that are obstructed or under construction shall be barricaded, as required for pedestrian safety.
5. Refer to 3.2.14 for handling traffic flows.

3.4.7 Section Landscaping Work:

1.0 General

1.1 Scope of Landscape Work

Includes labor, equipment, material and incidentals for the completion of planting, topsoil, soil amendment, boulders and mulch work shown on the drawings as stated in the Specifications or otherwise required.

1.2 Stake Out Location of Landscape Work

The Contractor shall completely stake out the location of all trees, shrubs and other plantings limits on the site for the approval of the Owner's Representative, making modifications as required.

1.3 Applicable Standards

U. S. Department of Agriculture Rules and Regulations under the Federal Seed Act, American Association of Nurserymen, current edition of "American Standard for Nursery Stock." Published by the American Association of Nurserymen, Inc., 635-636 Southern Building, Washington D.C. and/or Colorado State Law, whichever is greater.

1.4 Quality Control Submittals

Certificates of Inspection for Plants: All necessary State, Federal and other inspection certificates shall accompany the invoice for each shipment of plant materials as may be required by law. Certificates must show source of origin. Certificates shall be filed with the Owners Representative prior to his acceptance of the material.

1.5 Plant List

A list of plants to be provided is shown on the Drawings.

1.6 Plant Sizes

Requirements for the measurement follow the code for standards currently recommended by the American Association of Nurserymen, Inc. in the American Standard for Nursery Stock.

1.7 Plant Material Labeling

Durable, legible labels stating in weather-resistant ink the correct plant name and size, as specified on the plant list, shall be securely attached to all plants, bundles or packages of plants of a single species and size, or plant container delivered to the planting site. Plants not properly labeled at time of inspection shall be subject to rejection by the Owners Representative.

1.8 Shipment and Delivery

No plant materials shall be delivered to the site more than three (3) days before planting. Plants left unplanted for more than three (3) days shall be subject to rejection by the Owners Representative. A suitable method of handling shall be employed to insure the careful, workmanlike delivery of all plants, especially heavy balled trees. The Contractor shall protect the stock in a temporary nursery at the contractor's yard, protected from sun, drying winds and shaded and kept moist and protected with damp soil, moss or other acceptable material. Contractors' nursery to be accessible for inspection of plants.

1.9 Notification of Delivery

The Landscape Contractor shall notify the General Contractor and Owners Representative a minimum of two (2) days in advance of the delivery of the plant materials. Notification shall include the time and method of delivery.

1.10 Plant Material Inspection

The Owners Representative reserves the right to reject at any time or place prior to acceptance, any and all materials which in their opinion fail to meet specifications. Inspection of materials is primarily for quality, size and variety, but other requirements are not waived even though visual inspection results in approval. Plants may be inspected where available, but inspected at the places of supply shall not preclude the right of rejection at the site. Rejected materials shall be promptly removed from the site. No installation shall occur prior to inspection and acceptance of all plant material.

1.11 Planting Commencement

No planting work shall commence until the adjacent site improvements, drainage improvements, pavements, irrigation installation and finish grading is completed. No heavy trucking or moving of plant materials or equipment shall be permitted on newly completed pavements, sod or seeded areas. Further, the irrigation system shall have been tested in the presence of the Operator's Representative and be in operating order prior to any planting, seeding or sodding.

1.12 Weather Restrictions

No planting work shall take place during inclement weather or when the ground conditions are, in the opinion of the Owner's Representative, not in a condition to be properly worked.

1.13 Irrigation & Establishment Restrictions

Plantings occurring prior to April 15 or later than September 30 will require approval by the Owner's Representative.

1.14 Substitute Products

Requests for substitution of products named in this section must be approved by the Owner's Representative one week prior to bid opening.

2.0 Products

2.1 Guy Wire

10 or 12 gauge, double strand, pliable galvanized steel wire twisted to remove slack to each stake.

2.2 Tree Wrapping Material

Tree wrapping material shall be first quality 4" wide, bituminous impregnated tape, corrugated or crepe paper, brown in color, specifically manufactured for tree wrapping and having qualities to resist insect infestation.

2.3 Tree Stakes

Standard "T" six feet (6') high steel fence posts dark green in color. Stakes for guying pines and spruce shall be 30" long (5' steel "T" posts cut in half.)

2.4 Protective Nylon Loops

One and one-half inch (1 ½") wide (min.) for restraining tree in guying operations. Lengths as required.

2.5 Insecticide Spray

Methoxychlor or similar insecticide.

3.0 Materials

3.1 Imported Topsoil

Imported friable sandy loam; reasonably free of roots, rocks larger than ½ inch, subsoil, debris, large weeds, and foreign matter; electro-conductivity range 0 to 4 mmohs; containing a minimum of 4 percent and a maximum of 25 percent organic matter; Limit decaying matter to 2% of total content by volume.

3.2 Soil Amendment

50% Ground well-aged cow or chicken manure, or ground sheep manure, 50% finely ground and aged wood chip, with a proven analysis to verify organic

content, PH, electro-conductivity, nitrogen, potassium, and phosphorus content. A sample of the material will be supplied to the Owner's Representative with an analysis.

3.3 Balled Plants

Plants delivered as "B&B", balled and burlapped shall be adequately balled with firm, natural ball wrapped tightly with burlap. No plant shall be planted if the ball is cracked or broken either before or during the planting process. Any plant which is loose in the ball shall be removed from the site and another plant conforming to the specifications of the plant removed shall be planted in its place at the expense of the Contractor.

3.4 Container Grown Plants

Plants designated in various size and type containers in the plant list shall be of a reasonable age and state of development for the size container in which they are specified. They shall have been growing in their containers sufficiently long enough to develop a good sound root system capable of holding the soil intact after removal from the container, but not so long as to have become root bound.

3.5 Tree Quality

All tree specimens shall have lower branch structures five feet (5'-8") minimum height above root ball. Tree specimens shall be a well-developed branch structure with a vigorous root system typical of the size and species and be sound, healthy and vigorous plants free from visual defects, plant diseases and all forms of insect infestation until Final Acceptance. All trees shall be nursery-grown, meaning plants that have been growing in a nursery either lined out or containerized for a minimum of two (2) growing seasons have been root pruned according to acceptable nursery practice. All shall be freshly dug at the time of delivery, and shall have been grown under similar climatic conditions as that of the project's location prior to planting. (Plants healed in or placed in cold storage for more than nine (9) months will not be accepted.)

3.6 Specifics for the Selection of Shade Trees

1. Trees greater than one and one-half inches (1½ ") caliper shall be able to stand erect without a supporting stake.
2. Trees shall have straight trunks with less than a five percent (5%) bow.
3. Branches shall be less than two-thirds (2/3) the trunk diameter.
4. Trees shall be healthy and have had adequate annual growth the previous two (2) growing seasons for that species. (See fact sheets on growth rates).
5. Trees shall be rooted into the root ball so that soil or media remains intact and trunk and root ball move as one when lifted, but not root bound. The trunk should bend when gently pushed and should not be loose so it pivots at or below soil line.

6. Trees shall have no roots larger than one-fifth (1/5) the diameter of the trunk protruding from the grow bag or container.
7. Trees shall have one dominant leader for the top of the tree with a viable terminal bud or shoot.
8. Trees shall have no vertical branches except for those cultivars reported to be fastigiated.
9. Trees shall have branches evenly distributed around the trunk and no branches shall be directly above another.
10. The largest branches shall be spaced at least six inches (6") apart except for those cultivars with characteristic multiple tops.
11. The tree canopy shall be mostly symmetrical and free of large voids. Clear trunk should be no more than 40% of tree height unless otherwise specified in the planting specifications.
12. If any of the above conditions are not met, trees may be rejected by the Owner.

3.7 General Considerations

1. Trees and shrubs will be inspected by the Owner prior to planting and rejected if damage or imperfections in development are noted to include:
 - a. Flush cuts or open injuries on the main trunk;
 - b. Trunk cankers;
 - c. Loose or torn bark in excess of 10% of the circumference of the trunk or branch;
 - d. Borer holes or boring dust in trunks or main branches;
 - e. Branch attachments with the included bark;
 - f. Co-dominate stems – trees only;
 - g. Trees and shrubs in violation of Rules and Regulations pertaining to Title 34, Article 26 of the Colorado Nursery Act;
 - h. Damaged or incomplete graft unions;
 - i. When in leaf, with more than five percent (5%) chlorotic leaves;
 - j. When any root is greater than one-tenth (1/10th) the diameter of the trunk, circles more than one-third (1/3rd) the trunk and is in the top half of the root ball;
2. Plants infested with colonies of other insect pests will be rejected or properly treated at the discretion of the Owner.

3.8 Granite Boulders

Landscape Boulders to be of minimum dimensions as shown on drawings. Boulders are to be tan/gold granite. Exposed surface of installed landscape boulders shall not show machine caused scarring or breakage. Contractor to submit sample to Owner'.

3.9 Rock Mulch

Rock mulch shall be 1/2" tan granite covering shrub beds. Rock mulch shall be free of trash, sticks, and rocks. Place to a depth of three inches (3") over landscape areas.

4.0 Execution

4.1 Stockpiling Imported Topsoil

Stockpile materials on site at locations indicated. Stockpile in sufficient quantities to meet project schedule and requirements. Separate differing materials with dividers or stockpile apart to prevent mixing. Direct surface water away from stockpile site to prevent erosion or deterioration of materials.

4.2 Landscape area excavation/Preparation for Topsoil Procedure

Excavate areas to be planted (as per drawings) to the depth as per drawings or specifications to receive topsoil and to remove unsatisfactory material (including road base, asphalt, concrete and trash) and remove from site.

4.3 Layout of Tree Locations

The Contractor shall locate and stake all tree locations. All planting stake locations shall be observed and approved by the City Project Engineer, prior to planting operations.

4.4 Layout of Plant Locations

Contractor shall stake out the location of all trees, shrubs, perennials, and lawn area limits, or place containerized shrubs and perennials for approval by City Project Engineer prior to planting. All planting stake locations shall be observed and approved by the City Project Engineer, prior to planting operations.

4.5 Topsoil Backfill

Contractor shall backfill excavated shrub beds with specified topsoil. Soil is to be compacted to 85% modified proctor (wheel rolled) to minimize settling. Shrub bed perimeter is to be finished with 4:1 slopes to form mounded planting areas, from 2" below adjacent concrete to finish grade to form shallow trench to hold mulch. Scarify all areas to receive topsoil to a depth of 6".

4.6 Tree Location Conflicts with Underground Lines

The Contractor shall be responsible for damage to any underground utility, irrigation line or other improvements. In the event a pipe or line obstructs a plant location, the Contractor will notify the Owner's Representative/City Project Engineer to receive a new plant location.

4.7 Plant Pit Backfill

On-site backfill soil (imported topsoil) shall be used for backfill (unless excavated soil is gravel) after being mixed with one-third (1/3rd) part specified soil amendment. Gravel shall be replaced with topsoil.

4.8 Planting Techniques

1. Trees, shrubs and perennial flowers shall be in planting areas separate from turf areas.
 - a. In those instances where the Owner requires trees or shrubs planted in turf areas, the turf will be established prior to installation of trees or shrubs.
 - b. Trees and shrubs shall be planted a minimum of four inches (4") above the finished grade of the turf or mulched area based on their upper-most structural roots.
 - c. If the planting hole is inadvertently dug too deep, soil shall be added and compacted.
 - d. The width of the planting hole shall be a minimum of at least one and one-half times the diameter of the root ball, two times the diameter of the rootball where possible.
2. Trees and shrubs shall be planted with two (2) or more of the upper-most structural roots no more than two inches (2") below the surface of the root ball measured three to four inches (3- 4") from the trunk (except as noted below). Soil shall be removed from the top of the root ball prior to planting to determine the actual depth of the structural roots.
 - a. Hackberry (*Celtis occidentalis*), green ash (*Fraxinus americana*), red maple (*Acer rubrum*), little leaf linden (*Tilia cordata*), crabapples (*Malus spp.*) and poplars (*Populus spp.*) shall be planted with no more than one inch (1") of soil over the uppermost structural roots.
 - b. Adventitious roots above the structural roots shall be removed.
 - c. The presence of encircling roots shall be checked for and treated as in 9. below.
 - d. The planting hole shall be dug two to four inches (2-4") shallower than the depth of the root ball (based on the location of the structural roots.)
 - e. Soil shall be graded from the surrounding soil to near the top of the root ball to cover the exposed sides of the root ball.
 - f. There shall be no landscape soil placed on top of the root ball.
3. The top 12 to 18 inches (two or three levels) of wire basket shall be removed from the root ball. The bottom half of baskets more than about 40 inches in diameter can be left intact.
4. All twine and wire at the base of the trunk shall be removed and disposed of offsite.
5. All synthetic and plastic burlap shall be cut as far down the root ball as possible so soil along the side of the root ball is in direct contact with backfill soil. All synthetic and plastic burlap shall be removed from the site.
6. Natural burlap shall be removed from the top of the ball and at least one-half (1/2) way down the side of the root ball. Burlap shall be removed from the site.
7. Fertilizer shall not be added to the back-fill soil.
8. Containers shall be removed from the root ball prior to planting. Containers shall be removed from the site and properly disposed of.

9. Pot bound (root bound) trees and shrubs shall be avoided.
 - a. There shall be no roots greater than 1/10 diameter of the trunk circling more than one-third the way around the top half of the root ball. There shall be no kinked roots greater than 1/5 the trunk diameter. Roots in violation can be cut and the tree accepted at the option of the Owner.
 - b. If it is necessary to plant a pot bound tree or shrub, encircling roots shall be cut to prevent them from girdling the plant in the future. Three (3) or four (4) slices one inch (1") or two inches (2") deep shall be made from the bottom to the top of the root ball.
10. Mulch shall be placed on the root ball to within 6 to 8 inches of the trunk or main stem(s), and no closer.
11. The planting of clump aspen and other trees (i.e. two or more stems in one root ball) shall be avoided.
 - a. If a clump effect is desired, separate trees shall be planted with their root balls touching.
12. Trees and shrubs shall be moved by their root balls, not their trunks, in such a manner that trunk and branch damage shall be avoided.
13. Trees and shrubs planted on slopes shall be set so the to-most root in the ball on the uphill side is even with the soil. The side of the root ball on the downhill side shall be well above the surrounding soil and a basin formed to retain water. Sufficient soil shall be applied to cover the sides of the root ball.
14. A three inch (3") layer of mulch shall be applied around trees and shrubs to within six to eight (6-8") inches of the trunk or stem (s). A mulched area two feet (2') in diameter for each one inch (1") of tree trunk DBH (with a minimum diameter of eight feet (8') for trees), shall be maintained during the establishment period.
15. If staking is necessary it shall be accomplished using one of the following methods:
 - a. Two or three wood dowels shall be driven through the edge of the root ball into the underlying soil for three gallon and smaller trees.
 - b. One horizontal 2X2 shall be screwed or nailed to two 2X2's driven 12 inches into undisturbed soil on each side of the root ball. Two sets shall be needed for each root ball.
 - c. Two or three (2-3) t-posts driven into a minimum of 12 inches of undisturbed soil.
 - i. When two (2) posts are specified, these shall be placed on either side of the tree parallel to the prevalent wind direction.
 - ii. When three (3) posts are specified these shall be placed equidistant (120 degrees) around the tree.
 - iii. Stakes will be kept clear of branches to prevent rub damage.
 - iv. Guys shall be flagged with a conspicuous material and replaced as required by the Owner.
16. Feather growth on the lower portion of the trunk shall remain in place for one (1) year after planting.

17. Pruning other than to correct structural problems or remove broken branches shall be avoided.
18. The trunks and large branches and foliage of all pines shall be sprayed with a pyrethrum (organic product), pyrethroid or similar insecticide prior to or within a day of planting by a qualified applicator.
 - a. A wettable powder formulation shall be used if available.
 - b. Phytotoxicity resulting from this treatment shall be the responsibility of the applicator.

4.9 Watering

All trees and shrubs shall be watered-in using a deep-watering device, immediately after planting, staking and guying. All planting shall be watered the same day it is planted.

4.10 Insecticide Spray

All deciduous tree trunks shall be thoroughly sprayed with a Methoxychlor or similar insecticide prior to application of tree wrap.

4.11 Tree Wrapping Material

All deciduous tree trunks shall be wrapped after October 1, with wrapping material overlapping one and one-half (1-1/2") inches wound from ground line to the second branch, and securely taped at five places, including the top, middle and bottom. Wrap is to be removed the following spring.

4.12 Staking and Guying

Deciduous trees – place two (2) six foot (6') long steel fence posts at 180° driven vertically into firm soil with blade on tree side. Run double strand of wire securely through nylon strap around trunk at minimum one-third (1/3) height of tree and back to post, twist to remove slack. Evergreen trees six feet (6') high and larger; place three (3) 30" long steel post stakes at 120° around tree, drive into firm soil at angle toward tree. Run double strand of wire securely through nylon strap around trunk and guy twist to remove slack. Trees in tree grates are not to be staked.

4.13 Fine Grading for Landscape Areas

Remove any dikes used to facilitate watering. Smooth surface, contour to distribute irrigation to root ball. Form trench at all landscape edgers or pavements to accommodate mulch at depth specified. See details.

4.14 Preparation for Mulch

Perimeter of Shrub Beds shall be graded two inches (2") below top of curbs, walks, edger (see detail), or any other grade level improvements for receiving mulch. Planted area of shrub bed shall remain at the same grade or higher than adjacent pavements or lawn areas to insure adequate drainage of shrub beds.

4.15 Boulders

Boulders are to be placed where indicated on drawings, and buried such that exposed rock surface depicts natural exposure of outcrop formation . Backfill following placement, compact.

4.16 Installation of Rock Mulch

Rock mulch shall be placed in all shrub beds where shown on the Drawings, spread carefully and evenly to a minimum depth of three-inches (3") over topsoil in planted areas.

4.17 Clean-up

Materials brought into area shall be neatly stockpiled upon completion of each planting day. Debris shall be removed from the project area at completion of this Contract.

4.18 Cleanup of Topsoil Stockpile

Remove stockpile, leave area in a clean and neat condition. Grade site surface to prevent free standing surface water.

5.0 Warranty

5.1 Protection and Maintenance of Plant Materials

All planting shall be protected and maintained until final acceptance of all work. Maintenance shall include watering, weeding, cultivating, mulching, insect control (through spraying, biological control, or whatever method is recommended by the Tri River Extension Service), tightening and repairs of guys, removal of dead branches, resetting plants to proper grade or upright position, and other necessary operations.

5.2 Vandalism

Vandalism or other damage to the plantings or related work shall be the responsibility of the Contractor until all work receives Final Acceptance.

5.3 Final Inspection and Acceptance

Inspection of the work to determine completion of contract, exclusive of the possible replacement of plants, will be made by the Owner's Representative at the conclusion of construction operations. The condition of all planting will be noted and a determination made by the Owner's Representative whether maintenance shall continue in any part. Contractor will be notified of acceptance of the work or any deficiencies in the requirements for completion. Plants must be in excellent and vigorous condition. Excessively pruned trees and shrubs which, in the opinion of the Owner's Representative, are no longer excellent representatives of their species shall be replaced prior to Final Acceptance.

5.4 Guarantee Period

For a period of one (1) year after final acceptance of all work and at no additional cost to the Owner, the Contractor is to reset any trees that have settled beyond the tolerances noted in this Section and replace any trees or shrubs that are dead, or that, in the opinion of the Owners Representative, are in unhealthy or unsightly condition, or that have lost their natural shape due to dead branches or excessive pruning of dead branches. Inadequate or improper maintenance by the Operator shall not be cause for replacement provided the Contractor shall have submitted throughout the guarantee period a bimonthly letter of report to the owner on improper or inadequate maintenance practices and observations, report copies to the Owners Representative.

5.5 Replacement

All replacement planting is to be executed within ten (10) days of notice to replace such plants. Replacement of planting is to be in accordance with the original specifications and its cost considered to be included in the bid price. All areas damaged by tree or shrub planting or replacement operations are to be fully restored to their original condition as specified.

6.0 Payment

6.1 Payment for Landscaping

Method of payment is specified with the Contract Documents General Conditions.

3.4.8 Section Landscaping Work:

1.0 General

1.1 Scope of Landscape Irrigation Work

Furnish all labor, equipment, appliances, materials and perform all operations required to complete irrigation system installation and other work as shown on the applicable drawings and as specified herein, guarantee and meet conditions of this Contract.

1.2 Job Supervision - Irrigation

All work specified herein shall be performed under the direct supervision of a superintendent thoroughly familiar with the work of this Section and who shall be at the Project site for the duration of the work of this Section.

1.3 Job Conditions - Non-Interruption of existing irrigated areas

Adjacent landscape served by existing mainlines that are slated for connection to this project shall have continuous use. Construction of new and relocated mainlines shall be coordinated to not interfere with existing watering schedules. Adjacent landscape irrigation will continue in operation during construction.

1.4 Job Conditions and Provisions-Irrigation

No irrigation system construction shall take place during freezing or wet weather or when temperatures are less than 40 degrees Fahrenheit, and no trenches shall be backfilled with frozen material. Installation of the system shall not take place until all earthwork has been substantially completed, compacted. Errors, conflicts or omissions from the Drawings or Specifications, or the mis-description of details of work which are manifestly necessary to carry out the intent of the Drawings or Specifications, or which are customarily performed, shall not relieve the Contractor from performing such omitted or mis-described details or work, but they shall be performed as if fully and clearly set forth and described in the Drawings and Specifications.

1.5 Substitute Products

Requests for substitution of products named in this section must be approved by the Owner's Representative one week prior to bid opening.

1.6 Tolerances

Depths of mains shall be twenty-four inches (24") bury, and laterals eighteen inches (18"), and pitch of pipes as specified shall be minimums. Coverage achieved on site shall be guaranteed according to plan; any unwatered areas due to poor placement of or insufficient heads shall be corrected by the Contractor.

1.7 Layout of Lines & Levels

Before any installation operations are started, the site shall be completely staked out for the work of this Section by the Contractor. Pipes are not to be installed through tree root ball locations. All mains and valve locations shall be staked out for approval before installation by the Owners Representative.

2.0 Products

2.1 Automatic Drip Control Valve Assembly

Automatic Control Valves are to be Rainbird X CZ-PRB-100-COM Control Valve Zone Kit, including XBV-075 Ball valve, Pressure Regulating Quick-Check Basket filter with green/red indicator, PESB Remote Control Valve, and 3/4" x 1-1/2" Sched. 80 Nipples, or equal.

2.2 Quick Coupler Valves

Quick coupler valves are to be Rainbird #33-D two piece assembly with 3/4" schedule. 80 PVC nipple of length to bring head 1" above finish grade. Marlex Street Ells are to be used for a swing joint assembly to main line.

2.3 Manual Drain Valves

Manual Drain Valves shall be 3/4" Mueller curb stop or equal. Valves shall be of bronze construction with threaded connections, cross handle and operating key.

- 2.4 Valve Boxes
Super Jumbo box (2 valves), or 10" Circular Box (1 valve) or equal.
- 2.5 Manual Drain Valve Boxes
Manual drain valve boxes shall be 10" circular box with lid.
- 2.6 Irrigation Pipe – Main
Main Pressure Line pipe less than 4" in size shall be Class 200, solvent weld PVC, with PVC schedule 40 fittings, sized as shown on plans.
- 2.7 Irrigation Pipe - Lateral Lines
Pipe shall be PVC Class 160 with PVC Schedule 40 fittings, solvent weld, as detailed, sized as shown on the plan.
- 2.8 Isolation Gate Valve
Isolation valves (3" or less) are to be a Spears PVC gate valve, same size as main line, manufactured of PVC type 1, Cell Classification 12454-B, with polypropylene wedge and handle, and BUNA-N "O" Rings, and shall be listed by NSF for use in potable water service.
- 2.9 Drip Distribution Tubing
To be Salco polyethylene micro 1/4" tubing (or approved equal) used with necessary couplings, stakes and end plugs to provide the system shown on the drawing
- 2.10 Drip Irrigation Pipe laterals - Polyethylene 1/2"
Pipe shall be flexible polyethylene pipe rated at 100 psi and of size indicated on drawings.
- 2.11 In Line Drip Emitter Tubing
to be Netafim Techline CV, Emitter flow rate and spacing are to be as of shown on drawing
- 2.12 Drip Emitter - Netafim Woodpecker/Pc Emitter
Netafim Woodpecker/PC Emitter, connected directly to 1/2" poly tubing or 1/4" distribution tubing and 1/4" barbed transfer fitting between 1/4" poly tubing and 1/2" poly tubing as shown on drawing. Emitter is to be of flow rate shown on Valve Schedule.
- 2.13 Blank (No Emitter) Tubing - Netafim
Drip Tubing with no emitters to be Netafim Techline with no emitters.
- 2.14 Flush Cap Assembly – shrub zones

Where landscape areas require more than 15 ft. length of ½" tubing, Netafim Techline CV Manual Line Flush Valve to be installed at the end of all polyethylene laterals in Ametek 6" or 10" circular box with tan/brown C.V. lid Part #181108. Contractor is to include one 1804 Rainbird pop-up head w/closed spray nozzle (black) connected with swing pipe to one 1/2" irrigation lateral.

2.15 Flush Cap Assembly – tree zones

Netafim Techline CV Manual Line Flush Valve to be installed at the end of tree zone polyethylene laterals in Ametek 6 or 10" circular box with tan/brown C.V. lid Part #181108. Contractor is to include one 1804 Rainbird pop-up spray head with PA 80 threaded adapter and PVC cap (white) connected with swing pipe to one 1/2" irrigation lateral.

2.16 Figure 8 End Closure: Polyethylene line less than 15' length

Where landscape areas require less than 15 ft. length of ½" tubing, figure 8 end closures are to be installed at the end of polyethylene drip lines.

2.17 Wire Connectors

Wire connectors at electric control valves and all splices of irrigation controller wire in the field shall be made using DS-400 by Spears wire connectors, or equal.

3.0 Materials

3.1 CL 200 PVC sleeving

Pipe for sleeve shall be class 200 PVC, sized as shown on drawings, of length to protrude from under concrete and/or asphalt a minimum 8".

3.2 Irrigation Valve Control Wires

Electrical control wires from valves to controller shall be 14 gauge PVC - insulated copper U.L. approved for direct burial. White Common (Ground), and wire more than 7,000' in length shall be 12 gauge PVC insulated copper U.L. approved for direct burial. All other wiring materials shall be per applicable codes.

4.0 Execution

4.1 Water Service Connection

The Contractor shall tie into existing service(s) where shown on drawing.

4.2 Trench Excavation

Trenches shall be cut to true line and grade. Over-excavation of trenches for piping shall require compacted backfill to bring bottom of trench up to grade. Provide for surface drainage during construction. De-water all excavations immediately.

4.3 Quick Coupler Valves

Quick coupler valves are to be installed on swing pipe swing joint at location and grade as indicated on drawings and as per details. Installation in soft soils may require staking and tying quick coupler to stake. Drive stake to 4" below grade and tie with nylon tie.

4.4 Manual Drain Valves

Manual drain valve shall be located at all low points on irrigation main. A drain sump of not less than 4.0 cu. ft. of 3/4" washed gravel shall be installed surrounding each drain valve.

4.5 Valve Boxes

Install valve box at locations shown on drawings. Extensions and adjustments shall be made to establish the valve box and cover flush with the final grade level, and provide 4" layer of washed gravel as sump.

4.6 Manual Drain Valve Boxes

All manual drain valves are to be installed with 6" round valve box and cover and 4" PVC sleeve of length to allow hand access to valve.

4.7 Valve Boxes

All automatic control valve assemblies are to be installed in valve boxes. Extensions and adjustments shall be made to establish the valve box and cover flush with the final grade level, and provide 4" layer of washed gravel as sump.

4.8 Piping- general

Manufacturer's specifications covering installation of their material shall be followed. Underground lines up to 2" shall have minimum horizontal clearance of 3" of each other. Sprinkler lines may be stacked vertically in a common trench. Lines shall have minimum horizontal clearance of 12" from the lines of other trades, and minimum 3" vertical clearance between lines crossing at 45° - 90° and 6" minimum vertical clearance when lines do not cross. Trenches for irrigation mainline shall be excavated so that the pipe shall drain uniformly toward drain valves deemed necessary to properly drain the system. Minimum grade of piping to drains shall be 3"/100'. When pipe laying is not in progress, or at end of each day, pipe ends shall be closed with tight plug or cap.

4.9 Boring for Irrigation Lines

Where the pipe must pass under any obstructions which cannot be removed (ie. existing side walk) Contractor shall bore, insert a tight fitting schedule 40 or heavier sleeve at least 1" larger than irrigation pipe passing through sleeve. Water cannot be used in the boring process. If more than one irrigation line passes through the sleeve, sleeve size is to be one inch (1") larger than the combined diameters of the irrigation lines. Excessive boring, loose fitting sleeves shall be cause for rejection, and may be cause for replacement of affected

sidewalk, footing, or other existing site improvement. Tunneling will not be permitted. Contractor is responsible for utility locations.

4.10 PVC sleeving

Sleeving shall be installed in locations noted on drawings and at a depth to accommodate irrigation lines at their required depth. No changes in direction are allowed in sleeves. Ends are to be taped to prevent filling by backfill. Mark locations with lath and notation indicating "sleeve".

4.11 Isolation Gate Valve

Isolation valves are to be installed in mainline at locations shown on drawings. Contractor is to provide extension sleeving from valve box to valve location.

4.12 Automatic Control Valves

All control valves shall be installed as close as possible to the locations shown on the plan; any variances must be approved by the Owners Representative. Install valves, unions, reducers, pipes, wiring, etc. per detail. Control valves shall be installed in accordance with the manufacturer's recommendations. All valves shall have sufficient clearance from adjacent obstructions to provide accessibility for maintenance, including complete removal without removal of valve box. Valves are not to be located in flow line of swales or drainages.

4.13 Connection to Existing Controller

Connect valve wires to existing irrigation controller, mounted where shown on the drawing. Provide and install all conduit, connectors, etc. necessary.

4.14 Wire Connectors

Wire connectors are to be installed as per manufacturer's recommendation.

4.15 Pipe Backfilling

Trenches for piping shall be carefully backfilled with non-swelling on-site soils exclusive of any organic materials, construction debris or other deleterious materials, free from clods of earth or stones larger than two inches (2") in maximum dimension, by depositing the backfill materials equally on both sides of the pipe in loose 8" layers and thoroughly compacting the backfill to a minimum 90% of the maximum dry density determined in accordance with ASHTO T180, Modified Proctor.

4.16 Drip Irrigation Pipe laterals - 1/2" Polyethylene

Pipe shall installed in lengths no longer than 200', max 200 gph. Pipe is to be staked a minimum of every 5'. Pipe is to be installed below weed control fabric if/where fabric occurs, and below mulch where mulch occurs. Pipe is to terminate with either flush valve in 6" round valve box (laterals longer than 15') or figure 8 end closure.

4.17 Drip Distribution Tubing-1/4"

Tubing to be installed as shown on detail. Tubing is to be laid beneath weed control fabric and mulch, stake at plant and every 2.5'.

4.18 In Line Drip Emitter Tubing - Netafim Techline CV Tree Rings

Techline CV tubing to be installed in concentric rings as shown in detail and according to manufacturer, connected directly to poly lateral and spaced according to drawings.

4.19 Drip Emitter - Woodpecker /PC Emitter

Install NetaFim Woodpecker/PC Emitter 2.2 gph (8lph) emitters in quantities shown on detail, connected directly to 1/2" poly tubing or 1/4" distribution tubing and 1/4" barbed transfer fitting between 1/4" poly tubing and 1/2" poly tubing as shown on drawing. Emitters & tube is to be staked at root ball of plant. Install beneath fabric and/or mulch where mulches are used. Emitter is to be a flow rate as noted in Valve Schedule.

4.20 Flush Cap Assembly

Netafim Techline CV Manual Line Flush Valve (#TLSOV) to be installed at the end of polyethylene laterals 15' in length or longer in Ametek 10" circular box with tan/brown C.V. lid Part #181108. Contractor is to include one 1806 Rainbird pop-up spray head with swing pipe to one 1/2" irrigation lateral per zone with flush cap assembly. Shrub zones are to include a spray nozzle adjusted to be closed. Tree zones to have PA-80 Adapter and 1/2" PVC Female cap (white). Flush Cap Assemblies are to be located adjacent to walks or lawn areas where possible for maintenance access. Polyethylene laterals less than 15' in length shall be terminated with Figure 8 End Closures.

4.21 Irrigation Valve Control Wires

All control wires shall be placed carefully alongside and slightly below the water main where it will receive the greatest possible protection. Control wires not protected by the water main shall be laid in a suitable sized PVC conduit unless otherwise noted on the plans. Control wire shall have an eighteen (18") inch expansion loop at each valve and every 200' of wire. Where more than one control wire is located in the trench, the wires shall be taped together at 20' intervals to maintain orderly and efficient installation. Contractor shall provide an extra control wire at all manifolded valves. Contractor to avoid mid-line splices, but where necessary will adequately note location on the "as-builts".

5.0 Warranty

5.1 As-Built Submittals

Contractor shall submit an as-built or record plan upon completion of work showing precise location of control valves, mains, drain valves, etc., and any changes in location of heads, piping, etc. to the Owner and their representative

before final application for payment. Provide one reproducible and three prints. Format shall be an electronic .dwf file.

5.2 Vandalism

Minor vandalism or other damage shall be the responsibility of the Contractor until all work receives Final Acceptance. Major vandalism or damage caused by others through no fault of the Contractor or his subcontractors shall be immediately brought to the attention of the Owners Representative who will be the sole judge as to the extent of such damage. Major damage is typically any damage over \$500.00 worth of materials and/or labor required to repair the damage. For the Contractor to be awarded additional monies under the provisions of "extra work" stated in the General Conditions, he shall have fully protected his work as specified herein. Any failure, however slight, of the Contractor to have protected his work shall be grounds to nullify any request for additional remuneration.

6.0 Payment

6.1 Payment for Landscape Irrigation System

Payment for Landscape Irrigation System work shall be paid for at the lump sum contract price bid for "Landscape Irrigation System". This payment shall be full compensation for all equipment, tools, and labor required for these operations within the construction limits of this contract.

3.4. IFB Tentative Time Schedule:

Invitation For Bids available	December 28, 2016
Mandatory Pre-bid meeting	January 19, 2017
Inquiry deadline, no questions after this date	January 26, 2017
Submittal deadline for proposals	February 1, 2017
Letter of Intent	February 3, 2017
City Council Approval	February 15, 2017
Contract execution (unless Council approval required)	February 16, 2017
Bonding & Insurance Cert due	February 21, 2016
Work begins no later than	February 21, 2016
Substantial Completion	June 14, 2017
Final Completion	July 14, 2017

3.5. Questions Regarding Scope of Services:

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

4. Contractor's Bid Form

Bid Date: _____

Project: IFB-4321-17-DH "1st Street Reconstruction (Ouray Ave to North Ave.)"

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.

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.

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.

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	108.2	8" Storm Drain Pipe (RCP)	10.	LF	\$ _____	\$ _____
2	108.2	12" Storm Drain Pipe (RCP)	358.	LF	\$ _____	\$ _____
3	108.2	30" Storm Drain Pipe (RCP)	5.	LF	\$ _____	\$ _____
4	108.2	42" Storm Drain Pipe (RCP)	406.	LF	\$ _____	\$ _____
5	108.5	Connect to Existing Manhole	4.	EA	\$ _____	\$ _____
6	108.5	Adjust storm Manhole Rim to Finish Grade (Replace ring and cover with Watertight)	2.	EA	\$ _____	\$ _____
7	108.6	Storm Sewer Basic Manhole (48" I.D.)	1.	EA	\$ _____	\$ _____
8	108.6	Tee Manhole Special (42" X 48")	2.	EA	\$ _____	\$ _____
9	108.6	Tee Manhole Special (48" X 60")	1.	EA	\$ _____	\$ _____
10	108.6	Single Storm Drain Inlet (Large Area Inlet)	9.	EA	\$ _____	\$ _____
11	108.6	Single Storm Drain Inlet (Vertical Curb)	3.	EA	\$ _____	\$ _____
12	202	Removal of Asphalt Mat (Milling)(1"-8")	18,150.	SY	\$ _____	\$ _____
13	202	Removal of concrete. Remove concrete as shown* indicated by cross hatch pattern(includes but not limited to Saw Cutting, curb, gutter, sidewalks, driveways slabs v-pans, curb ramps, intersection corners and aprons)	2,711.	SY	\$ _____	\$ _____
14	202	Remove Tree	9.	EA	\$ _____	\$ _____
15	202	Removal of Bush	43.	EA	\$ _____	\$ _____
16	202	Removal of Sod	4,900.	SF	\$ _____	\$ _____
17	202	Removal of Manhole (Storm)	2.	EA	\$ _____	\$ _____
18	202	Removal of Inlet	8.	EA	\$ _____	\$ _____
19	202	Removal of Ground Sign	1.	EA	\$ _____	\$ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
20	202	Removal of Pipe (12" and Smaller)	305.	LF	₹ _____	₹ _____
21	202	Removal of Pipe (18" and Larger)	75.	LF	₹ _____	₹ _____
22	202	Abandon Pipe by plugging Open end	2.	EA	₹ _____	₹ _____
23	202	Removal of wood boarder	171.	LF	₹ _____	₹ _____
24	202	Removal of Parking Chalks	4.	EA	₹ _____	₹ _____
25	202	Removal of Fence	64.	LF	₹ _____	₹ _____
26	202	Remove post	7.	EA	₹ _____	₹ _____
27	202	Remove buisness sign base (901 and 935 N 1st St and 2582 HWY 6 & 50)	5.	EA	₹ _____	₹ _____
28	202	Remove Pole Foundation	1.	EA	₹ _____	₹ _____
29	202	Remove Light Pole	2.	EA	₹ _____	₹ _____
30	203	Potholing	Lump sum		---	₹ _____
31	203	Unclassified Excavation	13,658.	CY	₹ _____	₹ _____
32	203	Sweeping with Pick-up Broom	70.	HR	₹ _____	₹ _____
33	203	Disposal of Radioactive Materials	250.	CY	₹ _____	₹ _____
34	206	Structural Backfill (Flowfill)(as Required)	100.	CY	₹ _____	₹ _____
35	208	Storm Drain Inlet Protection	14.	EA	₹ _____	₹ _____
36	208	Concrete Washout Facility	4.	EA	₹ _____	₹ _____
37	208	Vehical track Pad	4.	EA	₹ _____	₹ _____
38	208	Erosion Control (Complete In Place)	Lump sum		---	₹ _____
39	209	Dust Abatement	120.	Day	₹ _____	₹ _____
40	210	Reset Sprinkler System (Complete in Place)	6.	EA	₹ _____	₹ _____
41	210	Reset Sign Panel	21.	EA	₹ _____	₹ _____
42	210	Adjust Water Valve to Finish Grade	20.	EA	₹ _____	₹ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
43	210	Reset Fire Hydrant	1.	EA	₹ _____	₹ _____
44	210	Adjust Water meter to Finished Grade	27.	EA	₹ _____	₹ _____
45	210	Rest Backflow Preventor	3.	EA	₹ _____	₹ _____
46	210	Temporary Sidewalk	100.	LF	₹ _____	₹ _____
47	210	Adjust Manhole to Finished Grade	10.	EA	₹ _____	₹ _____
48	210	Adjust SSCO to Finished Grade	23.	EA	₹ _____	₹ _____
49	210	Reset Parking Blocks	6.	EA	₹ _____	₹ _____
50	210	Reset Business (Sign) (Price to include new Base)	2.	EA	₹ _____	₹ _____
51	210	Reference and Reset Monitoring Well Covers(Protect Monitoring Well in Place)	9.	EA	₹ _____	₹ _____
52	212	Sod (Behind BOW to restore sodded areas	2,205.	SF	₹ _____	₹ _____
53	213	Inorganic mulch (behind BOW to restore Xeriscape or gravel driveway)(4" Deep)	17.	CY	₹ _____	₹ _____
54	304	Subgrade Stabilization (Class 3 ABC)20" Thick(Road Prism)(1st Street)	10,400.	SY	₹ _____	₹ _____
55	304	Aggregate Base Course (Class 6)(12" Thick)(1st St and North Ave)	10,700.	SY	₹ _____	₹ _____
56	304	Aggregate Base Course (Class 6)(6" thick) (Paving behind BOW to Restore Driveways and parking)(FOR HMA ONLY)	1,150.	SY	₹ _____	₹ _____
57	304	Aggregate Base Course (Class 6)(12" Thick)(Connector Roads)	1,250.	SY	₹ _____	₹ _____
58	401	Hot Mix Asphalt (3" Thick)(Gradin SX-75)(Binder 64-22)(Bottom Mat Connector Roads)	1,250.	SY	₹ _____	₹ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
59	401	Hot Mix Asphalt (2" Thick)(Gradin SX-75)(Binder 76-28)(Top Mat Connector Roads)	1,250.	SY	₹ _____	₹ _____
60	401	Hot Mix Asphalt (2" Thick) (Overlay Fuoco DWY)	800.	SY	₹ _____	₹ _____
61	401	Hot Mix Asphalt Grade Transition from Back of Curb to Existing Pavement Grade (Grading SX-75)(Binder 64-22)(Fuoco Driveway)	35.	TON	₹ _____	₹ _____
62	401	Hot Mix Asphalt (4" Thick) (Grading SX-75)(Binder 64-22)(2ea 2"Lifts)(Paving Behind Back of Walk to restore Drives and Parking)	1,150.	SY	₹ _____	₹ _____
63	412	Colored Concrete Pavement (Parking)(Class D)(8" Thick) (Omaha Tan)(Davis Color 5084)(Price to Include 4" Class 6 Aggregate Base Course)	1,190.	SY	₹ _____	₹ _____
64	412	Concrete Pavement (Alley)(Class D)(8" Thick)(Price to Include 4" Class 6 Aggregate Base Course)	250.	SY	₹ _____	₹ _____
65	412	Concrete Pavement (Paving Behind Back of Walk to restore Drives and Parking)(Class D)(6" Thick)(Price to Include 4" Class 6 Aggregate Base Course)	65.	SY	₹ _____	₹ _____
66	420	Geogrid (TriAxial)	1,000.	SY	₹ _____	₹ _____
67	608	Concrete Drainage Pan (1.5' Wide)	5.	LF	₹ _____	₹ _____
68	608	Concrete Drainage Pan (3' Wide)	35.	LF	₹ _____	₹ _____
69	608	Concrete Drainage Pan (6' Wide)	180.	LF	₹ _____	₹ _____
70	608	Concrete Curb (6" wide)	2,090.	LF	₹ _____	₹ _____
71	608	Concrete Curb with Spill Gutter (1.5' Wide)	510.	LF	₹ _____	₹ _____
72	608	Concrete Curb and Gutter (2' Wide)	1,350.	LF	₹ _____	₹ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
73	608	Concrete Curb and Gutter (2.5' Wide)	25.	LF	₱ _____	₱ _____
74	608	Concrete Drive Over Curb and Gutter (3' Wide)	470.	LF	₱ _____	₱ _____
75	608	Concrete Sidewalk (4" Thick)	2,710.	SY	₱ _____	₱ _____
76	608	Monolithic Curb Gutter and Sidewalk (7' Wide)	25.	SY	₱ _____	₱ _____
77	608	Monolithic Curb Gutter and Sidewalk (10' Wide)	300.	SY	₱ _____	₱ _____
78	608	Concrete Curb Ramp (8" thick)	255.	SY	₱ _____	₱ _____
79	608	Concrete Driveway Section (8" Thick)	1,690.	SY	₱ _____	₱ _____
80	608	Concrete Intersection Corner	340.	SY	₱ _____	₱ _____
81	608	Concrete Median Edgeing 1.5' Wide(Sunset Rose)(Davis Color 160)	410.	LF	₱ _____	₱ _____
82	608	Detectable Warning (Wet Set) (2'X2")	65.	EA	₱ _____	₱ _____
83	613	Large Splice Box (Quasite 24X36)(Labled "FIBER")	8.	EA	₱ _____	₱ _____
84	613	Splice Box (Quasite 13X24X15)(Labled "Fiber")	8.	EA	₱ _____	₱ _____
85	613	Large Splice Box (48" Manhole Cone Section on Blocks)(Price to include Manhole Ring and Cover labled "TRAFFIC")	7.	EA	₱ _____	₱ _____
86	613	6" Diameter SCH 80 PVC Conduit Duct (With a standard 8KN pull rope pre installed and #10 tracing wire)(to be installed in common trench)	2,500.	LF	₱ _____	₱ _____
87	613	2" Diameter SCH 80 PVC Conduit Duct (With a standard 8KN pull rope pre installed and #10 tracing wire)(to be installed in common trench)	4,300.	LF	₱ _____	₱ _____
88	613	Electrical Utility Trech (24" Wide X 30" Deep) (Including Backfill Material Per Special Provisions)	2,500.	LF	₱ _____	₱ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
89	620	Sanitary Facility		Lump sum	---	\$ _____
90	625	Construction Surveying		Lump sum	---	\$ _____
91	626	Mobilization		Lump sum	---	\$ _____
92	627	Preformed Thermoplastic Pavement Markings (Word Symbol)	360.	SF	\$ _____	\$ _____
93	627	Preformed Thermoplastic Pavement Markings (X-Walk/Stop Bar)	2,200.	SF	\$ _____	\$ _____
94	629	Reference and Reset Survey Monuments	7.	EA	\$ _____	\$ _____
95	629	Set Property Pin Per Legal Description	19.	EA	\$ _____	\$ _____
96	630	Traffic Control Plan		Lump Sum	---	\$ _____
97	630	Traffic Control (Complete In Place)		Lump Sum	---	\$ _____
98	630	Flagging	1,000.	HR	\$ _____	\$ _____
99		Landscaping (per Summary of Approximate Quantities in Drawing Package)		Lump sum	---	\$ _____
100		Irrigation (per Summary of Approximate Quantities in Drawing Package)		Lump sum	---	\$ _____
101	INC	Incentive (Maximum 30 Days @ \$2500/Day)	---	---	---	<u>\$ 75,000.00</u>
MCR		Minor Contract Revisions	---	---	---	<u>\$ 100,000.00</u>
Bid Amount:						\$ _____

Bid Amount:

dollars



Purchasing Division

ADDENDUM NO. 1

DATE: December 29, 2016
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: 1st Street Reconstruction (Ouray Ave to North Ave)

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. See attached plans/drawings to be added to this solicitation.
2. A bid line item for Quality Control Testing has been added to the solicitation Bid Schedule. Contractor shall utilize this Revised Bid Schedule when submitting their bid response to this solicitation process (see attached).

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

A handwritten signature in black ink, appearing to read "Duane Hoff Jr.", written over a yellow horizontal line.

Duane Hoff Jr.
City of Grand Junction, Colorado

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #1

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	108.2	8" Storm Drain Pipe (RCP)	10.	LF	\$ _____	\$ _____
2	108.2	12" Storm Drain Pipe (RCP)	358.	LF	\$ _____	\$ _____
3	108.2	30" Storm Drain Pipe (RCP)	5.	LF	\$ _____	\$ _____
4	108.2	42" Storm Drain Pipe (RCP)	406.	LF	\$ _____	\$ _____
5	108.5	Connect to Existing Manhole	4.	EA	\$ _____	\$ _____
6	108.5	Adjust storm Manhole Rim to Finish Grade (Replace ring and cover with Watertight)	2.	EA	\$ _____	\$ _____
7	108.6	Storm Sewer Basic Manhole (48" I.D.)	1.	EA	\$ _____	\$ _____
8	108.6	Tee Manhole Special (42" X 48")	2.	EA	\$ _____	\$ _____
9	108.6	Tee Manhole Special (48" X 60")	1.	EA	\$ _____	\$ _____
10	108.6	Single Storm Drain Inlet (Large Area Inlet)	9.	EA	\$ _____	\$ _____
11	108.6	Single Storm Drain Inlet (Vertical Curb)	3.	EA	\$ _____	\$ _____
12	202	Removal of Asphalt Mat (Milling)(1"-8")	18,150.	SY	\$ _____	\$ _____
13	202	Removal of concrete. Remove concrete as shown* indicated by cross hatch pattern(includes but not limited to Saw Cutting, curb, gutter, sidewalks, driveways slabs v-pans, curb ramps, intersection corners and aprons)	2,711.	SY	\$ _____	\$ _____
14	202	Remove Tree	9.	EA	\$ _____	\$ _____
15	202	Removal of Bush	43.	EA	\$ _____	\$ _____
16	202	Removal of Sod	4,900.	SF	\$ _____	\$ _____
17	202	Removal of Manhole (Storm)	2.	EA	\$ _____	\$ _____
18	202	Removal of Inlet	8.	EA	\$ _____	\$ _____
19	202	Removal of Ground Sign	1.	EA	\$ _____	\$ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #1

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
20	202	Removal of Pipe (12" and Smaller)	305.	LF	₹ _____	₹ _____
21	202	Removal of Pipe (18" and Larger)	75.	LF	₹ _____	₹ _____
22	202	Abandon Pipe by plugging Open end	2.	EA	₹ _____	₹ _____
23	202	Removal of wood boarder	171.	LF	₹ _____	₹ _____
24	202	Removal of Parking Chalks	4.	EA	₹ _____	₹ _____
25	202	Removal of Fence	64.	LF	₹ _____	₹ _____
26	202	Remove post	7.	EA	₹ _____	₹ _____
27	202	Remove buisness sign base (901 and 935 N 1st St and 2582 HWY 6 & 50)	5.	EA	₹ _____	₹ _____
28	202	Remove Pole Foundation	1.	EA	₹ _____	₹ _____
29	202	Remove Light Pole	2.	EA	₹ _____	₹ _____
30	203	Potholing	Lump sum		---	₹ _____
31	203	Unclassified Excavation	13,658.	CY	₹ _____	₹ _____
32	203	Sweeping with Pick-up Broom	70.	HR	₹ _____	₹ _____
33	203	Disposal of Radioactive Materials	250.	CY	₹ _____	₹ _____
34	206	Structural Backfill (Flowfill)(as Required)	100.	CY	₹ _____	₹ _____
35	208	Storm Drain Inlet Protection	14.	EA	₹ _____	₹ _____
36	208	Concrete Washout Facility	4.	EA	₹ _____	₹ _____
37	208	Vehical track Pad	4.	EA	₹ _____	₹ _____
38	208	Erosion Control (Complete In Place)	Lump sum		---	₹ _____
39	209	Dust Abatement	120.	Day	₹ _____	₹ _____
40	210	Reset Sprinkler System (Complete in Place)	6.	EA	₹ _____	₹ _____
41	210	Reset Sign Panel	21.	EA	₹ _____	₹ _____
42	210	Adjust Water Valve to Finish Grade	20.	EA	₹ _____	₹ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #1

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
43	210	Reset Fire Hydrant	1.	EA	₱ _____	₱ _____
44	210	Adjust Water meter to Finished Grade	27.	EA	₱ _____	₱ _____
45	210	Rest Backflow Preventor	3.	EA	₱ _____	₱ _____
46	210	Temporary Sidewalk	100.	LF	₱ _____	₱ _____
47	210	Adjust Manhole to Finished Grade	10.	EA	₱ _____	₱ _____
48	210	Adjust SSCO to Finished Grade	23.	EA	₱ _____	₱ _____
49	210	Reset Parking Blocks	6.	EA	₱ _____	₱ _____
50	210	Reset Business (Sign) (Price to include new Base)	2.	EA	₱ _____	₱ _____
51	210	Reference and Reset Monitoring Well Covers(Protect Monitoring Well in Place)	9.	EA	₱ _____	₱ _____
52	212	Sod (Behind BOW to restore sodded areas	2,205.	SF	₱ _____	₱ _____
53	213	Inorganic mulch (behind BOW to restore Xericscape or gravel driveway)(4" Deep)	17.	CY	₱ _____	₱ _____
54	304	Subgrade Stabilization (Class 3 ABC)20" Thick(Road Prism)(1st Street)	10,400.	SY	₱ _____	₱ _____
55	304	Aggregate Base Course (Class 6)(12" Thick)(1st St and North Ave)	10,700.	SY	₱ _____	₱ _____
56	304	Aggregate Base Course (Class 6)(6" thick) (Paving behind BOW to Restore Driveways and parking)(FOR HMA ONLY)	1,150.	SY	₱ _____	₱ _____
57	304	Aggregate Base Course (Class 6)(12" Thick)(Connector Roads)	1,250.	SY	₱ _____	₱ _____
58	401	Hot Mix Asphalt (3" Thick)(Gradin SX-75)(Binder 64-22)(Bottom Mat Connector Roads)	1,250.	SY	₱ _____	₱ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #1

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
59	401	Hot Mix Asphalt (2" Thick)(Gradin SX-75)(Binder 76-28)(Top Mat Connector Roads)	1,250.	SY	₪ _____	₪ _____
60	401	Hot Mix Asphalt (2" Thick) (Overlay Fuoco DWY)	800.	SY	₪ _____	₪ _____
61	401	Hot Mix Asphalt Grade Transition from Back of Curb to Existing Pavement Grade (Grading SX-75)(Binder 64-22)(Fuoco Driveway)	35.	TON	₪ _____	₪ _____
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63	412	Colored Concrete Pavement (Parking)(Class D)(8" Thick) (Omaha Tan)(Davis Color 5084)(Price to Include 4" Class 6 Aggregate Base Course)	1,190.	SY	₪ _____	₪ _____
64	412	Concrete Pavement (Alley)(Class D)(8" Thick)(Price to Include 4" Class 6 Aggregate Base Course)	250.	SY	₪ _____	₪ _____
65	412	Concrete Pavement (Paving Behind Back of Walk to restore Drives and Parking)(Class D)(6" Thick)(Price to Include 4" Class 6 Aggregate Base Course)	65.	SY	₪ _____	₪ _____
66	420	Geogrid (TriAxial)	1,000.	SY	₪ _____	₪ _____
67	608	Concrete Drainage Pan (1.5' Wide)	5.	LF	₪ _____	₪ _____
68	608	Concrete Drainage Pan (3' Wide)	35.	LF	₪ _____	₪ _____
69	608	Concrete Drainage Pan (6' Wide)	180.	LF	₪ _____	₪ _____
70	608	Concrete Curb (6" wide)	2,090.	LF	₪ _____	₪ _____
71	608	Concrete Curb with Spill Gutter (1.5' Wide)	510.	LF	₪ _____	₪ _____
72	608	Concrete Curb and Gutter (2' Wide)	1,350.	LF	₪ _____	₪ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #1

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
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79	608	Concrete Driveway Section (8" Thick)	1,690.	SY	₱ _____	₱ _____
80	608	Concrete Intersection Corner	340.	SY	₱ _____	₱ _____
81	608	Concrete Median Edgeing 1.5' Wide(Sunset Rose)(Davis Color 160)	410.	LF	₱ _____	₱ _____
82	608	Detectable Warning (Wet Set) (2'X2")	65.	EA	₱ _____	₱ _____
83	613	Large Splice Box (Quasite 24X36)(Labled "FIBER")	8.	EA	₱ _____	₱ _____
84	613	Splice Box (Quasite 13X24X15)(Labled "Fiber")	8.	EA	₱ _____	₱ _____
85	613	Large Splice Box (48" Manhole Cone Section on Blocks)(Price to include Manhole Ring and Cover labled "TRAFFIC")	7.	EA	₱ _____	₱ _____
86	613	6" Diameter SCH 80 PVC Conduit Duct (With a standard 8KN pull rope pre installed and #10 tracing wire)(to be installed in common trench)	2,500.	LF	₱ _____	₱ _____
87	613	2" Diameter SCH 80 PVC Conduit Duct (With a standard 8KN pull rope pre installed and #10 tracing wire)(to be installed in common trench)	4,300.	LF	₱ _____	₱ _____
88	613	Electrical Utility Trech (24" Wide X 30" Deep) (Including Backfill Material Per Special Provisions)	2,500.	LF	₱ _____	₱ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #1

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
89	620	Sanitary Facility		Lump sum	---	\$ _____
90	625	Construction Surveying		Lump sum	---	\$ _____
91	626	Mobilization		Lump sum	---	\$ _____
92	627	Preformed Thermoplastic Pavement Markings (Word Symbol)	360.	SF	\$ _____	\$ _____
93	627	Preformed Thermoplastic Pavement Markings (X-Walk/Stop Bar)	2,200.	SF	\$ _____	\$ _____
94	629	Reference and Reset Survey Monuments	7.	EA	\$ _____	\$ _____
95	629	Set Property Pin Per Legal Description	19.	EA	\$ _____	\$ _____
96	630	Traffic Control Plan		Lump Sum	---	\$ _____
97	630	Traffic Control (Complete In Place)		Lump Sum	---	\$ _____
98	630	Flagging	1,000.	HR	\$ _____	\$ _____
99		Landscaping (per Summary of Approximate Quantities in Drawing Package)		Lump sum	---	\$ _____
100		Irrigation (per Summary of Approximate Quantities in Drawing Package)		Lump sum	---	\$ _____
101	INC	Incentive (Maximum 30 Days @ \$2500/Day)	---	---	---	<u>\$ 75,000.00</u>
102	QC	Quality Control Testing		Lump Sum	---	\$ _____
MCR		Minor Contract Revisions	---	---	---	<u>\$ 100,000.00</u>

Bid Amount: \$ _____

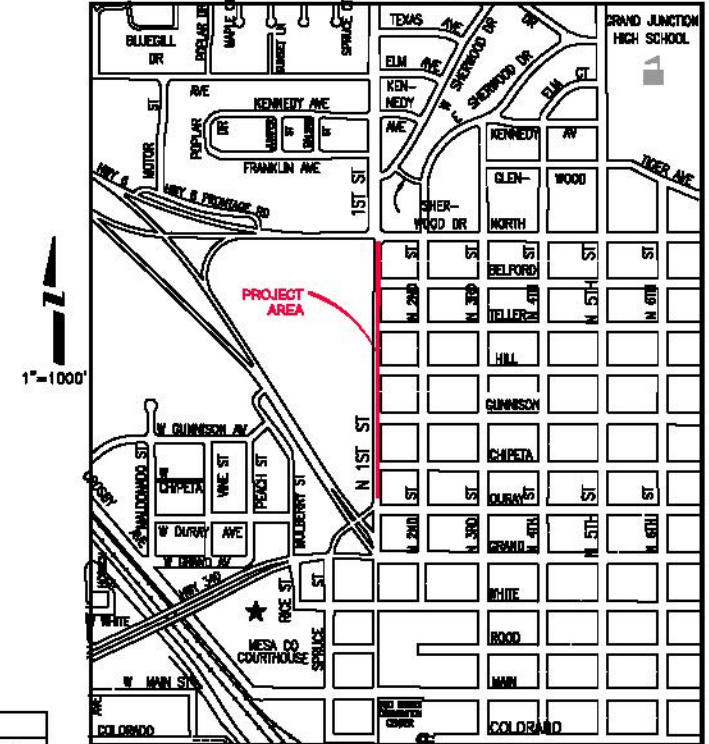
Bid Amount: _____

dollars

1ST STREET RECONSTRUCTION FROM OURAY AVE TO NORTH AVE DECEMBER, 2016

- 1 Cover Sheet
- 2 Standard Abbreviations, Legend, And Symbols
- 3 Summary Of Approximate Quantities
- 4 Project Overview
- 5 Project Control Map
- 6-7 Typical Cross Sections
- 8 Utility Details
- 9-14 Utility Plan
- 15 Storm Drain Vicinity Map
- 16-21 Storm Drain Plan
- 22-27 Storm Drain Profile
- 28-34 Storm Drain Inlet And Manhole Details
- 35-42 Storm Water Management Plan
- 43-47 Storm Water Management Plan - Site Map
- 48-53 Removal Plan
- 54-59 Roadway Plan
- 60-64 Staking Plan
- 65-79 Detailed Grading And Intersection Plans
- 80-85 0.10 Foot Finished Ground Contour Map
- 86-121 Roadway Profile
- 122-134 Roadway Cross Sections
- 135-140 Signing Plan
- 141-146 Striping Plan
- 147-153 Temporary Easement And Right Of Way Plan
- 154-164 Irrigation Plans
- 165-174 Landscape Plans

VICINITY MAP



UTILITIES AND AGENCIES

AGENCY	NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE-WK	FAX
GRAND JUNCTION, CITY OF	JEROD THORNY	PROJECT ENGINEER	PROJECT ENGINEER	260 N. 8th STREET	260 N. 8th STREET	GRAND JCT., CO 81501	(970) 244-1500	(970) 244-4222
GRAND JUNCTION, CITY OF	GREG GULLORY	UTILITY ENGINEER	SANITARY SEWER	260 N. 8th STREET	260 N. 8th STREET	GRAND JCT., CO 81501	(970) 244-1500	(970) 244-4222
GRAND VALLEY IRRIGATION CO.	PHIL BERTHOLD	IRRIGATION	IRRIGATION	888 28 ROAD	888 28 ROAD	GRAND JCT., CO 81506	(970) 248-2782	
EMARTER	JEFF VALACE	MANAGER	CABLE TV	3528 FOREMONT CIRCLE	3528 FOREMONT CIRCLE	GRAND JCT., CO 81504	(970) 244-8780	(970) 244-8823
U.S. MOUNT/OWNIT	CHRIS JOHNSON	ENGINEER	TELEPHONE	2524 BLICHMANN AVE	2524 BLICHMANN AVE	GRAND JCT., CO 81504	(970) 244-1511	(970) 242-4344
UTC WATER	AUSTIN BATES	SUPERVISOR	WATER	PO BOX 480		GRAND JCT., CO 81502	(970) 242-7481	(970) 242-8188
WGL	BOB BERRYMAN	UNIT MANAGER	CAR, ELECTRIC	2528 BLICHMANN AVE	2528 BLICHMANN AVE	GRAND JCT., CO 81508	(970) 244-2254	(970) 244-2261

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

REVISION	DESCRIPTION	DATE
REVISION A.001		2016
REVISION A.002		2016
REVISION A.003		2016
REVISION A.004		2016



Public Works
Engineering Division



DRAWING STATUS:	
<input type="checkbox"/> PROPOSED	<input checked="" type="checkbox"/> FINAL CONSTRUCTION DRAWING
DESIGNED BY:	
JUSTIN WENZEL, PROJECT ENGINEER	2016
REVIEWED BY:	
TRISHON C. PHILL, CITY ENGINEER	2016
AUTHORIZED FOR CONSTRUCTION	
TRISHON C. PHILL, CITY ENGINEER	
ACCEPTED AS CONSTRUCTED	

N:\Land\proj\20108 1st Street Reconstruction (F1501)\DWG PUBLICATION\SUMMARY OF APPROXIMATE QUANTITIES.dwg, 7/13/2016 7:49:06 AM

NOTES:

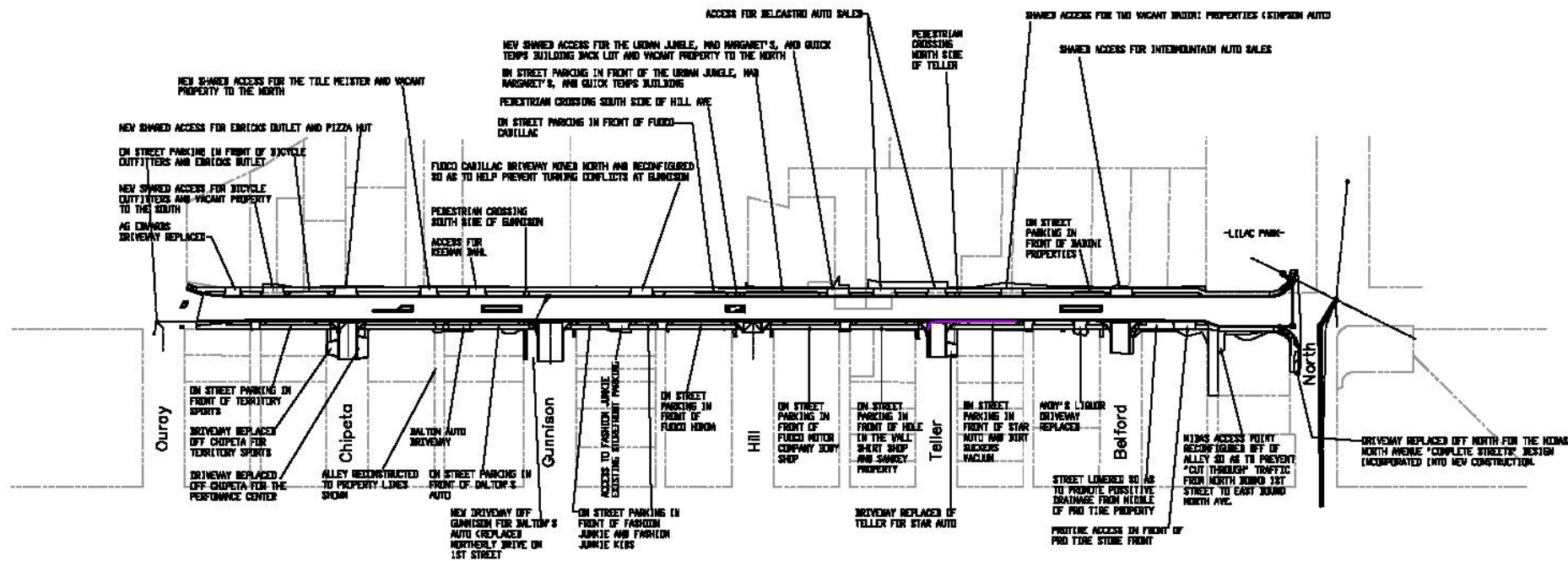
JUST A PLACE HOLDER IN THE PLAN SET FOR NOW

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
REVISION A	SEE	2016	ASB	2016				
REVISION B	SEE	2016						
REVISION C	SEE	2016						
REVISION D	SEE	2016						



**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
SUMMARY OF APPROXIMATE QUANTITIES**



NOTES:

- CONTINUOUS DETACHED SIDEWALK FROM DURAY TO ALLEY NORTH OF BELFORD BOTH SIDES OF 1ST STREET
- IN ADDITION TO VEHICULAR TRAVEL LANES (1 EACH NORTH AND SOUTH BOUND) THERE WILL BE BIKE LANES ON BOTH SIDES OF 1ST STREET FROM DURAY TO NORTH
- STREETSCAPING IN MEDIANS AND ISLANDS

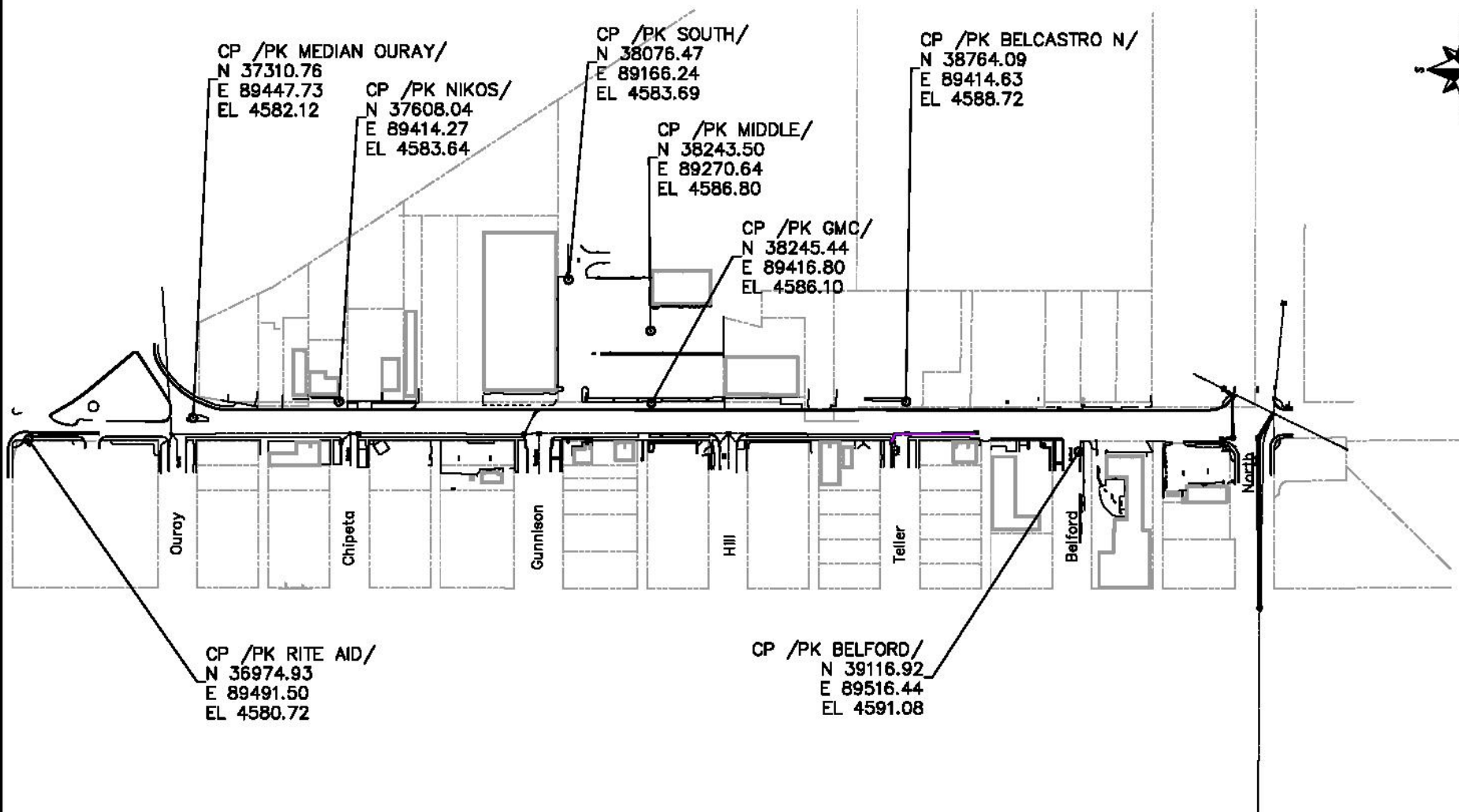
N:\Landing\2015 1st Street Reconstruction (P1501)\DWG\PUBLICATION\project overview.dwg, Layout1, 12/27/2016 4:44:05 PM

REVISION	DATE	DESCRIPTION	DRAWN BY	DATE	CHECKED BY	DATE
REVISION A	2016		ASB	2016		
REVISION B	2016		ASB	2016		
REVISION C	2016		ASB	2016		
REVISION D	2016		ASB	2016		



**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
PROJECT OVERVIEW**



CP /PK MEDIAN OURAY/
 N 37310.76
 E 89447.73
 EL 4582.12

CP /PK NIKOS/
 N 37608.04
 E 89414.27
 EL 4583.64

CP /PK SOUTH/
 N 38076.47
 E 89166.24
 EL 4583.69

CP /PK MIDDLE/
 N 38243.50
 E 89270.64
 EL 4586.80

CP /PK BELCASTRO N/
 N 38764.09
 E 89414.63
 EL 4588.72

CP /PK GMC/
 N 38245.44
 E 89416.80
 EL 4586.10

CP /PK RITE AID/
 N 36974.93
 E 89491.50
 EL 4580.72

CP /PK BELFORD/
 N 39116.92
 E 89516.44
 EL 4591.08

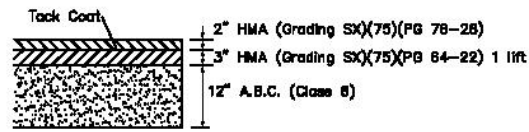
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REVISION C	SEE	2018	AGB	2018	AS SHOWN
REVISION D	SEE	2018	AGB	2018	AS SHOWN



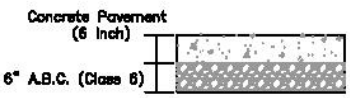
**PUBLIC WORKS
 AND UTILITIES
 ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
 PROJECT CONTROL MAP**

N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\DESIGN\PROJECT CONTROL MAP.dwg, Layout, 12/27/2016 4:46:34 PM

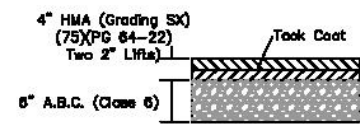


ROADWAY ASPHALT PAVEMENT DETAIL
(All Connecting Streets except North)



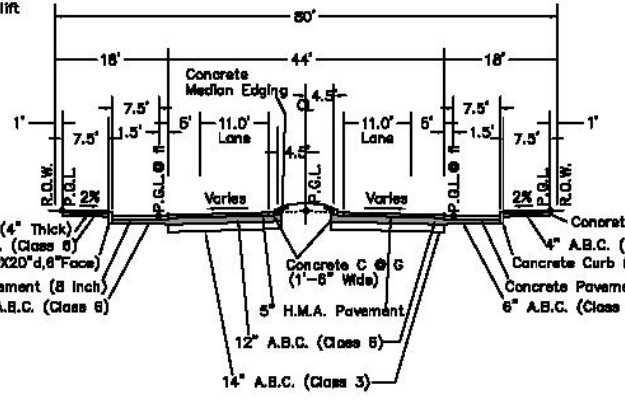
DRIVEWAY CONCRETE PAVEMENT DETAIL

TERRITORY SPORTS
URBAN JUNGLE THRIFT
MAD MARGARET'S
QUICK TEMPS
NORTH OF HOLE IN THE WALL SHIRT SHOP

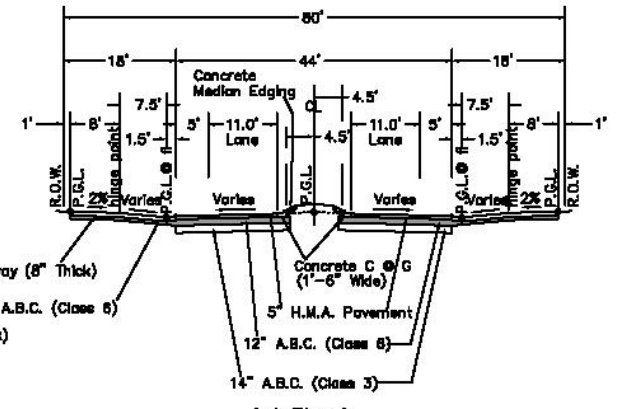


DRIVEWAY ASPHALT PAVEMENT DETAIL

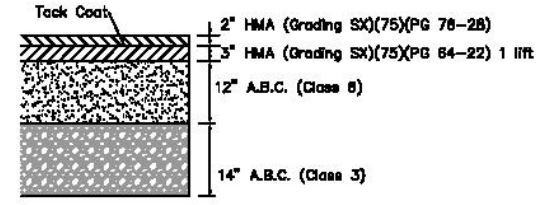
EDWARD JONES INVESTMENTS
BICYCLE OUTFITTERS
BRICKS OUTLET
PIZZA HUT
TERRITORY SPORTS
PERFORMANCE CENTER
TILE MASTER
KEENAN DAHL
FUOCO CADILLAC
DALTON'S AUTO
FASHION JUNKIE
BELCASTRO MOTORS
HILL TELLER ALLEY
NORTH OF HOLE IN THE WALL SHIRT SHOP
BADINI PROPERTIES
INTER MOUNTAIN AUTO SALES
ANDY'S LIQUOR
PRO TIRE AND ALIGNMENT
MIDAS



1st Street
On Street Parking Section



1st Street
Driveway/Detached Sidewalk Section



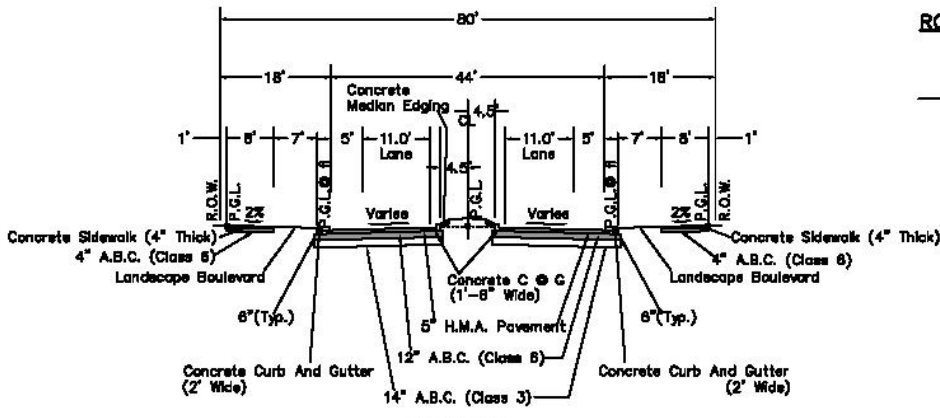
ROADWAY ASPHALT PAVEMENT DETAIL
(1st Street and North Ave)

Notes.

- Any Combination Of Landscape Boulevard, On Street Parking, Or Driveway/detached Sidewalk May Occur At Any Given Station Outside Of The 5' Bike Lane. See The Roadway Plan And The Staking Plan For Specific Beginning And Ending Stations. Sections Are Shown Symmetrical For Ease Of Illustration.
- Extend Full Pavement Base Section 6" Beyond Back Of Curbs (Typical)
- See Landscape Plans For Work Between Sidewalk and Back Of Curbs (Landscape Boulevard) and Medians
- See Pavement Plan For Extents Of Concrete Pavement and Asphalt Pavement Sections.
- See Roadway Plan and Striping Plan for Painted Median In lieu of Curbed Median

TYPICAL SECTION NOTES

- P.G.L. ~ Profile Grade Line
- P.C.C.P. ~ Portland Cement Concrete Pavement
- H.M.A. ~ Hot Mix Asphalt
- A.B.C. ~ Aggregate Base Course



1st Street
Landscape Boulevard Section

In North Ave Storm Drain Pipe Shall have Pitrun or Class 3 up to Roadway Subgrade

N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\PUBLIC\TYPICAL\Typical cross sections.dwg, 8/31/2016 6:06:36 AM

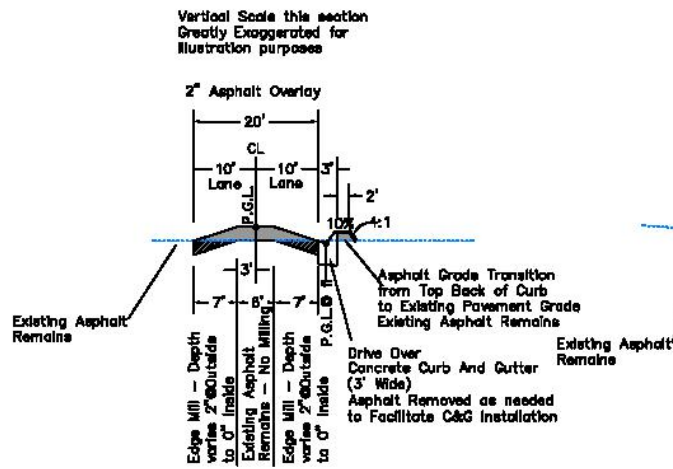
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REVISION B	2016	ASB	2016	ISSUE FOR PERMIT
REVISION C	2016	ASB	2016	ISSUE FOR PERMIT
REVISION D	2016	ASB	2016	ISSUE FOR PERMIT

DESIGNED BY	ASB	DATE	2016
CHECKED BY	ASB	DATE	2016
APPROVED BY	ASB	DATE	2016

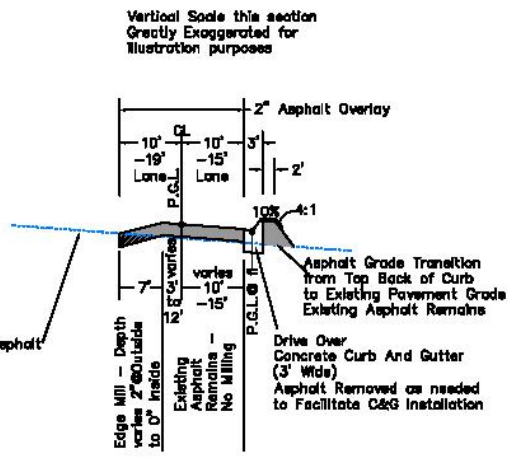


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

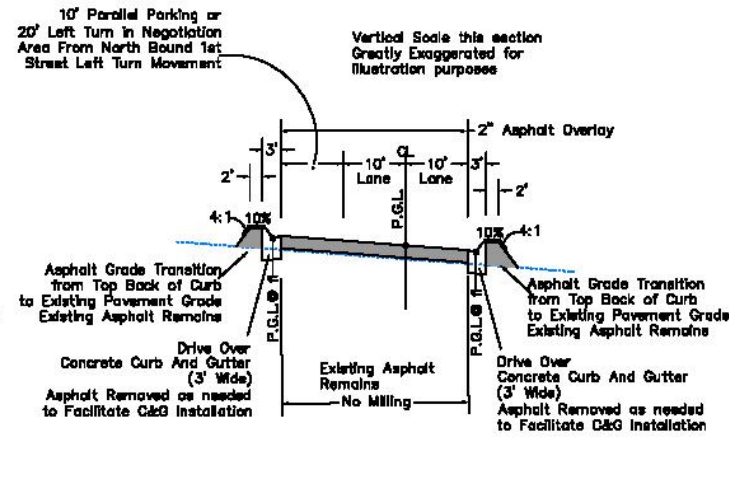
1ST STREET RECONSTRUCTION TYPICAL CROSS SECTIONS



Fuoco Driveway
CL Sta 0+00 to 1+00



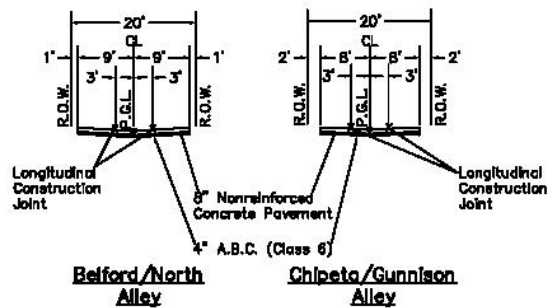
Fuoco Driveway
CL Sta 1+00 to 1+44



Fuoco Driveway
CL Sta 1+44 to 2+85

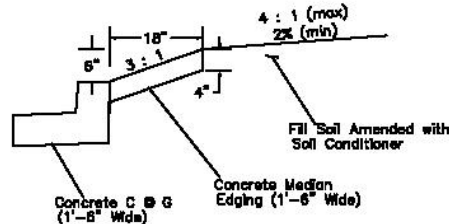
TYPICAL SECTION NOTES

- P.G.L. ≈ Profile Grade Line
- P.C.C.P. ≈ Portland Cement Concrete Pavement
- H.M.A. ≈ Hot Mix Asphalt
- A.B.C. ≈ Aggregate Base Course

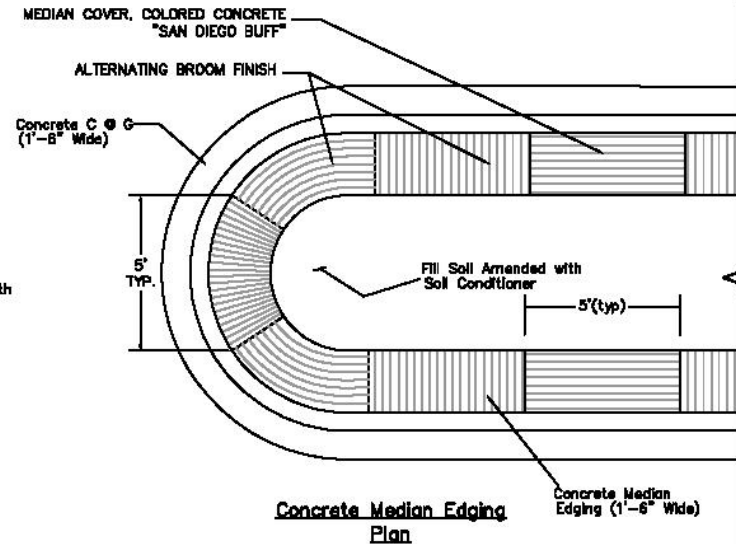


Belford/North Alley

Chipeta/Gunnison Alley



Concrete Median Edging Section



Concrete Median Edging Plan

N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\PUBLIC\TYPICAL\Typical cross sections.dwg, 9/21/2016 6:07:17 AM

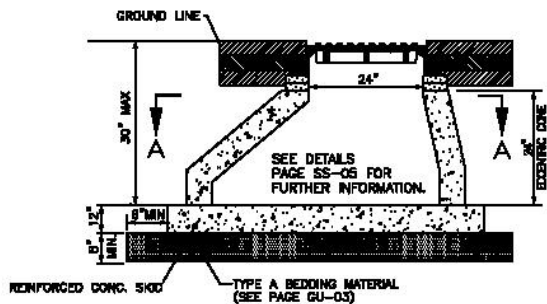
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REVISION C	2016
REVISION D	2016



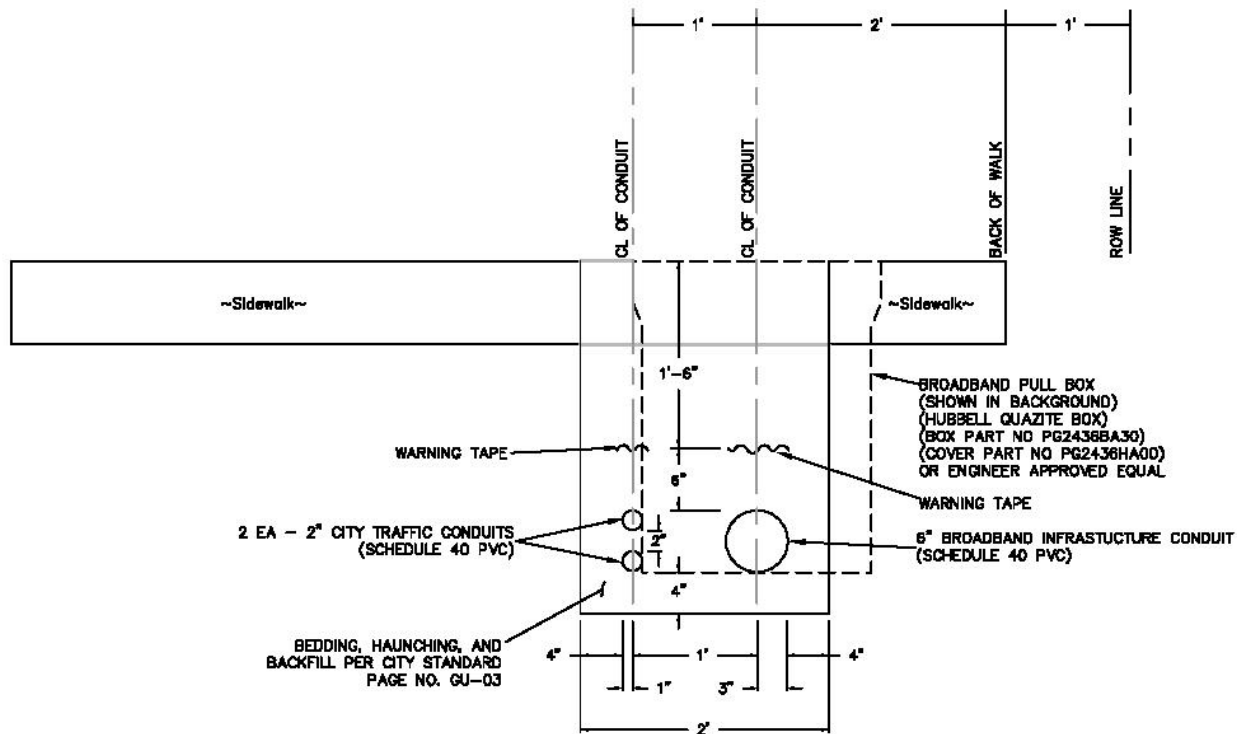
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION TYPICAL CROSS SECTIONS

N:\Landproj\2015 1st Street Reconstruction (F1501)\DWG\UTIL\UTILITY PLAN.dwg, 8/12/2016 7:22:57 AM



CITY TRAFFIC MANHOLE



TYPICAL CONDUIT JOINT TRENCH DETAIL

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REVISION A	2016	AKS	AKS
REVISION B	2016	AKS	AKS
REVISION C	2016	AKS	AKS
REVISION D	2016	AKS	AKS

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 DESIGNED BY: **AKS** DATE: 2016
 CHECKED BY: **AKS** DATE: 2016
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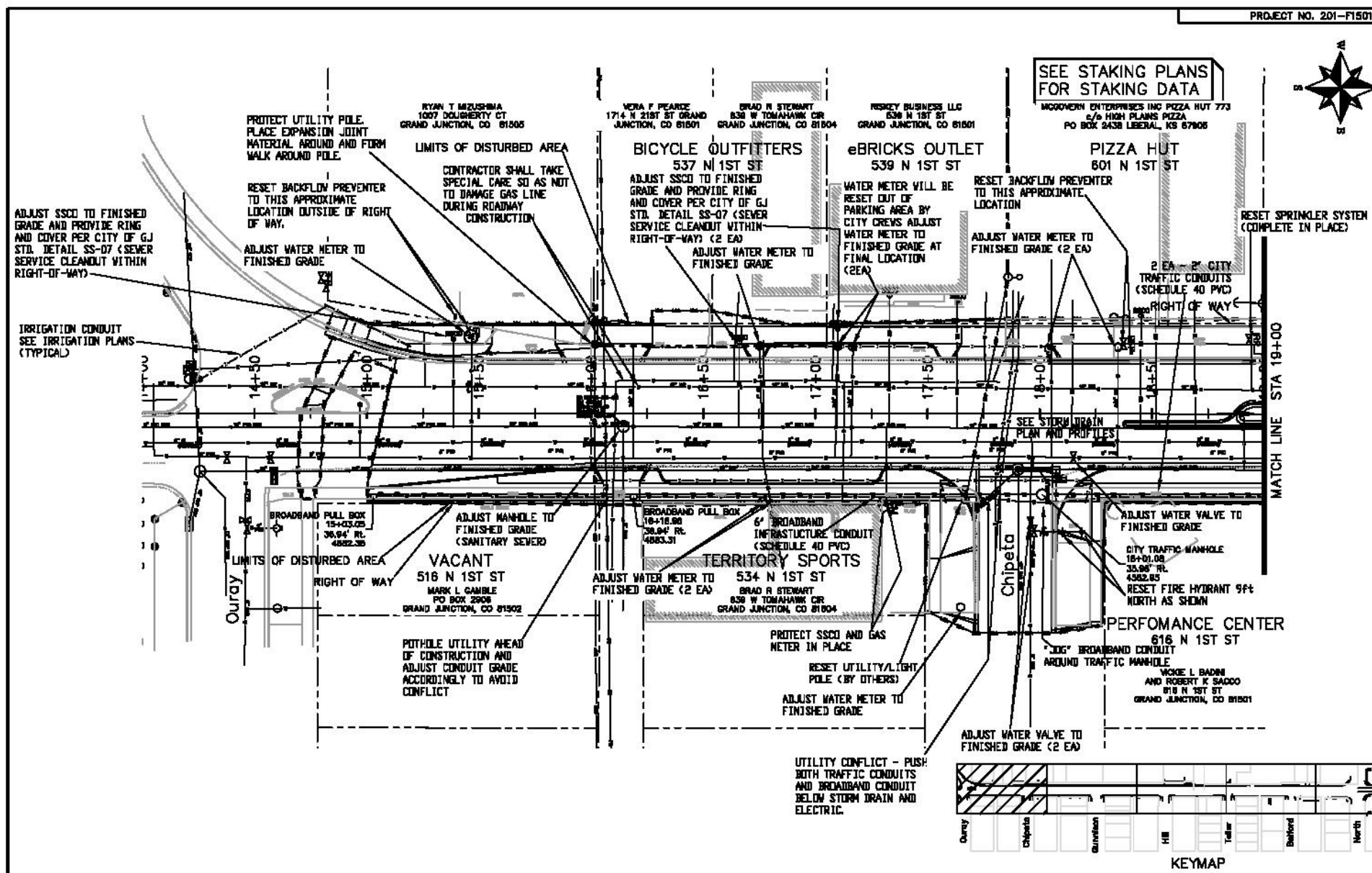
CITY OF
Grand Junction
 COLORADO

PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
UTILITY DETAILS



SEE STAKING PLANS FOR STAKING DATA



REVISION	DATE	DESCRIPTION	DRAWN BY	DATE	CHECKED BY	DATE
REVISION A	2018		ASB	2018	ASB	2018
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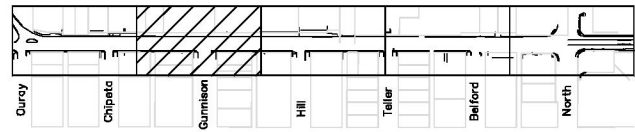
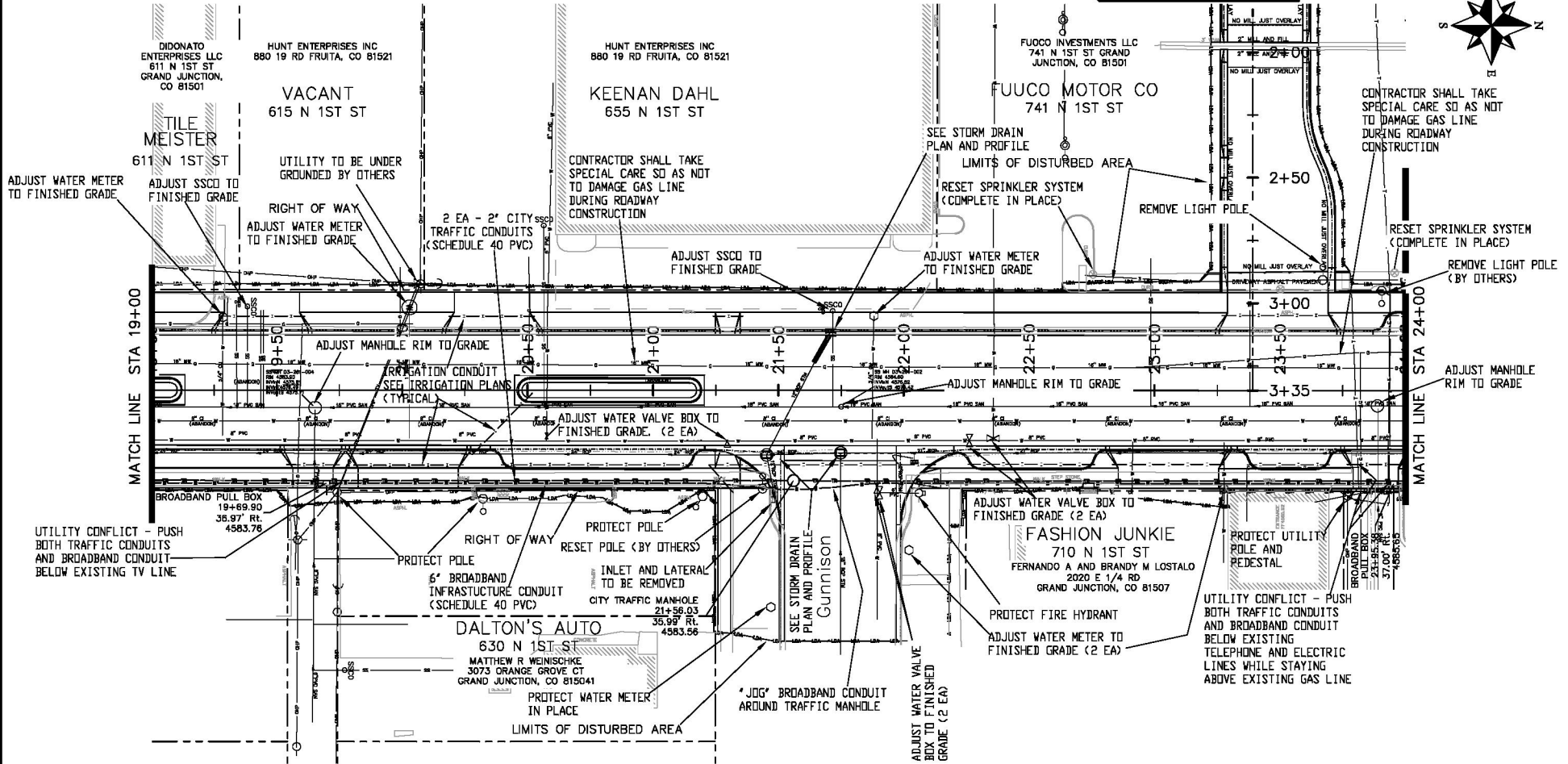


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION UTILITY PLAN STA 14+00 TO STA 19+00

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SEE STAKING PLANS
FOR STAKING DATA



KEYMAP

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REVISION B XXX		201X
REVISION C XXX		201X
REVISION D XXX		201X

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DESIGNED BY	JCS/JLV	DATE	2016
CHECKED BY	SBG	DATE	2016
APPROVED BY	TCF	DATE	2016



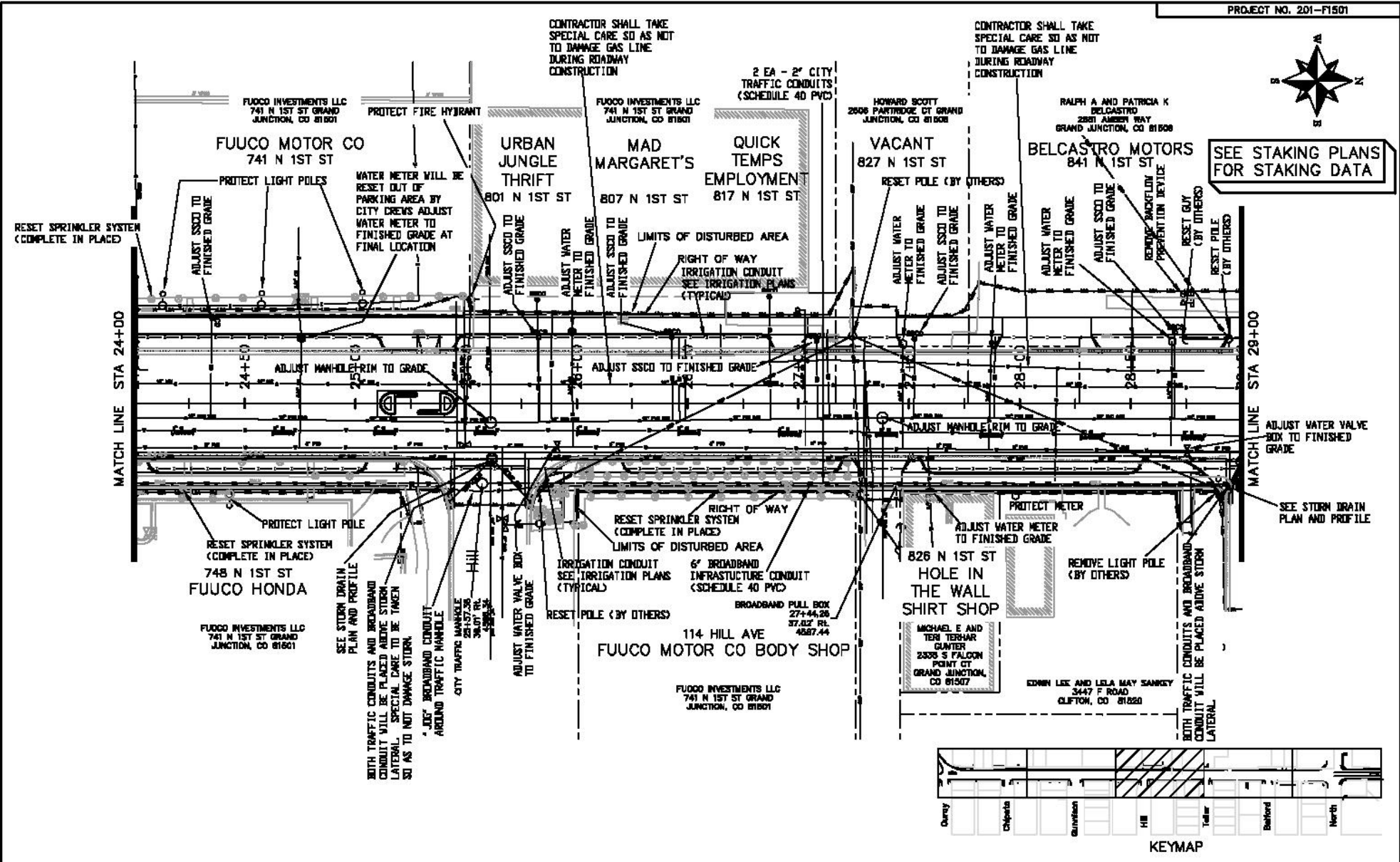
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
UTILITY PLAN
STA 19-00 TO STA 24+00**

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SEE STAKING PLANS FOR STAKING DATA



REVISION	DATE	DESCRIPTION	BY	DATE
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REVISION B	2018			
REVISION C	2018			
REVISION D	2018			

CITY OF Grand Junction COLORADO

PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION UTILITY PLAN STA 24+00 TO STA 29+00

N:\Landproj\2018 1st Street Reconstruction (F1501)\DWG\MULTI-CAD\UTILITY PLAN.dwg (3), 12/27/2018 11:44:40 AM



RALPH A AND PATRICIA K
BELCASTRO
2891 AMBER WAY
GRAND JUNCTION, CO 81506
BELCASTRO MOTORS
841 N 1ST ST

LARRY J BADIN
2215 PLAZZA WAY
GRAND JUNCTION, CO 81506
VACANT
901 N 1ST ST

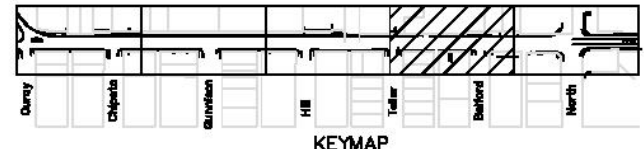
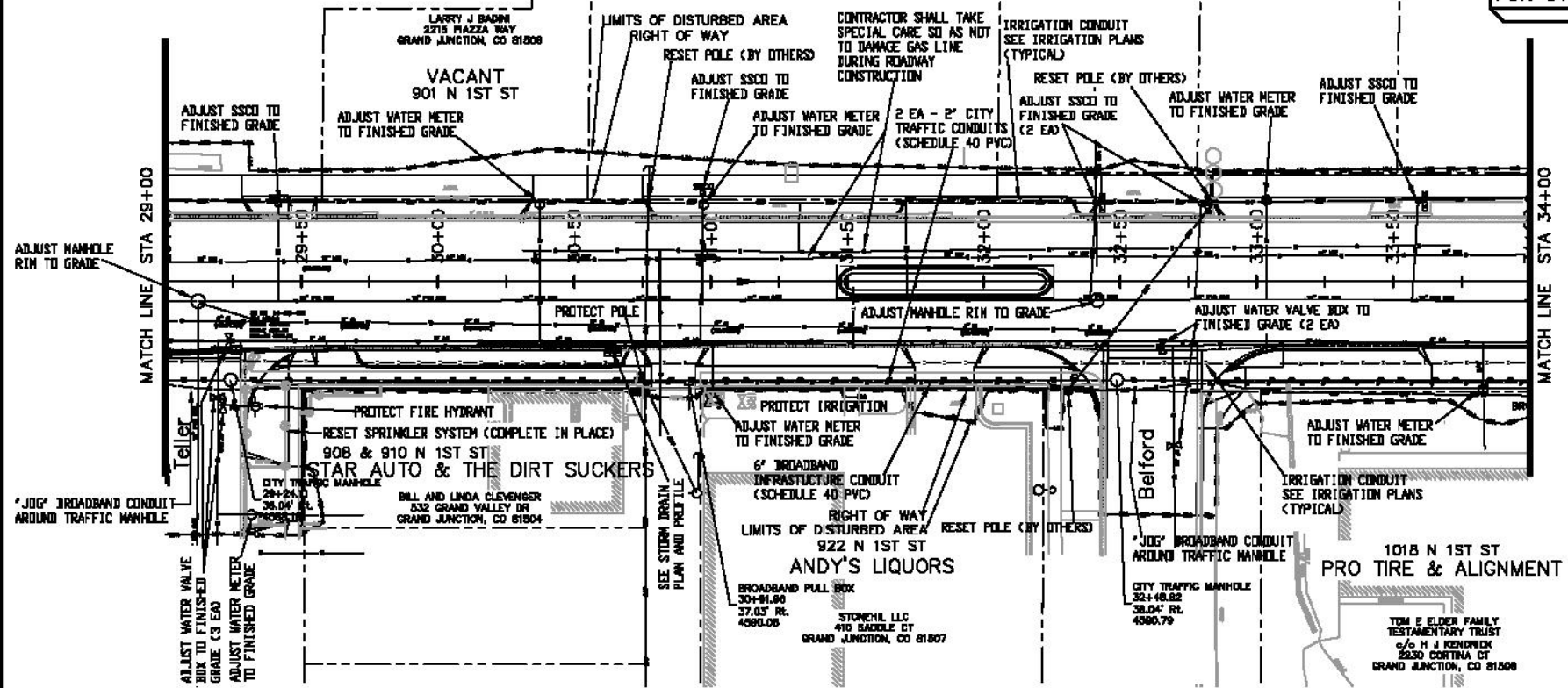
BERTRAND & COMPANY
798 25 RD GRAND JUNCTION,
CO 81505

BERTRAND & COMPANY
798 25 RD GRAND JUNCTION,
CO 81505

BERTRAND & COMPANY
798 25 RD GRAND JUNCTION,
CO 81505

INTER MOUNTAIN AUTO SALES
835 N 1ST ST

SEE STAKING PLANS
FOR STAKING DATA



REVISION	DATE	DESCRIPTION	BY	DATE	APPROVED
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REVISION D	2018				

CITY OF
Grand Junction
COLORADO

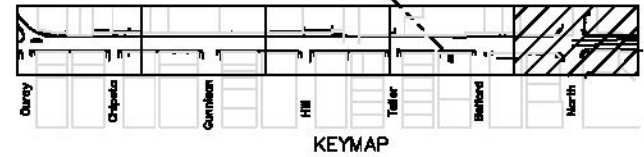
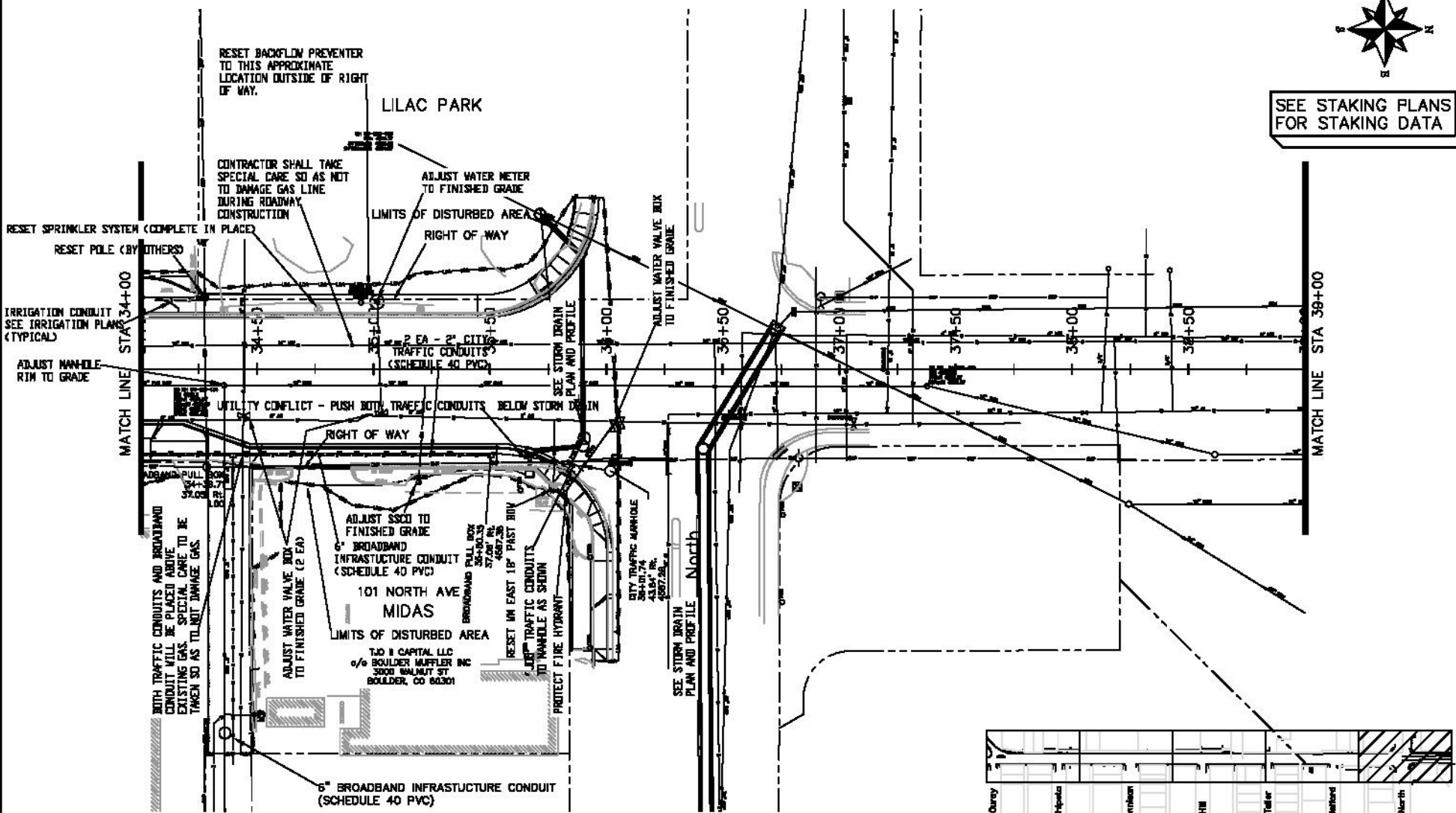
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
UTILITY PLAN
STA 29+00 TO STA 34+00**

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SEE STAKING PLANS FOR STAKING DATA



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CITY OF
Grand Junction
 COLORADO

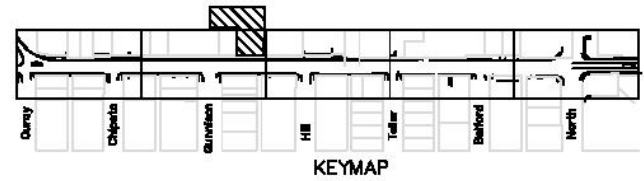
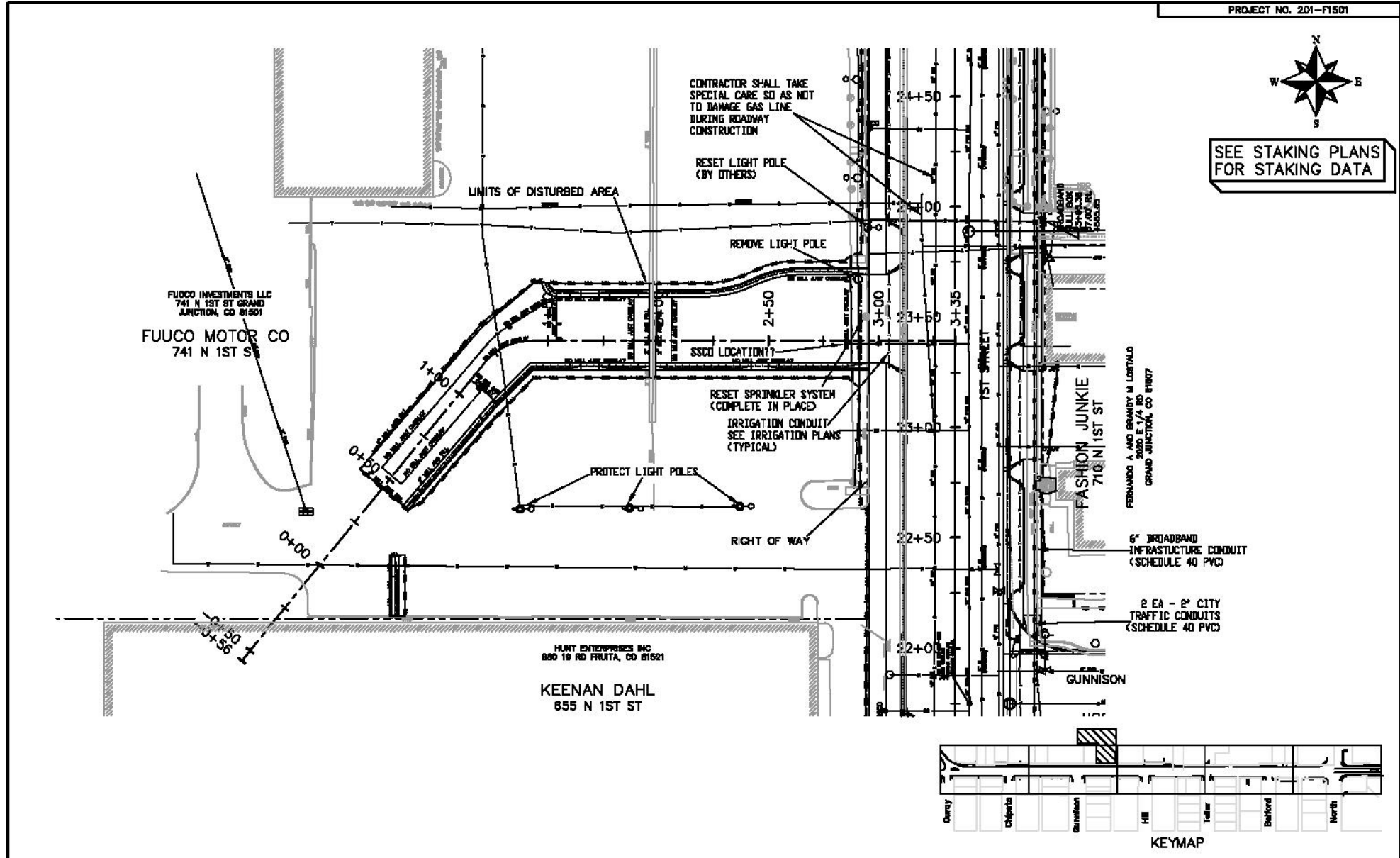
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION UTILITY PLAN
 STA 34+00 TO STA 39+00

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SEE STAKING PLANS FOR STAKING DATA



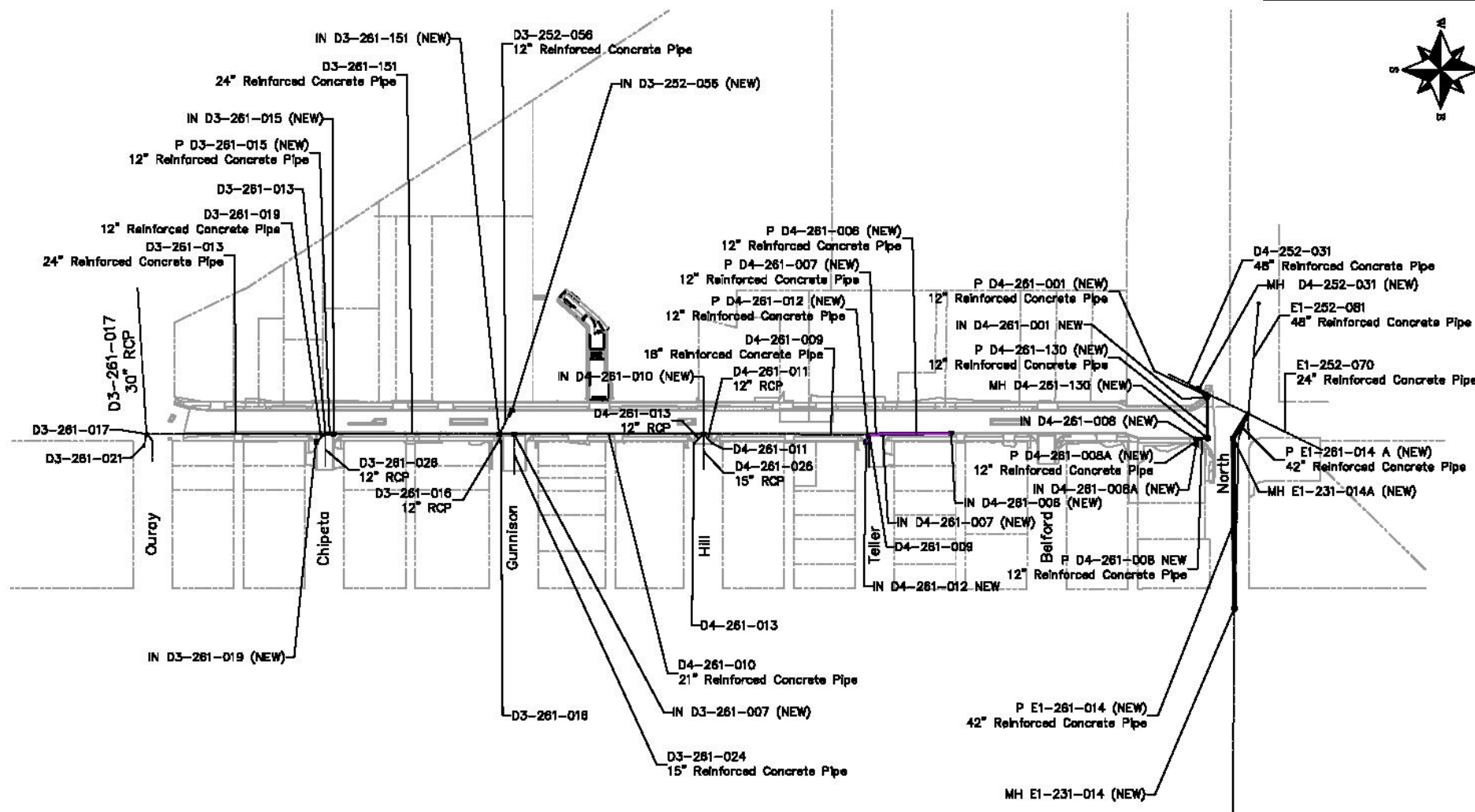
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REVISION D	SEE	2018	ASB	2018	ASB
REVISION E	SEE	2018	ASB	2018	ASB



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

**1ST STREET RECONSTRUCTION UTILITY PLAN
FUOCO CADILLAC**

N:\Landing\2018 1st Street Reconstruction (F1501)\DWG\PUBLICATION\UTILITY PLAN.dwg, (6), 12/27/2018 11:09:17 AM



N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\DESIGN\STORM DRAIN VICINITY MAP.dwg, Layout1, 12/15/2016 5:05:34 PM

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REVISION C	2016		ASB	2016	
REVISION D	2016		ASB	2016	



**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
STORM DRAIN
VICINITY MAP**

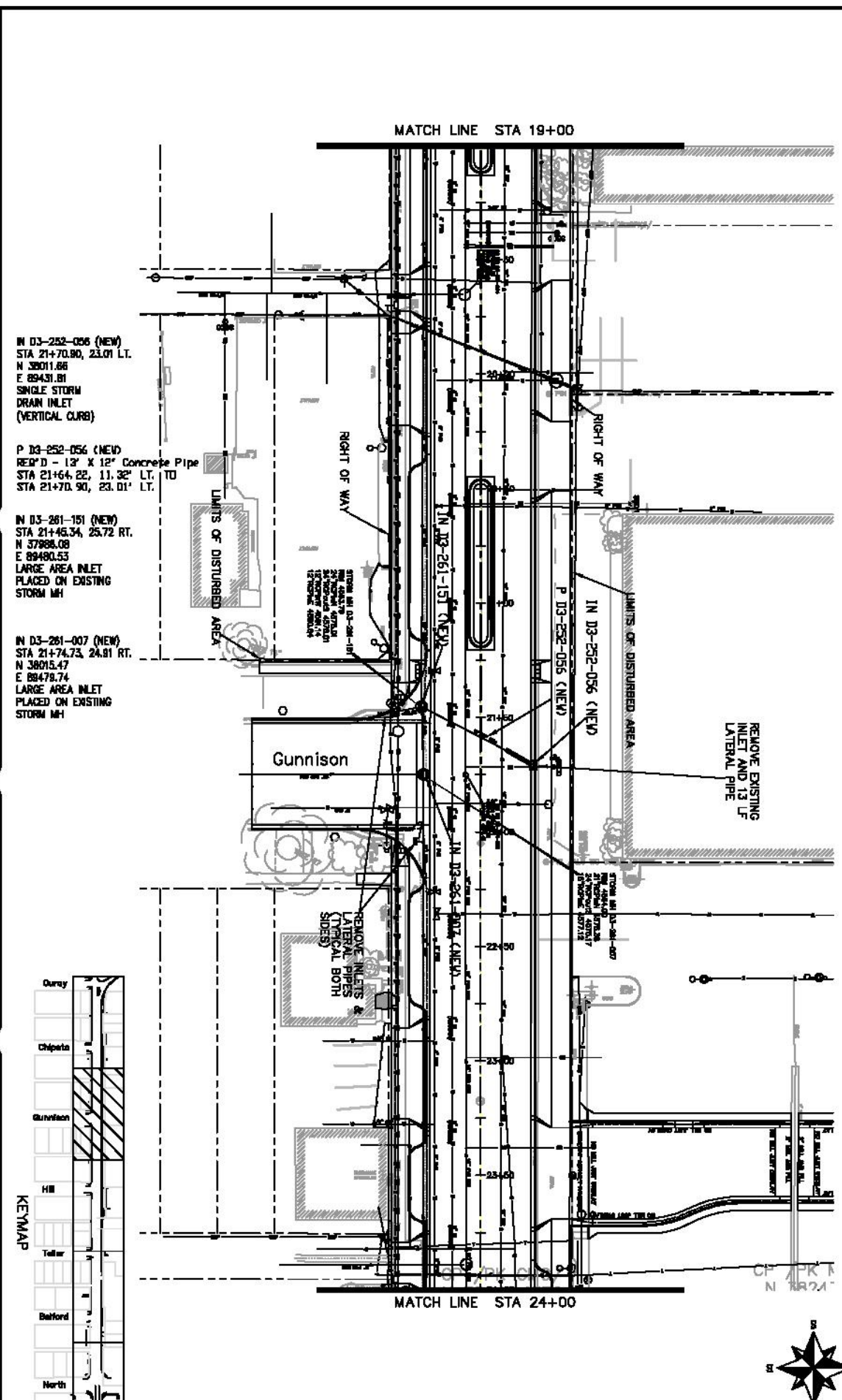
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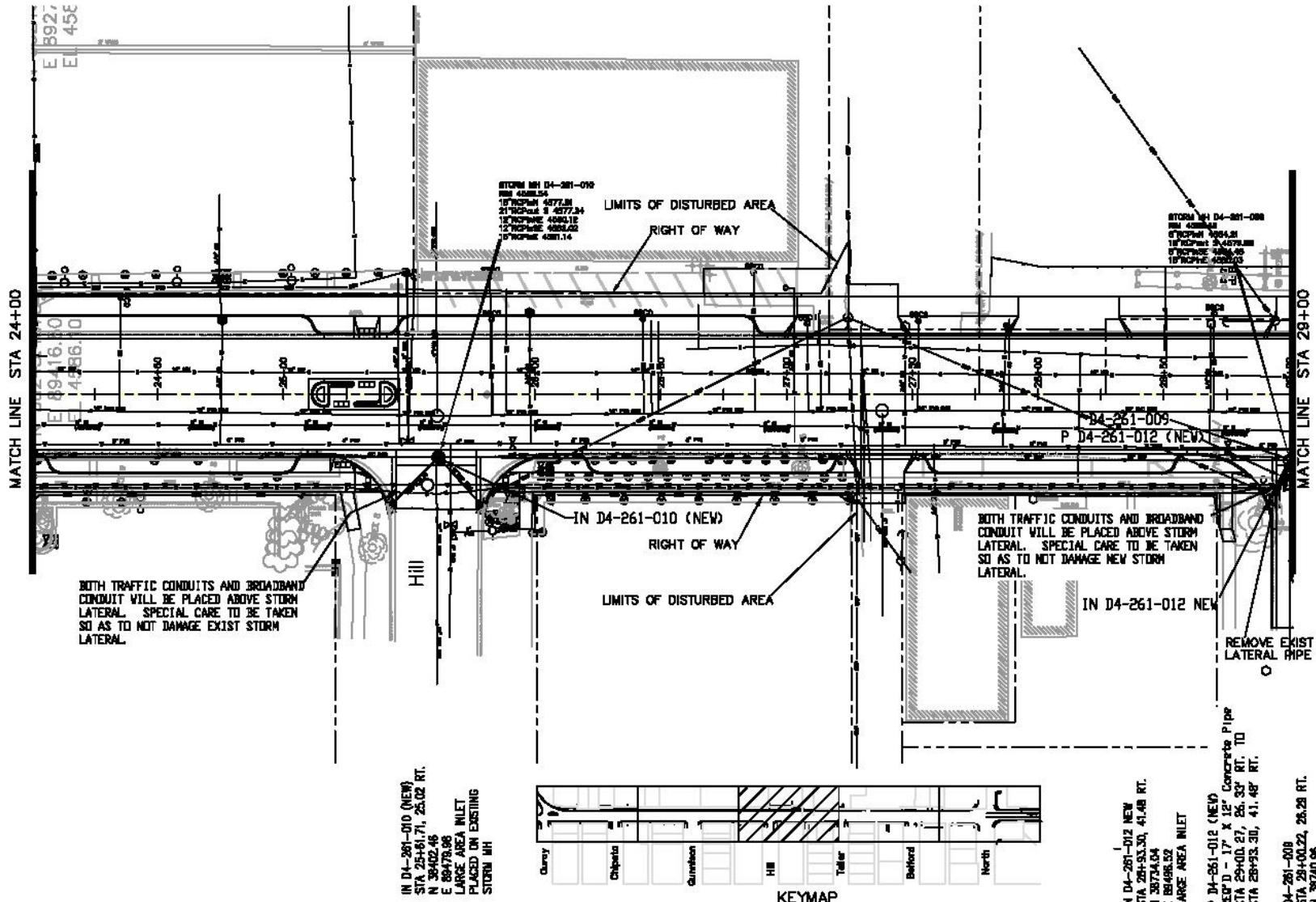
Grand Junction
CITY OF GRAND JUNCTION
COLORADO

PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
STORM DRAIN PLAN
STA 19+00 TO STA 24+00



PROJECT NO. 201-F1501



BOTH TRAFFIC CONDUITS AND BROADBAND CONDUIT WILL BE PLACED ABOVE STORM LATERAL. SPECIAL CARE TO BE TAKEN SO AS TO NOT DAMAGE EXIST STORM LATERAL.

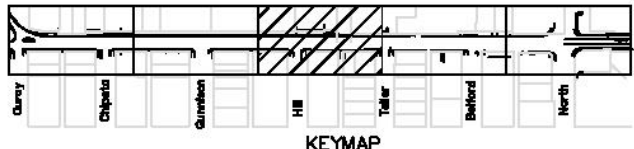
BOTH TRAFFIC CONDUITS AND BROADBAND CONDUIT WILL BE PLACED ABOVE STORM LATERAL. SPECIAL CARE TO BE TAKEN SO AS TO NOT DAMAGE NEW STORM LATERAL.

REMOVE EXIST INLET & LATERAL PIPE

IN D4-261-010 (NEW)
STA. 28+61.71, 28.02 RT.
N 38402.48
E 86470.08
LARGE AREA INLET
PLACED ON EXISTING
STORM MH

IN D4-261-012 NEW
STA 29+00.27, 28.28 RT.
N 38743.04
E 88488.52
LARGE AREA INLET
P D4-261-012 (NEW)
REC'D - 17' x 12' Concrete Pipe
STA 29+00.27, 28.33 RT. TO
STA 29+93.30, 41.48 RT.

D4-261-009
STA 28+00.22, 28.28 RT.
N 38740.08
E 88481.54
STORM MH
ADJUST MH RM TO FINISHED GRADE
REPLACE RING AND COVER WITH
CASTINGS MH2520CIPPI INVERTED RING A
COVER WITH D-RING GASKET OR
ENGINEER APPROVED EQUAL TO
PROVIDE A WATER TIGHT SEAL
CORE AND CONNECT NEW
12" PIPE NORTH AND SOUTH EAST



REVISION	DATE	DESCRIPTION	BY	DATE	APPROVED
REVISION A 201	2018				
REVISION A 202	2018				
REVISION A 203	2018				
REVISION A 204	2018				

DRAWN BY: AS DATE: 2018
 CHECKED BY: AS DATE: 2018
 APPROVED BY: TC DATE: 2018



**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
STORM DRAIN PLAN
STA 24+00 TO STA 29+00**

N:\Landing\2018 1st Street Reconstruction (F1501)\DWG\DESIGN\STORM DRAIN PLAN AND PROFILE.dwg, PLAN 003, 12/05/2016 8:19:30 AM

DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE



CITY OF Grand Junction
COLORADO

PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION STORM DRAIN PLAN
STA 29+00 TO STA 34+00

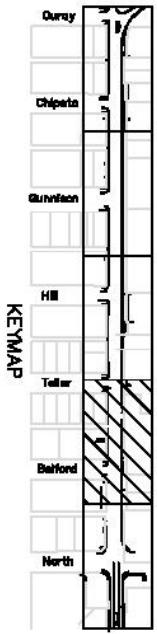
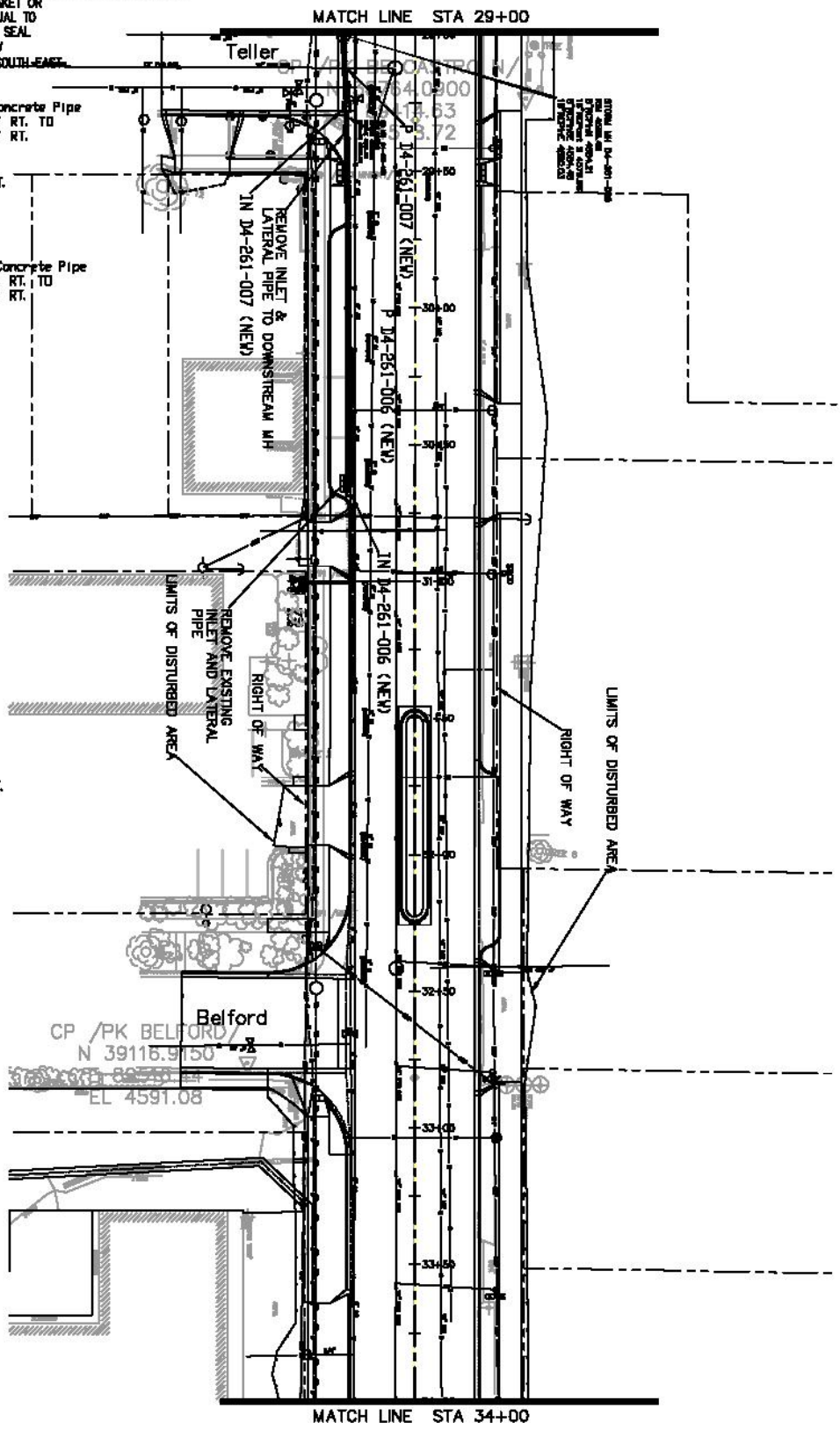
D4-261-008
STA 29+00.22, 26.29 RT.
N 38740.96
E 88481.34
STORM MH
ADJUST MH RIM TO FINISHED GRADE
REPLACE RING AND COVER WITH CASTINGS MH25024CIPFB INVERTED RING AND BOLT DOWN COVER WITH O-RING GASKET OR ENGINEER APPROVED EQUAL TO PROVIDE A WATER TIGHT SEAL CORE AND CONNECT NEW 12" PIPE NORTH AND SOUTH-EAST.

P D4-261-007 (NEW)
REQ'D - 26' X 12" Concrete Pipe
STA 29+00.23, 26.32' RT. TO STA 29+26.48, 25.02' RT.

IN D4-261-007 (NEW)
STA 29+26.48, 25.02 RT.
N 36787.22
E 88480.08
LARGE AREA INLET

P D4-261-006 (NEW)
REQ'D - 140' X 12" Concrete Pipe
STA 29+26.48, 25.02' RT. TO STA 30+66.92, 23.53' RT.

IN D4-261-006 (NEW)
STA 30+66.92, 23.53 RT.
N 38907.66
E 88478.63
LARGE AREA INLET



PROJECT NO. 201-F1501



LEGEND

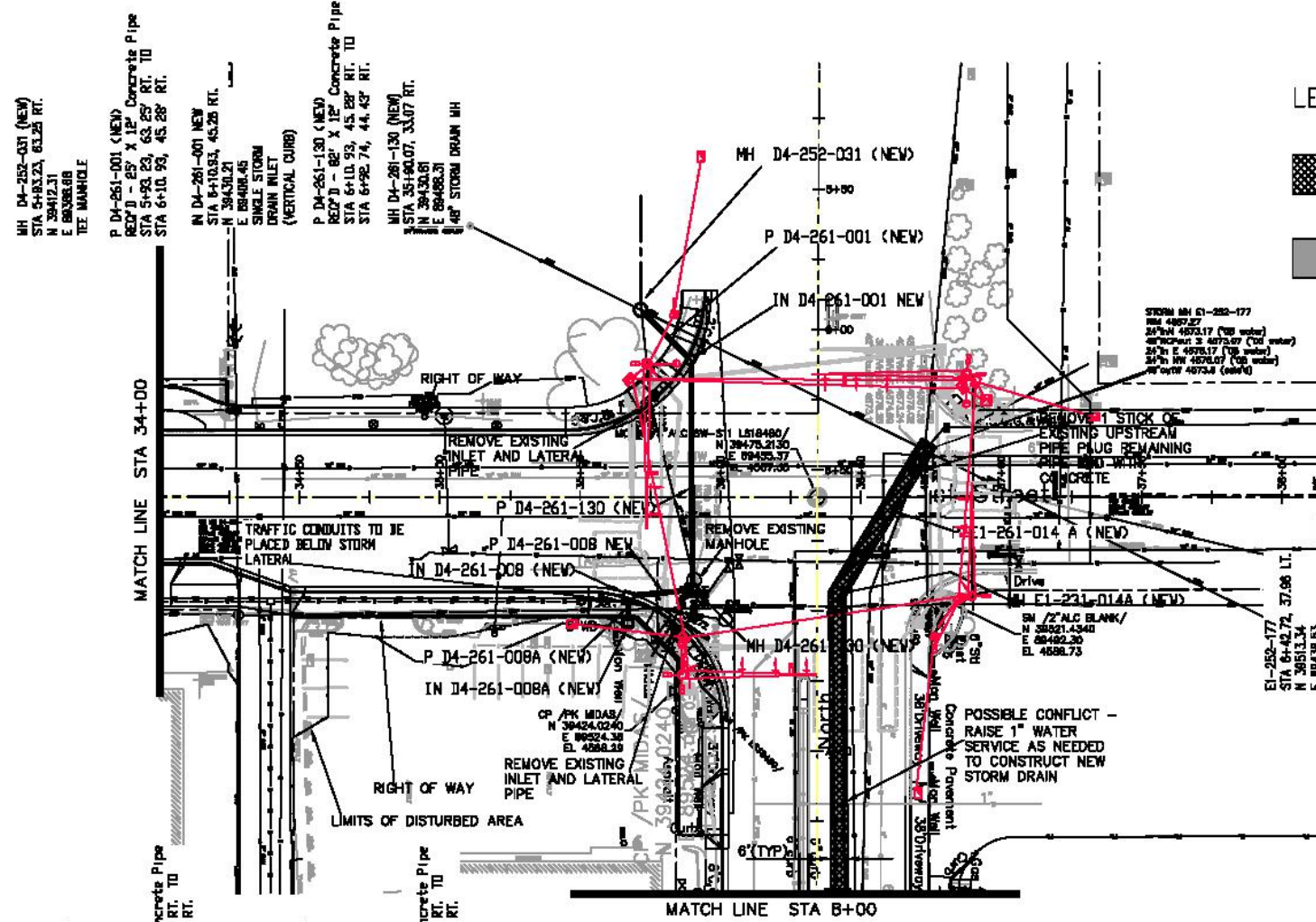


REMOVAL OF ASPHALT MAT, CUT AND REMOVE ASPHALT AS SHOWN IN NORTH AVENUE



ASPHALT PAVEMENT PATCH IN NORTH AVENUE (SEE TYPICAL SECTIONS)

IN NORTH AVENUE STORM DRAIN PIPE SHALL HAVE STRUCTURAL BACKFILL (FLOWFILL) UP TO THE ROADWAY SUBGRADE



MH D4-252-031 (NEW)
STA 5+83.23, 63.26 RT.
N 39412.31
E 89388.88
TEE MANHOLE

P D4-261-001 (NEW)
REC'D J - 60" X 12" Concrete Pipe
STA 5+92.23, 63.26 RT. TO
STA 6+10.93, 43.28 RT.

IN D4-261-001 NEW
STA 6+10.93, 43.26 RT.
N 39430.21
E 89408.45
SINGLE STORM DRAIN INLET (VERTICAL CURB)

P D4-261-130 (NEW)
REC'D J - 60" X 12" Concrete Pipe
STA 6+10.93, 43.26 RT. TO
STA 6+92.74, 44.43 RT.

MH D4-261-130 (NEW)
STA 35+90.07, 33.07 RT.
N 39430.81
E 89488.31
48" STORM DRAIN MH

STORM MH EI-252-177
HW 487.57
25%N 4673.17 (70 water)
48" CONCRETE 3 4673.07 (70 water)
25% E 4673.17 (70 water)
25% HW 4673.07 (70 water)
W'WV 4673.8 (68%)

REMOVE EXISTING INLET AND LATERAL PIPE
REMOVE EXISTING MANHOLE
REMOVE EXISTING INLET AND LATERAL PIPE

TRAFFIC CONDUITS TO BE PLACED BELOW STORM LATERAL

POSSIBLE CONFLICT - RAISE 1" WATER SERVICE AS NEEDED TO CONSTRUCT NEW STORM DRAIN

CONCRETE
SM 7" ALC BLANK/
S 3821.4340
N 39513.34
E 89488.31
EL 4888.73

DRIVE
MH EI-231-014A (NEW)
SM 7" ALC BLANK/
S 3821.4340
N 39513.34
E 89488.31
EL 4888.73

EI-252-177
STA 6+42.72, 37.98 LT.
N 39513.34
E 89488.31
EX STW MH
CONNECT NEW PIPE TO MANHOLE

P EI-261-014 A (NEW)
REC'D J - 60" X 12" Concrete Pipe
STA 6+42.68, 37.96 LT. TO
STA 6+93.76, 7.12 LT.

MH EI-231-014A (NEW)
STA 14+31.76, 7.12 LT.
N 39483.39
E 89488.46
TEE MANHOLE

P EI-261-014 (NEW)
REC'D J - 60" X 12" Concrete Pipe
STA 10+39.51, 10.89 LT.

IN D4-261-008A (NEW)
STA 35+166.98, 44.95 RT.
N 39407.72
E 89300.18
LARGE AREA INLET

P D4-261-008A (NEW)
REC'D J - 10" X 12" Concrete Pipe
STA 35+167.26, 33.22 RT. TO
STA 35+166.99, 44.95 RT.

IN D4-261-008 (NEW)
STA 35+167.26, 33.22 RT.
N 39408.00
E 89488.45
SINGLE STORM DRAIN INLET (VERTICAL CURB)

P D4-261-008 (NEW)
REC'D J - 24" X 12" Concrete Pipe
STA 35+167.07, 33.07 RT. TO
STA 35+167.26, 33.22 RT.

MH D4-261-130 (NEW)
STA 35+167.07, 33.07 RT.
N 39430.81
E 89488.31
48" STORM DRAIN MH

CP /PK MIDWAY SIGNAL US
N 39424.0240
E 89224.38
EL 4888.38

CONCRETE
SM 7" ALC BLANK/
S 3821.4340
N 39513.34
E 89488.31
EL 4888.73

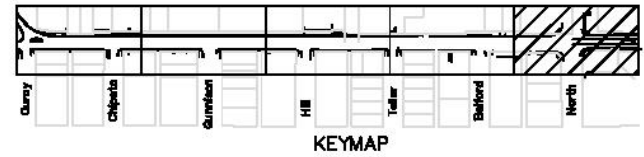
DRIVE
MH EI-231-014A (NEW)
SM 7" ALC BLANK/
S 3821.4340
N 39513.34
E 89488.31
EL 4888.73

EI-252-177
STA 6+42.72, 37.98 LT.
N 39513.34
E 89488.31
EX STW MH
CONNECT NEW PIPE TO MANHOLE

P EI-261-014 A (NEW)
REC'D J - 60" X 12" Concrete Pipe
STA 6+42.68, 37.96 LT. TO
STA 6+93.76, 7.12 LT.

MH EI-231-014A (NEW)
STA 14+31.76, 7.12 LT.
N 39483.39
E 89488.46
TEE MANHOLE

P EI-261-014 (NEW)
REC'D J - 60" X 12" Concrete Pipe
STA 10+39.51, 10.89 LT.





REVISION	DATE	DESCRIPTION	BY	DATE	APPROVED
REVISION 1	2016				
REVISION 2	2016				
REVISION 3	2016				
REVISION 4	2016				

CITY OF Grand Junction COLORADO

PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION STORM DRAIN PLAN STA 34+00 TO STA 39+00

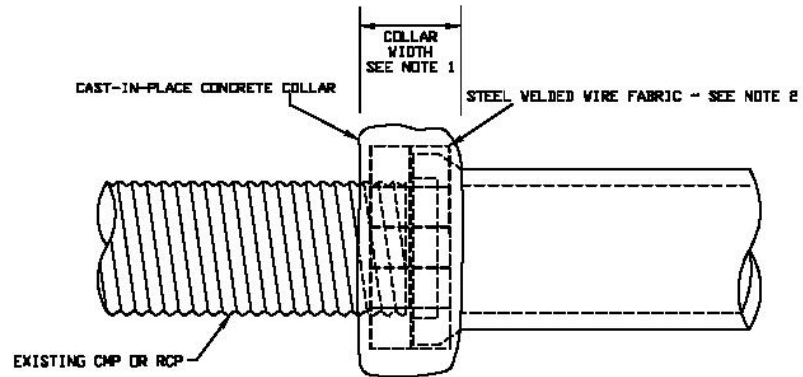
LEGEND

-  REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN IN NORTH AVENUE
-  ASPHALT PAVEMENT PATCH IN NORTH AVENUE (SEE TYPICAL SECTIONS)

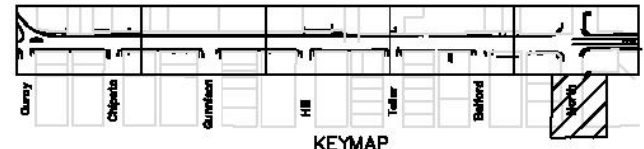
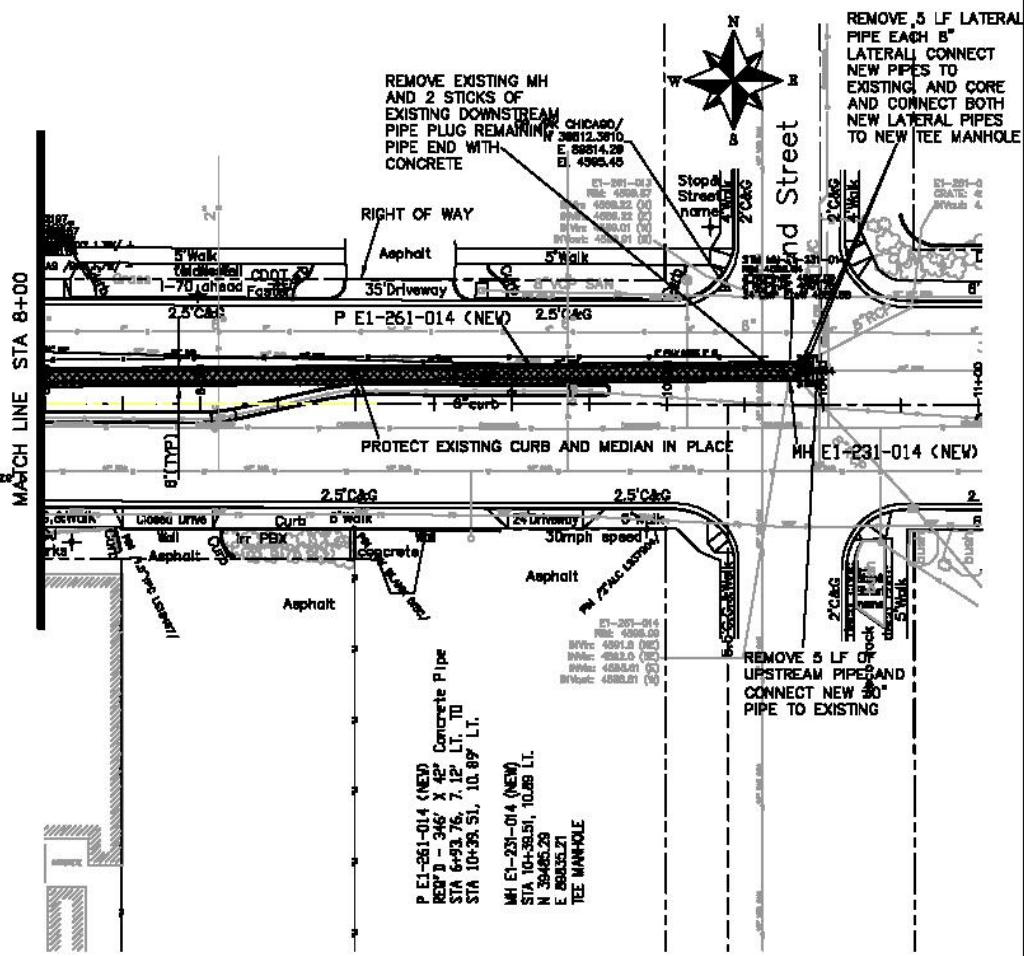
IN NORTH AVENUE STORM DRAIN PIPE SHALL HAVE STRUCTURAL BACKFILL (FLOWFILL) UP TO THE ROADWAY SUBGRADE

NOTES:

1. The Concrete Collar width shall be one half of the outside pipe diameter of the largest pipe. The minimum Concrete Collar width shall be 12". Concrete Collars may be used with all pipe materials and diameters. The Concrete Collar shall only be used to make pipe connections as specified on the plans.
2. Steel Welded Wire Fabric shall be in accordance with CDOT Standard Specification 602. Install two wraps for size 6 x 6 x W.14 (10 Gage) Steel Welded Wire Fabric or one wrap for any of the following sizes:
 - 6 x 6 x W.14 (8 Gage)
 - 6 x 6 x W.9 (6 Gage)
 - 4 x 4 x W.9 (8 Gage)
 - 4 x 4 x W.4 (4 Gage)
3. Concrete collars will not be paid for separately, but shall be included in the cost of the pipe installation.



CONCRETE COLLAR
(TYPICAL PIPE TO PIPE CONNECTION)



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REVISION B	2016	CHECKED BY	DATE 2016	
REVISION C	2016	APPROVED BY	DATE 2016	

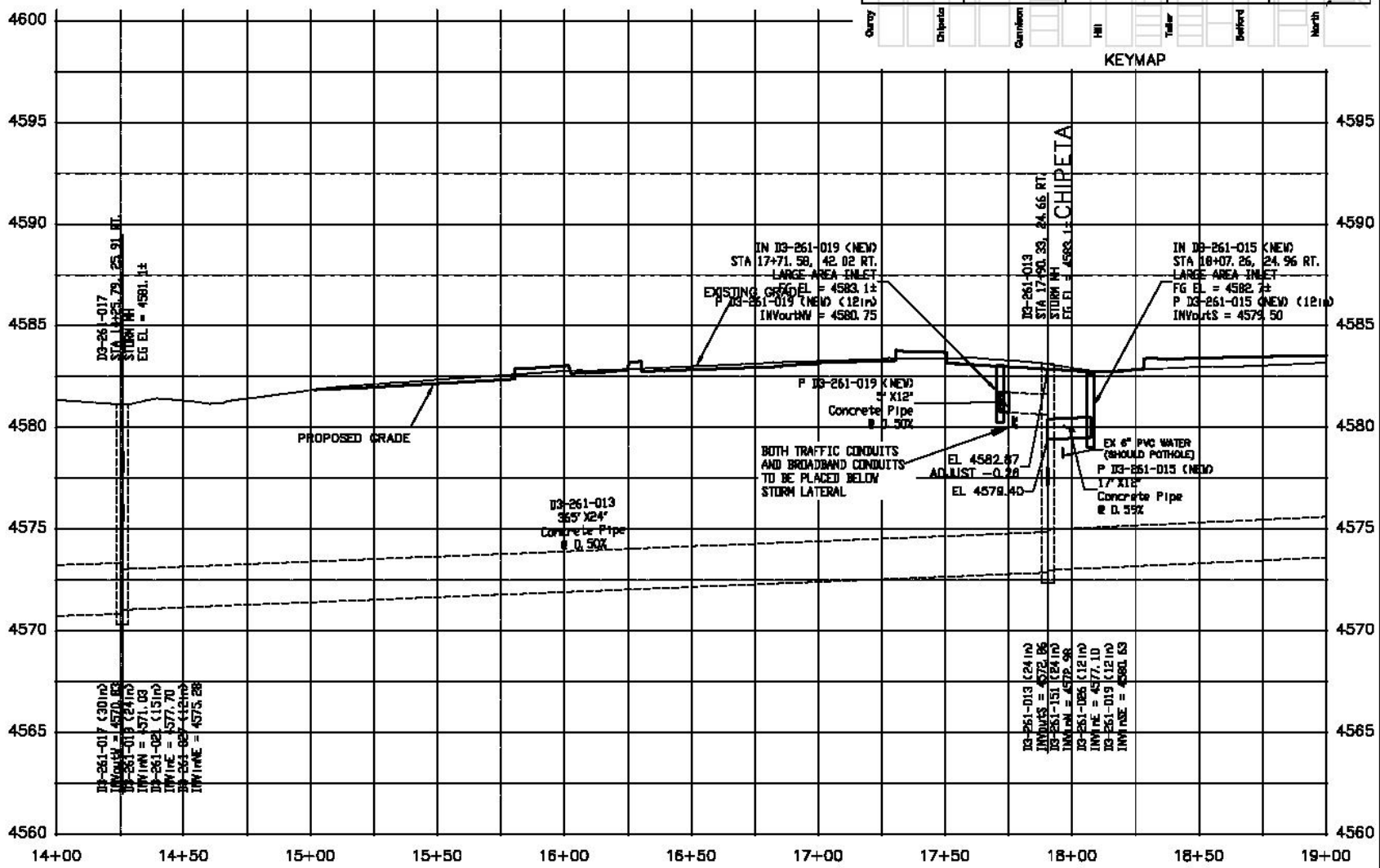


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ENGINEERING DIVISION**

**NORTH AVENUE STORM DRAIN
STORM DRAIN PLAN
STA B+00 TO 11+00**

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PROJECT NO. 201-F1501



PROFILE VIEW: EX STORM MAIN IN 1ST STREET (1) from 14+00.00 to 19+00.00

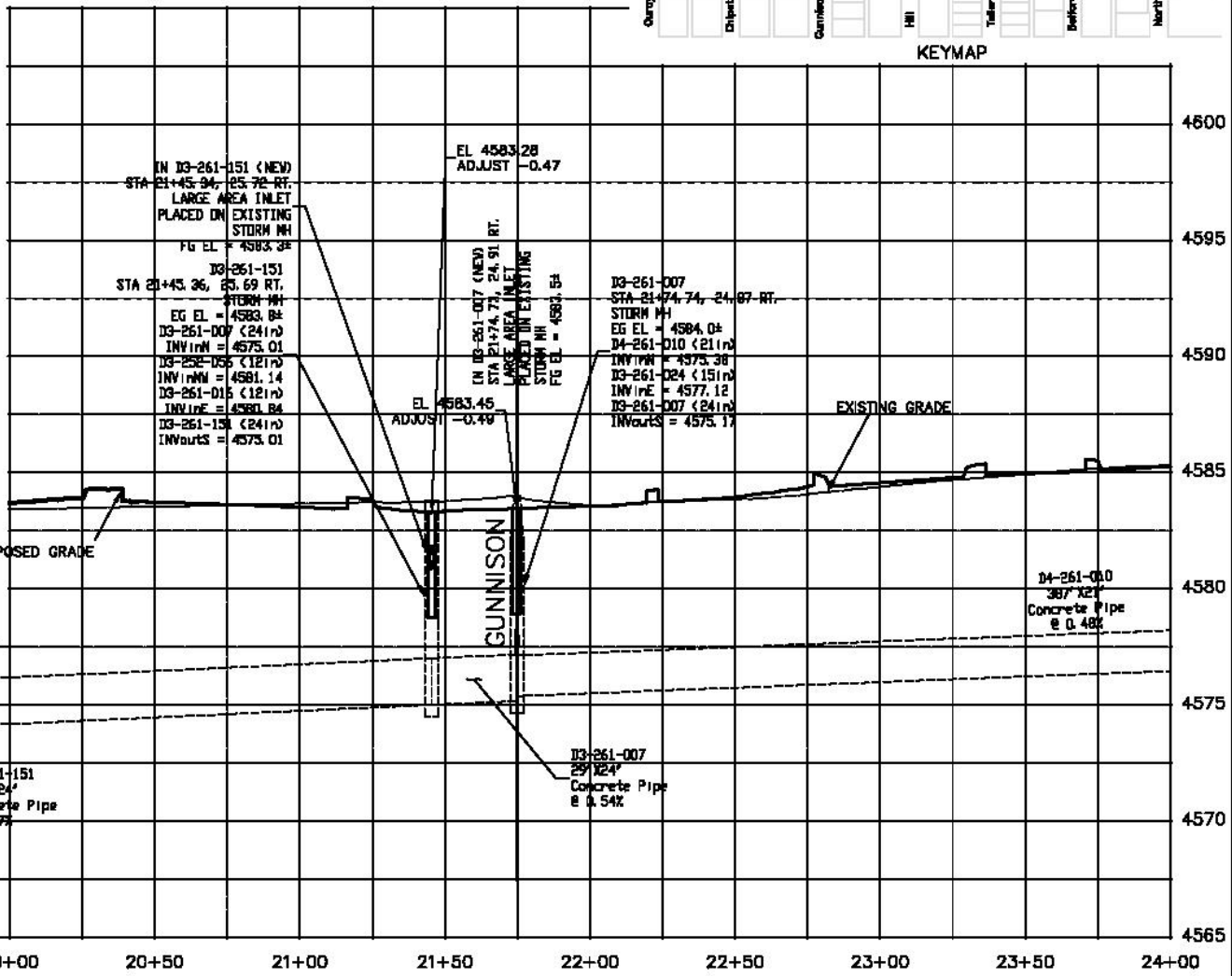
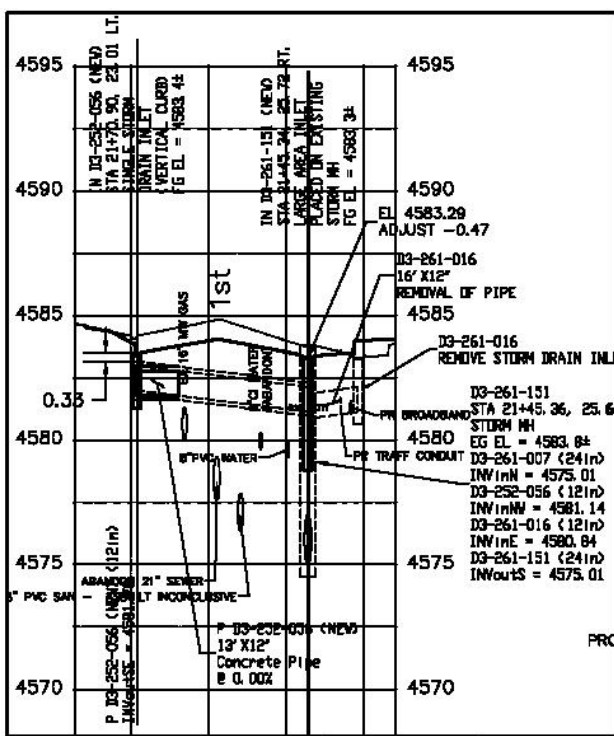
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REVISION B	2016		JOB	2016
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REVISION D	2016		JOB	2016

SCALE	DATE
1" = 10'	2016



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ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
STORM DRAIN PROFILE
STA 14+00 TO STA 19+00



PROFILE VIEW: EX STORM MAIN IN 1ST STREET (2) from 19+00.00 to 24+00.00

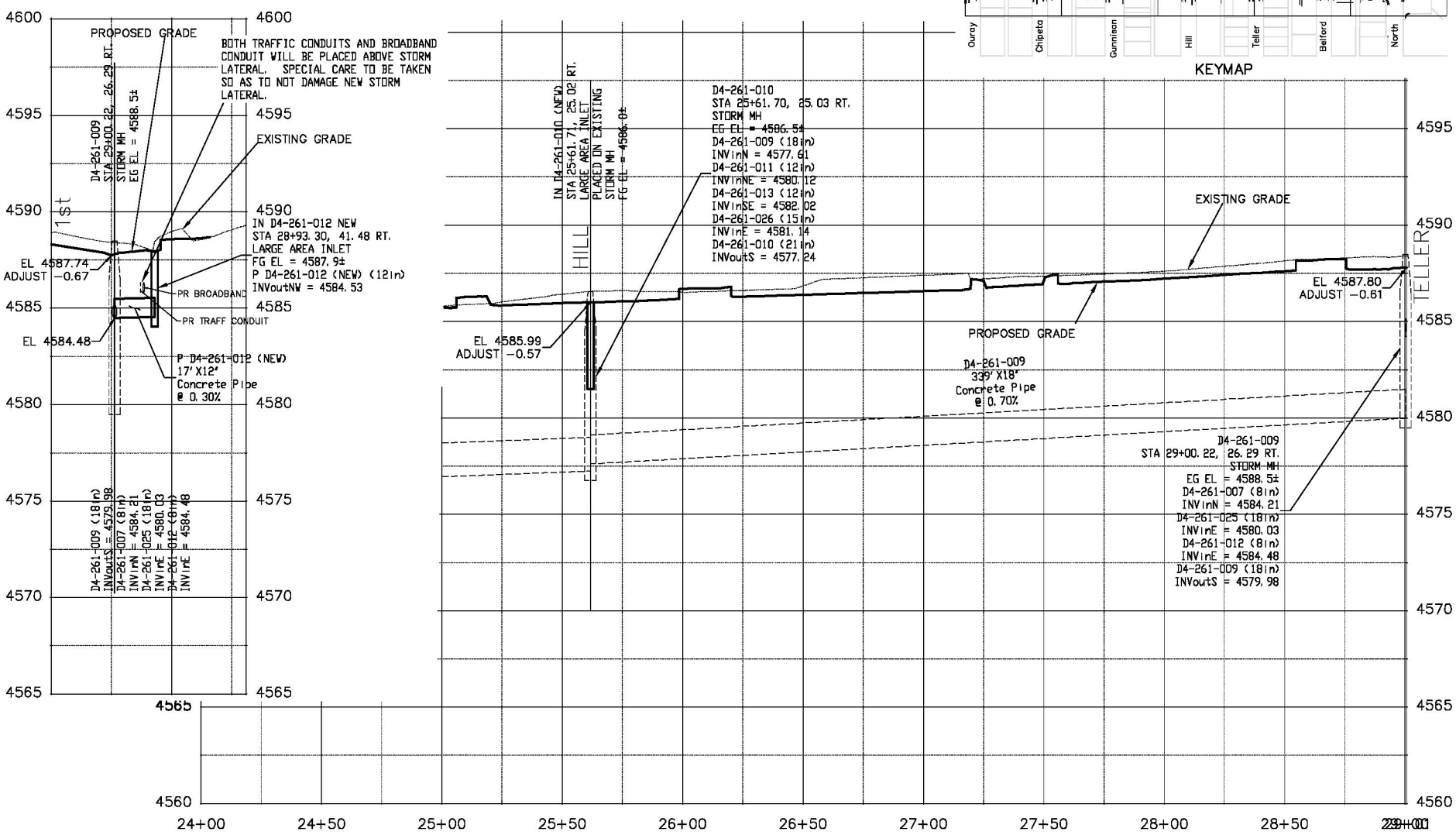
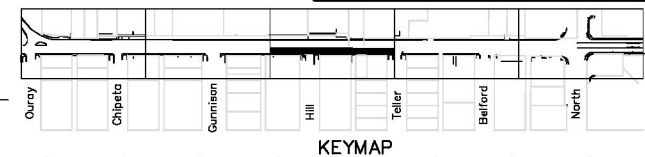
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REVISION B	2019	CHECKED BY	DATE	2019
REVISION C	2019	APPROVED BY	DATE	2019



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**1ST STREET RECONSTRUCTION
STORM DRAIN PROFILE
STA 19+00 TO STA 24+00**

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PROFILE VIEW: EX STORM MAIN IN 1ST STREET (3) from 24+00.00 to 29+00.70

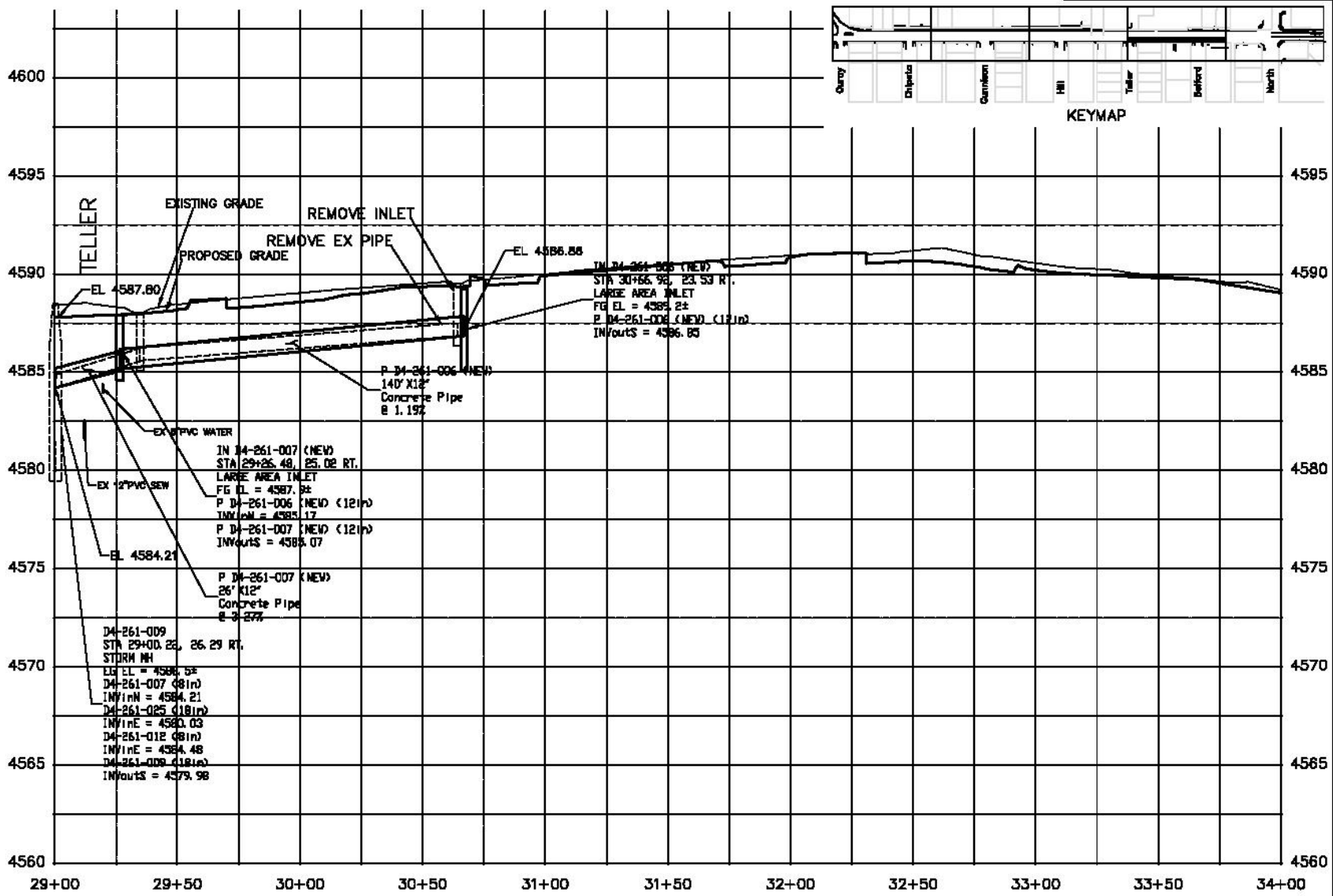
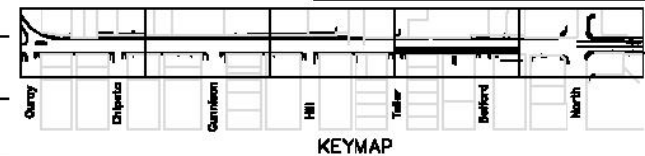
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REVISION C XXX		201X	SBG	2016
REVISION D XXX		201X	TOP	2016



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1ST STREET RECONSTRUCTION STORM DRAIN PROFILE STA 24+00 TO STA 29+00



PROFILE VIEW: EX STORM MAIN IN 1ST STREET (4) from 29+00.00 to 34+00.00

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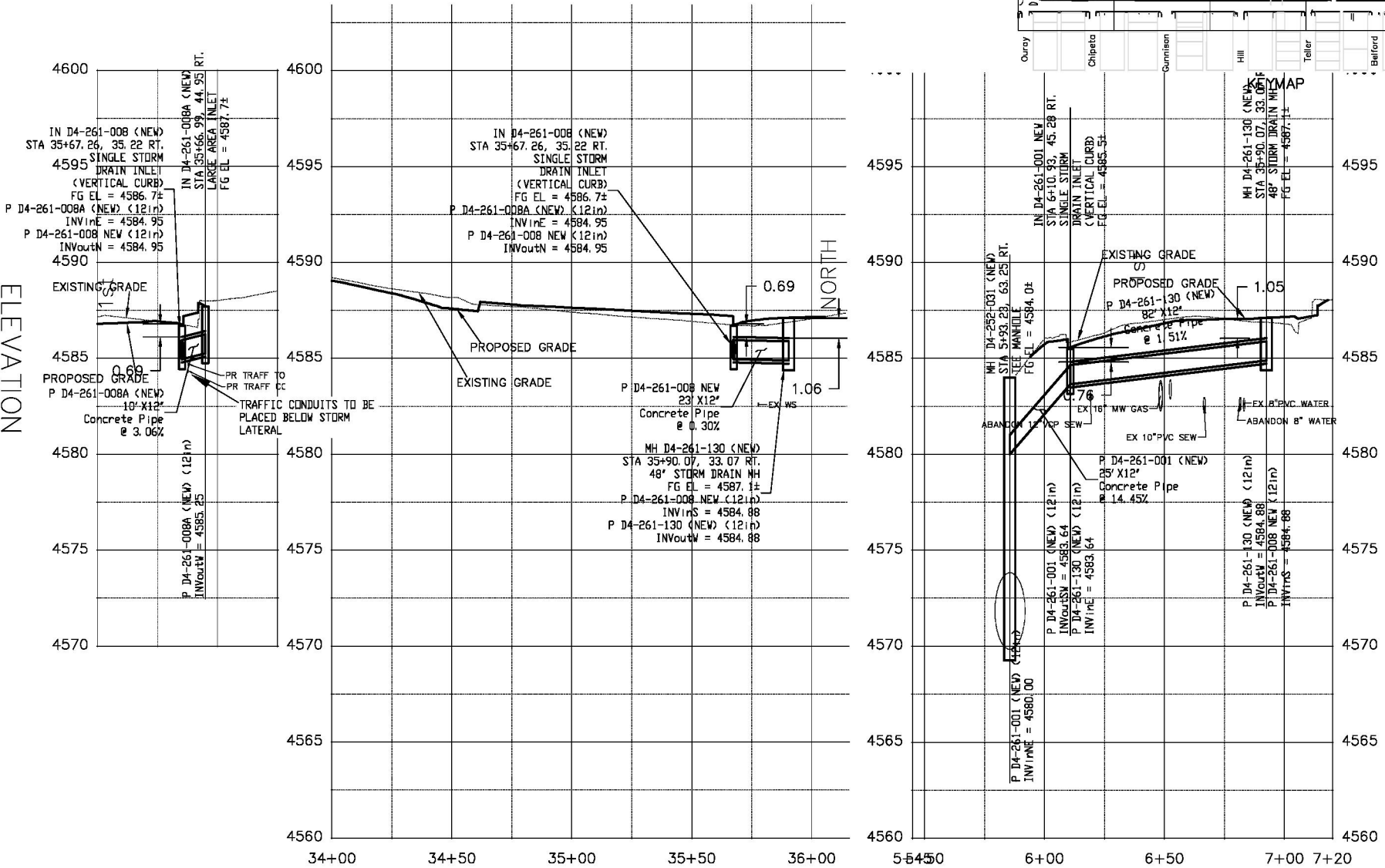


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ENGINEERING DIVISION**

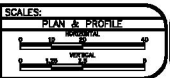
**1ST STREET RECONSTRUCTION
STORM DRAIN PROFILE
STA 29+00 TO STA 34+00**

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ELEVATION

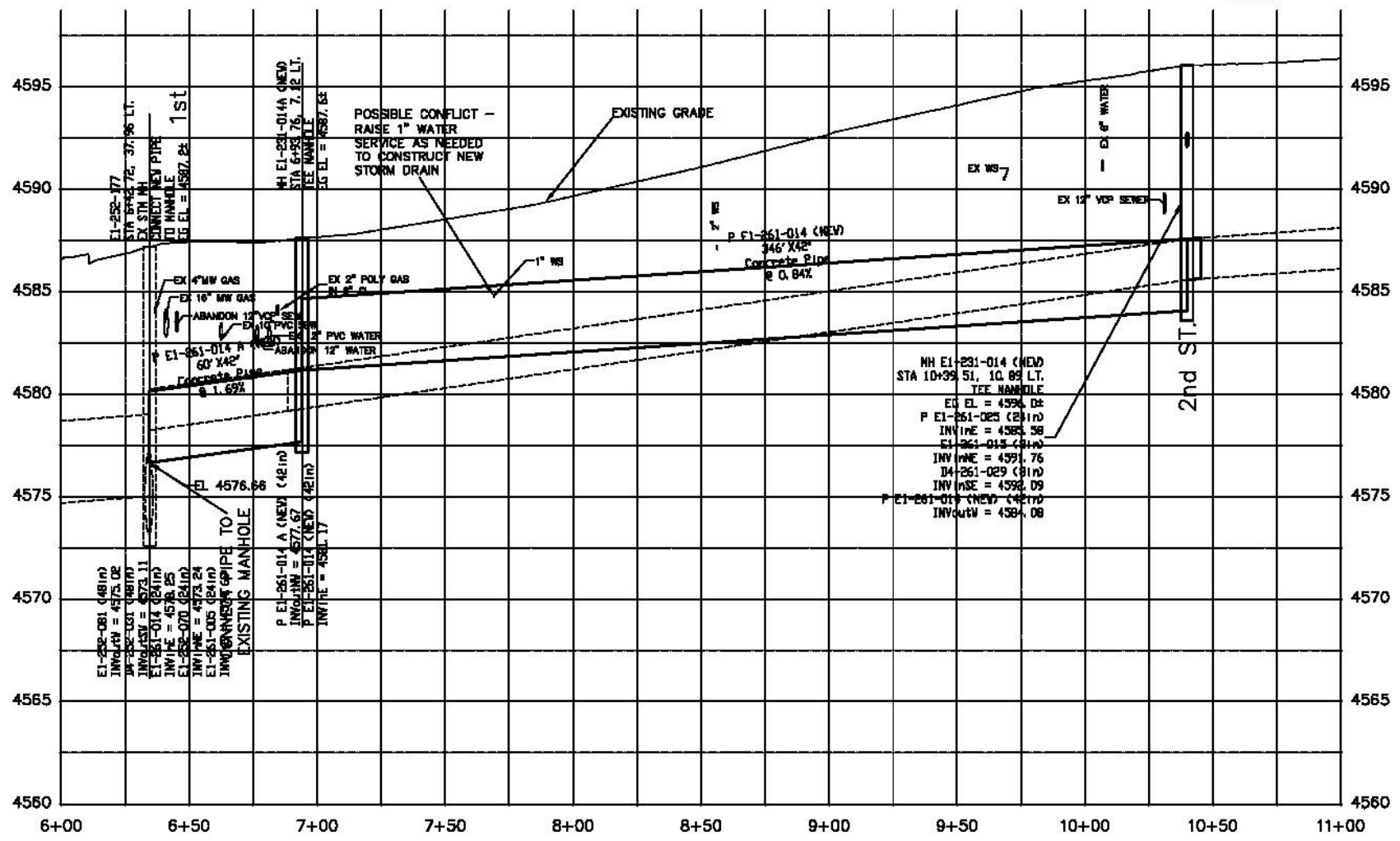
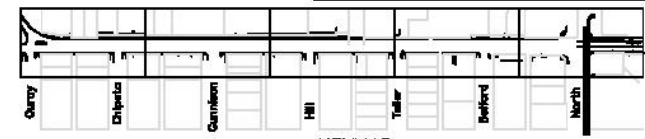


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REVISION D	XXX	201X	TOP	2016



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ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
STORM DRAIN PROFILE
STA 34+00 TO 36+00 & NORTH TO 8+00**



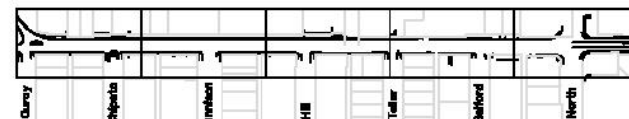
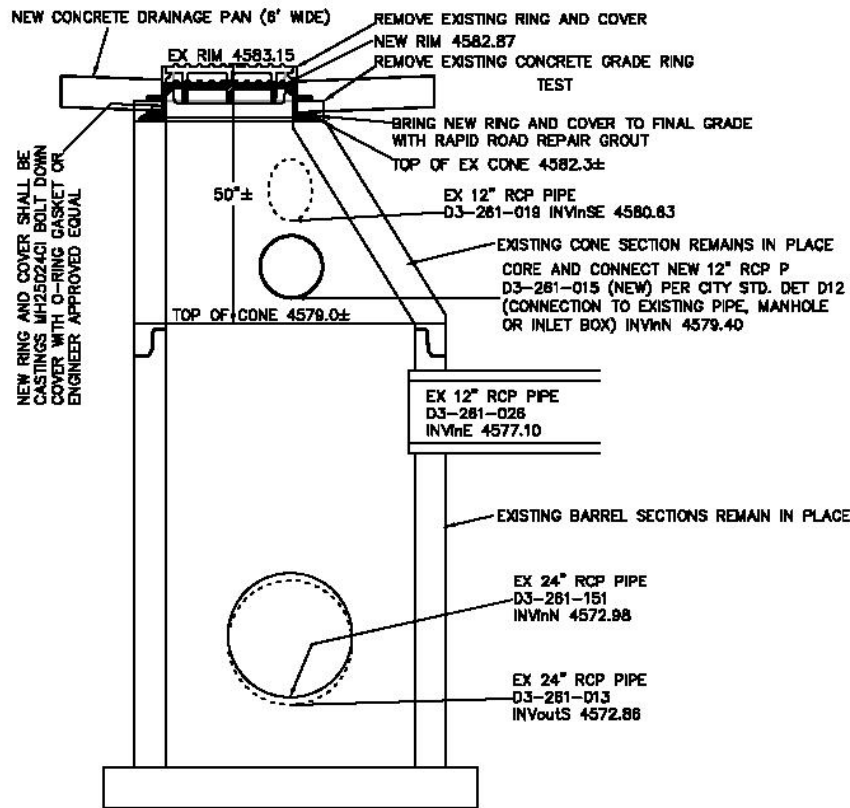
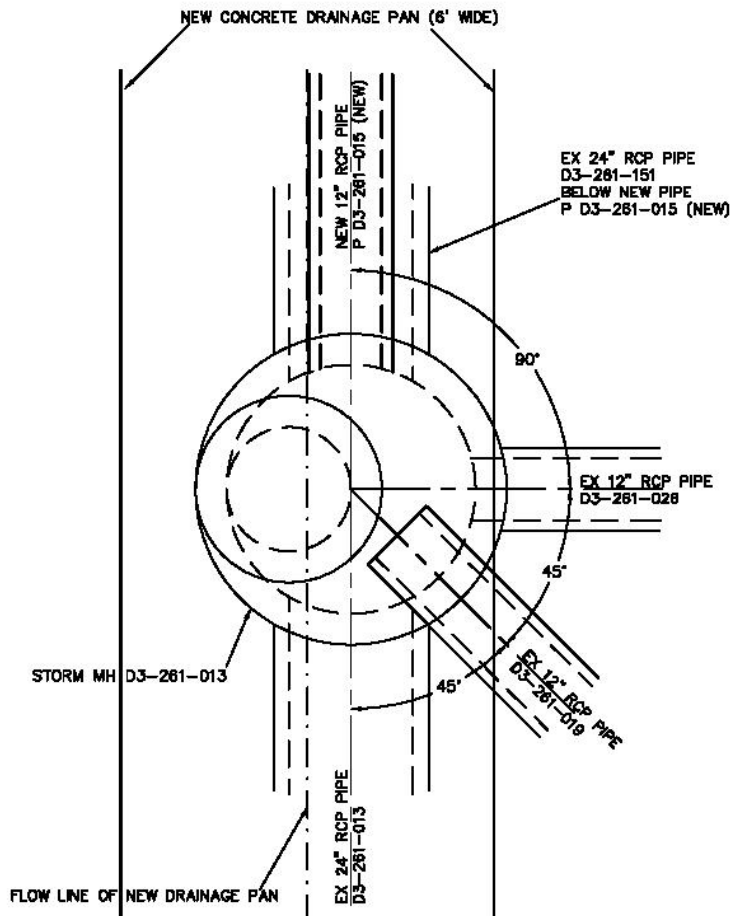
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REVISION C	2016
REVISION D	2016



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**NORTH AVENUE STORM DRAIN
STORM DRAIN PROFILE
STA B+00 TO 11+00**



KEYMAP

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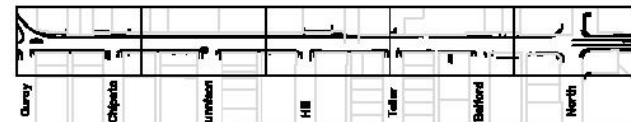
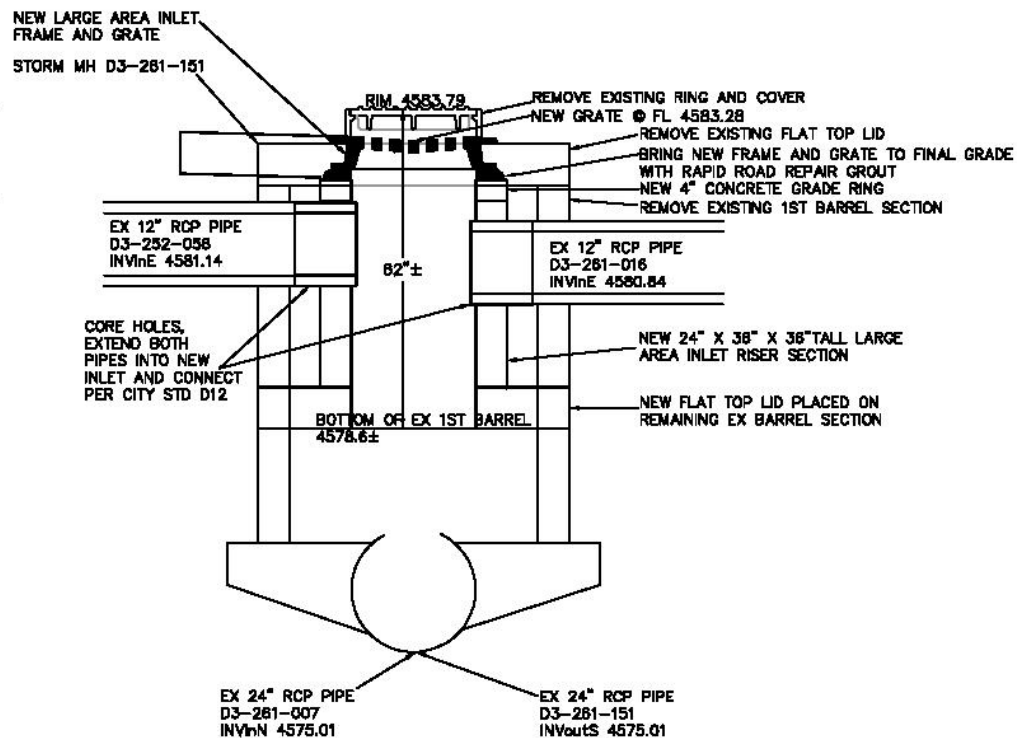
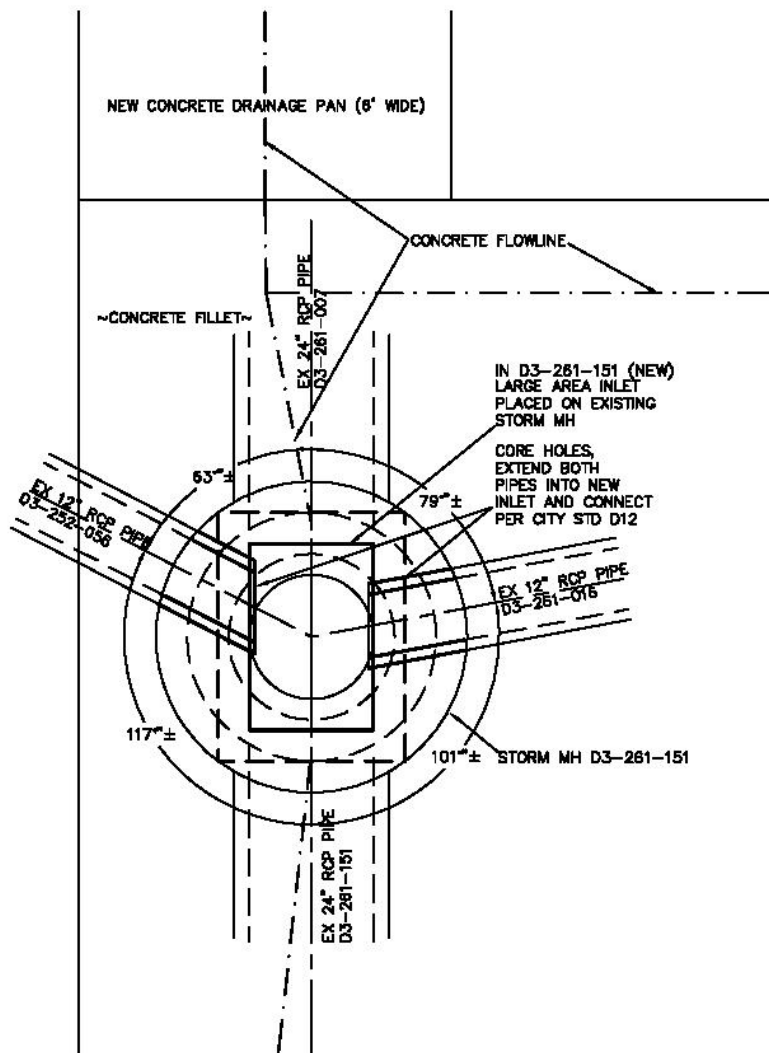
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APPROVED BY	AKS	DATE	2016



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**1ST STREET RECONSTRUCTION
STORM DRAIN MH DETAIL
STORM MH D3-281-013 AT CHIPETA AVE**

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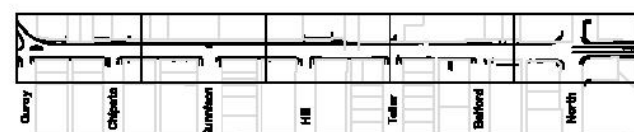
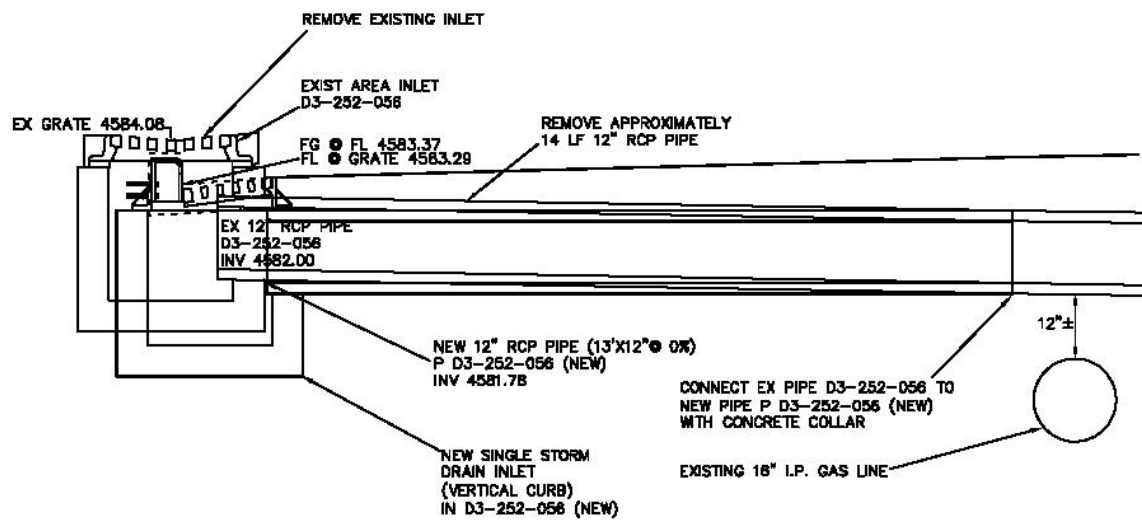
KEYMAP

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CITY OF
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COLORADO

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ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
STORM DRAIN MH DETAIL
STORM MH D3-261-151 AT GUNNISON AVE**



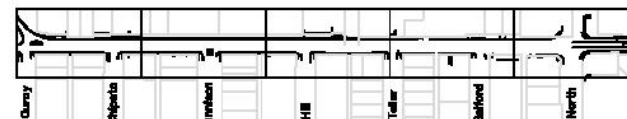
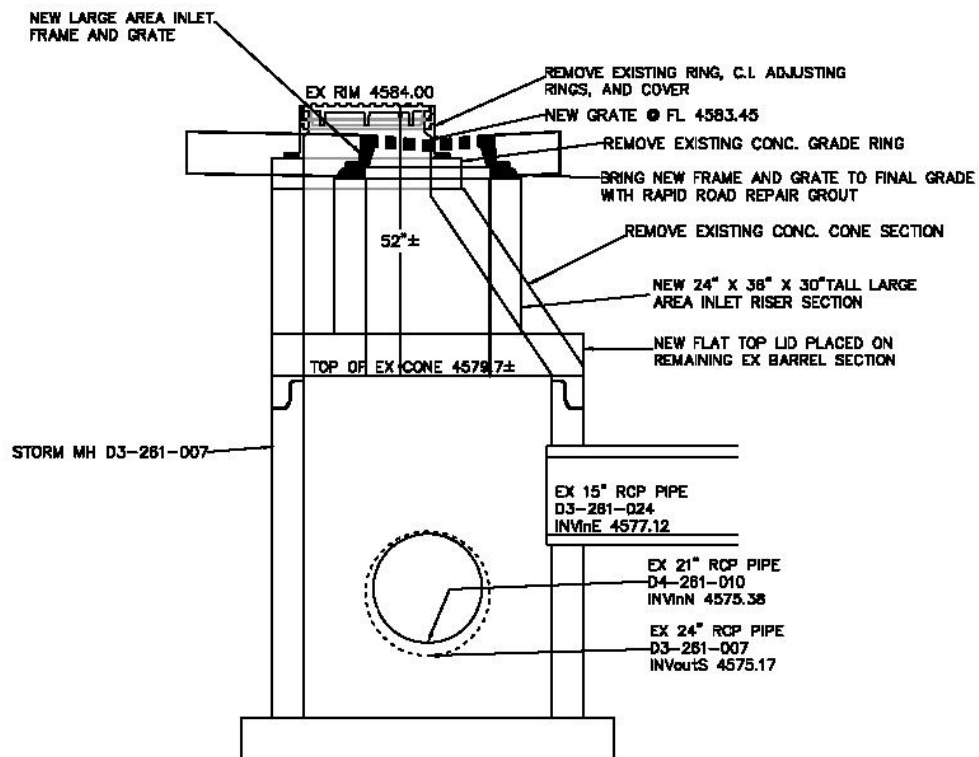
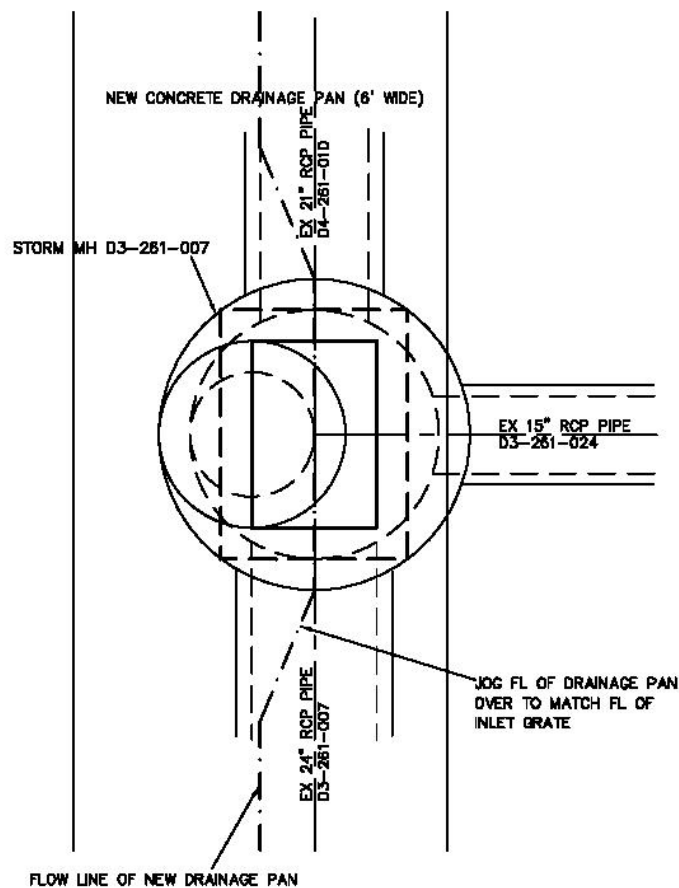
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ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
STORM DRAIN INLET DETAIL
STORM INLET D3-252-056 AT GUNNISON AVE**



KEYMAP

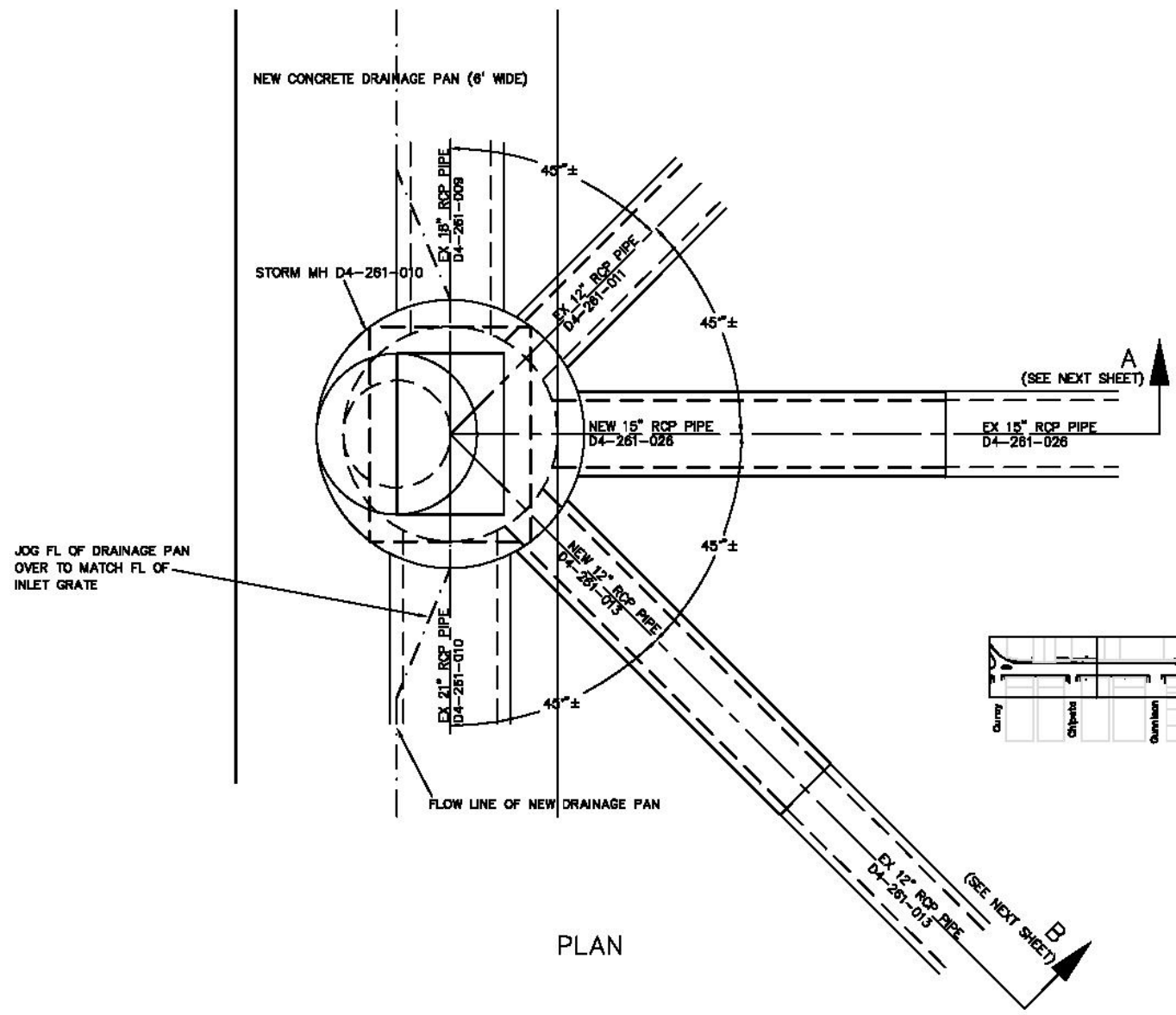
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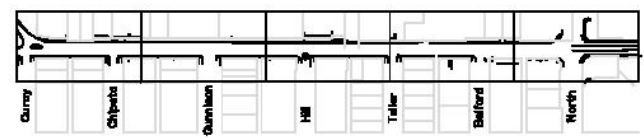


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ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
STORM DRAIN MH DETAIL
STORM MH D3-261-007 AT GUNNISON AVE**



JOG FL OF DRAINAGE PAN
OVER TO MATCH FL OF
INLET GRATE



KEYMAP

PLAN

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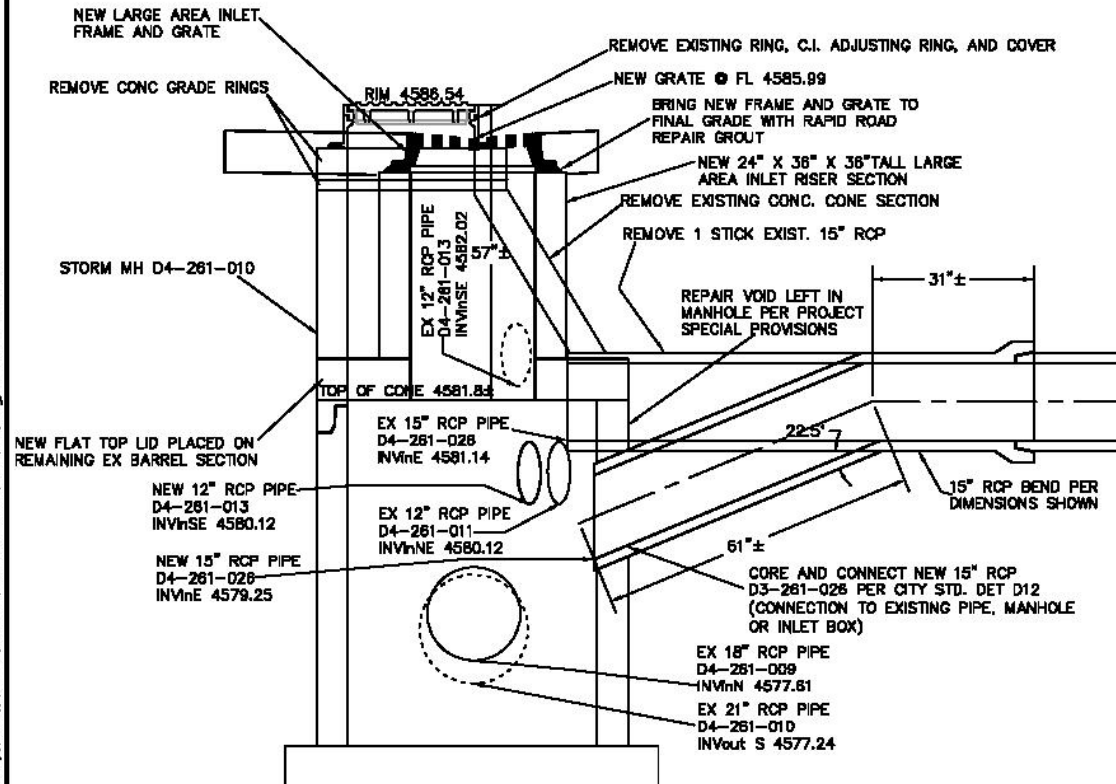
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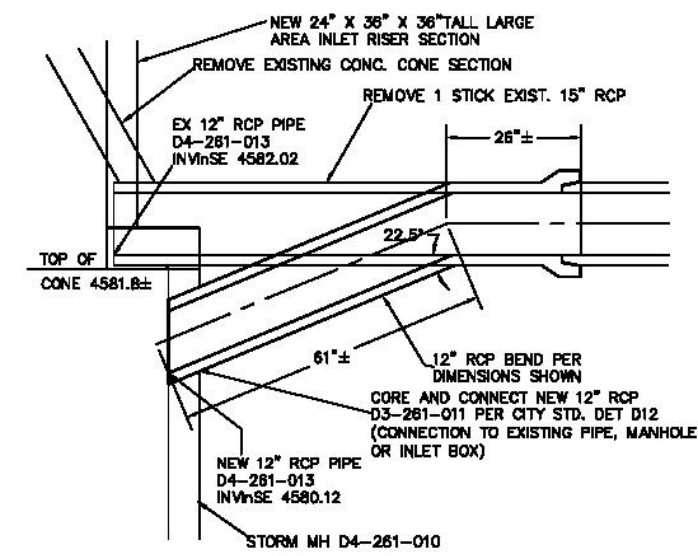
**PUBLIC WORKS
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ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
STORM DRAIN MH DETAIL
STORM MH D4-261-010 AT HILL AVE**

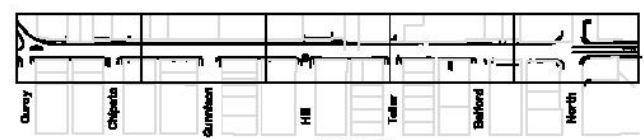
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SECTION A



SECTION B



KEYMAP

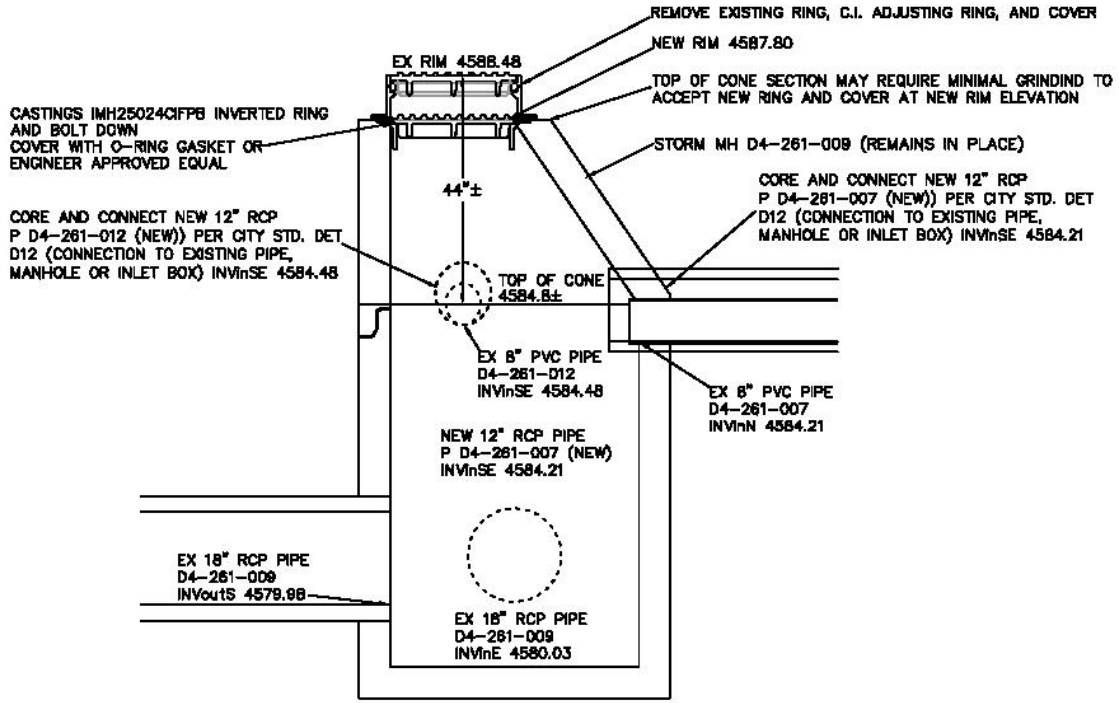
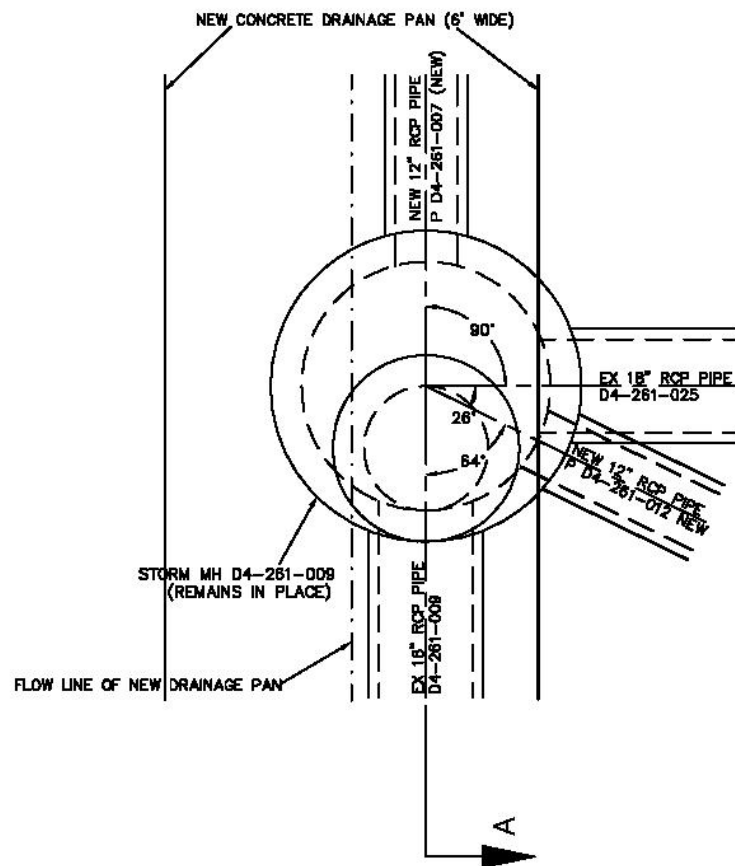
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CITY OF
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COLORADO

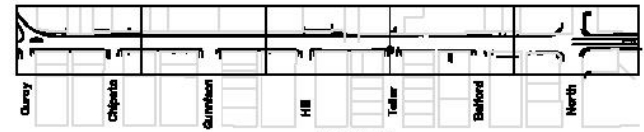
**PUBLIC WORKS
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ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
STORM DRAIN MH DETAIL
STORM MH D4-261-010 AT HILL AVE**

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SECTION A



KEYMAP

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REVISION B	2016				
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REVISION D	2016				

DRAWN BY: DATE: 2016
 CHECKED BY: DATE: 2016
 APPROVED BY: DATE: 2016



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**1ST STREET RECONSTRUCTION
 STORM DRAIN MH DETAIL
 STORM MH D4-261-009 AT TELLER AVE**

1. SITE DESCRIPTION

To fulfill the CDPS-SCP (Colorado Discharge Permit System - Stormwater Construction Permit). The ECS shall update to reflect current project site conditions.

A. **PROJECT SITE DESCRIPTION:** Reconstruct 1st Street from Ouray Avenue to North Avenue. Project site is located in a fully developed section of Grand Junction, with businesses adjacent to 1st Street. The business properties currently have established landscaping that the reconstruction project will modify due to street reconfiguration of 1st Street and a few access driveways to businesses. Grading activities will be minor. The street reconstruction been designed to match existing grades as closely as possible while still allowing for good drainage to the storm inlets. Proposed new utilities include some new storm piping and inlets will be installed within the construction boundaries as well. There are a few dry utilities that will need relocating due to street reconstruction. This project will have both asphalt and concrete pavement installed. Excavation is limited to the construction of the new roadway sections and appurtenances. Landscaping is provided on this project in the form of sod, seeding, trees, shrubs and inorganic mulch; and irrigation will be provided to all new trees, shrubs and perennials.

B. **PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:**

1. Installation of initial erosion control items
2. Clearing and Grubbing
3. Removal and Stockpile of topsoil
4. Utility installation and relocations (water, storm, dry utilities)
5. Asphalt removal
6. Excavation for roadway construction
7. Roadway grading and sub grade preparation
8. Installation of interim erosion control items
9. Hot mix asphalt and concrete construction of proposed roadway
10. Landscape and Irrigation installation
11. Signing and Striping
12. Installation of final erosion control items (re-vegetation)

C. **ACRES OF DISTURBANCE:**

1. Total area of construction site: 4.795 acres
2. Total area of disturbance: 4.795 acres

D. **EXISTING SOIL DATA:** Killpack Silty Clay, 2 to 5 percent slopes. Parent Material: Residuum weathered from clayey shale. Runoff class is: Medium. Depth to water table: More than 80 inches. Hydrologic Soil Group: C.

E. **EXISTING VEGETATION, INCLUDING PERCENT COVER:**

Existing vegetation consists of maintained landscaping by the local businesses adjacent to the project. Existing vegetation consists of sod, trees, shrubs, perennials, inorganic mulch and native grasses.

A survey including general description of existing vegetation shall be conducted by TECS prior to any ground disturbance on project. The TECS shall photo-document existing vegetation where all work will be occurring. The TECS shall also perform the vegetation survey transect(s) including photo documentation as outlined in Chapter 4.11.2 of CDOT's Erosion Control and Stormwater Quality Guide.

Date of survey: _____ %Density: _____
 Description of existing vegetation:
 Map or table showing transect locations in tab 19:

F. **POTENTIAL POLLUTANTS SOURCES:** See First Construction Activities under Potential Pollutant Sources. The ECS shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

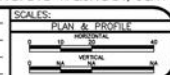
G. **RECEIVING WATER:**

1. Outfall locations: The owner of the existing and new storm pipes installed as part of this project that are underneath and crossing 1st Street will be owned and maintained by the City of Grand Junction. All storm drain piping that's part of this project conveys storm water to two separate centralized points and discharges the storm water into existing storm piping where the storm water is then conveyed and discharged into the Colorado River. This project is located within MS4 boundaries. This project increases the imperious area by 3%.
2. Names of receiving water(s) on site and the ultimate receiving water: the Colorado River as the ultimate receiving waters.
3. Distance ultimate receiving water is from project: 0.75 Miles

H. **ALLOWABLE NON-STORMWATER DISCHARGES:** Concrete washout, saw cutting, and dewatering are anticipated on the project. The ECS shall prepare a list of allowable non-stormwater discharges.

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REVISION	DESCRIPTION	DATE	DRAWN BY	JCS	DATE	2016
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**PUBLIC WORKS
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ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
STORM WATER MANGEMENT PLAN**

1. Groundwater and stormwater dewatering: Discharges to the ground of water from construction dewatering activities may be authorized provided that:
 - a. the source is groundwater and/or groundwater combined with stormwater that does not contain pollutants
 - b. the source and BMPs are identified in the SWMP
 - c. discharges do not leave the site as surface runoff or to surface waters
 - d. The contractor shall protect all work areas and facilities from water at all times. Areas and facilities subject to flooding, regardless of the source of water, shall be promptly dewatered and restored at no cost to the owner. This shall include removal of any debris caused by flooding. Any dewatering shall be done in accordance with Subsection 107.25
 2. If discharges do not meet the above criteria a separate CDPS permit shall be obtained by the Contractor from the CDPHE. See standard special provision 250 Hazardous Waste and Contaminated Water.
- I. **ENVIRONMENTAL IMPACTS:**
1. Wetland Impacts: YES **NO**
 2. Stream Impacts: YES **NO**
 3. Threatened and Endangered Species: N/A

2. SITE MAP COMPONENTS:

Pre-construction

- A. **PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES** - Shown on the Storm Water Management Site Plans as the shaded area. The outer perimeter of the shaded area is the proposed limits of construction and/or the toe of fills or top of cuts. The existing right-of-way and temporary and permanent easement lines are shown on the Storm Water Management Site Plans.
- B. **ALL AREAS OF GROUND SURFACE DISTURBANCE** - Shown on the Storm Water Management Site Plans. The shaded area represents all areas that are anticipated to have surface disturbance. This shaded area is what was used to calculate the acres of disturbance. Limits of disturbance are shown on the Storm Water Management Site Plans.
- C. **AREAS OF CUT AND FILL** - Shown on the Roadway Plans, Grading and Drainage Plans and the Storm Water Management Site Plans. The areas of cut and fill are shown with their own specific line type.
- D. **LOCATION OF ALL STRUCTURAL BMPs IDENTIFIED IN THE SWMP** - All proposed Structural BMP's are shown and labeled on the Storm Water Management Site Plans. The locations shown on the Storm Water Management Site Plans are approximate and can be changed by the Contractor and/or Project Engineer during construction to adapt with the construction phasing.
- E. **LOCATION OF NON-STRUCTURAL BMPs AS APPLICABLE IN THE SWMP** - Location of the following to be located by the ECS: Material management, material usage, spill prevention and control, sanitary and septic waste management, liquid waste management, hazardous waste management, vehicle and equipment management, and concrete washout structure.
- F. **SPRINGS, STREAMS, WETLANDS AND OTHER SURFACE WATER** - N/A
- G. **PROTECTION OF TREES, SHRUBS, CULTURAL RESOURCES AND MATURE VEGETATION** - Protection of trees and shrubs are shown on the Landscape Plans and the Removal Plans.
- H. **AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) and BATCH PLANTS**

*ECS to revise site maps in accordance to 208.03

3. WMP ADMINISTRATORS:

A. **SWMP ADMINISTRATOR FOR DESIGN:**

Name/Title: Justin Vensel/Project Engineer

Contact information: 970-256-4017, justinv@gjcity.org

4. STORMWATER MANAGEMENT CONTROLS FIRST CONSTRUCTION ACTIVITIES

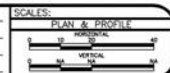
THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. **POTENTIAL POLLUTANT SOURCES**

Evaluate, identify and describe all potential sources of pollutants at the site in accordance with subsection 107.25 and place in the SWMP notebook. All BMPs related to potential pollutants shall be shown on the SWMP site map by the contractor's ECS.

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STORM WATER MANAGEMENT PLAN**

B. BEST MANAGEMENT PRACTICES (BMPs) FOR STORMWATER POLLUTION PREVENTION

PHASED BMP IMPLEMENTATION

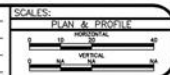
During Design: "BMP as Designed" boxes are marked when used in the SWMP. During construction: the ECS shall update the "In use on site" boxes to match which BMPs are currently in use on site. Clearly describe the relationship between the phases of construction and the implementation of BMP controls.

STRUCTURAL BMPs that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

APPLICATION, BMP	NARRATIVE	BMP AS DESIGNED	IN USE ON SITE	BMP PHASING		
				FIRST/INITIAL CONSTRUCTION ACTIVITIES	INTERIM CONSTRUCTION ACTIVITIES	FINAL STABILIZATION
<u>PROTECTION OF EXISTING WETLANDS</u> Fence (plastic) and erosion logs	Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.			X	X	
<u>PROTECTION OF EXISTING TREES/LANDSCAPING</u> Fence (plastic)	Fence (plastic) shall be used in areas indicated in the plans to protect mature trees and/or existing landscaping prior to start of construction disturbances.			X	X	
<u>CHECK DAM/DITCH CHECK</u> Erosion log, silt berm, silt dike, rock check dam	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.			X	X	X
<u>INLET PROTECTION</u> Storm drain inlet protection (type 1,2 and 3)	Placed prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.			X	X	X
<u>STOCKPILE PROTECTION</u> Temporary berm, erosion logs, aggregate bags*	Placed within specified distance from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stock pile, increase control as stock pile increases size.				X	
<u>TOE OF FILL PROTECTION</u> Erosion logs, temporary berm, silt fence, topsoil windrow*	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.			X	X	
<u>PERIMETER CONTROL</u> Erosion logs, silt fence, temporary berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area			X	X	
<u>SEDIMENT CONTROL/ SLOPE CONTROL</u> Silt fence, erosion logs	Placed on the contour on a slope to contain and slow down construction runoff. Place prior to start of construction disturbances.			X	X	
<u>TEMPORARY SEDIMENT TRAP</u> (ECS shall add locations to SWMP site maps)	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to start of construction disturbances.			X	X	
<u>PERMANENT SEDIMENT BASIN</u> Extended detention basin	Constructed early in project, prior to storm sewer/ditches to capture storm flow as a temporary sediment trap. Outlet structure shall be modified for construction runoff.			X	X	
<u>EMBANKMENT PROTECTION OR TEMPORARY SLOPE DRAIN</u>	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.				X	X
<u>OUTLET PROTECTION</u> Riprap, or approved other	Material placed as energy dissipater to prevent erosion at outlet structure.				X	X

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REVISION Δ XXX		201X	APPROVED BY	TCP	DATE	2016



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CONCRETE WASHOUT In-ground or fabricated	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities.			X	X	
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances.			X	X	
SWEEPING	Source control, used to remove sediment tracked onto paved surfaces and to prevent from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be allowed.			X	X	
DEWATERING (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)	Shall be done in such a manner to prevent potential pollutants from entering state waters.			X	X	
TEMPORARY STREAM CROSSING	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water			X	X	
CLEAN WATER DIVERSION	Placed to divert clean surface or ground water around disturbance area to prevent it from mixing with construction runoff			X	X	
OTHER						

NON-STRUCTURAL BMPs that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

APPLICATION, BMP	NARRATIVE	BMP AS DESIGNED	IN USE ON SITE	BMP PHASING		
				FIRST/INITIAL CONSTRUCTION ACTIVITIES	INTERIM CONSTRUCTION ACTIVITIES	FINAL STABILIZATION
VEGETATIVE BUFFER STRIP Fence (plastic)	Filter sediment laden runoff from disturbance area. Area to be identified for preservation prior to construction starting.			X	X	X
LANDFORM (ECS shall add locations to SWMP site maps)	Existing landforms may be used as a BMP if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion.			X	X	
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Windrow or stockpile	Prior to embankment work commencing, existing topsoil shall be scraped to a depth of 4 inches, and placed in stockpiles or windrows. Upon completion of slope work/final grading (less 4 inches), topsoil shall be evenly distributed over embankment to a depth of 4 inches.			X	X	
SURFACE ROUGHENING / GRADING TECHNIQUES Blading, Backhoe, Dozing, Combination Loader	Temporary stabilization of disturbance and to minimize wind and erosion.				X	
SEEDING TEMPORARY	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.				X	
BONDED FIBER MATRIX/HYDRAULIC MULCH (Not to be used in areas of concentrated flows, i.e. ditch lines.)	To be used in combination with surface roughening for temporary stabilization of disturbed soils, when work is temporarily halted and as approved by the Engineer. May be used as surface cover for temporary topsoil stockpiles				X	
MULCH/MULCH TACKIFIER	Temporary or Final Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer				X	X

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REVISION Δ XXX		201X	APPROVED BY TCP	DATE 2016

SCALES:
PLAN & PROFILE
1" = 10'
VERTICAL
1" = 5'



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CONCRETE WASHOUT In-ground or fabricated	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities.			X	X	
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances.			X	X	
SWEEPING	Source control, used to remove sediment tracked onto paved surfaces and to prevent from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be allowed.			X	X	
DEWATERING (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)	Shall be done in such a manner to prevent potential pollutants from entering state waters.			X	X	
TEMPORARY STREAM CROSSING	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water			X	X	
CLEAN WATER DIVERSION	Placed to divert clean surface or ground water around disturbance area to prevent it from mixing with construction runoff			X	X	
OTHER						

NON-STRUCTURAL BMPs that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

APPLICATION, BMP	NARRATIVE	BMP AS DESIGNED	IN USE ON SITE	BMP PHASING		
				FIRST/INITIAL CONSTRUCTION ACTIVITIES	INTERIM CONSTRUCTION ACTIVITIES	FINAL STABILIZATION
VEGETATIVE BUFFER STRIP Fence (plastic)	Filter sediment laden runoff from disturbance area. Area to be identified for preservation prior to construction starting.			X	X	X
LANDFORM (ECS shall add locations to SWMP site maps)	Existing landforms may be used as a BMP if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion.			X	X	
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Windrow or stockpile	Prior to embankment work commencing, existing topsoil shall be scraped to a depth of 4 inches, and placed in stockpiles or windrows. Upon completion of slope work/final grading (less 4 inches), topsoil shall be evenly distributed over embankment to a depth of 4 inches.			X	X	
SURFACE ROUGHENING / GRADING TECHNIQUES Blading, Backhoe, Dozing, Combination Loader	Temporary stabilization of disturbance and to minimize wind and erosion.				X	
SEEDING TEMPORARY	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.				X	
BONDED FIBER MATRIX/HYDRAULIC MULCH (Not to be used in areas of concentrated flows, i.e. ditch lines.)	To be used in combination with surface roughening for temporary stabilization of disturbed soils, when work is temporarily halted and as approved by the Engineer. May be used as surface cover for temporary topsoil stockpiles				X	
MULCH/MULCH TACKIFIER	Temporary or Final Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer				X	X

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REVISION Δ XXX		201X

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CHECKED BY	SBG	DATE	2016
APPROVED BY	TCP	DATE	2016

SCALES:
PLAN & PROFILE
HORIZONTAL
1" = 10'
VERTICAL
1" = 4'



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SPRAY-ON MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Temporary or Final Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer				X	X
SEEDING PERMANENT	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					X
SOIL RETENTION BLANKET (SRB)	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.				X	X
TURF REINFORCEMENT MAT (TRM)	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment.				X	X
OTHER						

Erosion control devices are used to limit the amount of soil loss on site
 Sediment control devices are designed to capture sediment on the project site.
 Construction controls are BMPs related to construction access and staging.
 BMP locations are indicated on the SWMP site map.

NARRATIVES

BMP details and narratives not covered by the SWMP or Standard Plan M-208-1 shall be added to the SWMP notebook by the ECS.

D. OFFSITE DRAINAGE (RUN ON WATER)

1. Describe and record BMPs on the SWMP site map that has been implemented to address off site run-on water in accordance with subsection 208.03.

E. VEHICLE TRACKING PAD/VEHICLE TRACKING CONTROL

1. BMPs shall be implemented in accordance with subsection 208.04.

F. PERIMETER CONTROL

1. Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters.
2. Perimeter control may consist of vegetation buffers, berms, silt fence, erosion logs, existing landforms, or other BMPs as approved.
3. Perimeter control shall be in accordance with subsection 208.04.

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR/TRANSPORTATION EROSION CONTROL SUPERVISOR DURING CONSTRUCTION

The SWMP should be considered a "living document" that is continuously reviewed and modified. During construction, the following items shall be added, updated, or amended as needed by the SWMP Administrator/Erosion Control Supervisor (ECS) in accordance with Section 208.

During construction, indicate how items that have not been addressed during design are being handled in construction. If items are covered in the template or other sections of the SWMP notebook indicate below what section the discussion takes place.

A. **STOCKPILE MANAGEMENT** - shall be done in accordance with subsection 107.25 and 208.07

B. **CONCRETE WASHOUT** - Concrete wash out water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.

C. **SAW CUTTING** - shall be done in accordance with subsection 107.25, 208.04, 208.05

D. **STREET CLEANING** - shall be done in accordance with subsection 208.04

6. INSPECTIONS

A. Inspections shall be in accordance with subsection 208.03 (c).

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7. BMP MAINTENANCE

A. Maintenance shall be in accordance with subsection 208.04 (f).

8. RECORD KEEPING

A. Records shall be kept in accordance with subsection 208.03 (c).

9. INTERIM AND FINAL STABILIZATION

A. SEEDING PLAN

Soil preparation, soil conditioning or topsoil, seeding (native), mulching (weed free) and mulch tackifier will be required for an estimated 2.67 acres of disturbed area within the right-of-way limits which are not surfaced. The following types and rates shall be used:

COMMON NAME	BOTANICAL NAME	% OF MIX BY QTY.
GALLETA GRASS	HILARIA JAMESII	20%
HARD FESCUE	FESTUCA OVINA 'DURAR'	20%
INDIAN RICEGRASS	ORIZOPSIS HYMENOIDES 'PALOMA'	12%
NEEDLE & THREAD GRASS	STIPA COMATA	1%
SHEEP FESCUE	FESTUCA OVINA 'COVAR'	8%
WESTERN WHEATGRASS	AGROPYRON SMITHII 'ARRIBA'	30%
SAND DROPSEED	SPOROBOLUS CRYPTANDRUS	1%
BLUE GRAMMA	BOUTELOUA GRACILIS	5%
SIDE OATS GRAMMA	BOUTELOUA CURTIPENDULA	3%
SEED AT 5 LB/ACRE PLS		

B. SEEDING APPLICATION: Drill seed 0.25 inch to 0.5 inch into the soil. In small areas not accessible to a drill, hand broadcast or hydroseed at double the rate and rake 0.25 inch to 0.5 inch into the soil.

C. MULCHING APPLICATION: Apply a minimum of 2 tons of certified weed free straw or 2 tons of certified weed free straw per acre and in accordance with Section 213, and mechanically crimp it into the soil in combination with an organic mulch tackifier.

a. Prior to winter shutdown or the summer seeding window: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier per section 213.

D. SPECIAL REQUIREMENTS:

1. Due to high failure rates, hydroseeding will not be allowed.

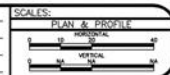
E. SOIL CONDITIONING AND FERTILIZER REQUIREMENTS: [Minimum requirements for all disturbances to receive seeding (native). Compost is optional within areas above 8000 ft in elevation]

Soil conditioner paid for as Item 212- Soil Conditioning (Acre)		
Biological nutrient organic based fertilizer (lbs/acre)*	Humate (lbs/acre)	Compost (cy/acre) (1/2 inch depth)
600	200	261

*Biological nutrient shall not exceed 8-8-8 (N-P-K). Humate based material and compost shall be in accordance to Section 212.

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REVISION Δ XXX			APPROVED BY	TCP	DATE	2016



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F. SOIL RETENTION COVERING: On slopes and ditches requiring a blanket or turf reinforcement mat (trm), the blanket/trm shall be placed in lieu of mulch and mulch tackifier. See SWMP for blanket locations.

G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION
Prior to final acceptance:

1. Seeded areas shall be reviewed during the 14 day inspections by the Erosion Control Supervisor for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.
2. The Contractor shall maintain seeding/mulch/tackifier, mow to control weeds or apply herbicide to control weeds in the seeded areas until Final Acceptance.

10. PRIOR TO FINAL ACCEPTANCE

- A. Final Acceptance shall be in accordance with subsection 208.10 At the Partial Acceptance of the project, it shall be determined by the ECS and the Engineer which temporary BMP's shall remain until 70% reestablishment or which shall be removed.
- B. At the end of the project, all ditch checks shall either consist of temporary erosion logs or permanent rip-rap.

11. TABULATION OF STORMWATER QUANTITIES

Pay Item	Description	Pay Unit	*Quantity	As Const.
208-00035	Aggregate Bag	LF	112	
208-00045	Concrete Washout Structure	Each	4	
208-00052	Storm Drain Inlet Protection (Type2) (Option A)	Each	14	
208-00070	Vehicle Tracking Pad	Each	4	
208-00103	Removal and Disposal of Sediment (Labor)	Hour	30	
208-00105	Removal and Disposal of Sediment (Equipment)	Hour	30	
208-00106	Sweeping (Sediment Removal)	Hour	70	
208-00206	Erosion Control Supervisor	Day	150	
208-00300	Temporary Berms	LF	150	
209-00600	Dust Palliative (Magnesium Chloride)	Gallon	800	
212-00006	Seeding (Native)	Acre	0.1	
212-00032	Soil Conditioning**	Acre	0.1**	
213-00004	Mulching (Weed Free Straw)	Acre	0.1	
213-00061	Mulch Tackifier	LB	10	
607-11525	Fence (Plastic)	LF	200	
700-70380	Erosion Control	FA	1	

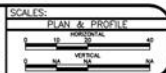
* It is anticipated that additional BMPs and BMP quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsection 208.03 and 208.04 (e). Quantities for all BMPs shown above are estimated, and have been increased for unforeseen Project conditions. Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.

** Quantity carried over to Tabulation of Landscape Quantities.

- A. BMP sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other BMP maintenance shall be included in the cost of the BMP Device.
- B. It is estimated that 100 hours of labor, blading (130 - 140 horsepower), 100 hours of Sweeping (With Pickup Broom) may be required for miscellaneous erosion control work as directed by the Engineer. Work shall be paid for as: 203 Labor, 203 Blading, 203 Sweeping (With Pickup Broom).
- C. Maintenance of seeded areas shall be paid for as: 212 Seeding (Native)

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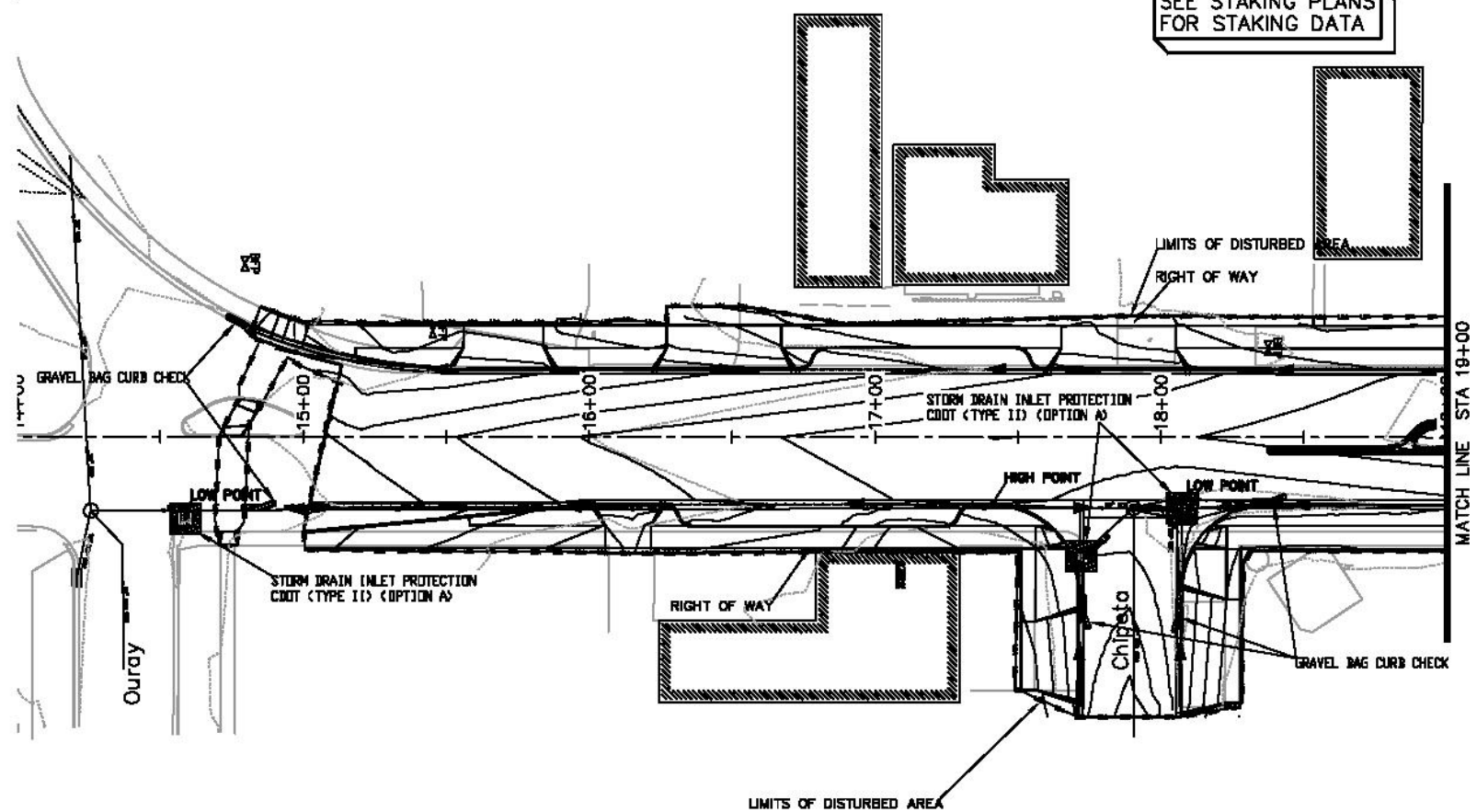


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**1ST STREET RECONSTRUCTION
STORM WATER MANGEMENT PLAN**



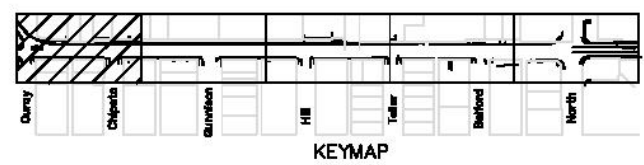
SEE STAKING PLANS
FOR STAKING DATA



- NOTES**
1. SEE ROADWAY PLANS FOR SEEDING AND INORGANIC MULCHING REQUIREMENTS.
 2. BMPs NOT DRAWN TO SCALE.
 3. BMP PLACEMENT IS APPROXIMATE.
 4. SEE SWMP NARRATIVE FOR BMPs.
 5. ECS TO UPDATE SWMP SITE PLANS DURING CONSTRUCTION.
 6. ECS TO DETERMINE LOCATIONS FOR CONCRETE WASHOUTS AND STAGING AREAS.

LEGEND

- GRAVEL BAG CURB CHECK
- STORM DRAIN INLET PROTECTION TYPE AS NOTED
- LIMITS OF DISTURBED AREA



REVISION	DATE	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
REVISION A	2018			AGS	2018	
REVISION B	2018			ADRIAN	2018	
REVISION C	2018			SBG	2018	
REVISION D	2018			TCF	2018	

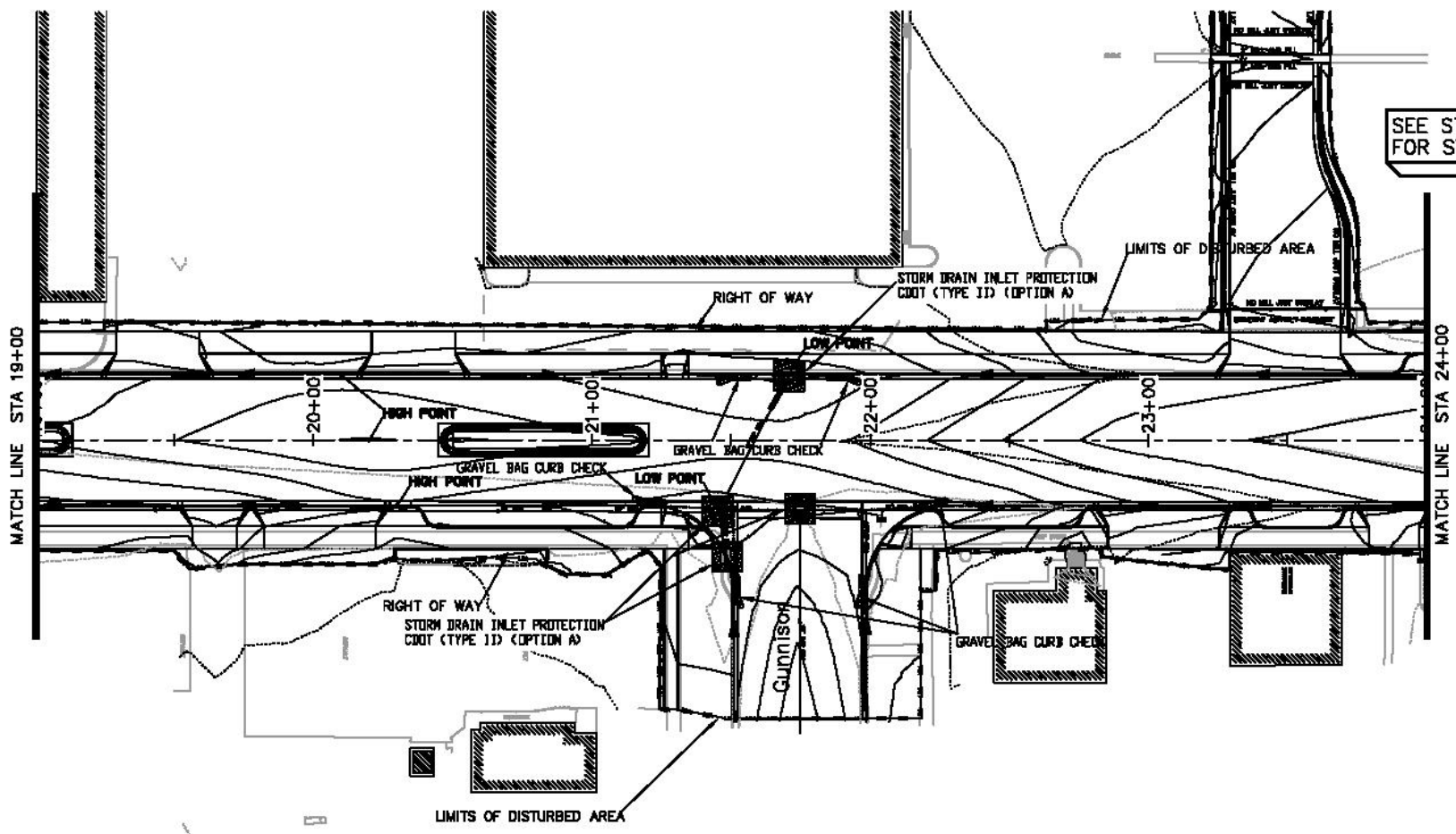


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ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
STORM WATER MANAGEMENT PLAN-SITE PLAN
STA 14+00 TO STA 19+00**



SEE STAKING PLANS FOR STAKING DATA

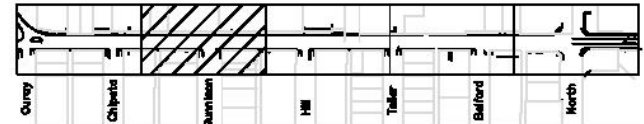


- NOTES:**
1. SEE ROADWAY PLANS FOR SEEDING AND INORGANIC MULCHING REQUIREMENTS.
 2. BMPs NOT DRAWN TO SCALE.
 3. BMP PLACEMENT IS APPROXIMATE.
 4. SEE SWMP NARRATIVE FOR BMPs.
 5. ECS TO UPDATE SWMP SITE PLANS DURING CONSTRUCTION.
 6. ECS TO DETERMINE LOCATIONS FOR CONCRETE WASHOUTS AND STAGING AREAS.

LEGEND

- GRAVEL BAG CURB CHECK
- STORM DRAIN INLET PROTECTION TYPE AS NOTED

LIMITS OF DISTURBED AREA



KEYMAP

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE 2018	CHECKED BY	DATE 2018
REVISION A 201		2018				
REVISION A 202		2018				
REVISION A 203		2018				
REVISION A 204		2018				

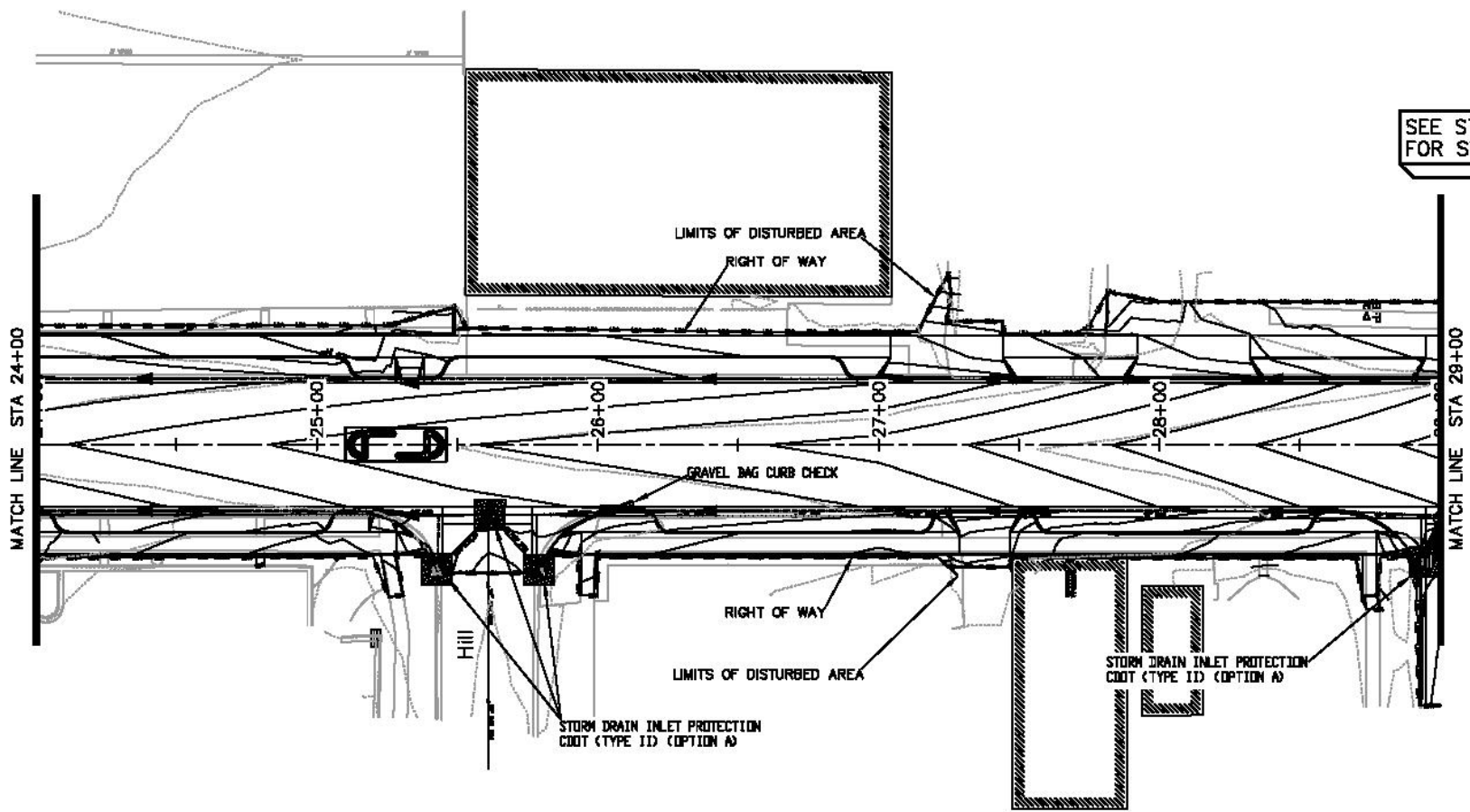


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION STORM WATER MANAGEMENT PLAN-SITE PLAN STA 19+00 TO STA 24+00

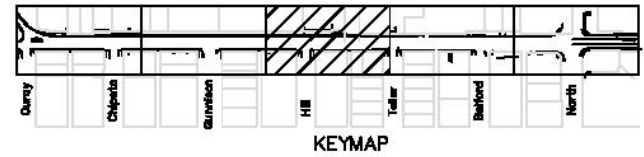


SEE STAKING PLANS FOR STAKING DATA



- NOTES:**
1. SEE ROADWAY PLANS FOR SEEDING AND INORGANIC MULCHING REQUIREMENTS.
 2. BMP NOT DRAWN TO SCALE.
 3. BMP PLACEMENT IS APPROXIMATE.
 4. SEE SWMP NARRATIVE FOR BMPs.
 5. ECS TO UPDATE SWMP SITE PLANS DURING CONSTRUCTION.
 6. ECS TO DETERMINE LOCATIONS FOR CONCRETE WASHOUTS AND STAGING AREAS.

- LEGEND**
- GRAVEL BAG CURB CHECK
 - STORM DRAIN INLET PROTECTION TYPE AS NOTED
 - LIMITS OF DISTURBED AREA



REVISION	DATE	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
REVISION A	2018		2018	AGS	2018	
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REVISION C	2018		2018	AGS	2018	
REVISION D	2018		2018	AGS	2018	



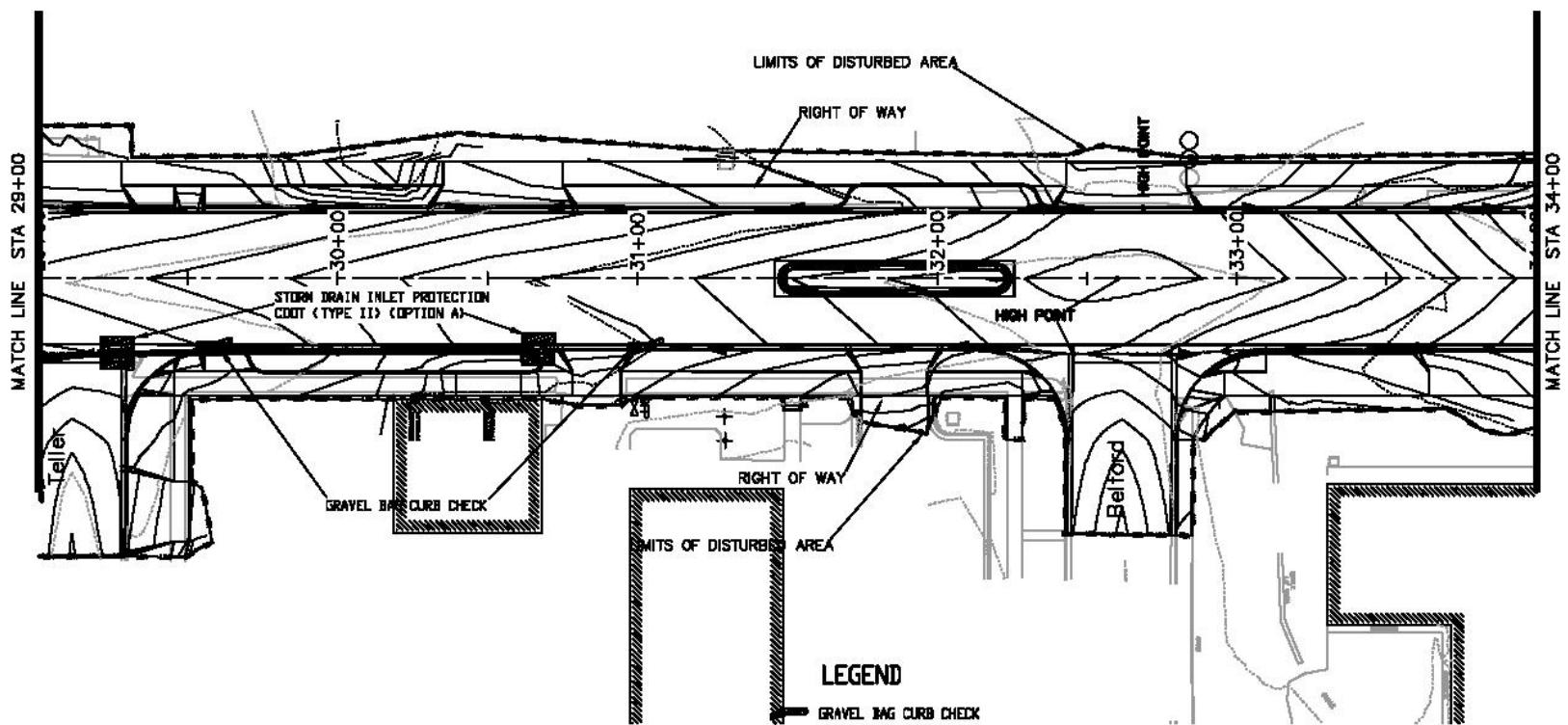
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION STORM WATER MANAGEMENT PLAN—SITE PLAN STA 24+00 TO STA 29+00

N:\Landmg\2018 1st Street Reconstruction (F1501)\DWG\1\UTILIZATION\SWMP-SP.dwg, (3), 12/15/2016 9:10:55 AM

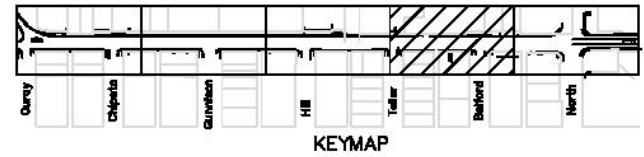


SEE STAKING PLANS FOR STAKING DATA



- NOTES:**
1. SEE ROADWAY PLANS FOR SEEDING AND INORGANIC MULCHING REQUIREMENTS.
 2. BMPs NOT DRAWN TO SCALE.
 3. BMP PLACEMENT IS APPROXIMATE.
 4. SEE SWMP NARRATIVE FOR BMPs.
 5. EGS TO UPDATE SWMP SITE PLANS DURING CONSTRUCTION.
 6. EGS TO DETERMINE LOCATIONS FOR CONCRETE WASHOUTS AND STAGING AREAS.

- LEGEND**
- ▬ GRAVEL BAG CURB CHECK
 - ◻ STORM DRAIN INLET PROTECTION TYPE AS NOTED
 - LIMITS OF DISTURBED AREA



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE 2018	SCALE
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REVISION A 202		2018	CHECKED BY	DATE 2018	
REVISION A 203		2018	APPROVED BY	DATE 2018	

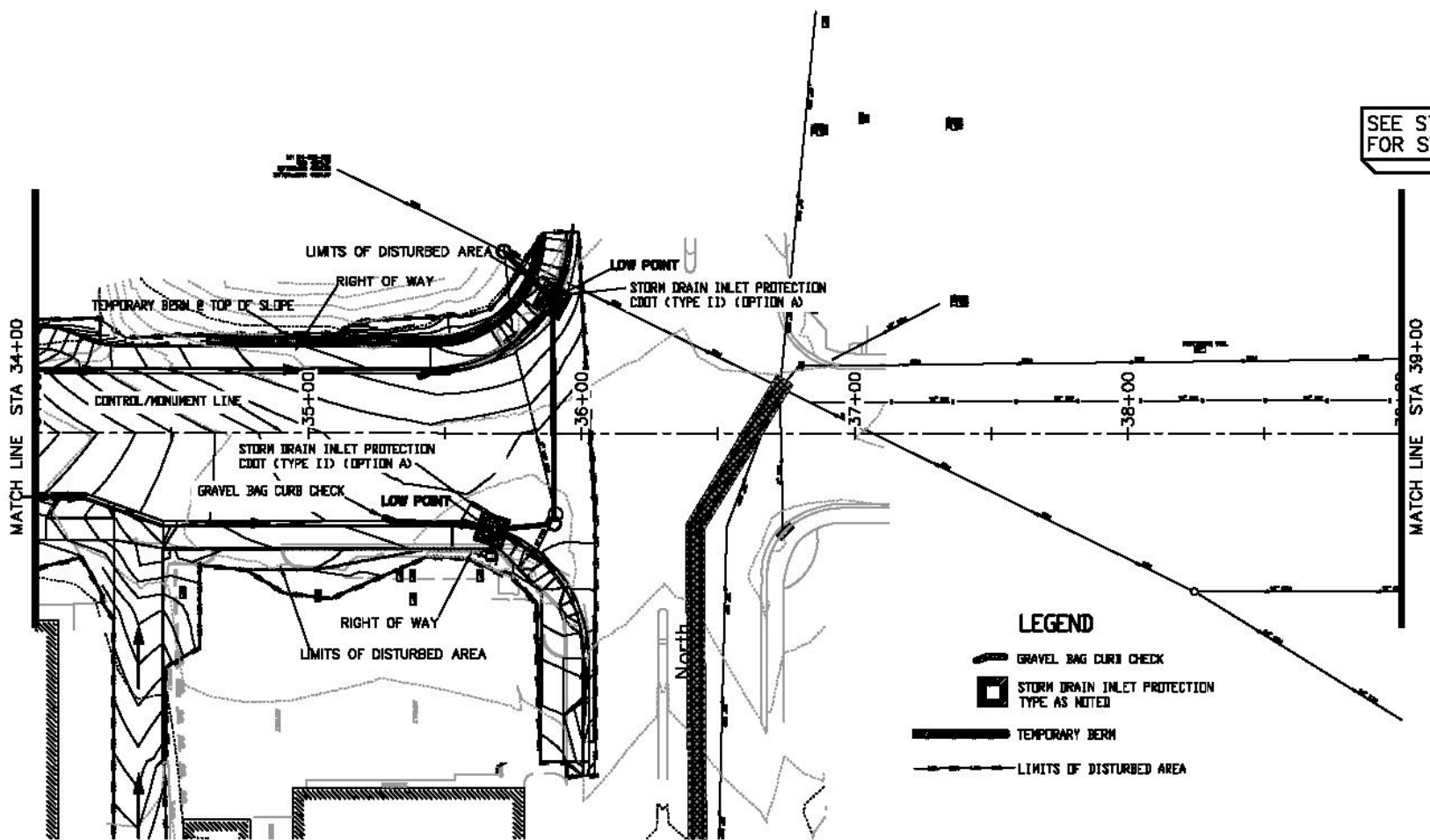


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION STORM WATER MANAGEMENT PLAN—SITE PLAN STA 29+00 TO STA 34+00

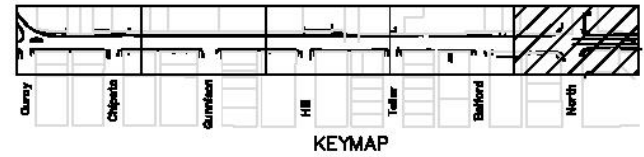


SEE STAKING PLANS FOR STAKING DATA



- LEGEND**
- GRAVEL BAG CURB CHECK
 - STORM DRAIN INLET PROTECTION TYPE AS NOTED
 - TEMPORARY BERM
 - LIMITS OF DISTURBED AREA

- NOTES:**
1. SEE ROADWAY PLANS FOR SEEDING AND INORGANIC MULCHING REQUIREMENTS.
 2. BMPs NOT DRAWN TO SCALE.
 3. BMP PLACEMENT IS APPROXIMATE.
 4. SEE SWMP NARRATIVE FOR BMP'S.
 5. ECS TO UPDATE SWMP SITE PLANS DURING CONSTRUCTION.
 6. ECS TO DETERMINE LOCATIONS FOR CONCRETE WASHOUTS AND STAGING AREAS.



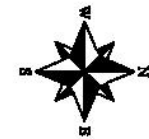
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REVISION A	2016	ISSUED FOR PERMIT	ASB	2016
REVISION B	2016	ISSUED FOR PERMIT	ASB	2016
REVISION C	2016	ISSUED FOR PERMIT	ASB	2016
REVISION D	2016	ISSUED FOR PERMIT	ASB	2016

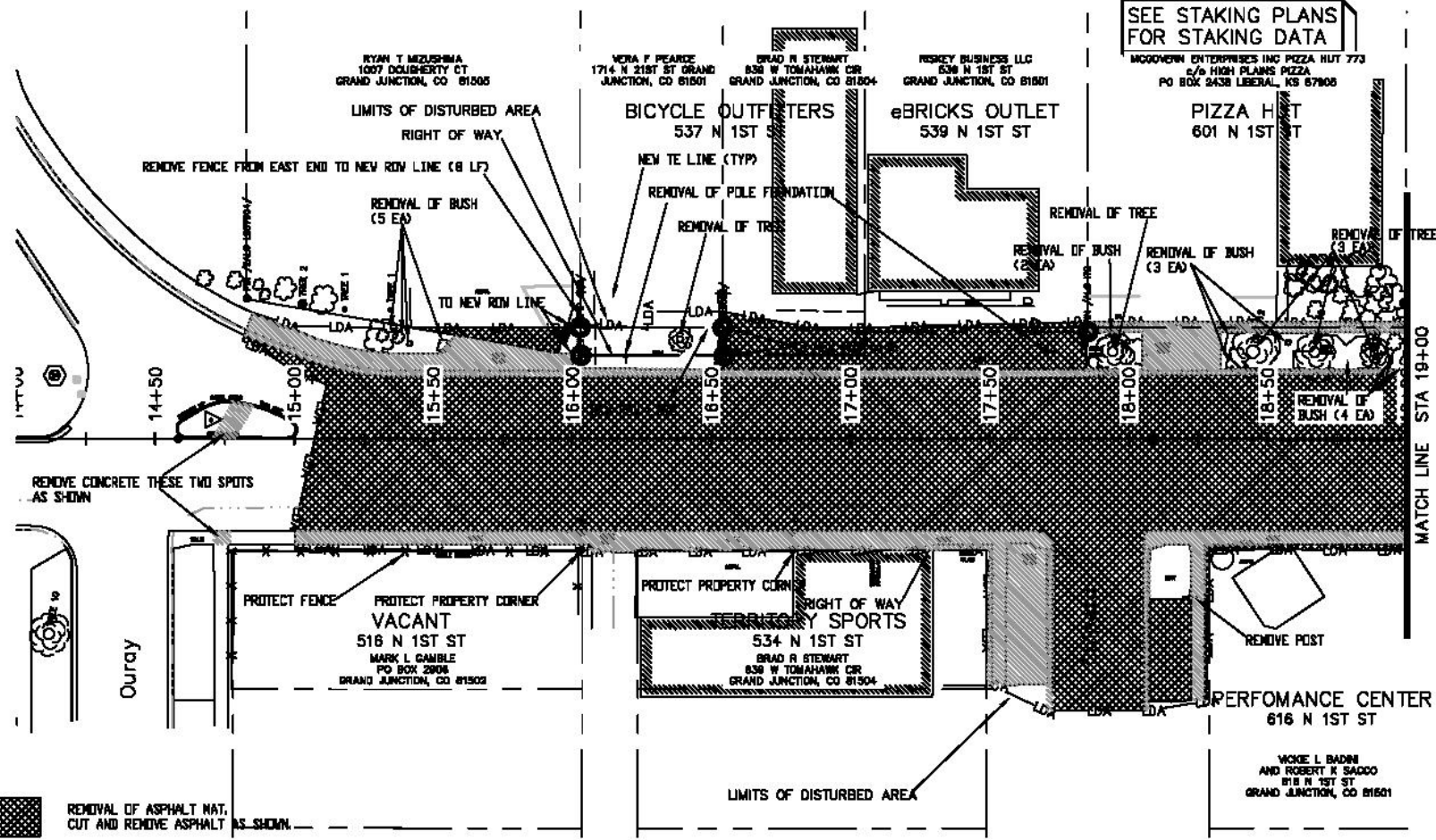
CITY OF Grand Junction COLORADO

PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION




1ST STREET RECONSTRUCTION STORM WATER MANAGEMENT PLAN-SITE PLAN STA 34+00 TO STA 39+00



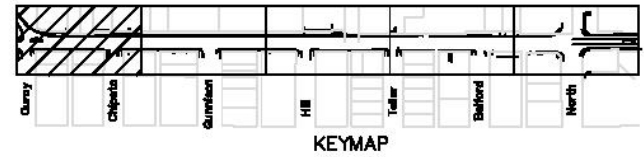
SEE STAKING PLANS FOR STAKING DATA



LEGEND

-  REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
-  REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
-  REMOVAL OF SOIL.

REFERENCE AND RESET SURVEY MONUMENT. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR'S SURVEYOR MUST SUBMIT FIELD NOTES DETAILING THE PERMANENT REFERENCES PLACED FOR EACH MONUMENT IN DANGER OF LOSS DUE TO CONSTRUCTION. THE METHOD OF REFERENCING MUST BE APPROVED BY THE CITY SURVEYOR PRIOR TO ANY CONSTRUCTION. AFTER CONSTRUCTION, THE SURVEYOR MUST FILE A NEW MONUMENT RECORD FOR EACH POINT THAT WAS REPLACED.



N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\UTIL\REMOVAL PLAN.dwg 10/21/2016 8:26:34 AM

REVISION	DATE	DESCRIPTION	BY	DATE
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REVISION B	2016			
REVISION C	2016			
REVISION D	2016			

DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

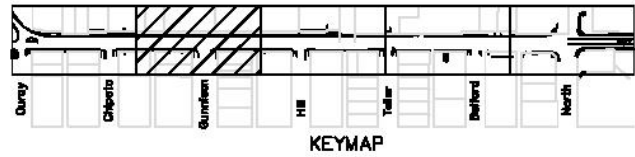
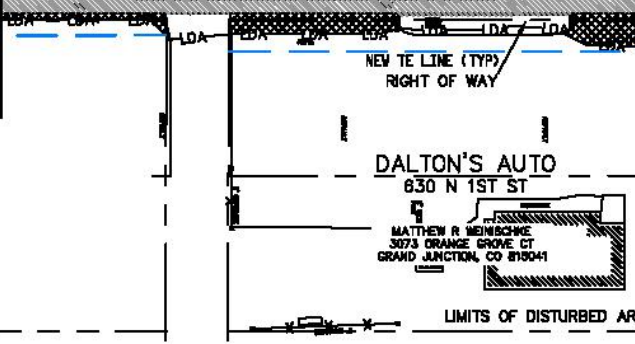
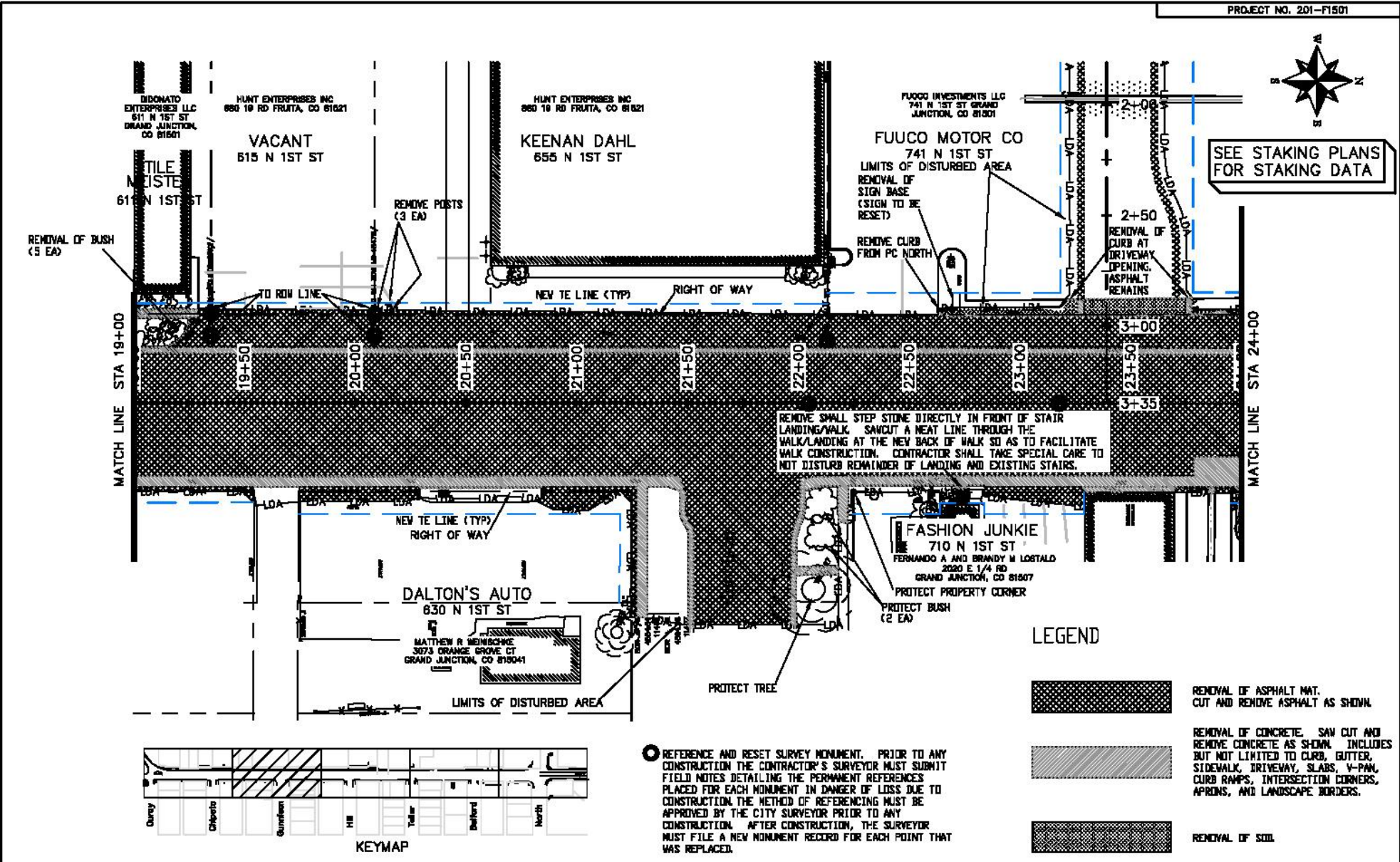


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION REMOVAL PLAN STA 14+00 TO STA 19+00



SEE STAKING PLANS FOR STAKING DATA



REMOVE SMALL STEP STONE DIRECTLY IN FRONT OF STAIR LANDING/WALK. SAWCUT A NEAT LINE THROUGH THE WALK/LANDING AT THE NEW BACK OF WALK SO AS TO FACILITATE WALK CONSTRUCTION. CONTRACTOR SHALL TAKE SPECIAL CARE TO NOT DISTURB REMAINDER OF LANDING AND EXISTING STAIRS.

LEGEND

- REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
- REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- REMOVAL OF SOIL.

○ REFERENCE AND RESET SURVEY MONUMENT. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR'S SURVEYOR MUST SUBMIT FIELD NOTES DETAILING THE PERMANENT REFERENCES PLACED FOR EACH MONUMENT IN DANGER OF LOSS DUE TO CONSTRUCTION. THE METHOD OF REFERENCING MUST BE APPROVED BY THE CITY SURVEYOR PRIOR TO ANY CONSTRUCTION. AFTER CONSTRUCTION, THE SURVEYOR MUST FILE A NEW MONUMENT RECORD FOR EACH POINT THAT WAS REPLACED.

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	CHECKED BY	DATE
REVISION A	SEE	2018	AKS	2018	AKS	2018
REVISION B	SEE	2018	AKS	2018	AKS	2018
REVISION C	SEE	2018	AKS	2018	AKS	2018
REVISION D	SEE	2018	AKS	2018	AKS	2018

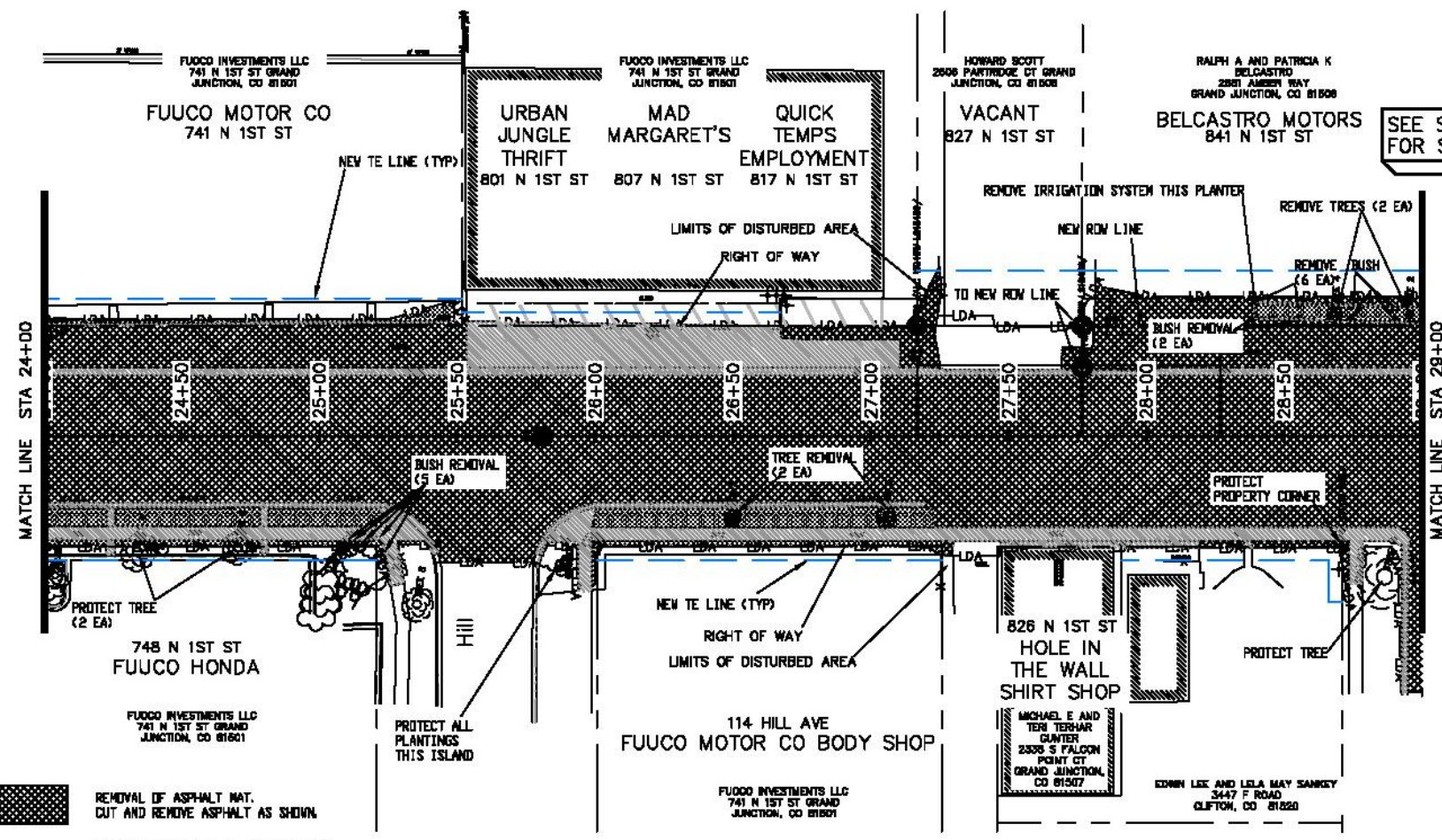



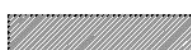

PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION REMOVAL PLAN STA 19+00 TO STA 24+00

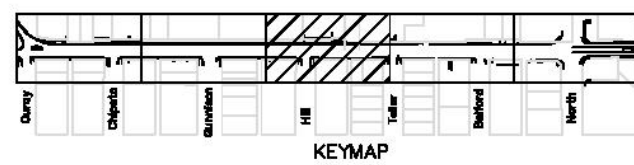


SEE STAKING PLANS FOR STAKING DATA



-  REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
-  REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
-  REMOVAL OF SOIL.

● REFERENCE AND RESET SURVEY MONUMENT. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR'S SURVEYOR MUST SUBMIT FIELD NOTES DETAILING THE PERMANENT REFERENCES PLACED FOR EACH MONUMENT IN DANGER OF LOSS DUE TO CONSTRUCTION. THE METHOD OF REFERENCING MUST BE APPROVED BY THE CITY SURVEYOR PRIOR TO ANY CONSTRUCTION. AFTER CONSTRUCTION, THE SURVEYOR MUST FILE A NEW MONUMENT RECORD FOR EACH POINT THAT WAS REPLACED.



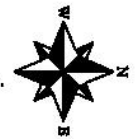
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	CHECKED BY	DATE
REVISION A	SEE	2018	ASB	2018	ASB	2018
REVISION B	SEE	2018	ASB	2018	ASB	2018
REVISION C	SEE	2018	ASB	2018	ASB	2018
REVISION D	SEE	2018	ASB	2018	ASB	2018



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION REMOVAL PLAN STA 24+00 TO STA 29+00

N:\Landmg\2018 1st Street Reconstruction (F1501)\DWG\UTILIZATION\REMOVAL PLAN.dwg, (3), 12/03/2018 9:09:32 AM



SEE STAKING PLANS FOR STAKING DATA

RALPH A AND PATRICIA K BELCASTRO
2891 AMBER WAY
GRAND JUNCTION, CO 81506
BELCASTRO MOTORS
841 N 1ST ST

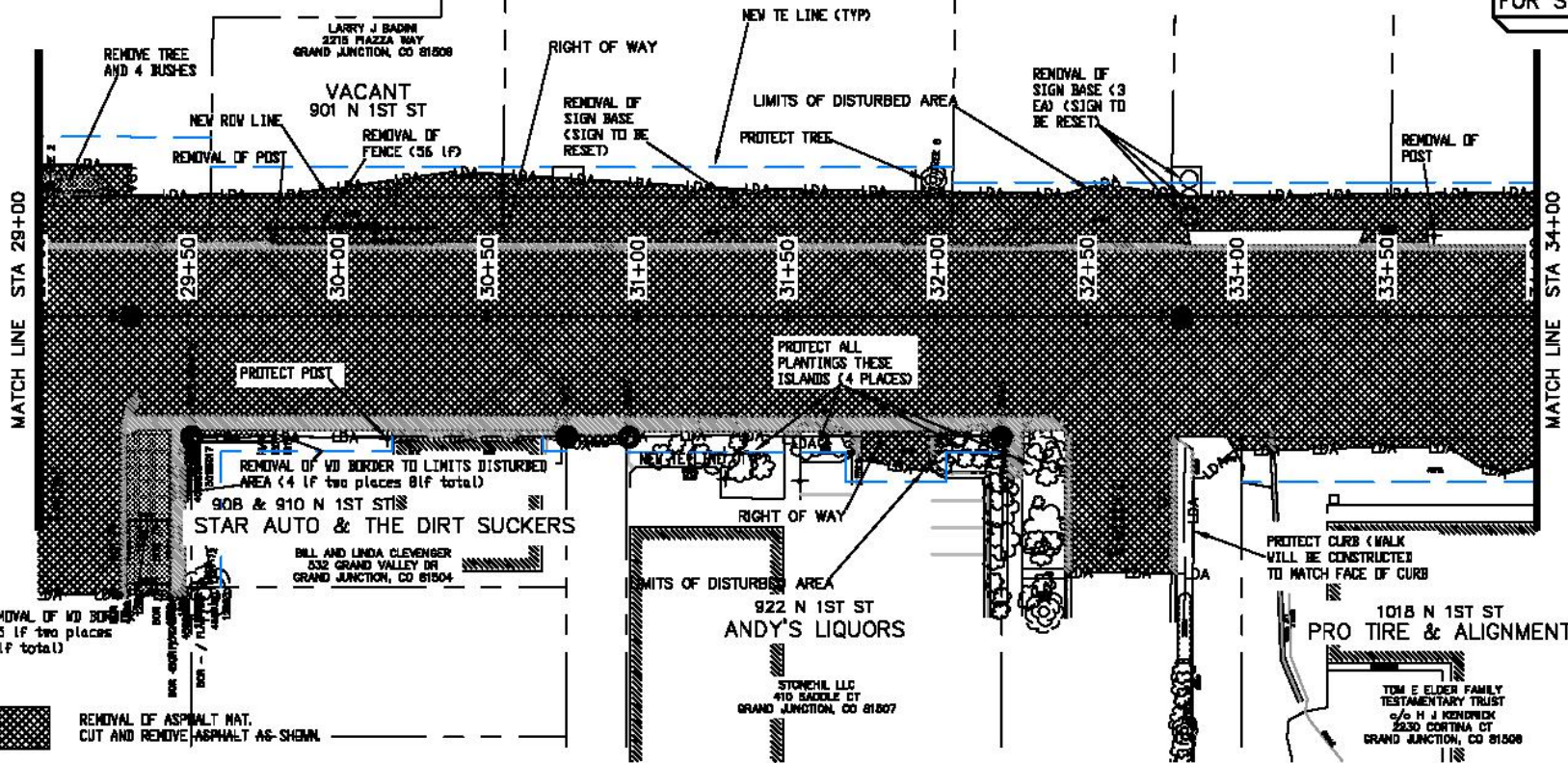
LARRY J BADINI
2815 PLAZZA WAY
GRAND JUNCTION, CO 81506
VACANT
901 N 1ST ST

BERTRAND & COMPANY
798 25 RD GRAND JUNCTION,
CO 81505

BERTRAND & COMPANY
798 25 RD GRAND JUNCTION,
CO 81505

BERTRAND & COMPANY
798 25 RD GRAND JUNCTION,
CO 81505

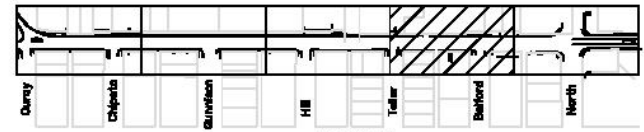
INTER MOUNTAIN AUTO SALES
835 N 1ST ST



LEGEND

- REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
- REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- REMOVAL OF SOG.
- REMOVAL OF MD BORDER (15 IF two places 30 IF total)
- PROTECT POST
- PROTECT ALL PLANTINGS THESE ISLANDS (4 PLACES)
- PROTECT CURB (WALK WILL BE CONSTRUCTED TO MATCH FACE OF CURB)

REFERENCE AND RESET SURVEY MONUMENT. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR'S SURVEYOR MUST SUBMIT FIELD NOTES DETAILING THE PERMANENT REFERENCES PLACED FOR EACH MONUMENT IN DANGER OF LOSS DUE TO CONSTRUCTION. THE METHOD OF REFERENCING MUST BE APPROVED BY THE CITY SURVEYOR PRIOR TO ANY CONSTRUCTION. AFTER CONSTRUCTION, THE SURVEYOR MUST FILE A NEW MONUMENT RECORD FOR EACH POINT THAT WAS REPLACED.



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	CHECKED BY	DATE
REVISION A	SEE	2018	AKB	2018	AKB	2018
REVISION B	SEE	2018	AKB	2018	AKB	2018
REVISION C	SEE	2018	AKB	2018	AKB	2018
REVISION D	SEE	2018	AKB	2018	AKB	2018



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION


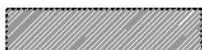

1ST STREET RECONSTRUCTION REMOVAL PLAN STA 29+00 TO STA 34+00

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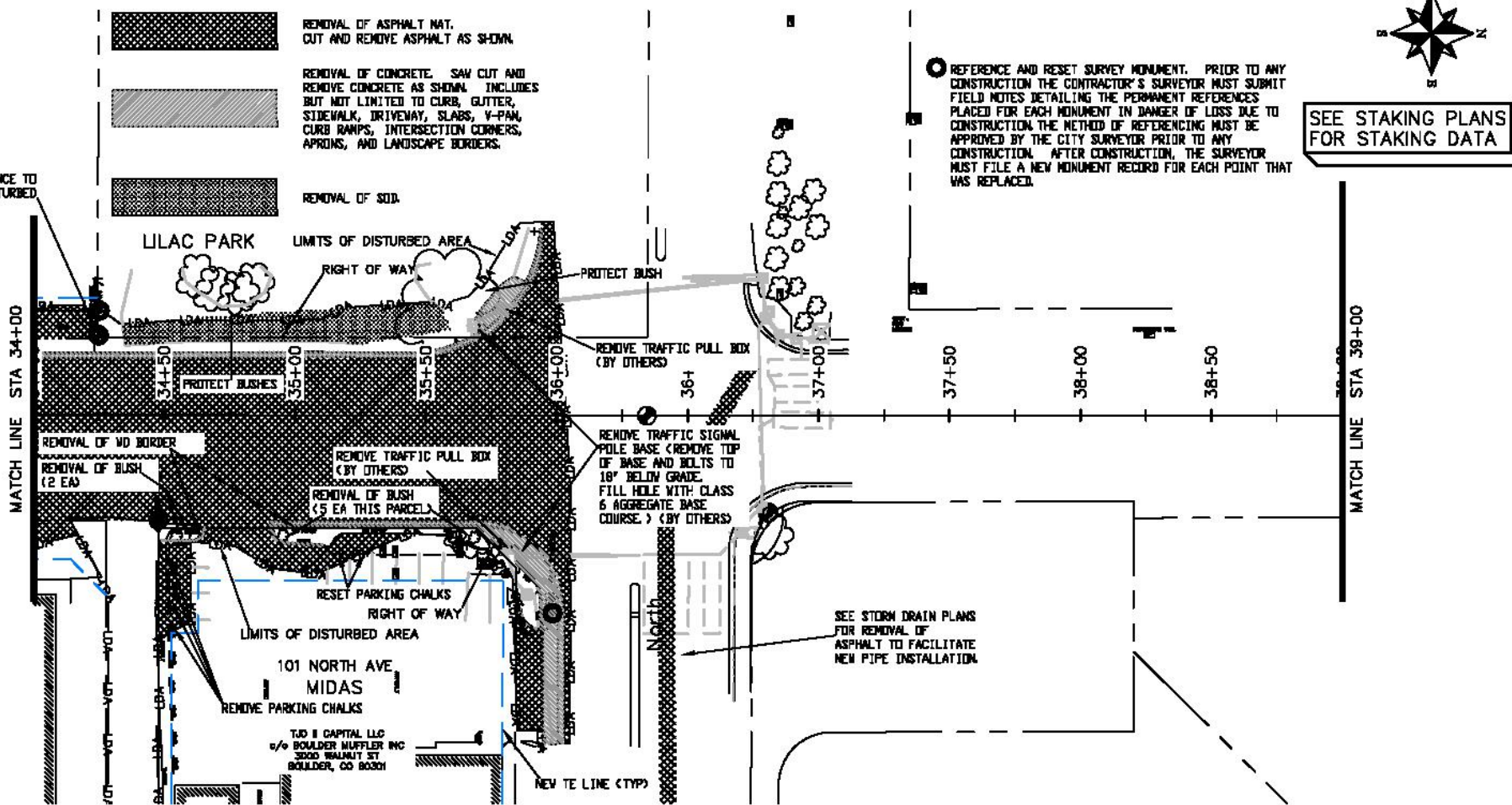


SEE STAKING PLANS FOR STAKING DATA

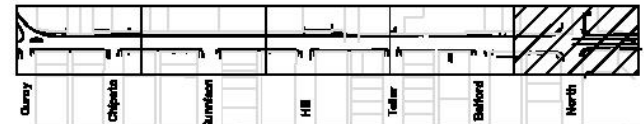
LEGEND

-  REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
-  REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
-  REMOVAL OF SOIL.

REMOVAL OF FENCE TO LIMITS OF DISTURBED AREA



SEE STORM DRAIN PLANS FOR REMOVAL OF ASPHALT TO FACILITATE NEW PIPE INSTALLATION



KEYMAP

N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\UTIL\REMOVAL PLAN.dwg, 7/19/2016 4:18:56 PM

REVISION	DATE	BY	DATE	DESCRIPTION
REVISION A	2016	ASB	2016	ISSUE FOR PERMIT
REVISION B	2016	ASB	2016	
REVISION C	2016	ASB	2016	
REVISION D	2016	ASB	2016	

DESIGNED BY	ASB	DATE	2016
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APPROVED BY	TCF	DATE	2016



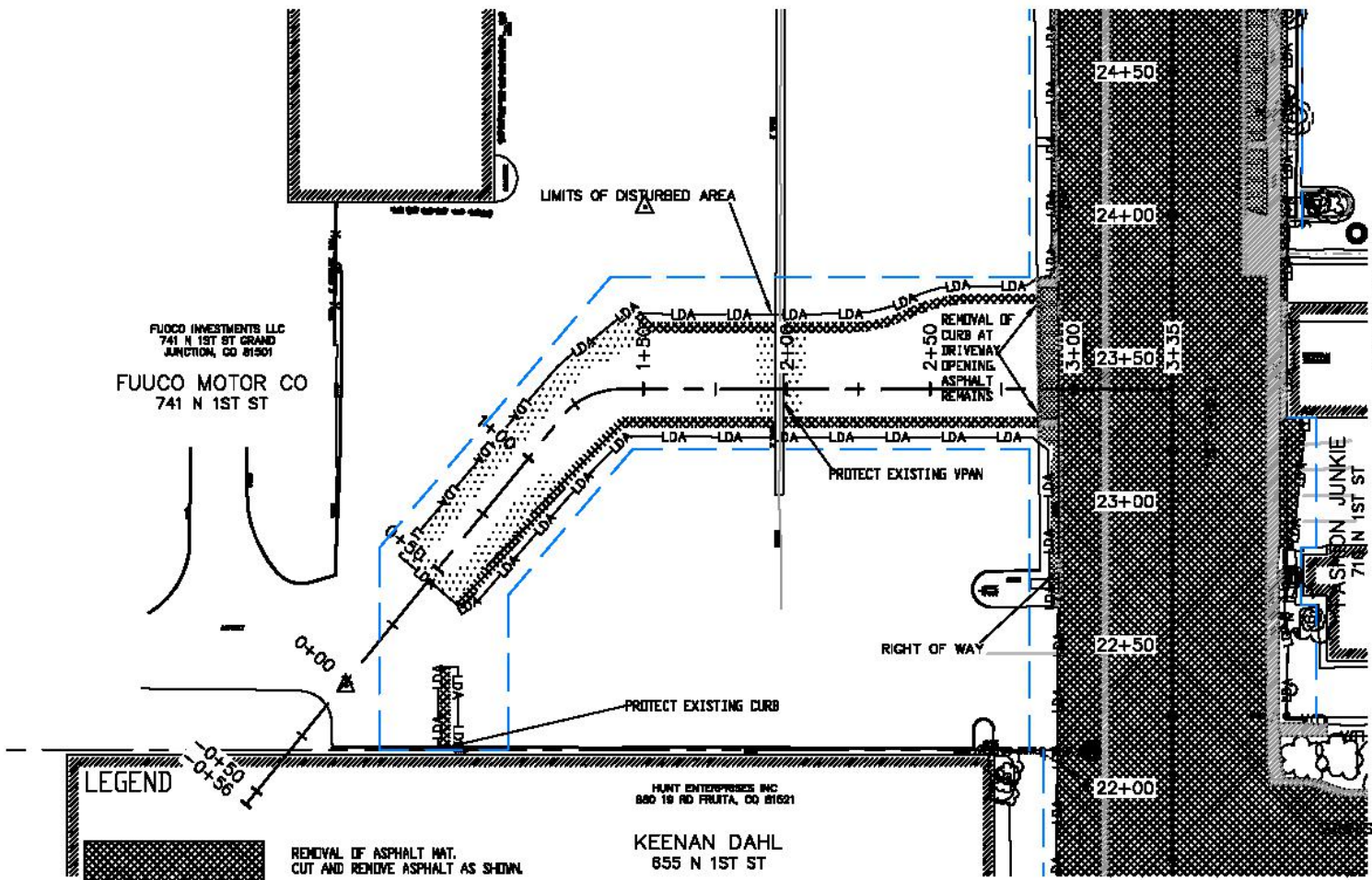
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

**1ST STREET RECONSTRUCTION REMOVAL PLAN
STA 34+00 TO STA 39+00**



SEE STAKING PLANS FOR STAKING DATA

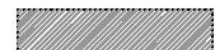
REFERENCE AND RESET SURVEY MONUMENT. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR'S SURVEYOR MUST SUBMIT FIELD NOTES DETAILING THE PERMANENT REFERENCES PLACED FOR EACH MONUMENT IN DANGER OF LOSS DUE TO CONSTRUCTION. THE METHOD OF REFERENCING MUST BE APPROVED BY THE CITY SURVEYOR PRIOR TO ANY CONSTRUCTION. AFTER CONSTRUCTION, THE SURVEYOR MUST FILE A NEW MONUMENT RECORD FOR EACH POINT THAT WAS REPLACED.



LEGEND



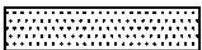
REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.



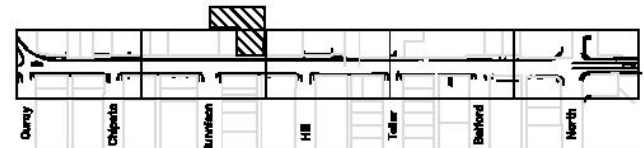
REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.



REMOVAL OF SOIL



EDGE MILL



KEYMAP

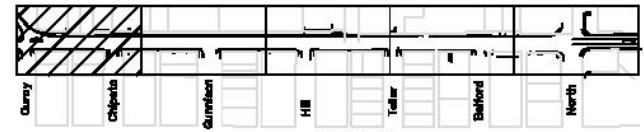
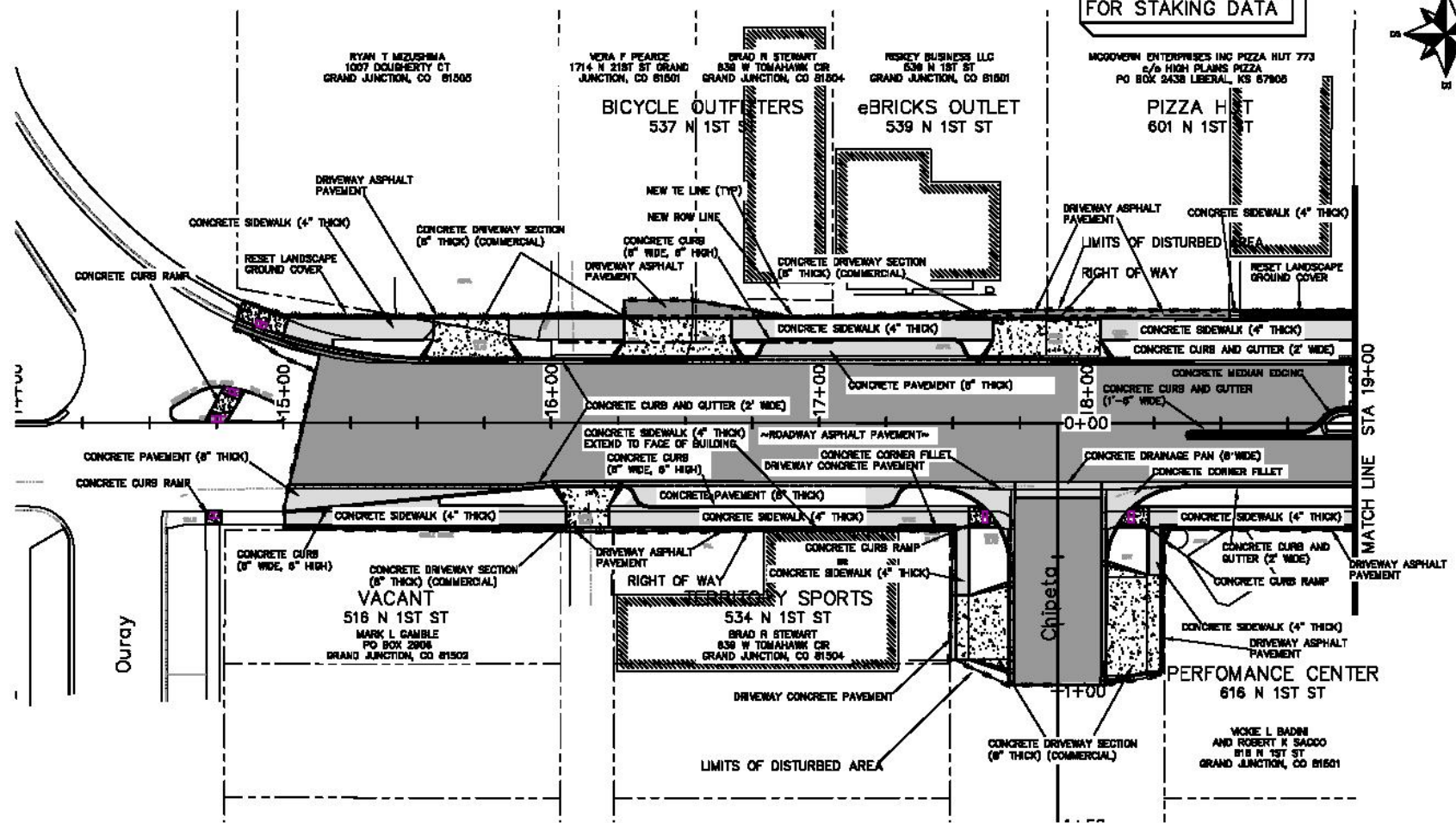
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REVISION B	2018		ASB	2018	ASB
REVISION C	2018		ASB	2018	ASB
REVISION D	2018		ASB	2018	ASB



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION REMOVAL PLAN FUOCO CADILLAC

SEE STAKING PLANS FOR STAKING DATA



KEYMAP

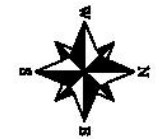
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REVISION D	2016		ASB	2016	ASB

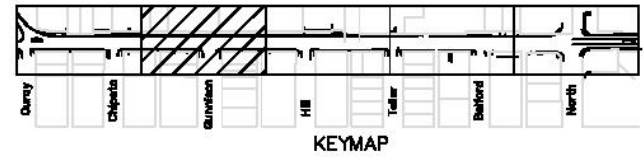
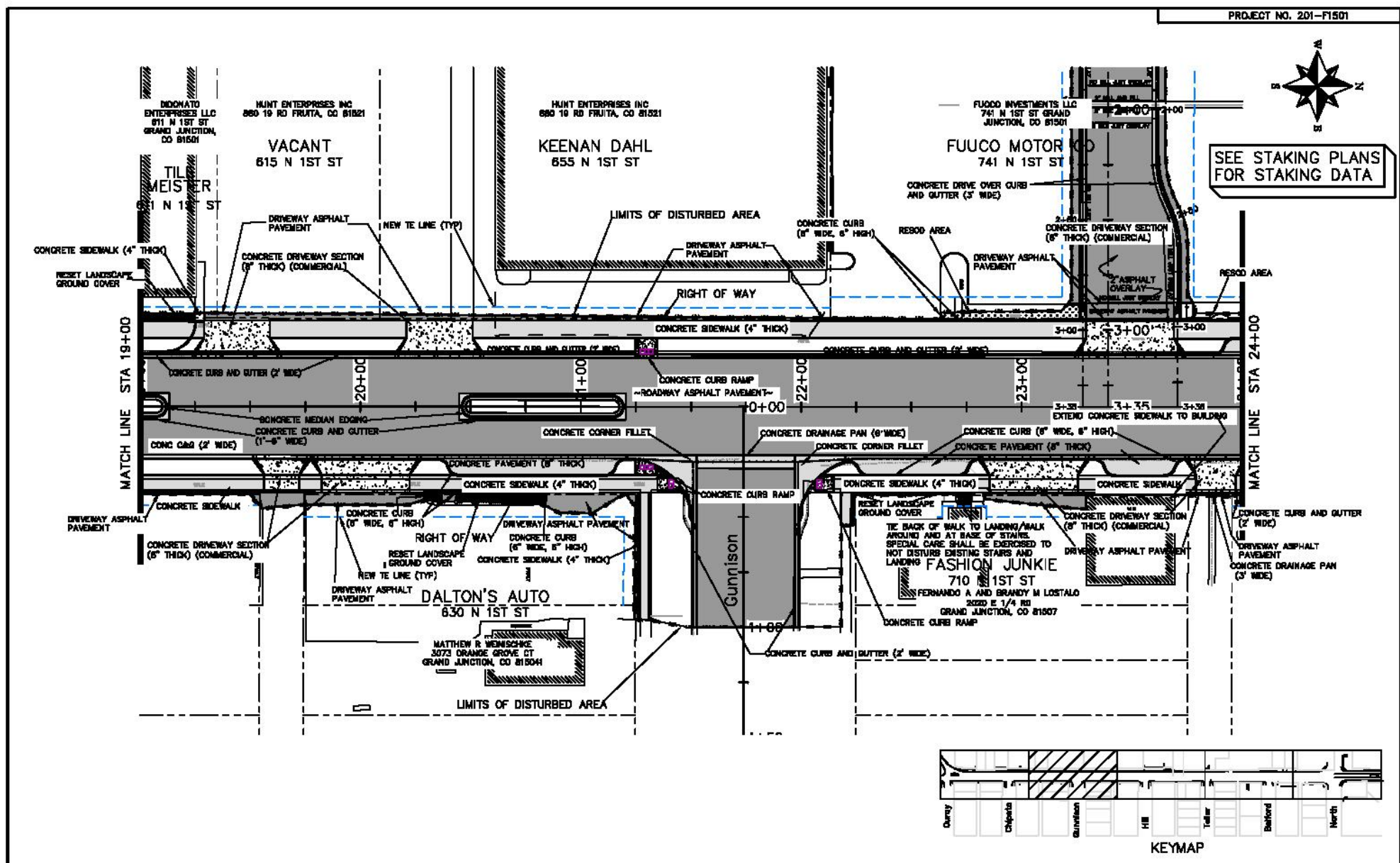
CITY OF **Grand Junction** COLORADO

PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION ROADWAY PLAN STA 14+00 TO STA 19+00



SEE STAKING PLANS FOR STAKING DATA



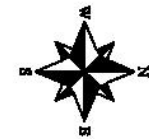
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
REVISION A	SEE	2018	AGB	2018	PLAN & PROFILE
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REVISION C	SEE	2018	CHECKED BY	2018	
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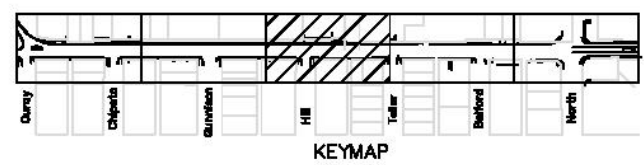
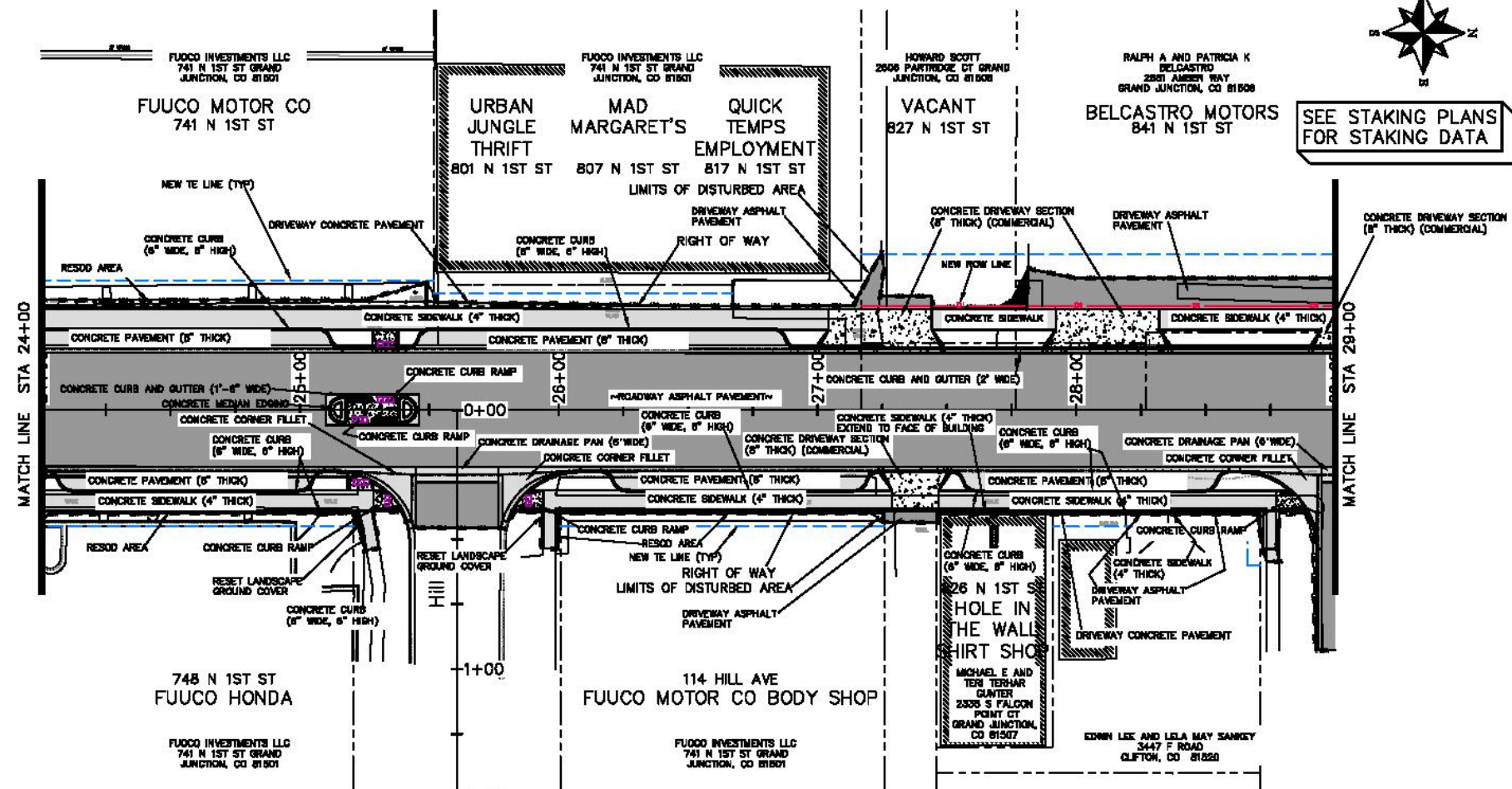
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION ROADWAY PLAN STA 19+00 TO STA 24+00

N:\Landscape\2018 1st Street Reconstruction (F1601)\DWG\1\UTILIZATION\ROADWAY PLAN.dwg, 02, 12/27/2018 5:16:08 PM



SEE STAKING PLANS FOR STAKING DATA



REVISION	DATE	DESCRIPTION	BY	DATE	APPROVED
REVISION A	2018				
REVISION B	2018				
REVISION C	2018				
REVISION D	2018				

CITY OF **Grand Junction** COLORADO

PLANNING & PUBLIC WORKS

PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION ROADWAY PLAN STA 24+00 TO STA 29+00

N:\Landproj\2018 1st Street Reconstruction (F1501)\DWG\PUBLICATION\ROADWAY PLAN.dwg, 003, 12/15/2018 9:23:43 AM



RALPH A AND PATRICIA K
BELCASTRO
2691 AMBER WAY
GRAND JUNCTION, CO 81506
BELCASTRO MOTORS
841 N 1ST ST

LARRY J BADINI
2515 PIAZZA WAY
GRAND JUNCTION, CO 81506
VACANT
901 N 1ST ST

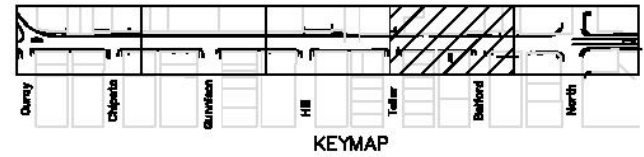
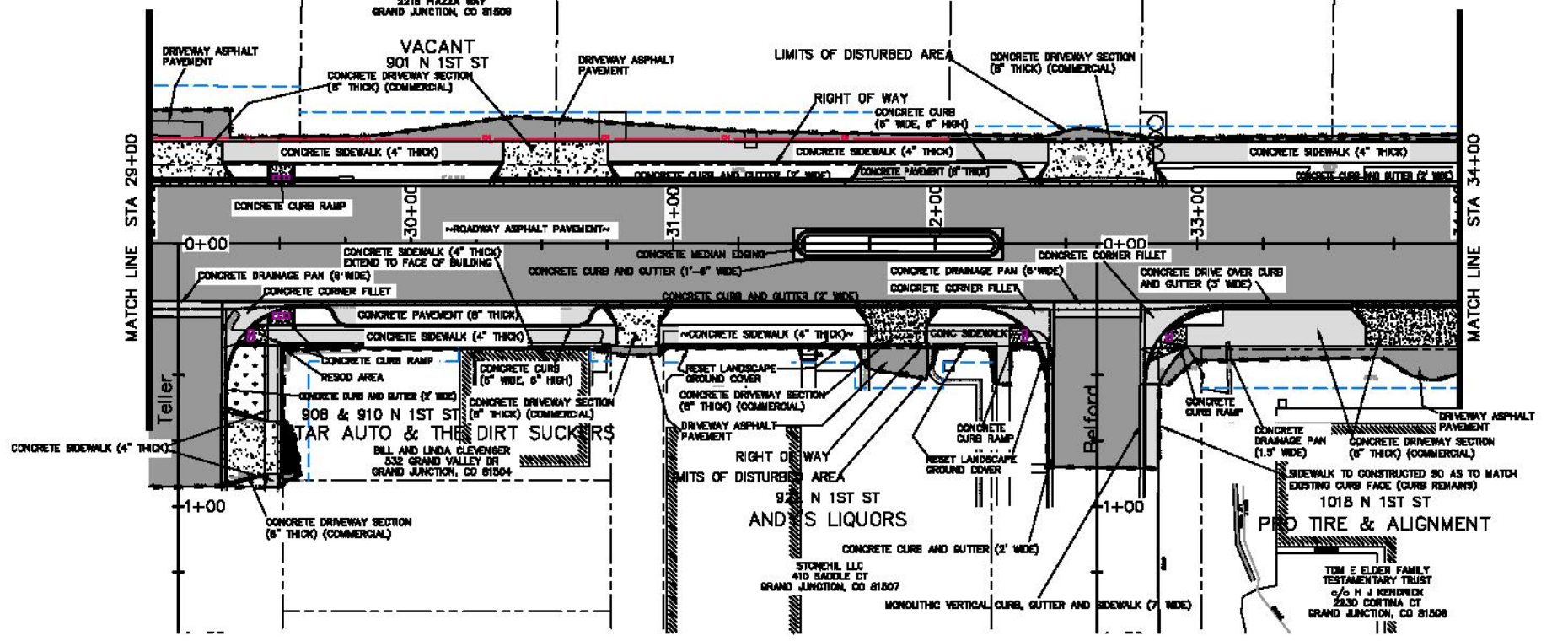
BERTRAND & COMPANY
795 25 RD GRAND JUNCTION,
CO 81506

BERTRAND & COMPANY
795 25 RD GRAND JUNCTION,
CO 81506

BERTRAND & COMPANY
795 25 RD GRAND JUNCTION,
CO 81506

INTER MOUNTAIN AUTO SALES
835 N 1ST ST

SEE STAKING PLANS
FOR STAKING DATA



REVISION	DATE	DESCRIPTION	BY	DATE
REVISION A	2018	ISSUE FOR PERMIT	AS	2018
REVISION B	2018	ISSUE FOR PERMIT	AS	2018
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**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

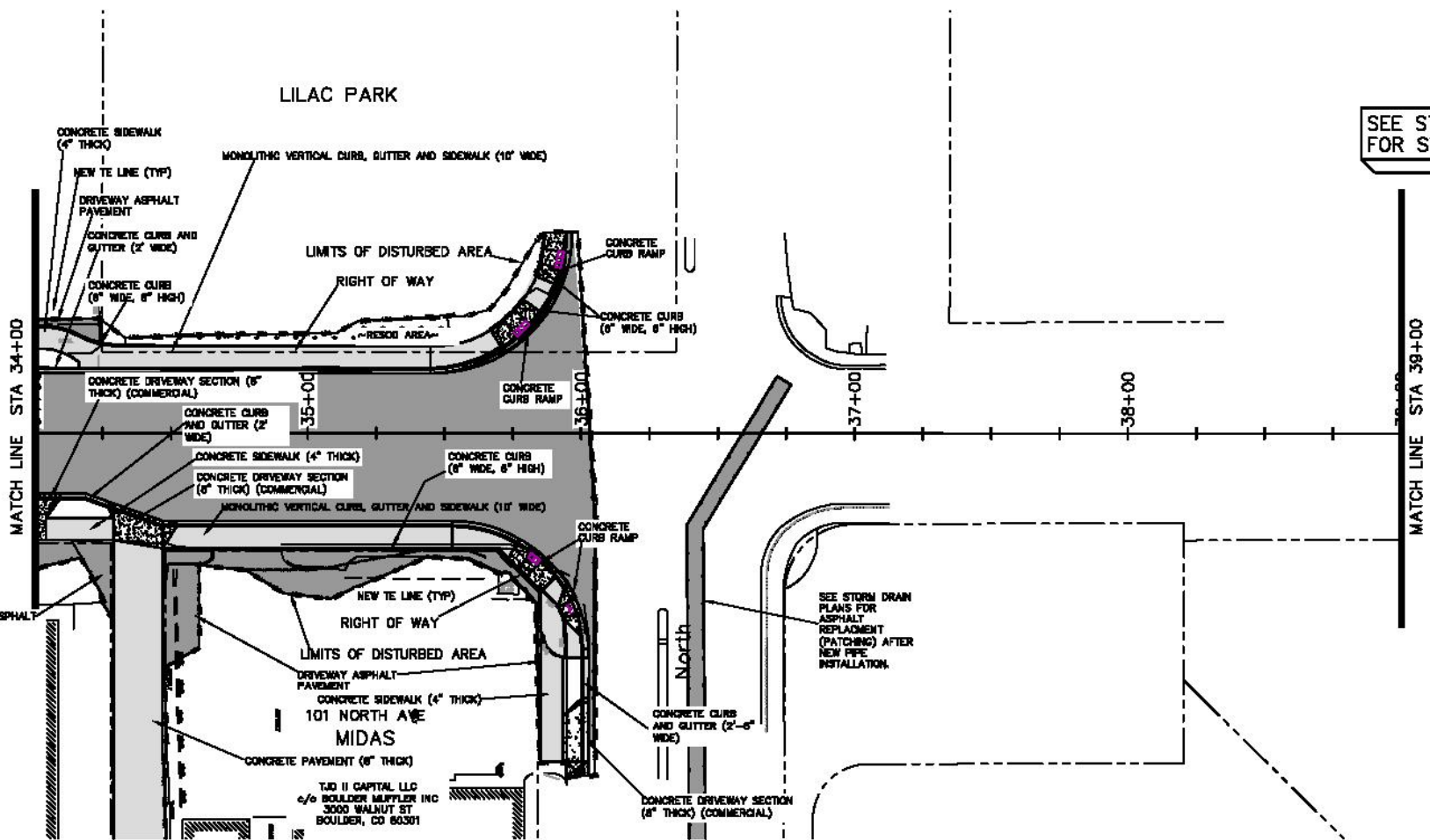
**1ST STREET RECONSTRUCTION
ROADWAY PLAN
STA 29+00 TO STA 34+00**

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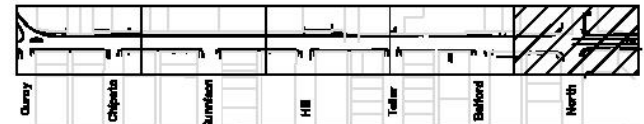
SEE STAKING PLANS FOR STAKING DATA

LILAC PARK



SEE STORM DRAIN PLANS FOR ASPHALT REPLACEMENT (PATCHING) AFTER NEW PIPE INSTALLATION.

TJO II CAPITAL LLC
c/o BOULDER MUFFLER INC
3000 WALNUT ST
BOULDER, CO 80301



KEYMAP

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DESIGNER	DATE
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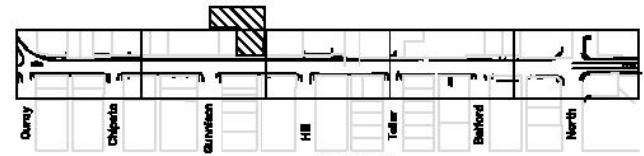
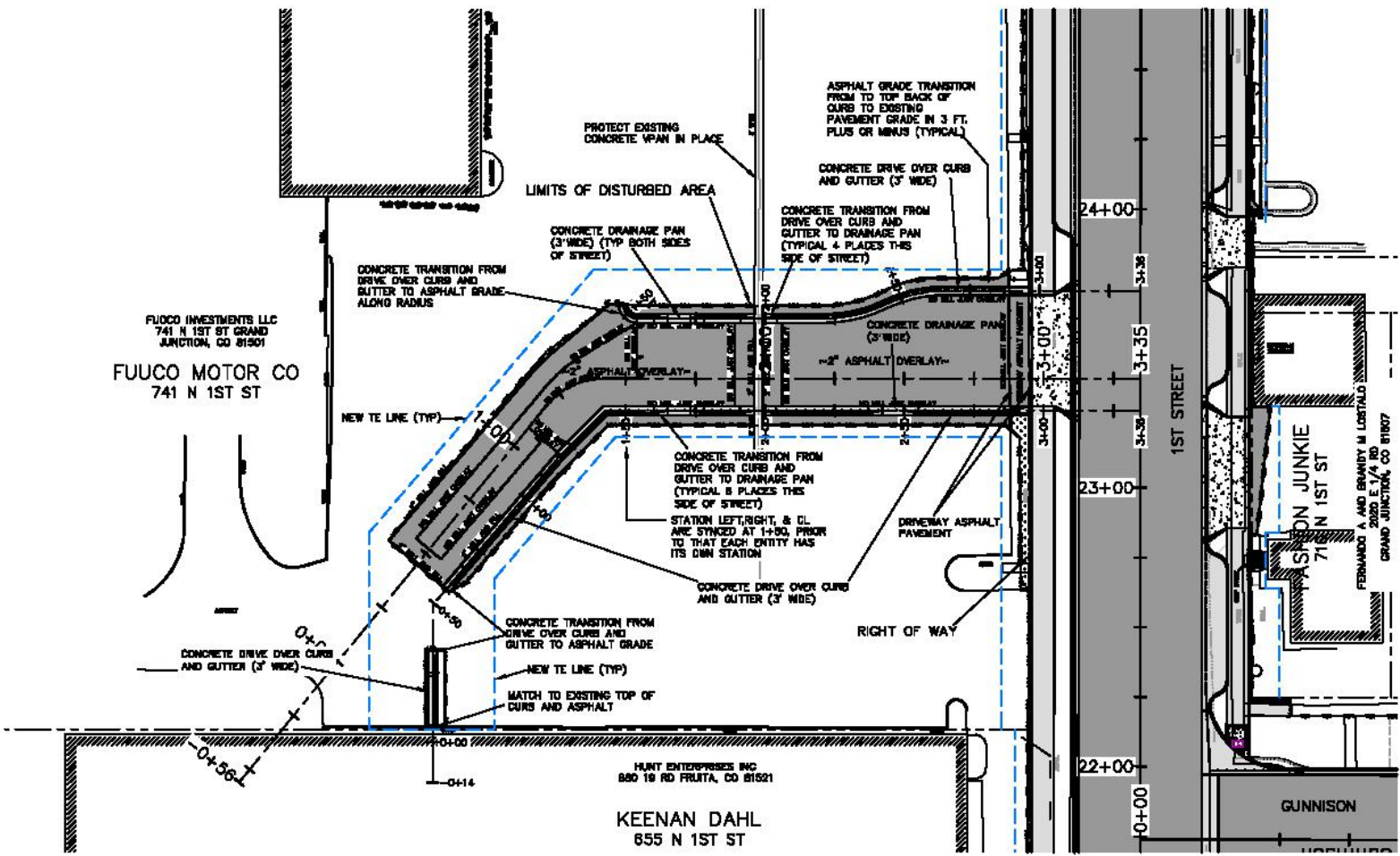
CITY OF
Grand Junction
COLORADO

**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PLAN
STA 34+00 TO STA 39+00**



SEE STAKING PLANS FOR STAKING DATA



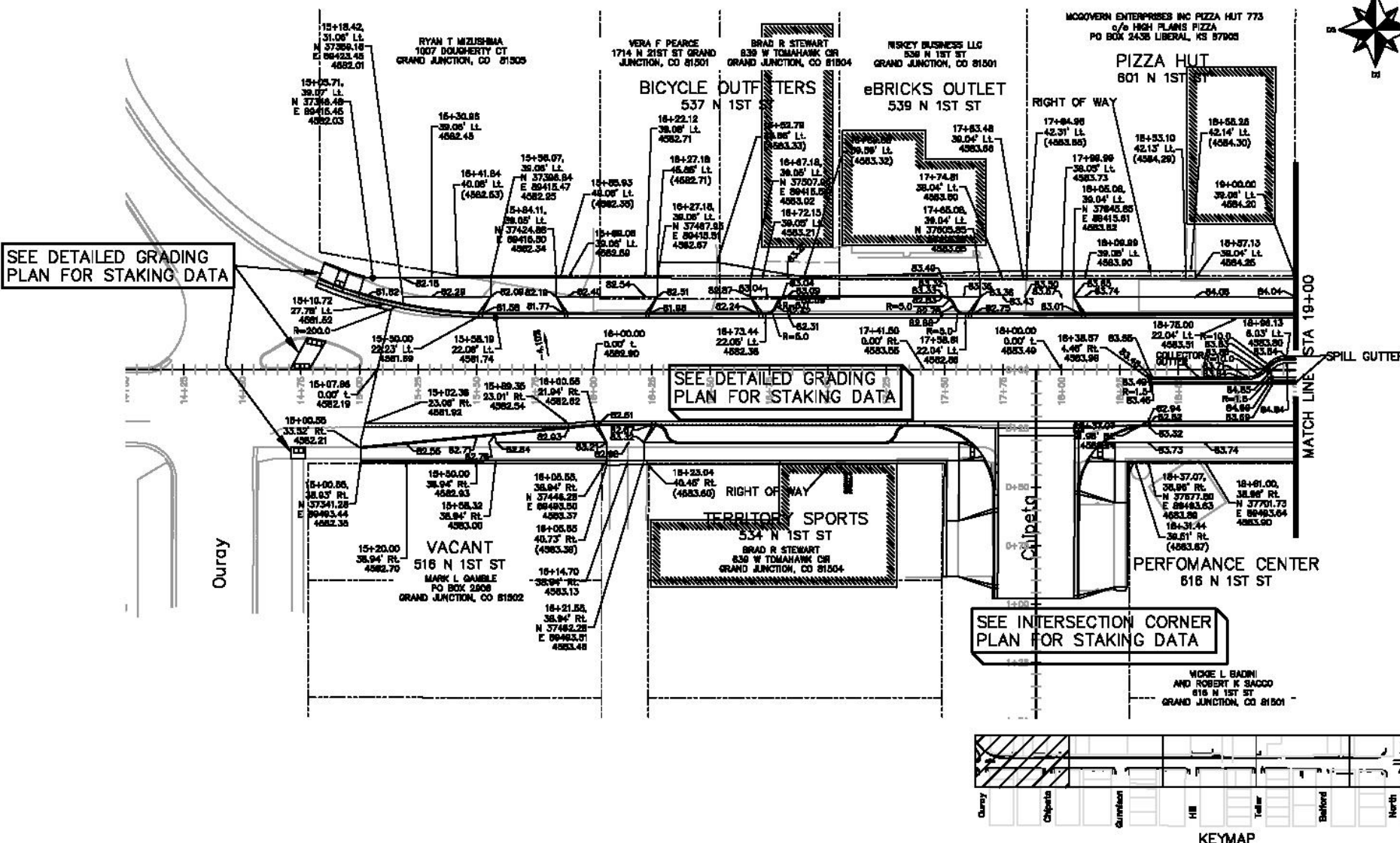
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CITY OF
Grand Junction
COLORADO

**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
DRIVEWAY PLAN
FUOCO CADILAC**



SEE DETAILED GRADING PLAN FOR STAKING DATA

SEE DETAILED GRADING PLAN FOR STAKING DATA

SEE INTERSECTION CORNER PLAN FOR STAKING DATA



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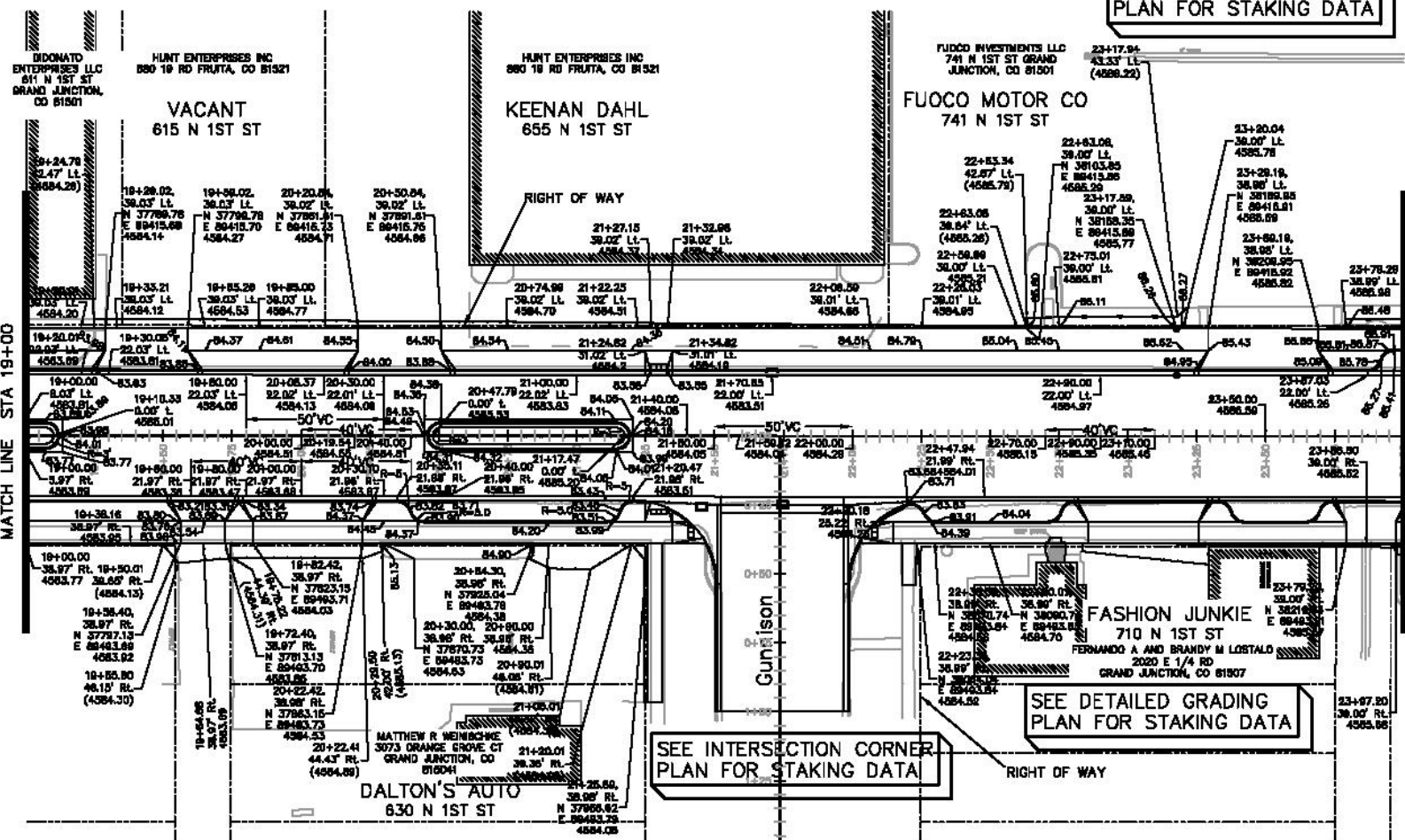
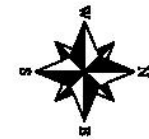
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PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

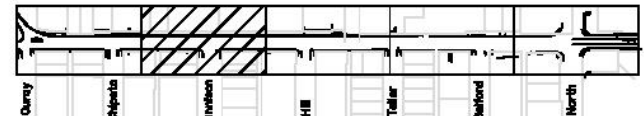
1ST STREET RECONSTRUCTION STAKING PLAN STA 14+00 TO STA 19+00

SEE DETAILED GRADING
PLAN FOR STAKING DATA



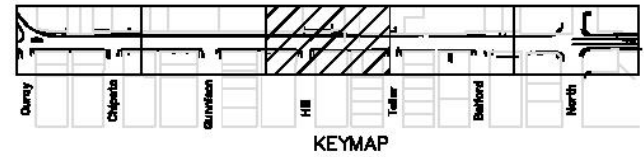
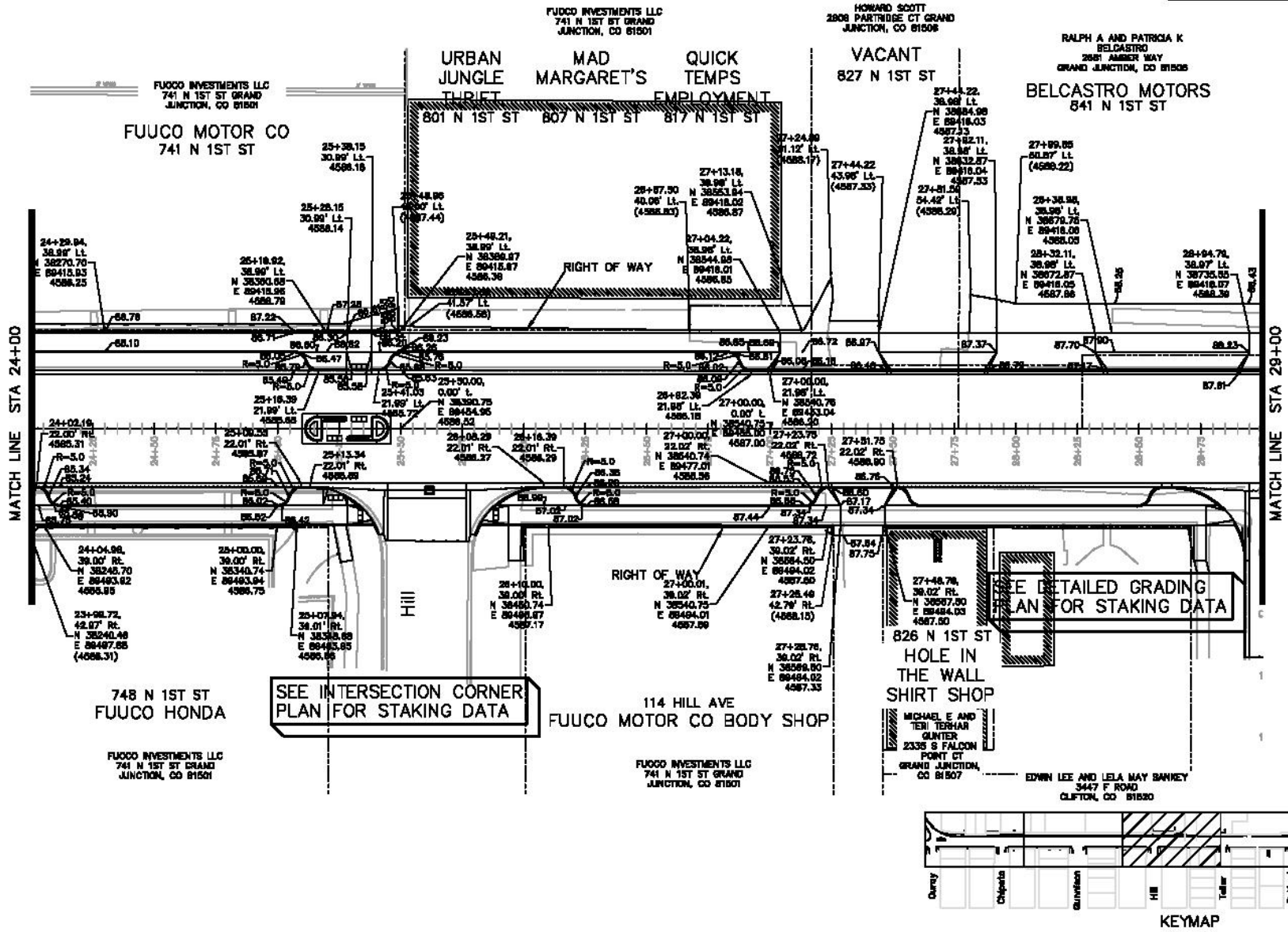
MATCH LINE STA 19+00

MATCH LINE STA 24+00



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REVISION	DATE	DESCRIPTION																																						
DATE	BY	DATE	DATE																																					



REVISION	DATE	DESCRIPTION	BY	DATE
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REVISION B	2018			
REVISION C	2018			
REVISION D	2018			

DIVISION BY: **ACE** DATE: **2018**
 DESIGNED BY: **JOSEAN** DATE: **2018**
 CHECKED BY: **SEP** DATE: **2018**
 APPROVED BY: **TCF** DATE: **2018**



**PUBLIC WORKS
 AND UTILITIES
 ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
 STAKING PLAN
 STA 24+00 TO STA 29+00**

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RALPH A AND PATRICIA K
BELCASTRO
2881 AMBER WAY
GRAND JUNCTION, CO 81508

LARRY J BADINI
2215 PLAZZA WAY
GRAND JUNCTION, CO 81505

BERTRAND & COMPANY
706 25 RD GRAND JUNCTION,
CO 81505

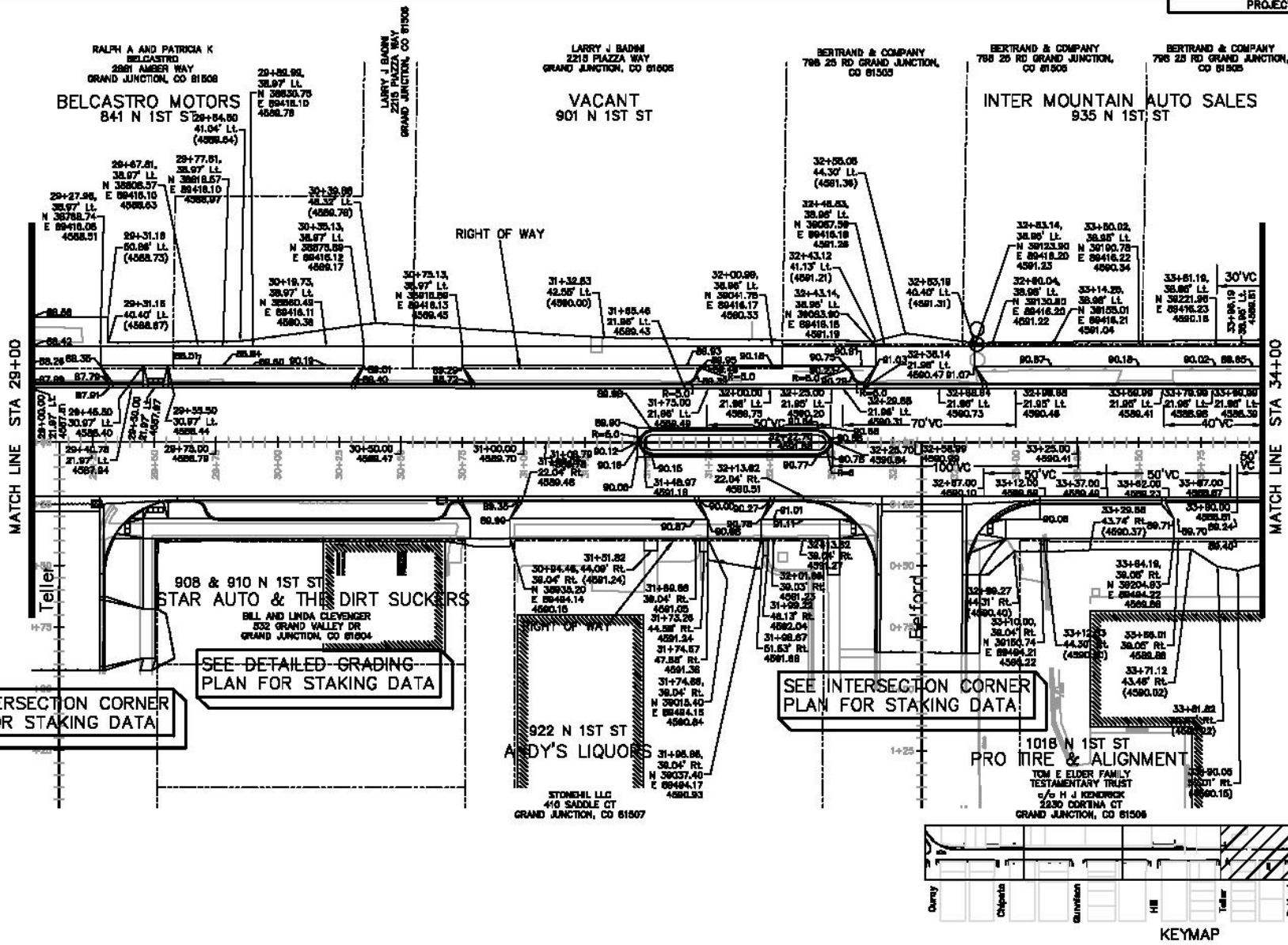
BERTRAND & COMPANY
706 25 RD GRAND JUNCTION,
CO 81505

BERTRAND & COMPANY
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CO 81505

INTER MOUNTAIN AUTO SALES
935 N 1ST ST

BELCASTRO MOTORS
841 N 1ST ST

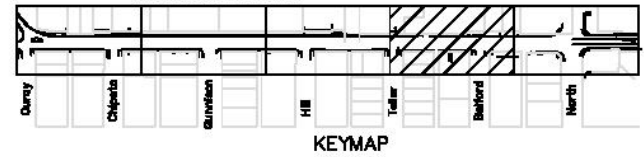
VACANT
901 N 1ST ST



SEE INTERSECTION CORNER
PLAN FOR STAKING DATA

SEE DETAILED GRADING
PLAN FOR STAKING DATA

SEE INTERSECTION CORNER
PLAN FOR STAKING DATA



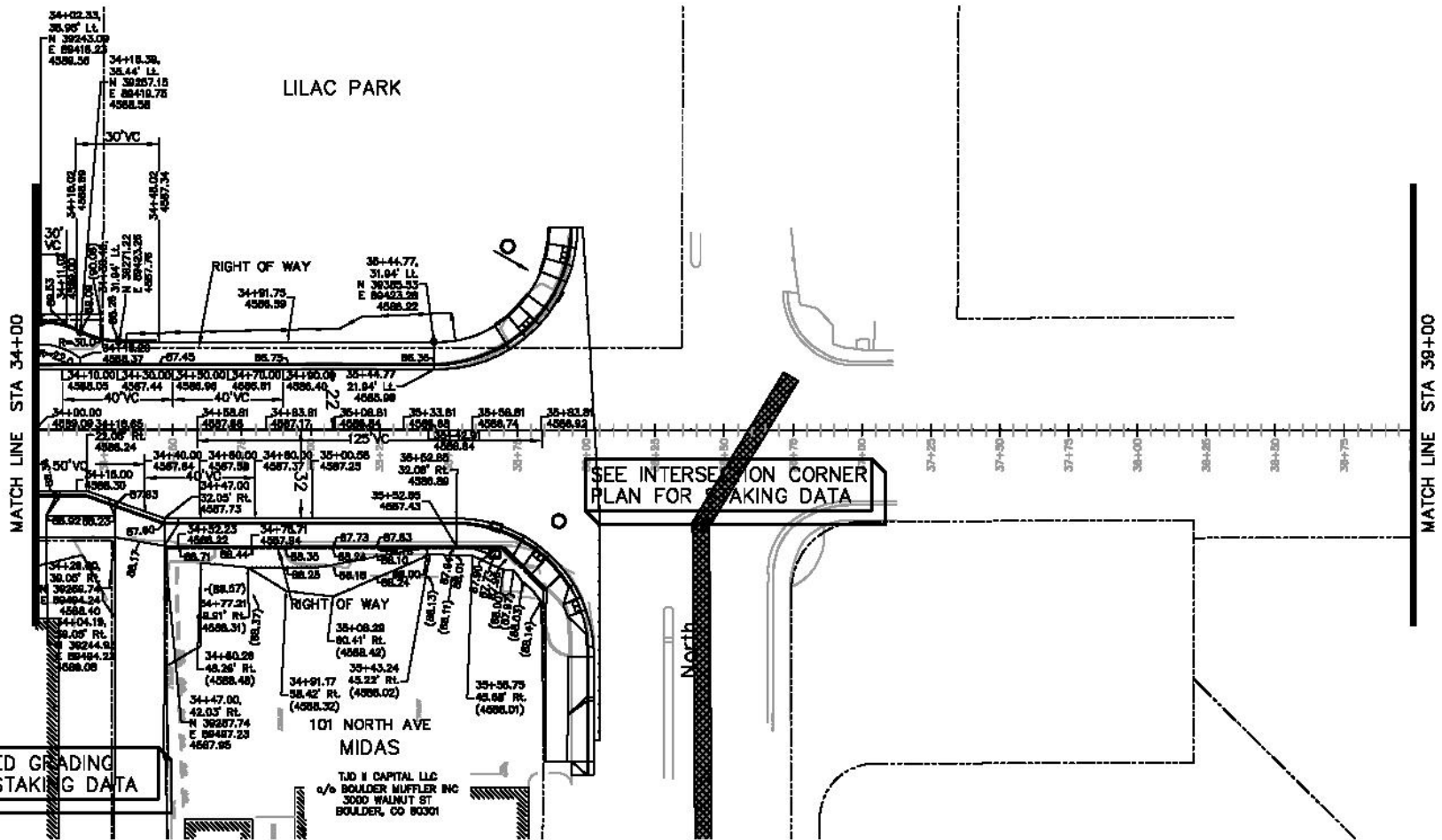
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**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

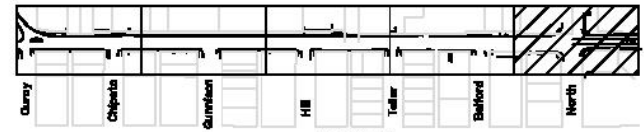
**1ST STREET RECONSTRUCTION
STAKING PLAN
STA 29+00 TO STA 34+00**

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SEE INTERSECTION CORNER
PLAN FOR STAKING DATA

SEE DETAILED GRADING
PLAN FOR STAKING DATA



KEYMAP

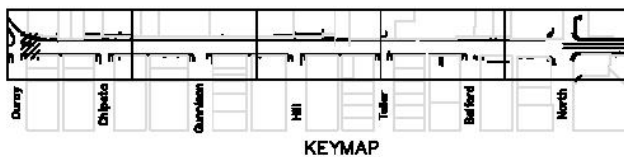
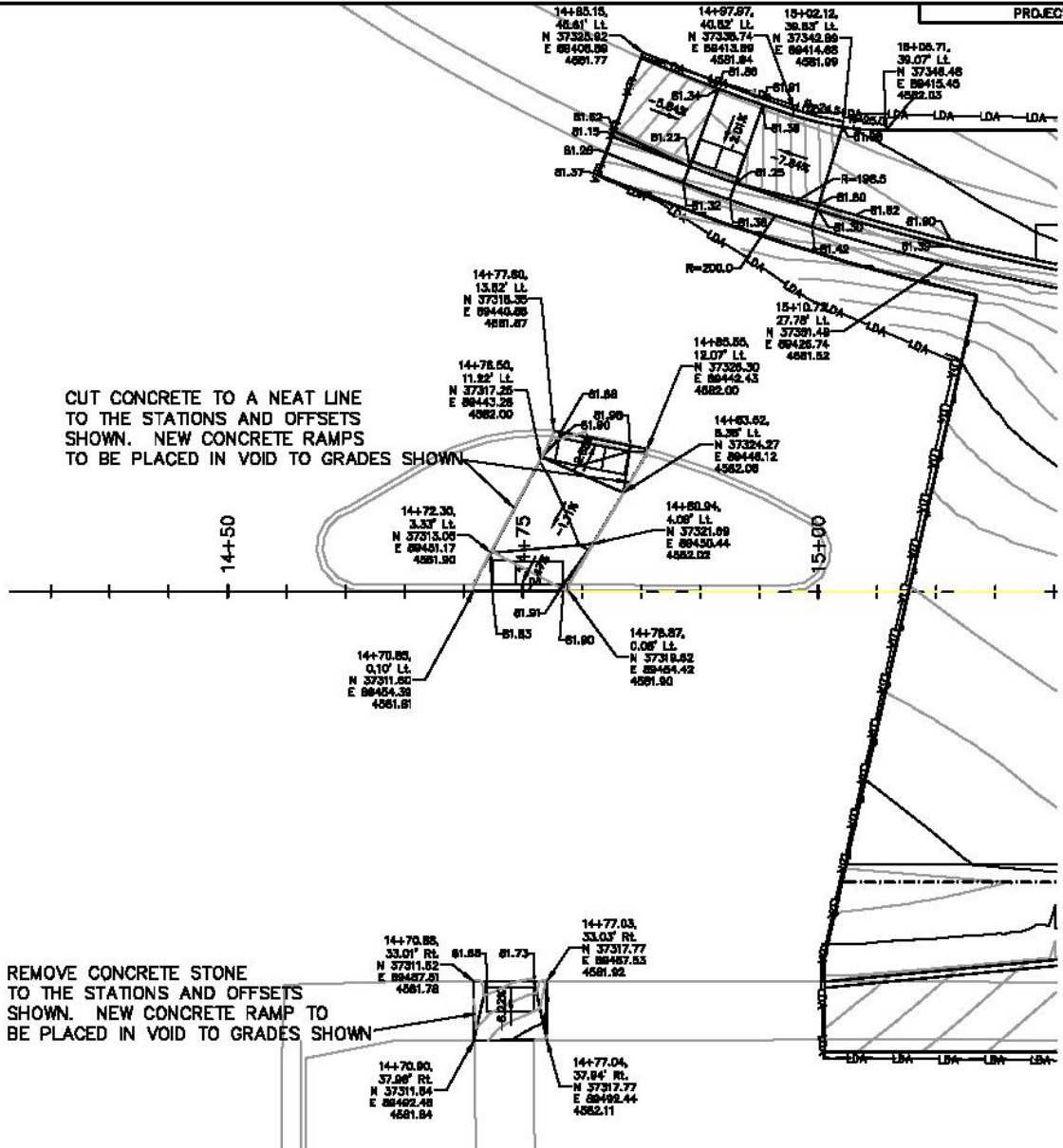
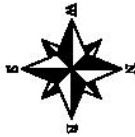
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**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
STAKING PLAN
STA 34+00 TO STA 39+00**



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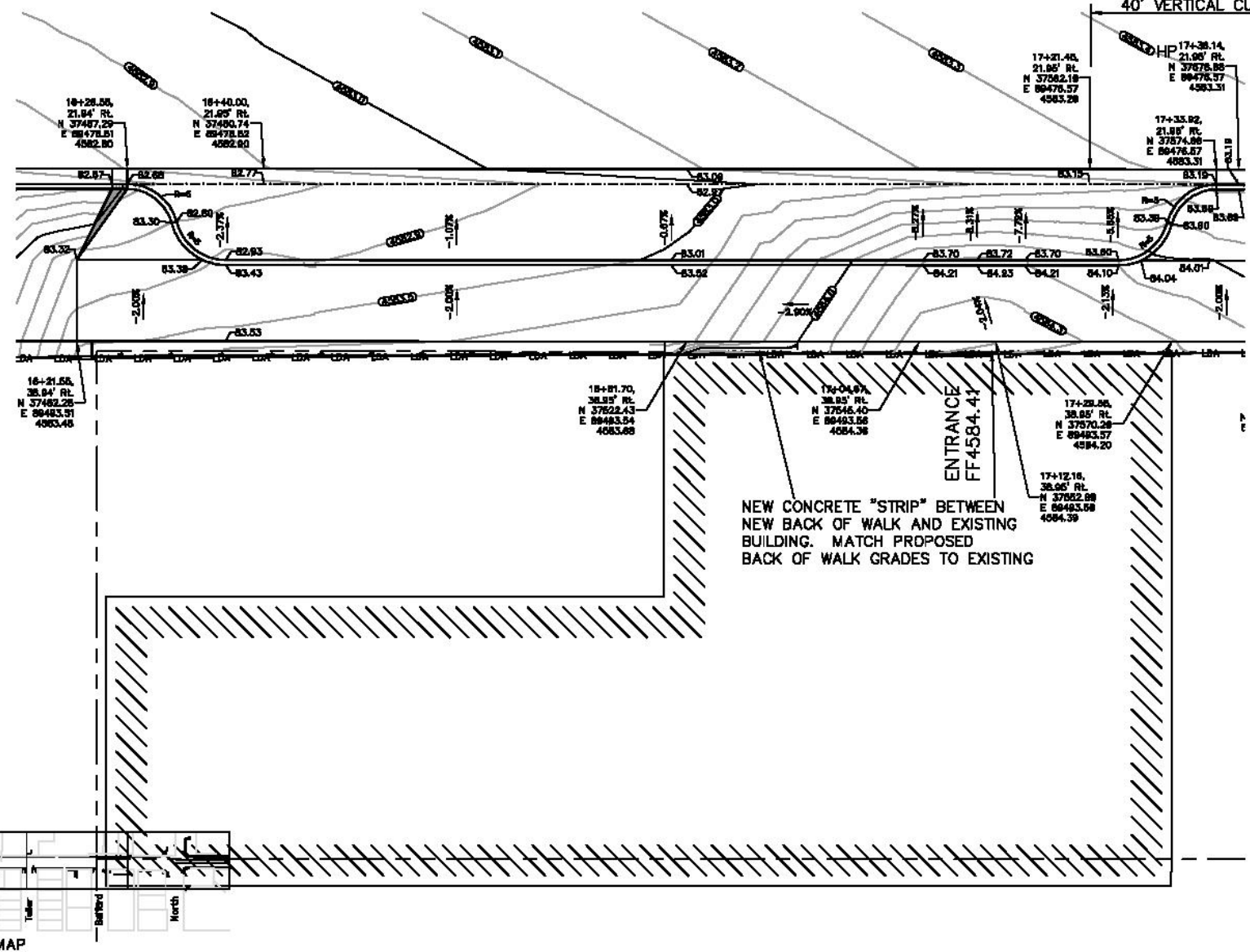
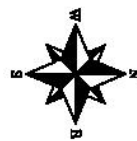
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**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

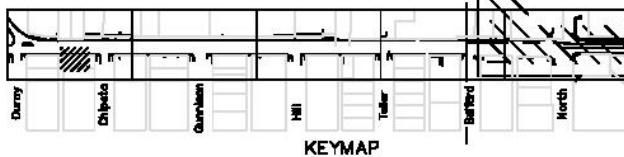
**1ST STREET RECONSTRUCTION
DETAILED GRADING PLAN
PEDESTRIAN CROSSING AT OURAY**



NEW CONCRETE "STRIP" BETWEEN
NEW BACK OF WALK AND EXISTING
BUILDING. MATCH PROPOSED
BACK OF WALK GRADES TO EXISTING

ENTRANCE
FF 4584.41

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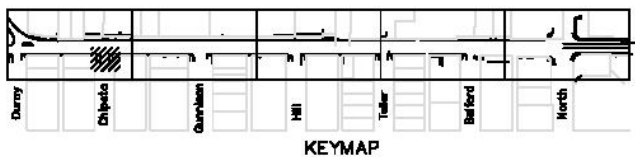
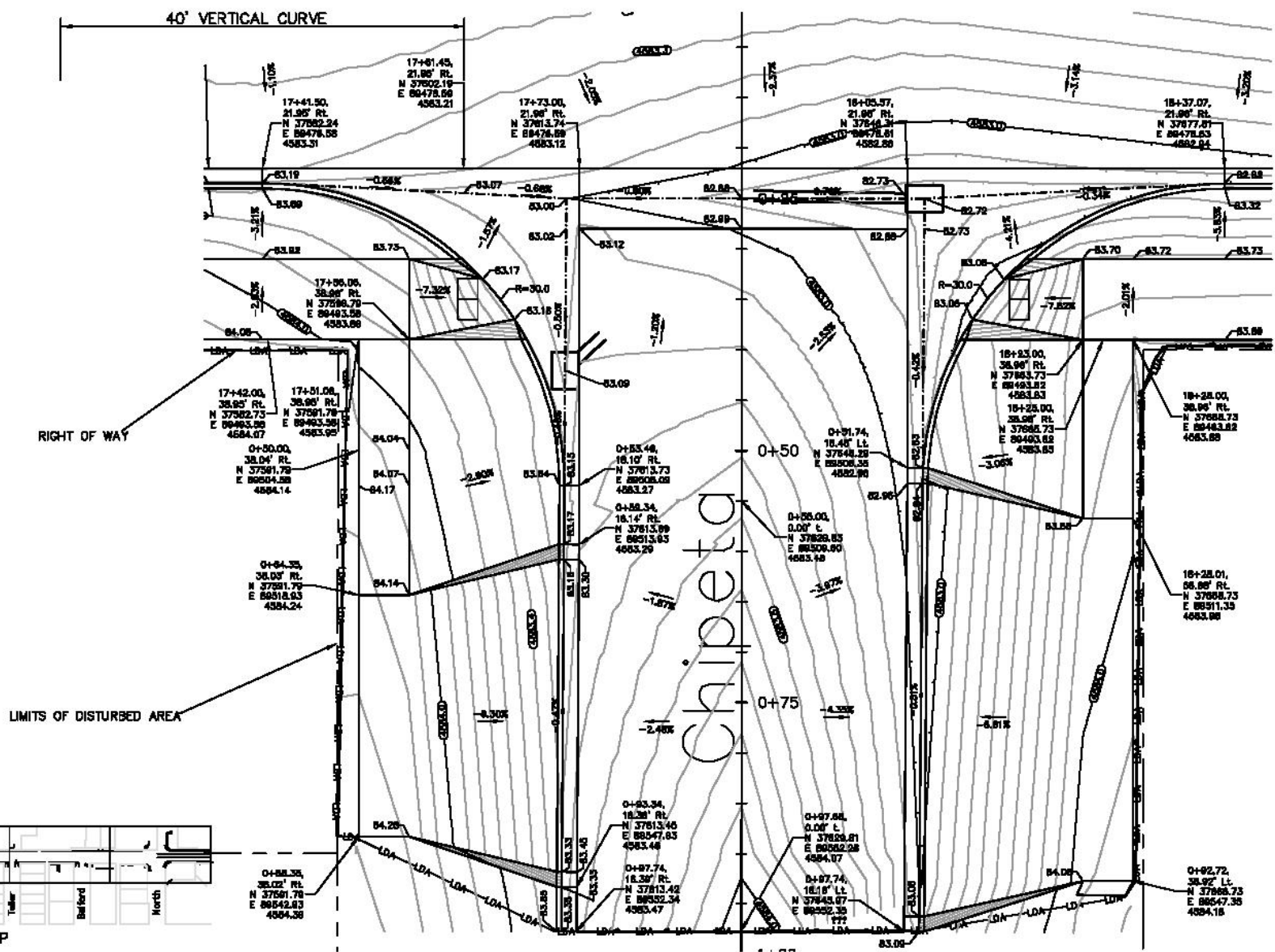
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**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
DETAILED GRADING PLAN
TERRITORY SPORTS FRONT**



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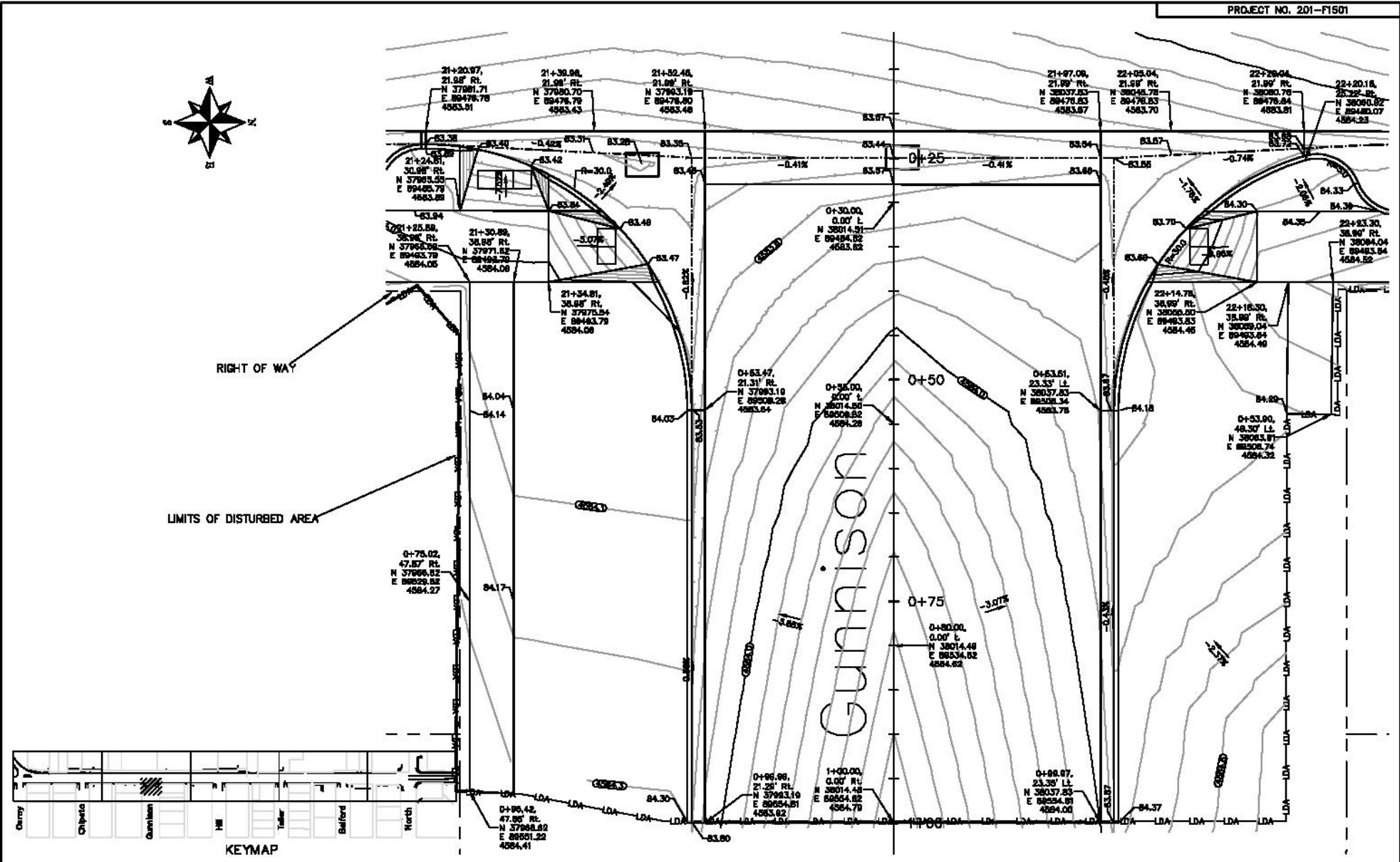
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DESIGNED BY	ASB	DATE	2016
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**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
INTERSECTION PLAN
1ST STREET AND CHIPETA**



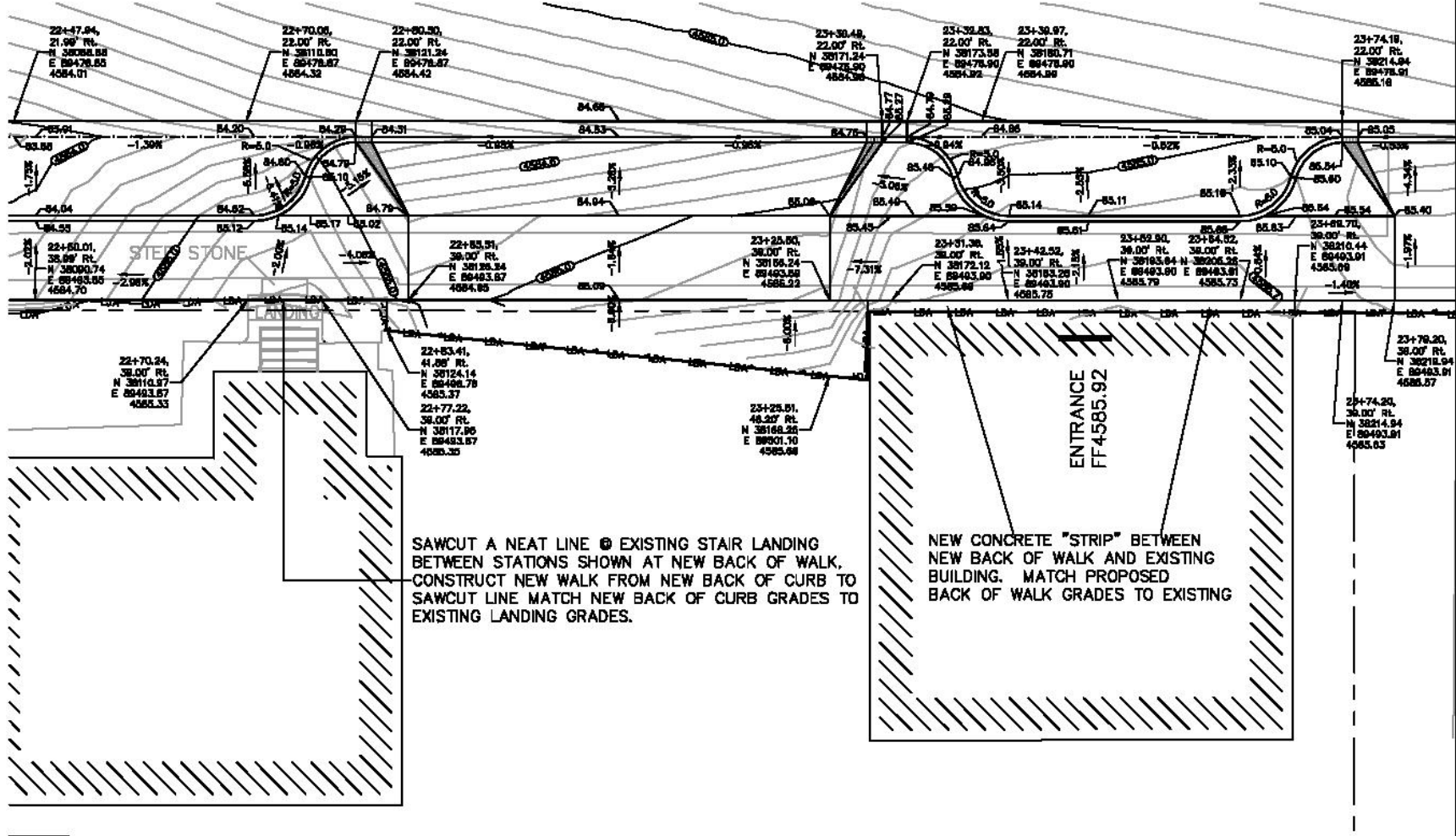
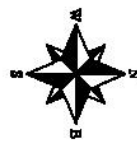
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CITY OF
Grand Junction
COLORADO

**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

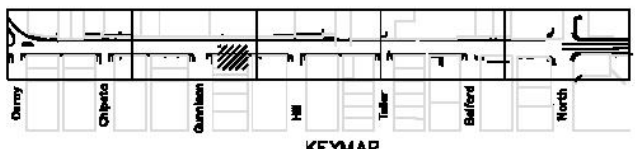
**1ST STREET RECONSTRUCTION
INTERSECTION PLAN
1ST STREET AND GUNNISON**

N:\Landproj\2018 1st Street Reconstruction (F1501)\DWG\UTILIZATION\INTERSECTION PLANS.dwg, 04 gummy, 11/03/2018 6:28:01 AM



SAWCUT A NEAT LINE @ EXISTING STAIR LANDING BETWEEN STATIONS SHOWN AT NEW BACK OF WALK. CONSTRUCT NEW WALK FROM NEW BACK OF CURB TO SAWCUT LINE MATCH NEW BACK OF CURB GRADES TO EXISTING LANDING GRADES.

NEW CONCRETE "STRIP" BETWEEN NEW BACK OF WALK AND EXISTING BUILDING. MATCH PROPOSED BACK OF WALK GRADES TO EXISTING

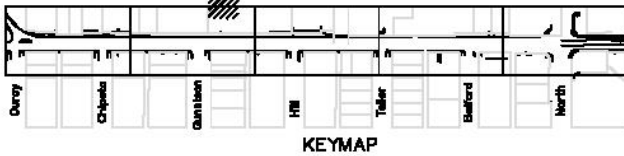
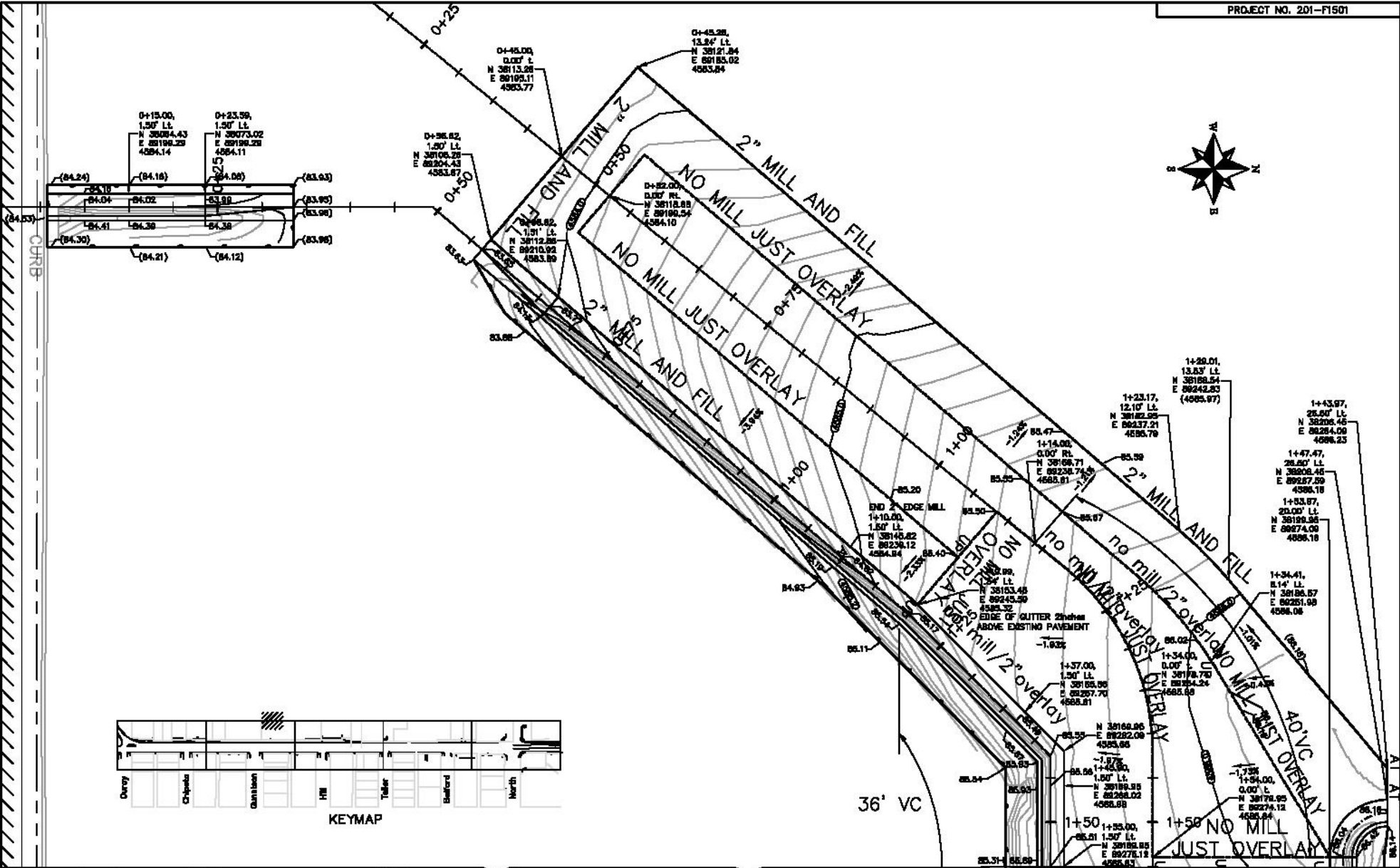


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PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

**1ST STREET RECONSTRUCTION
DETAILED GRADING PLAN
FAHSON JUNKIE FRONT**



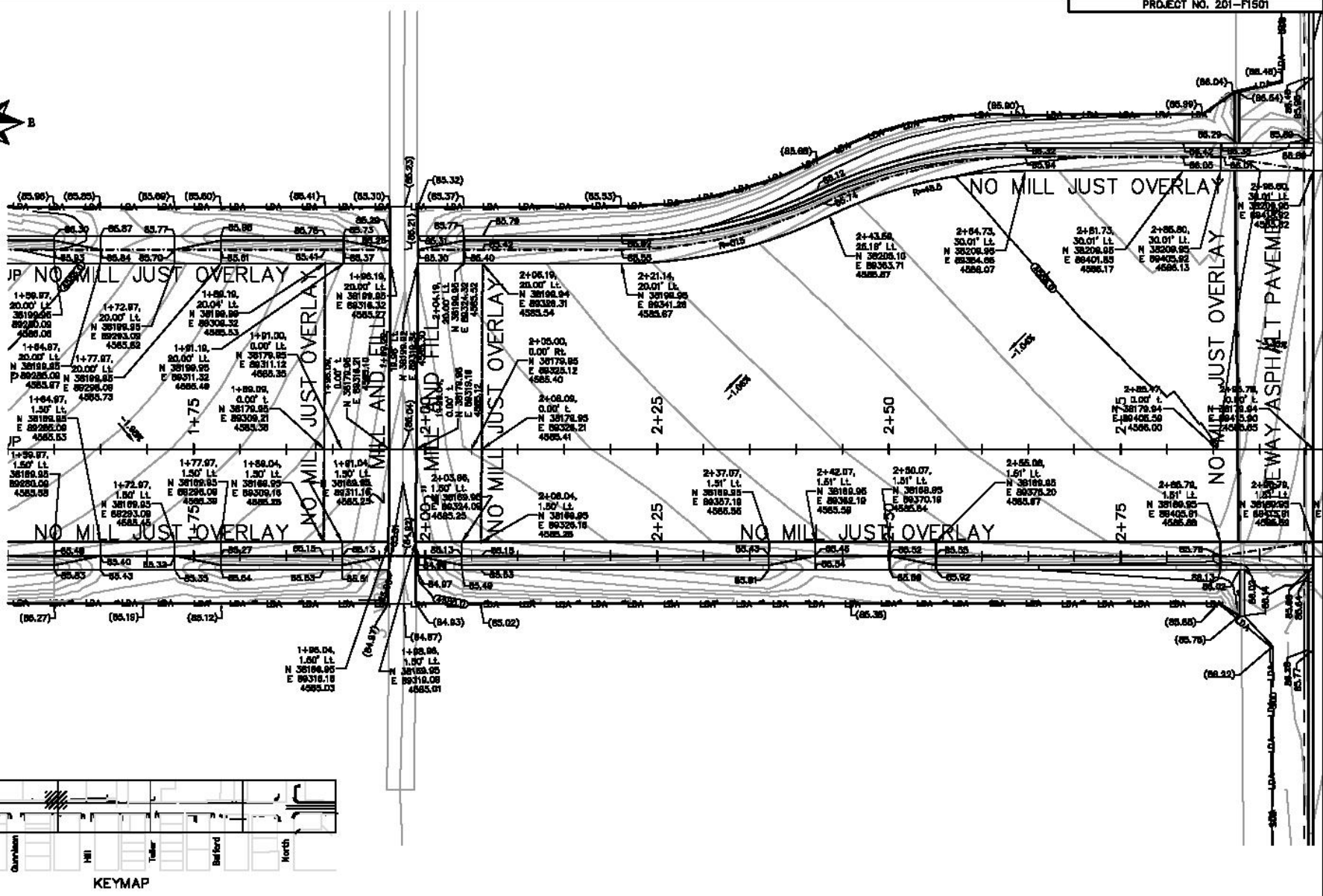
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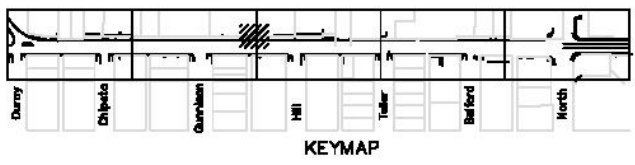
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
DETAILED GRADING PLAN
FUOCO DRIVEWAY SOUTH END**

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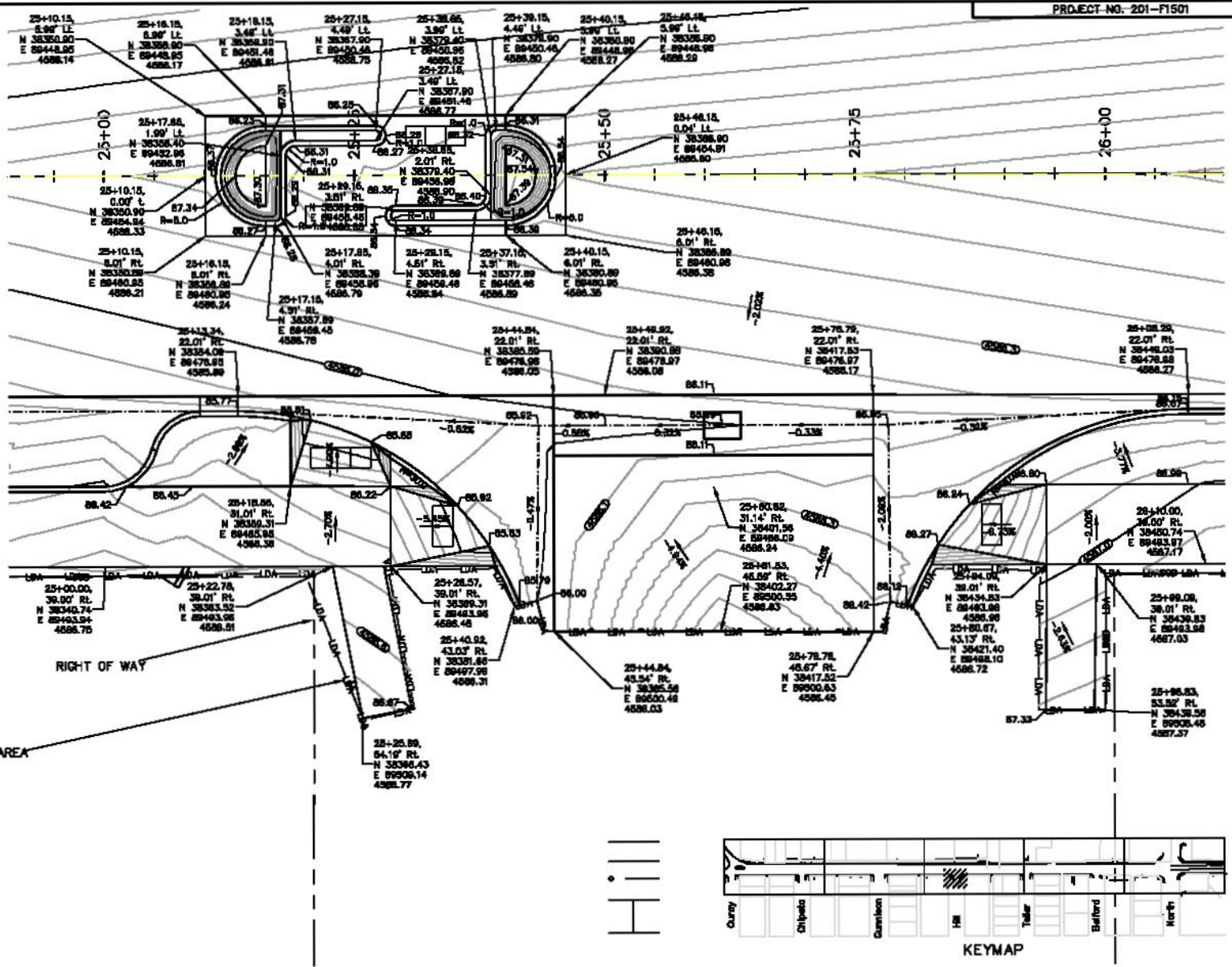
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**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
DETAILED GRADING PLAN
FUOCO CADILLAC DRIVEWAY**



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**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
INTERSECTION PLAN
1ST STREET AND HILL**



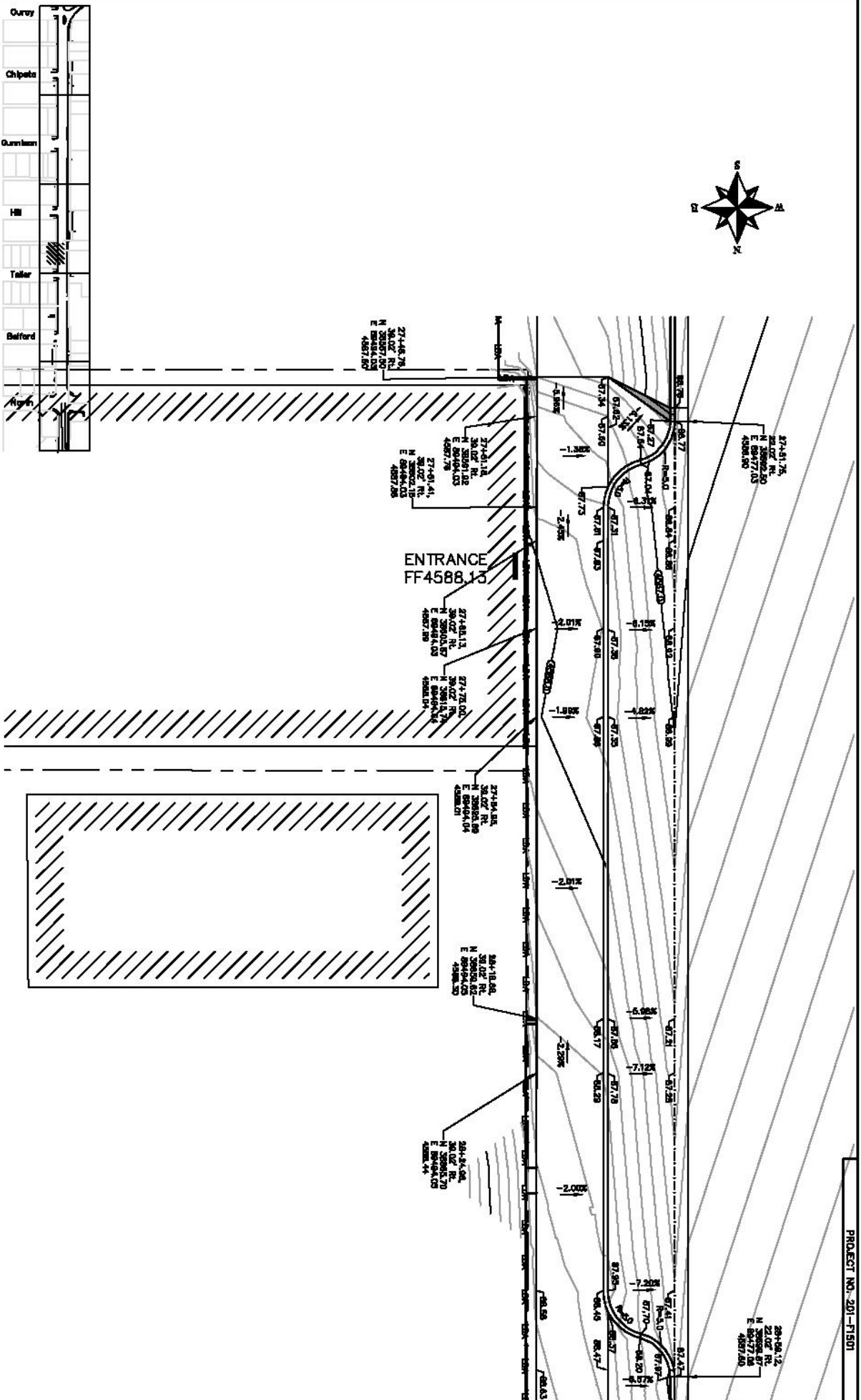
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APPROVED BY	DATE	REVISION	DATE
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DESIGNED BY	DATE	REVISION	DATE
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CHECKED BY	DATE	REVISION	DATE



**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
DETAILED GRADING PLAN
HOLE IN THE WALL SHOP FRONT**

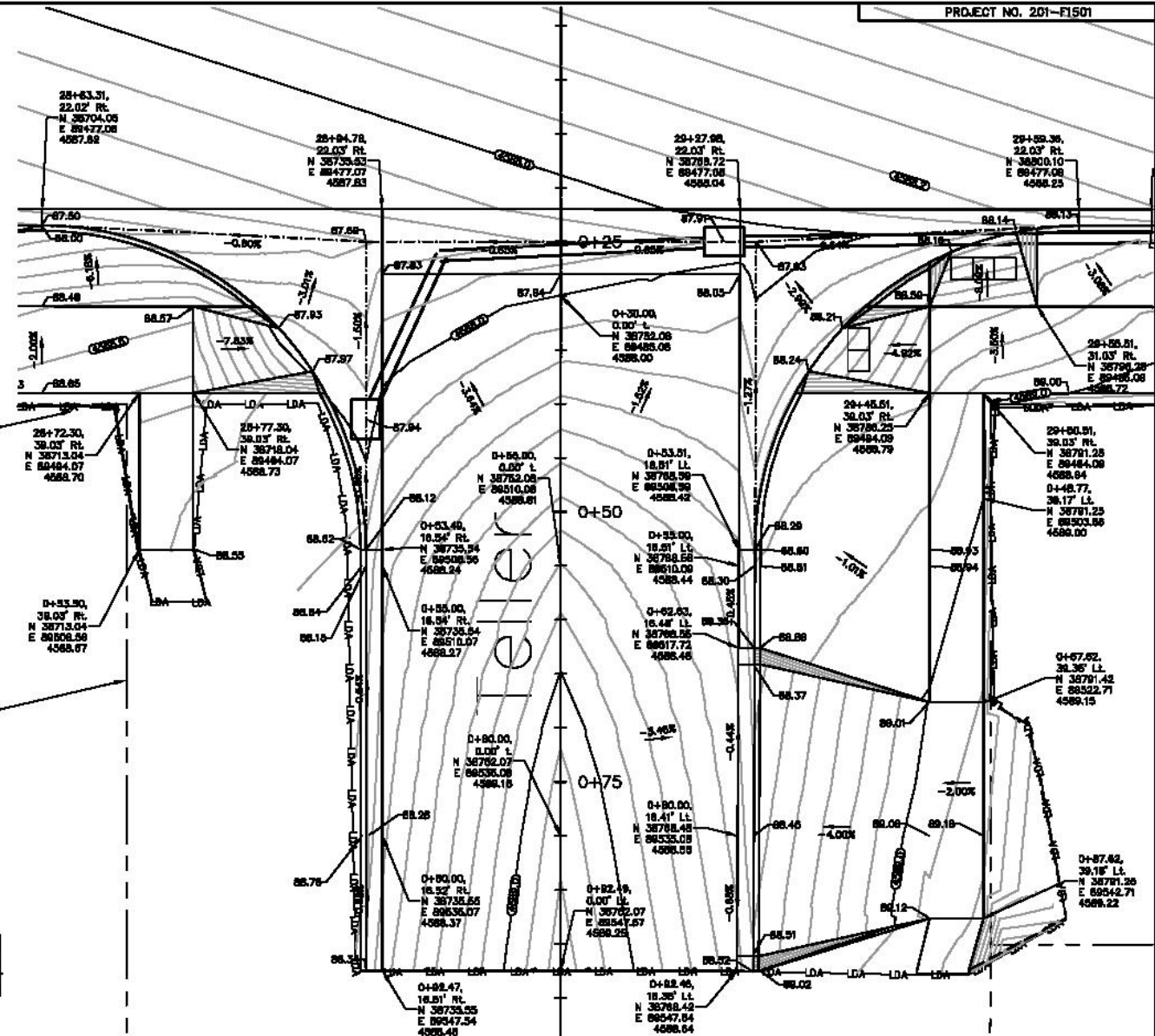
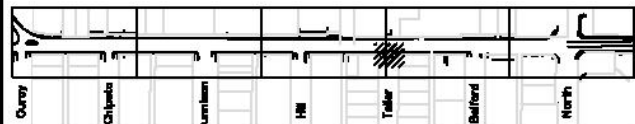


PROJECT NO. 201-F1501



LIMITS OF DISTURBED AREA

RIGHT OF WAY



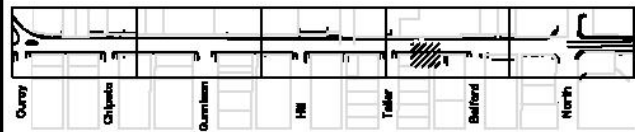
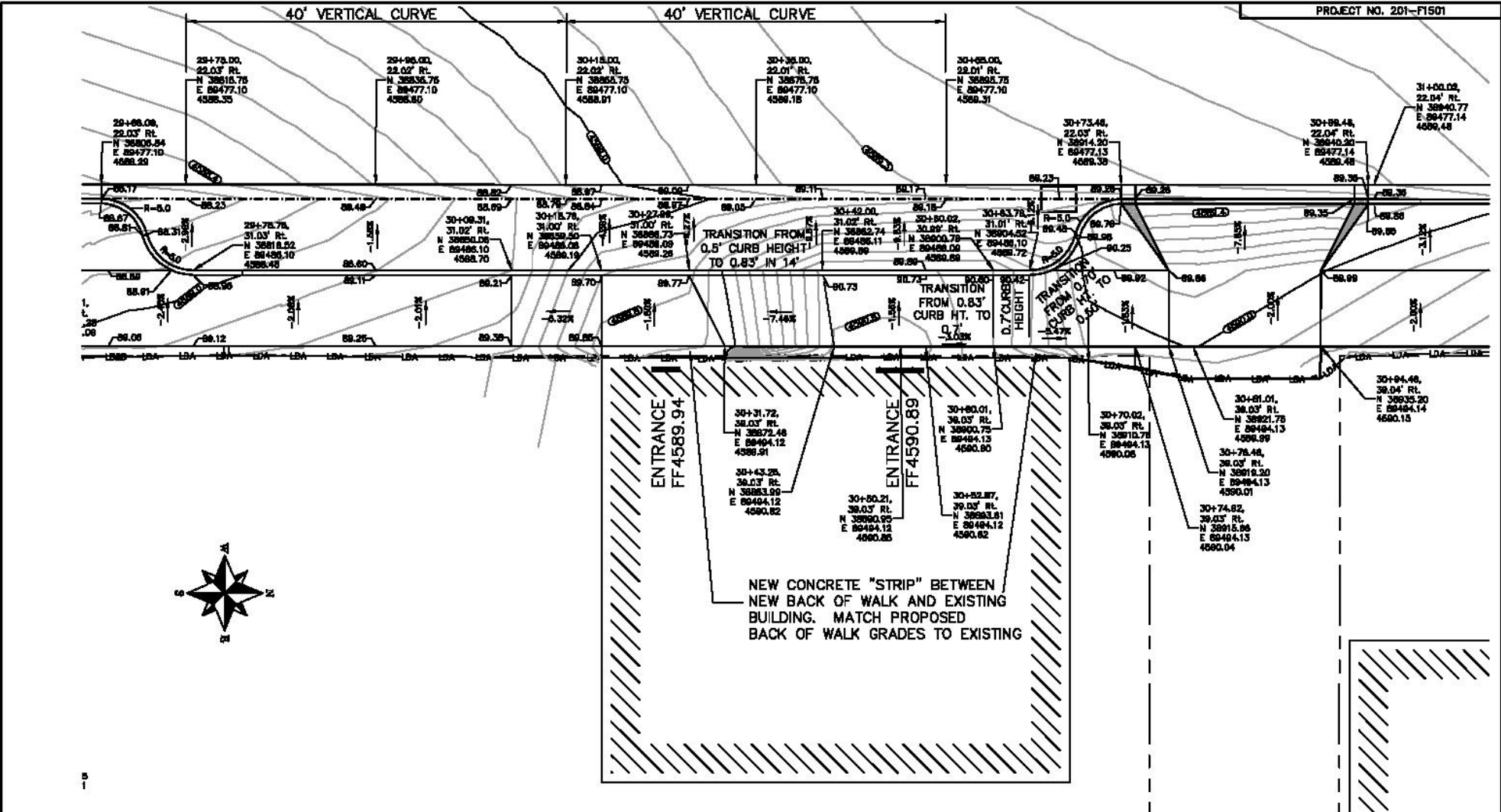
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CITY OF
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COLORADO

**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
INTERSECTION PLAN
1ST STREET AND TELLER**



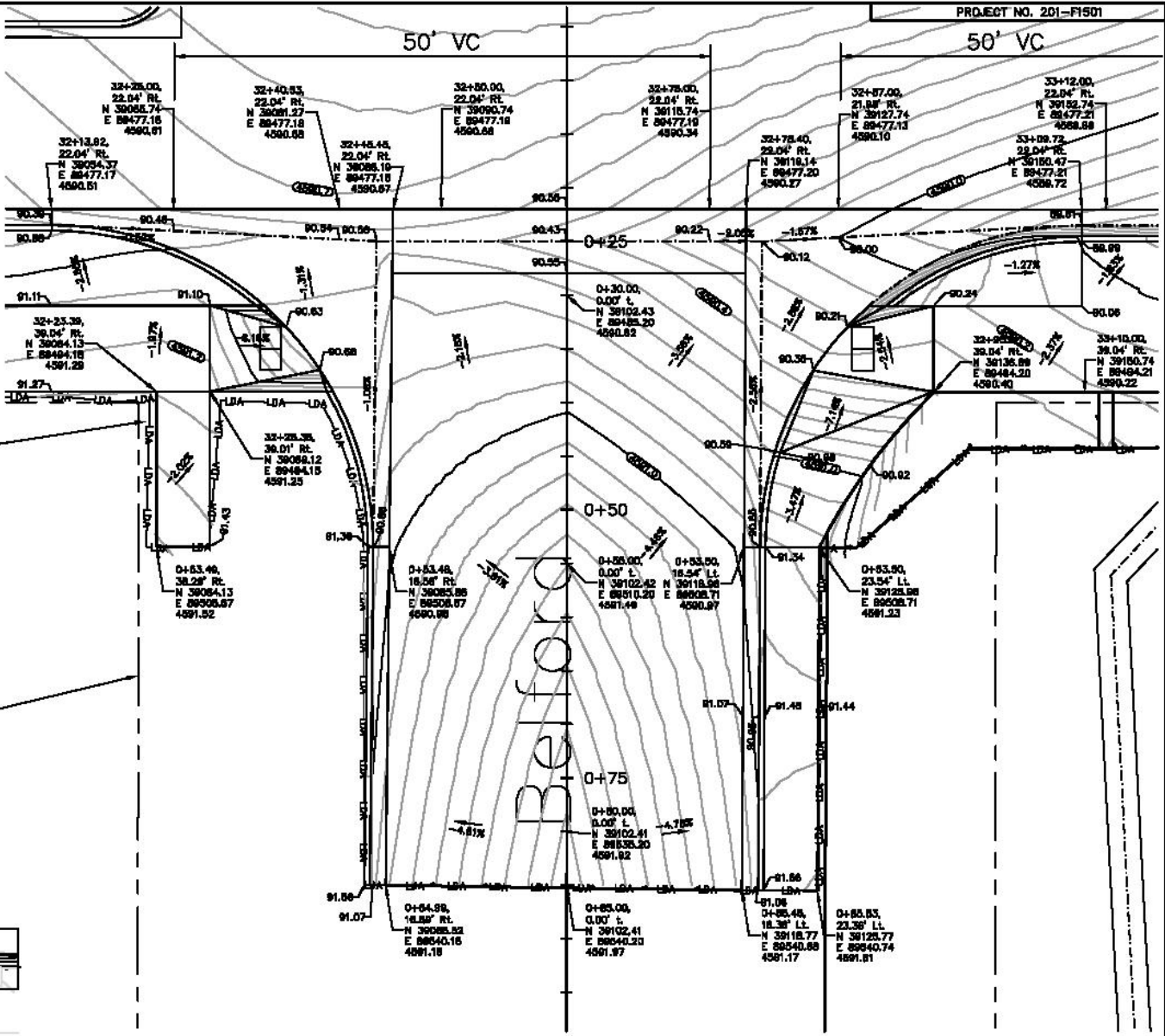
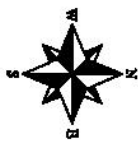
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CITY OF Grand Junction COLORADO

PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION DETAILED GRADING PLAN DIRT SUCKERS VACUUM AND STAR AUTO FRONT

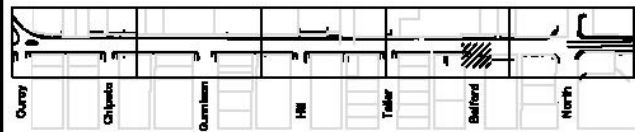
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LIMITS OF DISTURBED AREA

RIGHT OF WAY

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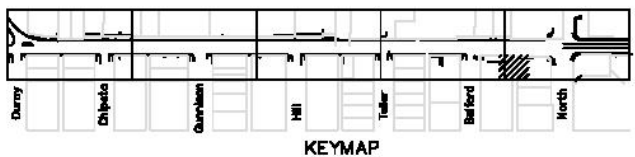
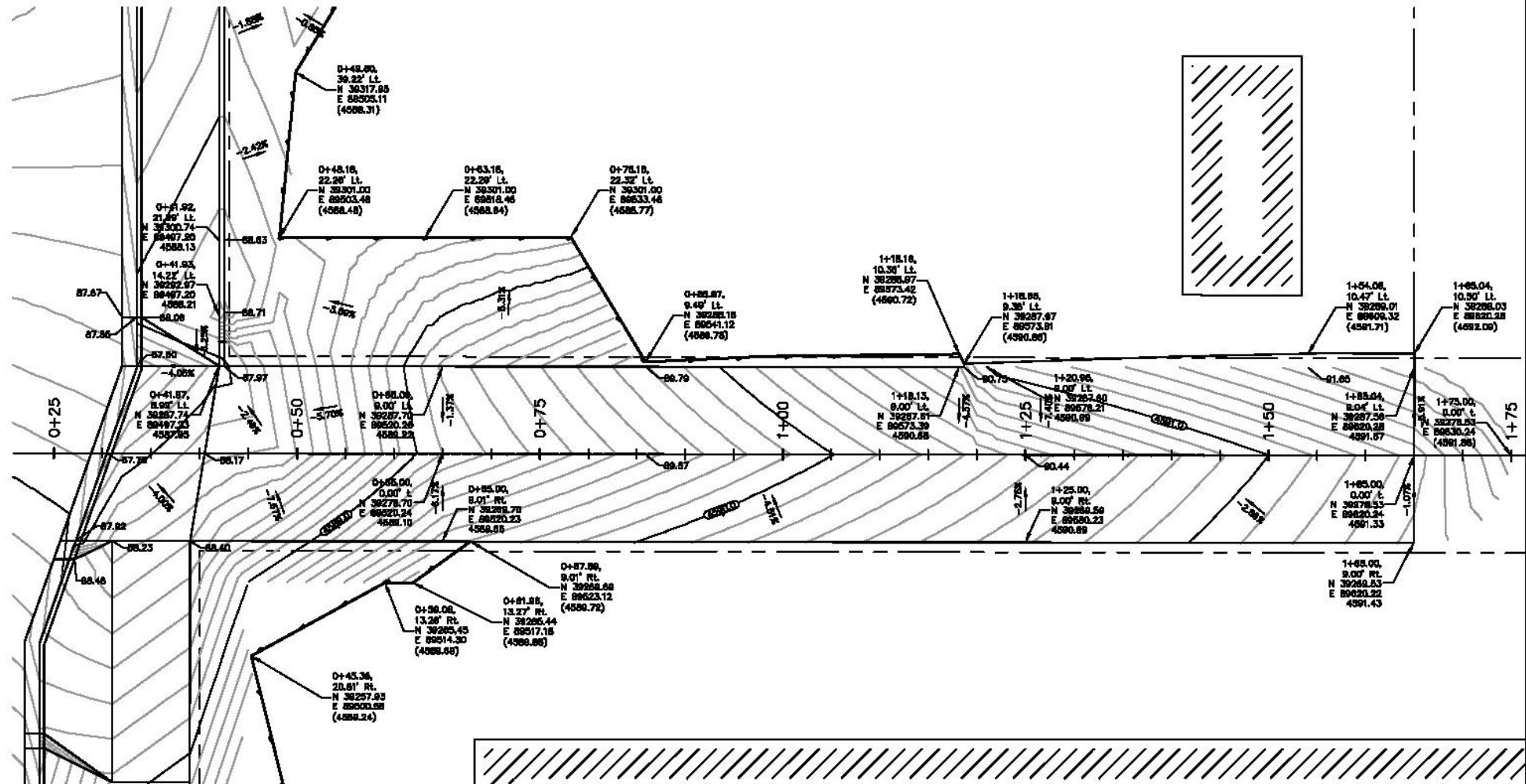
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**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
INTERSECTION PLAN
1ST STREET AND BELFORD**

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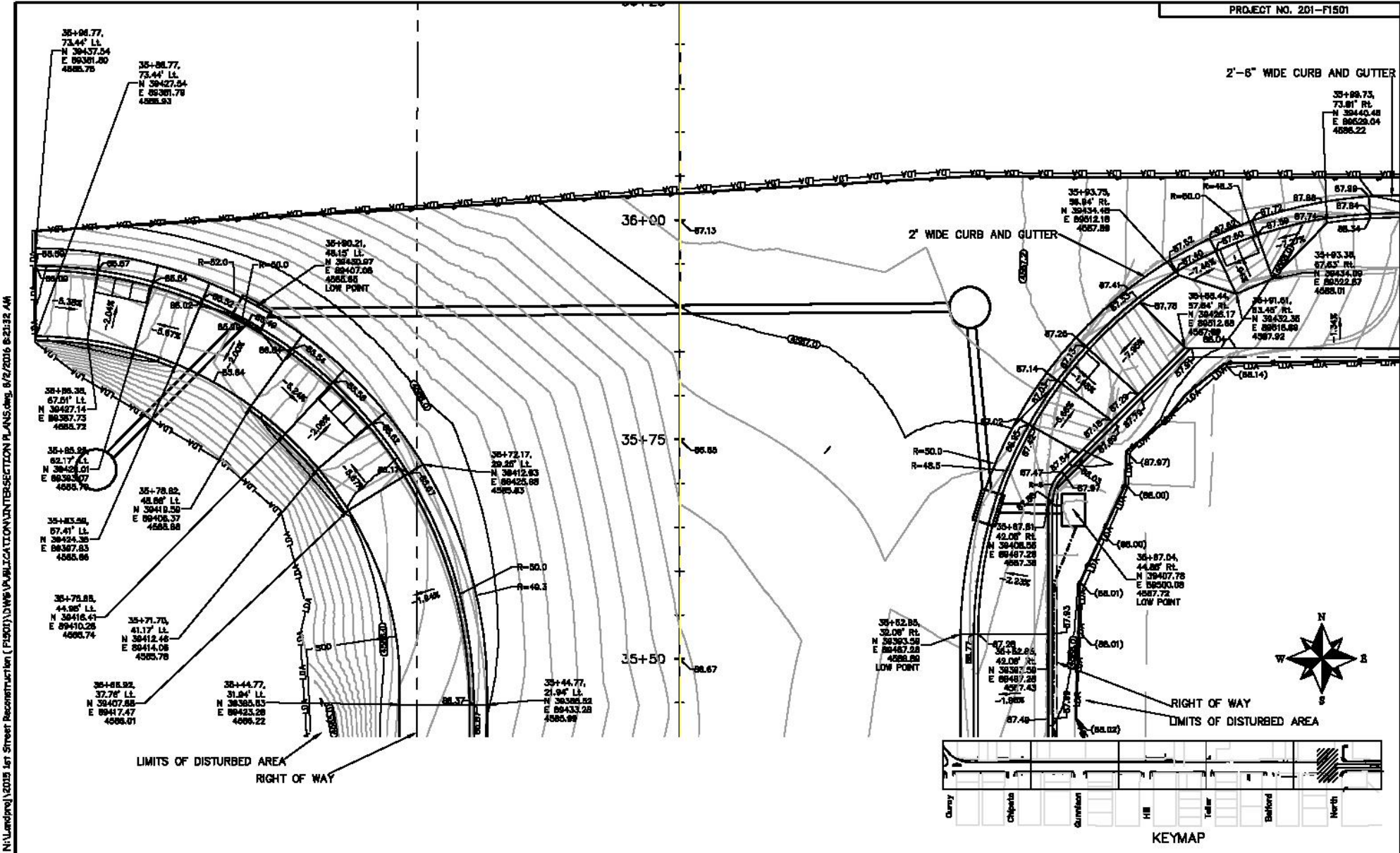
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DRAWN BY: **AS** DATE: 2016
 CHECKED BY: **AS/AN** DATE: 2016
 APPROVED BY: **TC** DATE: 2016

CITY OF
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 COLORADO

PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
DETAILED GRADING PLAN
BELFORD-NORTH ALLEY



N:\Landings\2015 1st Street Reconstruction (F1501)\DWG\UTIL\INTERSECTION PLANS.dwg, 6/2/2016 8:23:32 AM

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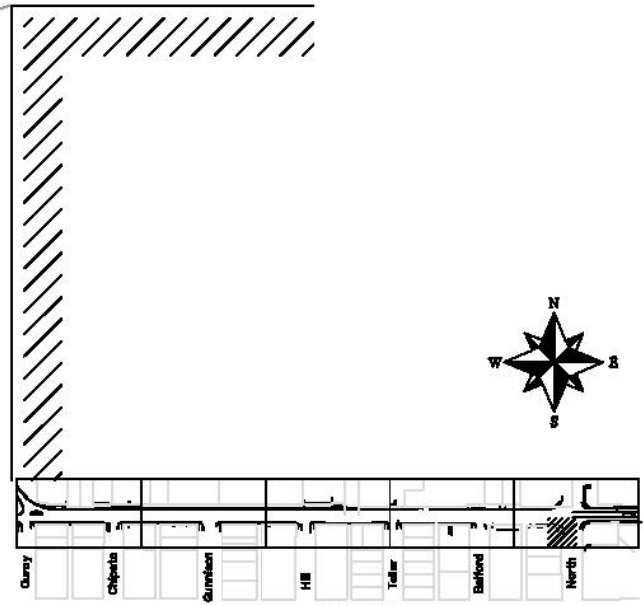
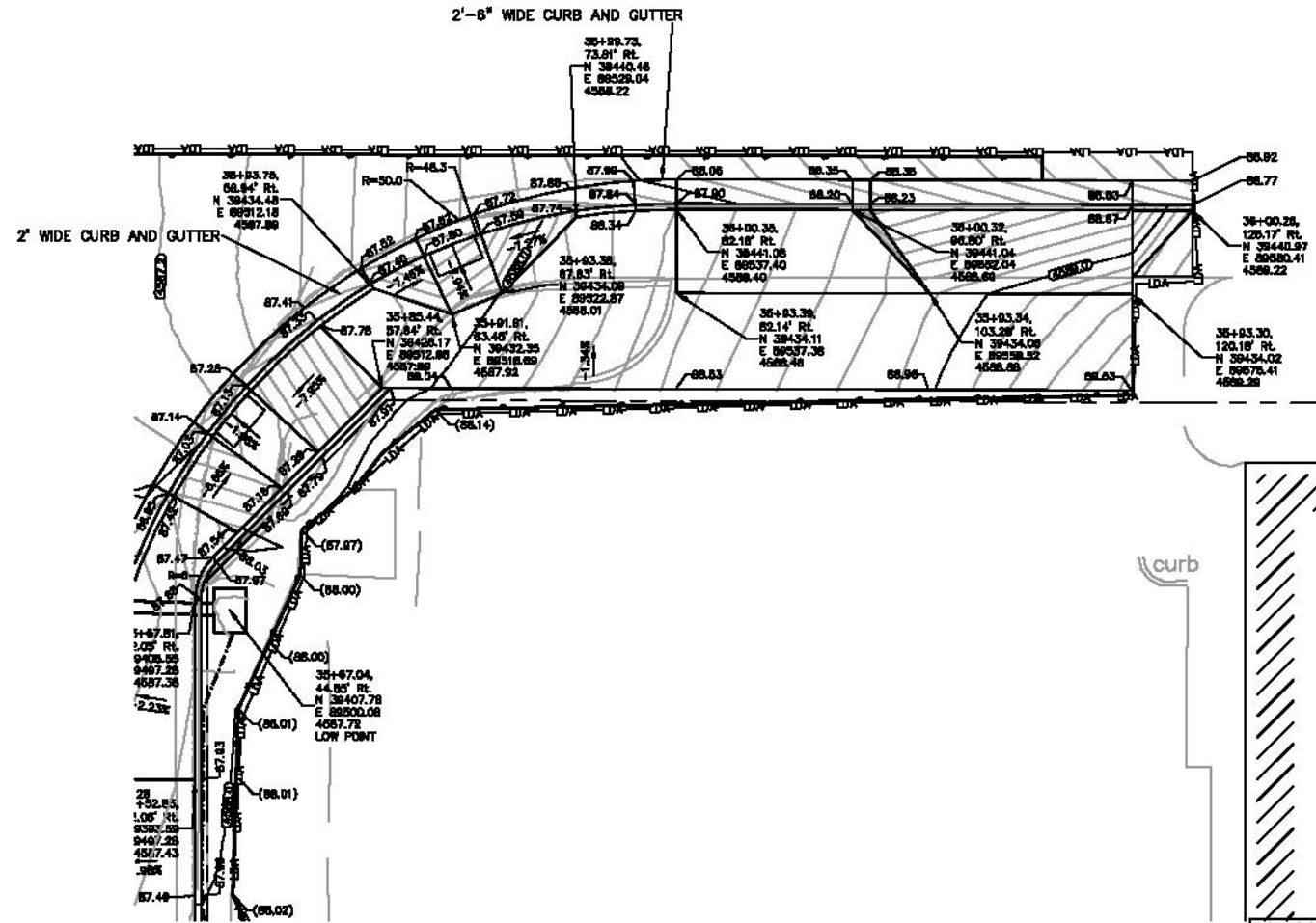
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CHECKED BY	DATE	2016
APPROVED BY	DATE	2016



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION INTERSECTION PLAN NORTH AVENUE AND 1ST STREET

N:\Landings\2015 1st Street Reconstruction (F1501)\DWG\UTIL\INTERSECTION PLANS.dwg, 8/2/2016 8:23:48 AM



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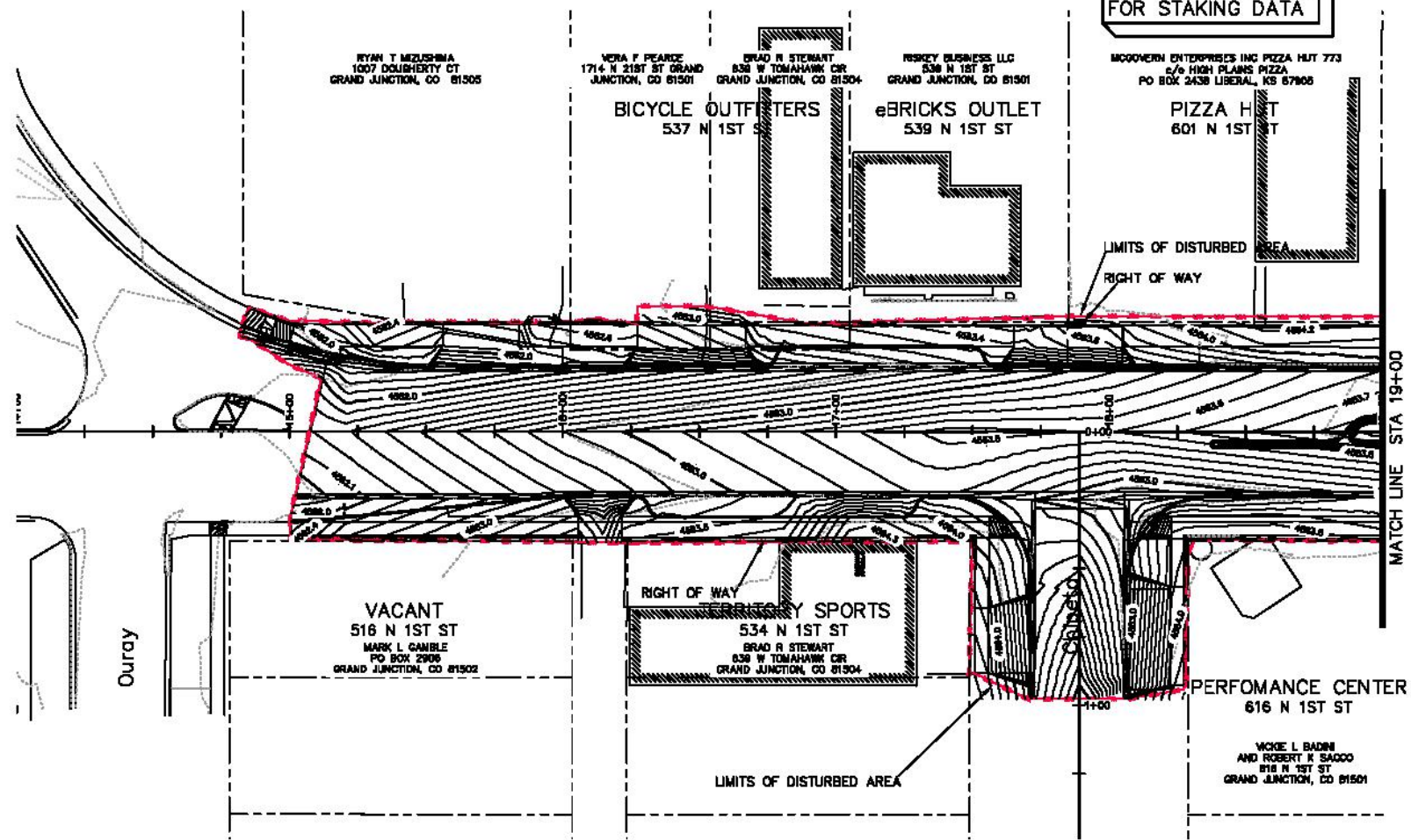
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**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

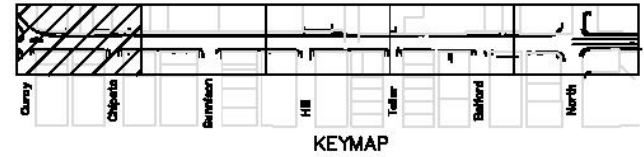
**1ST STREET RECONSTRUCTION
INTERSECTION PLAN
NORTH AVENUE AND 1ST STREET - MIDAS DRIVE**

SEE STAKING PLANS FOR STAKING DATA



MATCH LINE STA 19+00

Ouray



N:\Land\proj\2015 1st Street Reconstruction (F1501)\DWG\UTIL\CONTOUR\0.10 FT PROPOSED CONTOUR MAP.dwg: 10/21/2016 12:55:57 PM

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REVISION B	2015	ISSUED FOR PERMIT	AG	2015
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2015	AG	2015	AG
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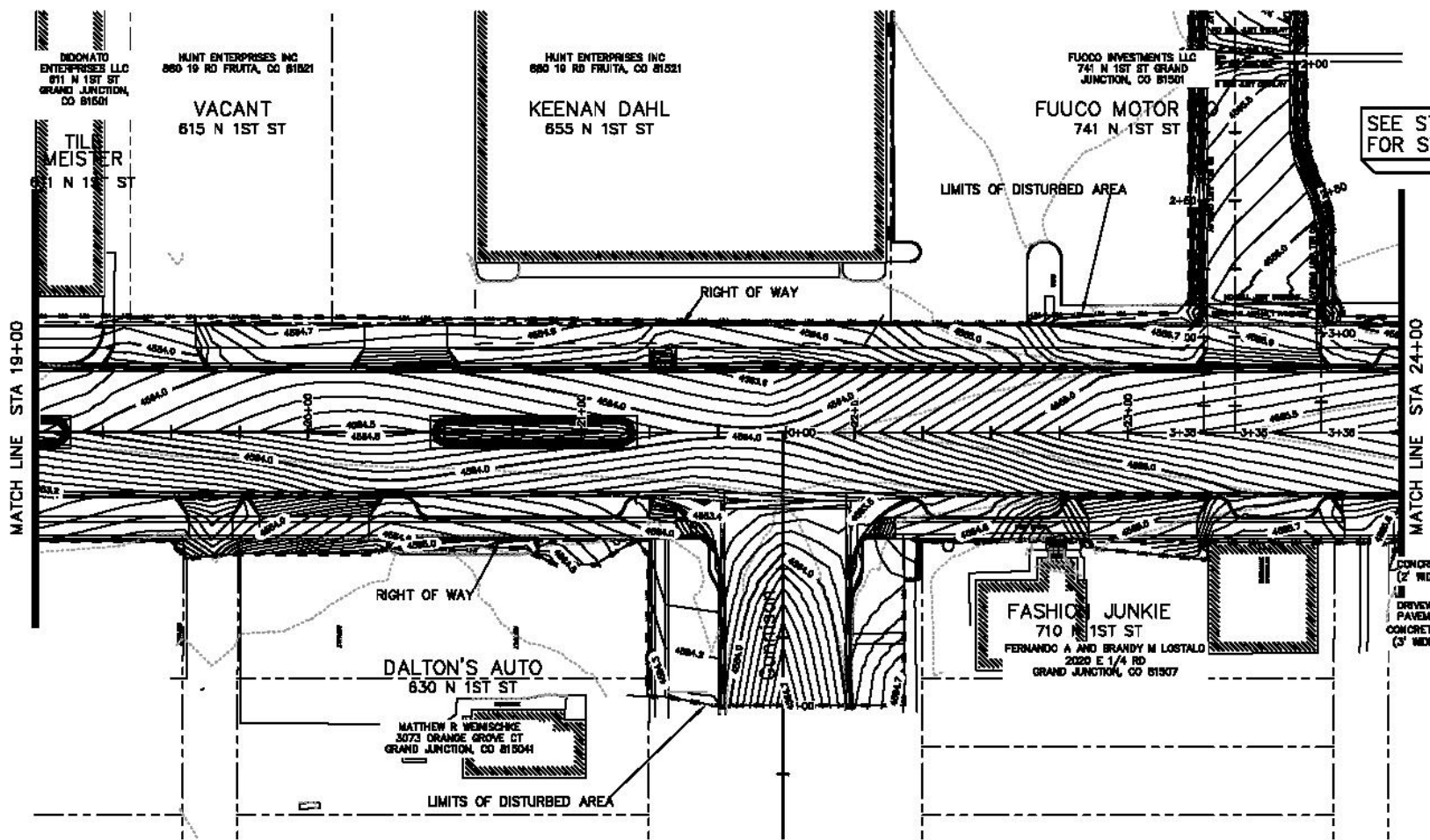


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

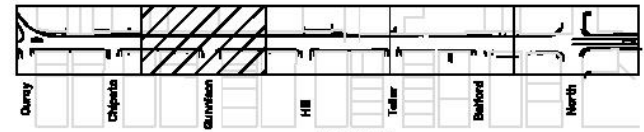
**1ST STREET RECONSTRUCTION
0.10 foot FINISHED GROUND CONTOUR MAP
STA 14+00 TO STA 19+00**



SEE STAKING PLANS FOR STAKING DATA



- CONCRETE CURB AND GUTTER (2' WIDE)
- DRIVEWAY ASPHALT PAVEMENT
- CONCRETE DRAINAGE PAN (3' WIDE)



KEYMAP

REVISION	DATE	DESCRIPTION	DRAWN BY	DATE	SCALE
REVISION A	2018		ASB	2018	ASB
REVISION B	2018		ASB	2018	ASB
REVISION C	2018		ASB	2018	ASB
REVISION D	2018		ASB	2018	ASB

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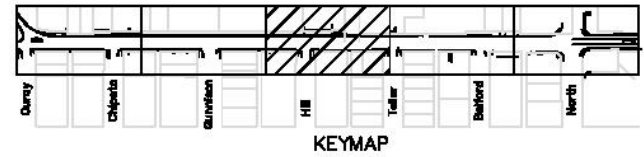
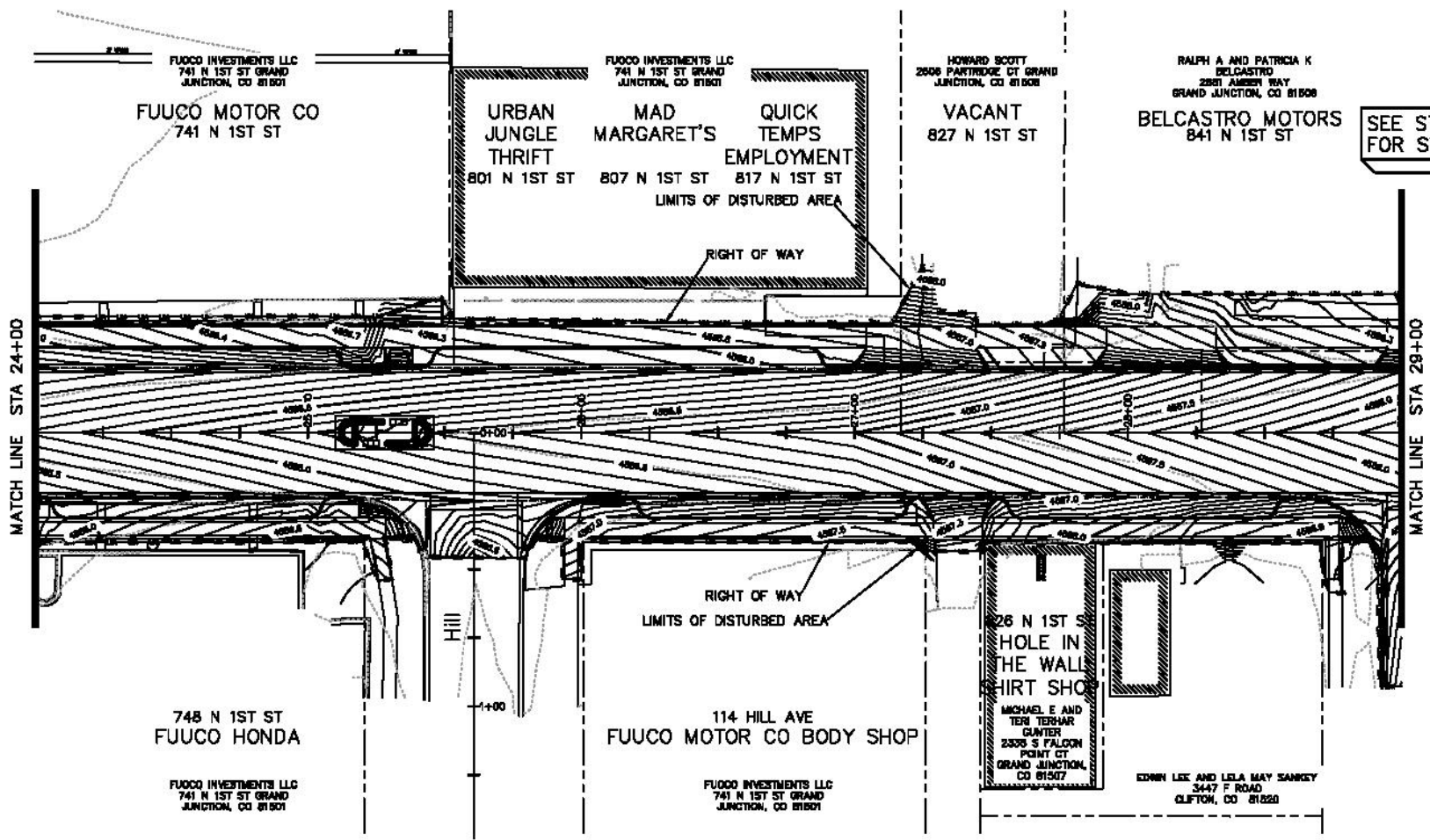
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
0.10 foot FINISHED GROUND CONTOUR MAP
STA 19+00 TO STA 24+00**

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SEE STAKING PLANS FOR STAKING DATA



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
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REVISION B	2018	2018	ASB	2018	ASB
REVISION C	2018	2018	ASB	2018	ASB
REVISION D	2018	2018	ASB	2018	ASB

DESIGNED BY: JESSE DANFORTH
 CHECKED BY: JESSE DANFORTH
 APPROVED BY: JESSE DANFORTH



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
 0.10 foot FINISHED GROUND CONTOUR MAP
 STA 24+00 TO STA 29+00

N:\Landproj\2018 1st Street Reconstruction (F1501)\DWG\MULTICATTION\101.DWG, 003, 12/15/2018 9:30:07 AM



RALPH A AND PATRICIA K
BELCASTRO
2691 AMBER WAY
GRAND JUNCTION, CO 81506
BELCASTRO MOTORS
841 N 1ST ST

LARRY J BADRE
2216 PIAZZA WAY
GRAND JUNCTION, CO 81506
VACANT
901 N 1ST ST

BERTRAND & COMPANY
796 25 RD GRAND JUNCTION,
CO 81506

BERTRAND & COMPANY
796 25 RD GRAND JUNCTION,
CO 81506

BERTRAND & COMPANY
796 25 RD GRAND JUNCTION,
CO 81506

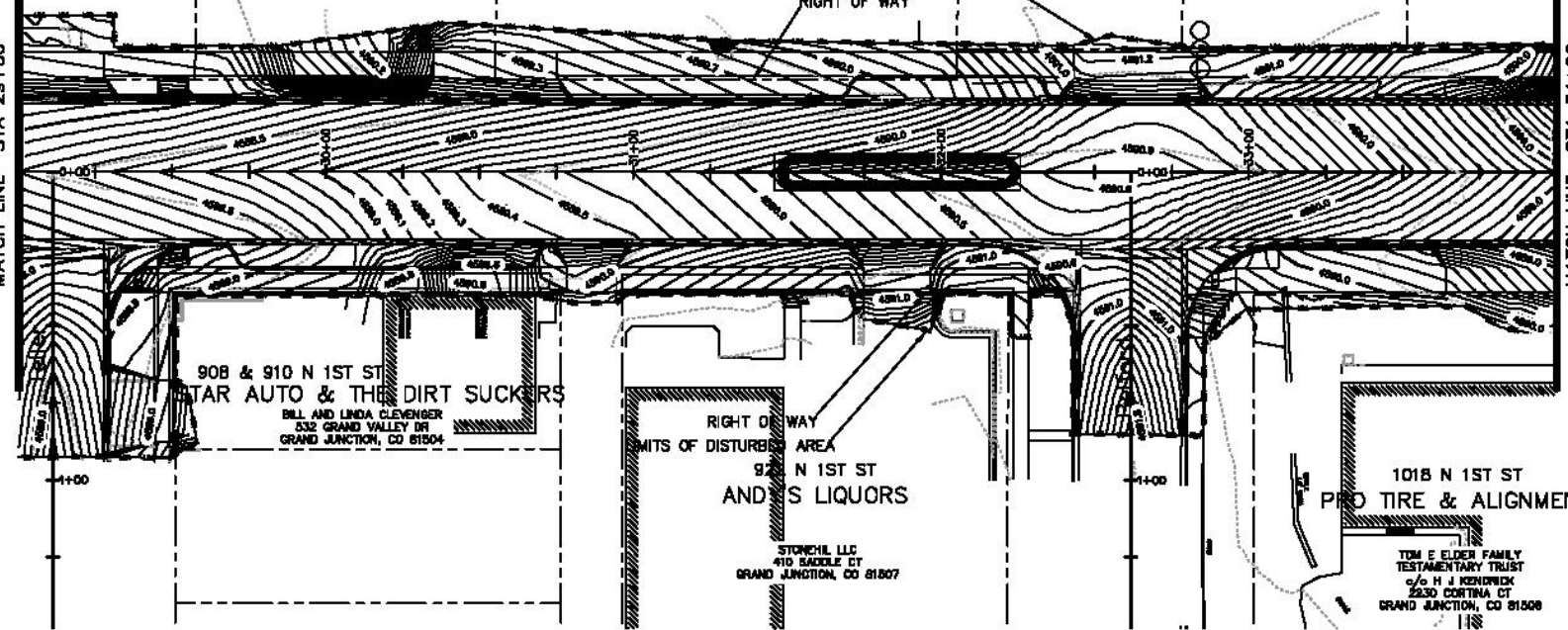
INTER MOUNTAIN AUTO SALES
835 N 1ST ST

SEE STAKING PLANS
FOR STAKING DATA

LARRY J BADRE
2216 PIAZZA WAY
GRAND JUNCTION, CO 81506
VACANT
901 N 1ST ST

MATCH LINE STA 29+00

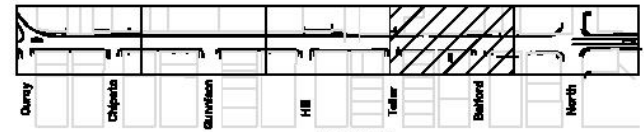
MATCH LINE STA 34+00



908 & 910 N 1ST ST
STAR AUTO & THE DIRT SUCKERS
BILL AND LINDA CLEVENGER
532 GRAND VALLEY DR
GRAND JUNCTION, CO 81504

RIGHT OF WAY
LIMITS OF DISTURBED AREA
92 N 1ST ST
AND'S LIQUORS
STORCHIL LLC
410 SADDLE CT
GRAND JUNCTION, CO 81507

1018 N 1ST ST
PRO TIRE & ALIGNMENT
TOM E ELDER FAMILY
TESTAMENTARY TRUST
c/o H J KENDRICK
2230 CORTINA CT
GRAND JUNCTION, CO 81506



KEYMAP

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
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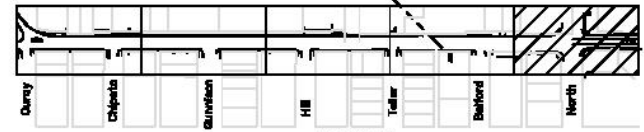
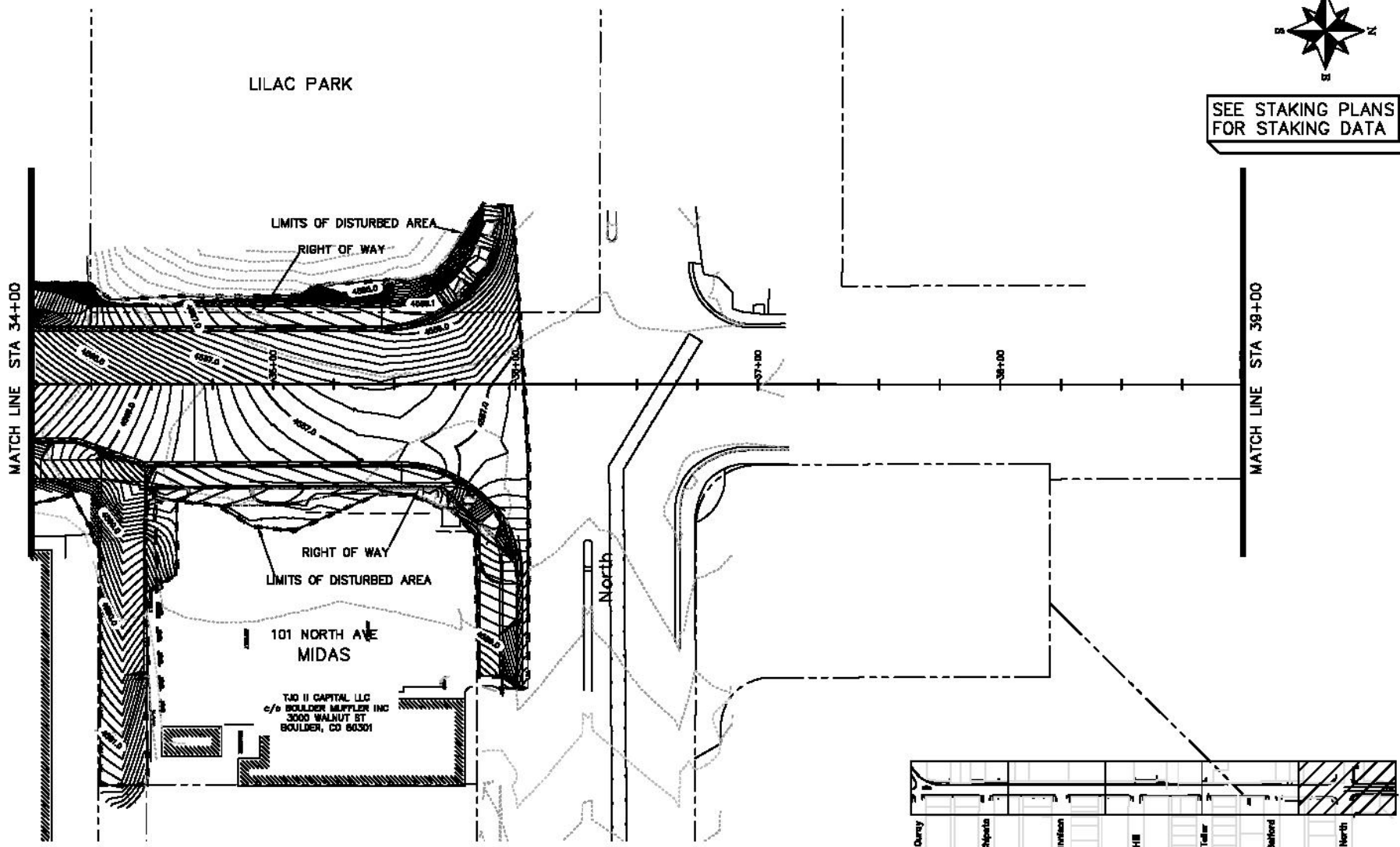
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
0.10 foot FINISHED GROUND CONTOUR MAP
STA 29+00 TO STA 34+00**

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SEE STAKING PLANS
FOR STAKING DATA



KEYMAP

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
REVISION A	2018	2018	ASB	2018	ASB
REVISION B	2018	2018	ASB	2018	ASB
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REVISION D	2018	2018	ASB	2018	ASB

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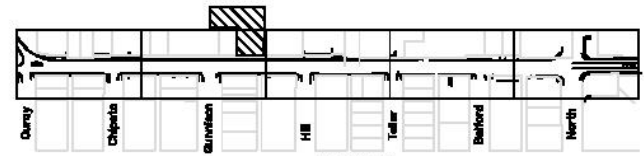
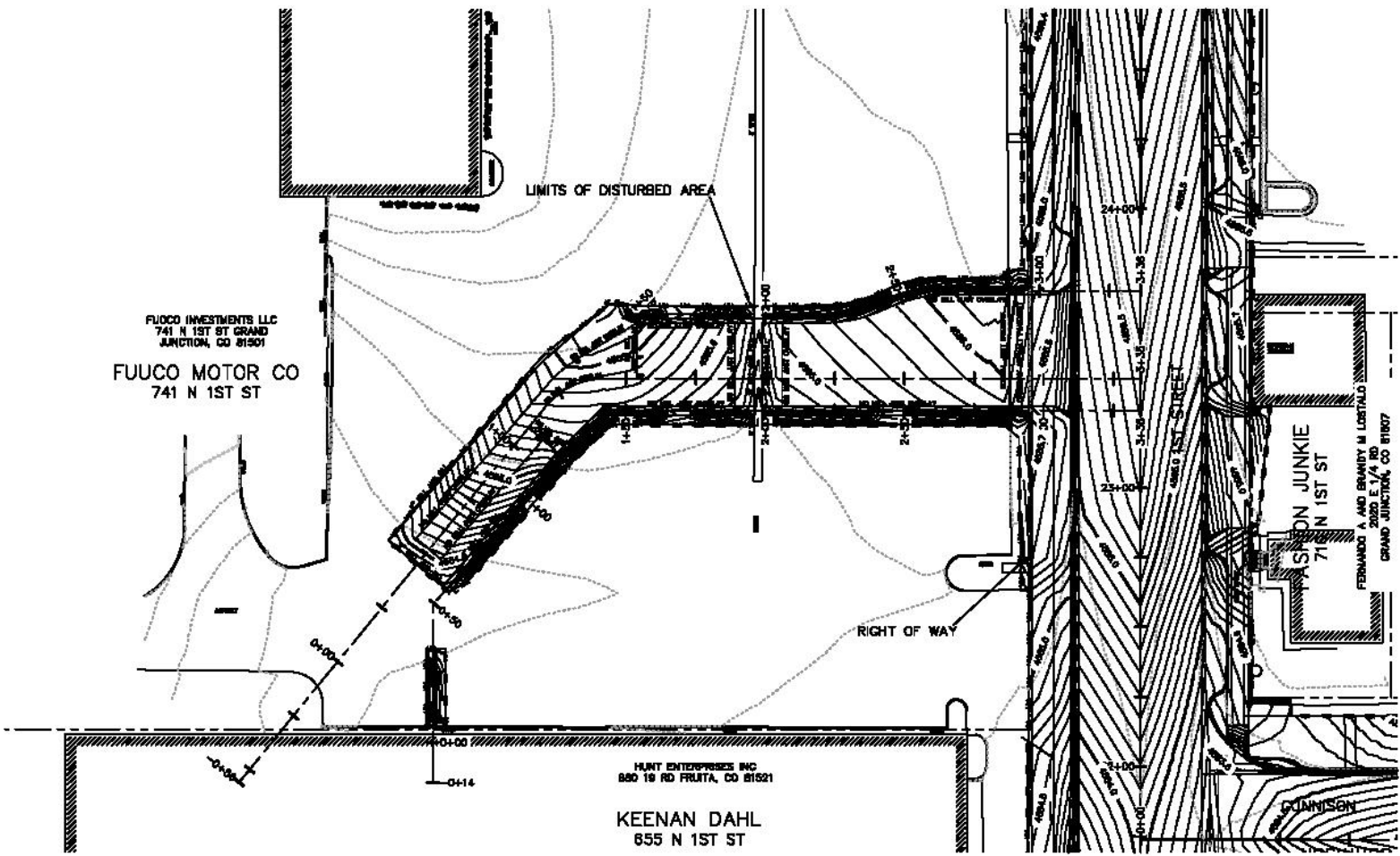
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
0.10 foot FINISHED GROUND CONTOUR MAP
STA 34+00 TO STA 39+00**

N:\Landproj\2018 1st Street Reconstruction (F1501)\DWG\PUBLICATION\101 NORTH AVE MIDAS CONTOUR MAP.dwg, 008, 12/16/2018 8:10:41 AM



SEE STAKING PLANS
FOR STAKING DATA



KEYMAP

REVISION	DATE	DESCRIPTION	BY	DATE	SCALE
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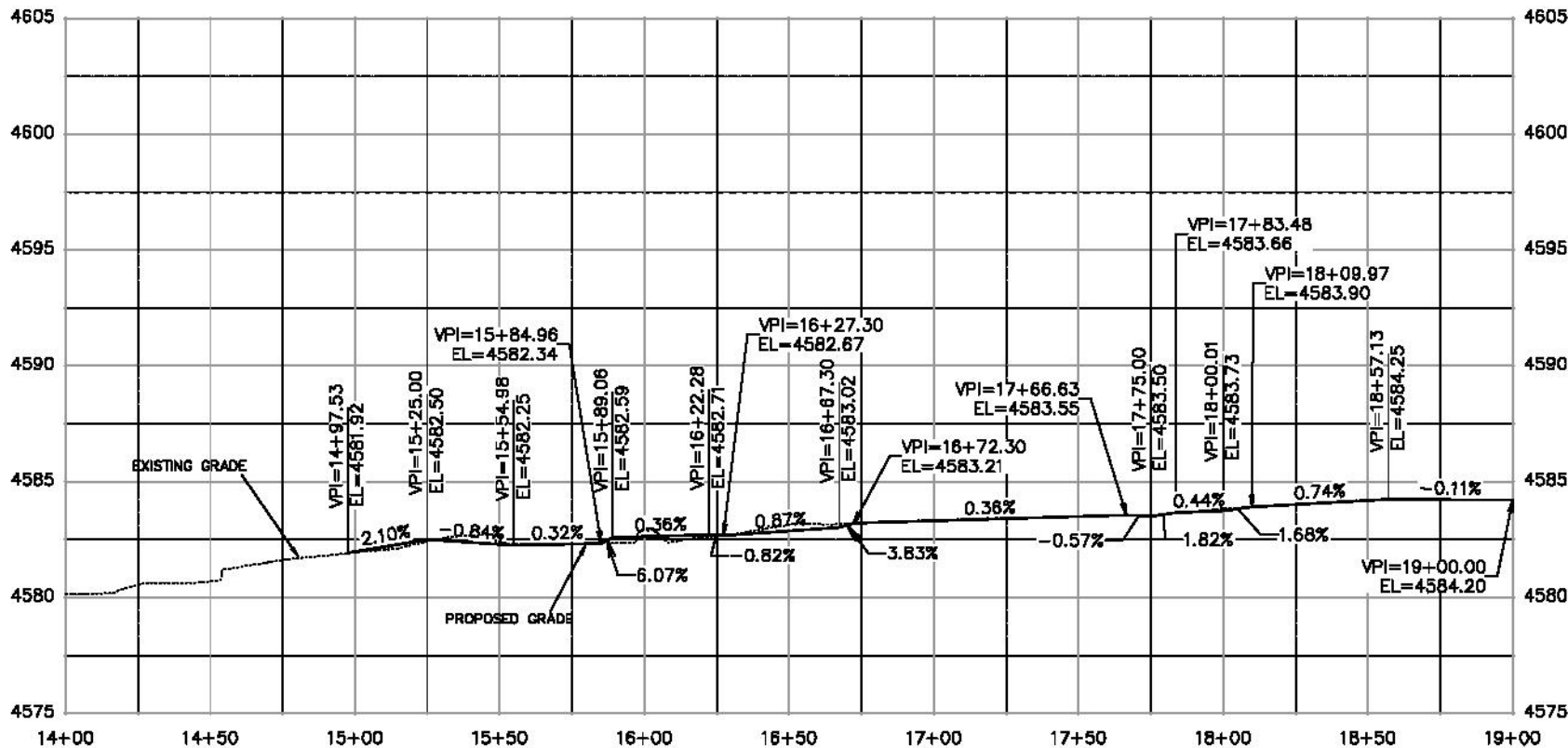


**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

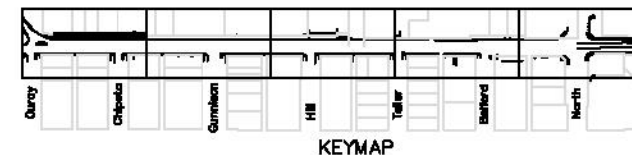
**1ST STREET RECONSTRUCTION
DRIVEWAY PLAN
FUOCO CADILLAC**

N:\Landproj\2018 1st Street Reconstruction (F1501)\DWG\PUBLICATION\LOT CLIFF PROPOSED CONTOUR.MAP.dwg, 006, 11/03/2018 8:37:27 AM

SEE STAKING PLANS
FOR STAKING DATA



BACK OF WALK WEST (LEFT) (1)



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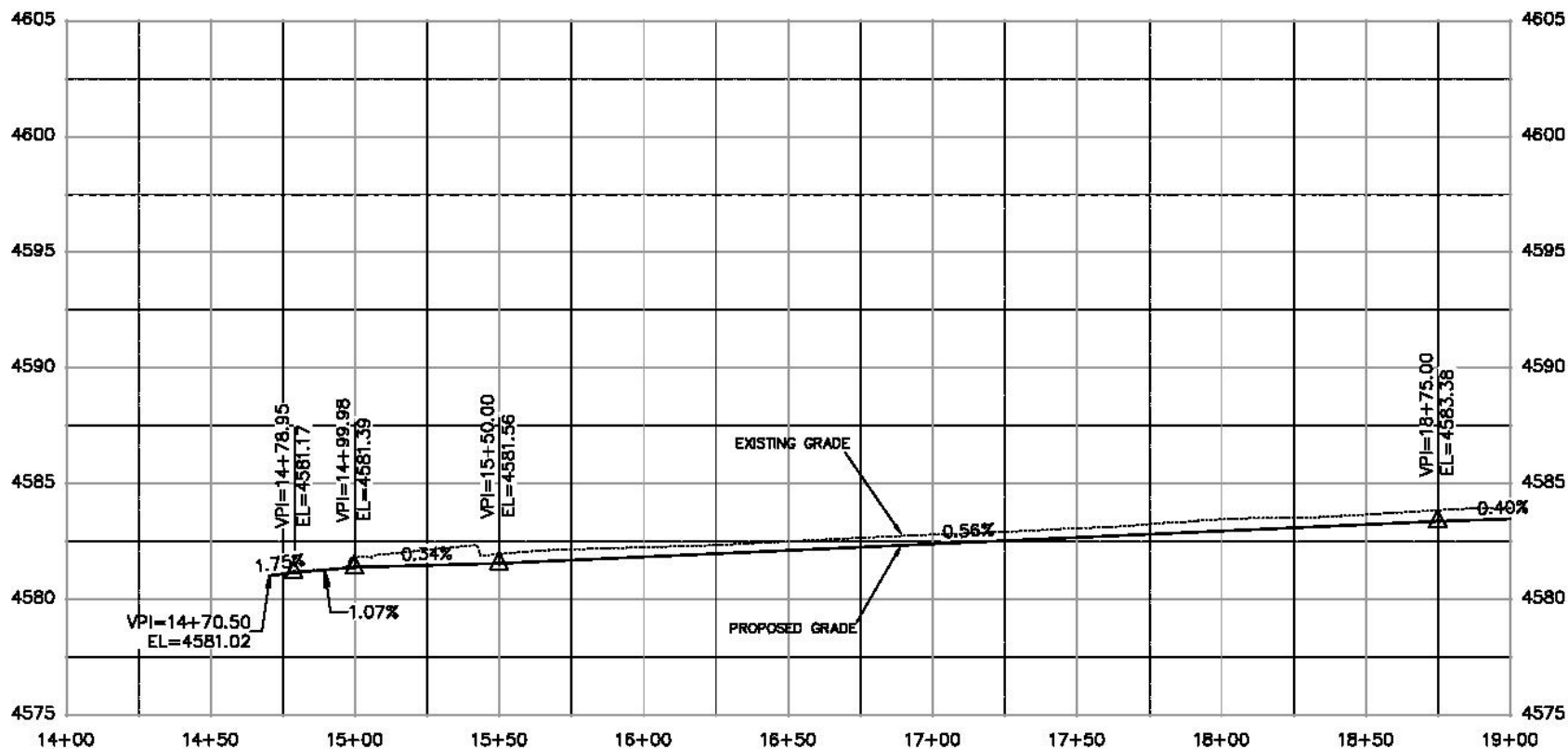
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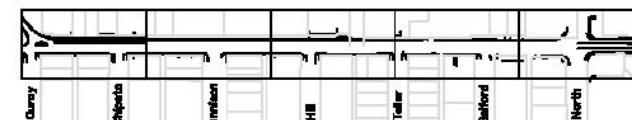
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 14+00 TO STA 19+00**

SEE STAKING PLANS
FOR STAKING DATA



FLOW LINE OF GUTTER WEST (1)



KEYMAP

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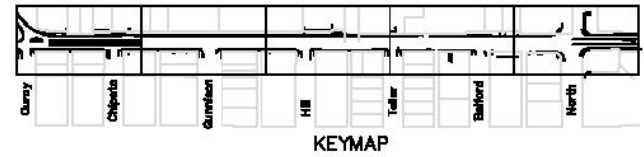
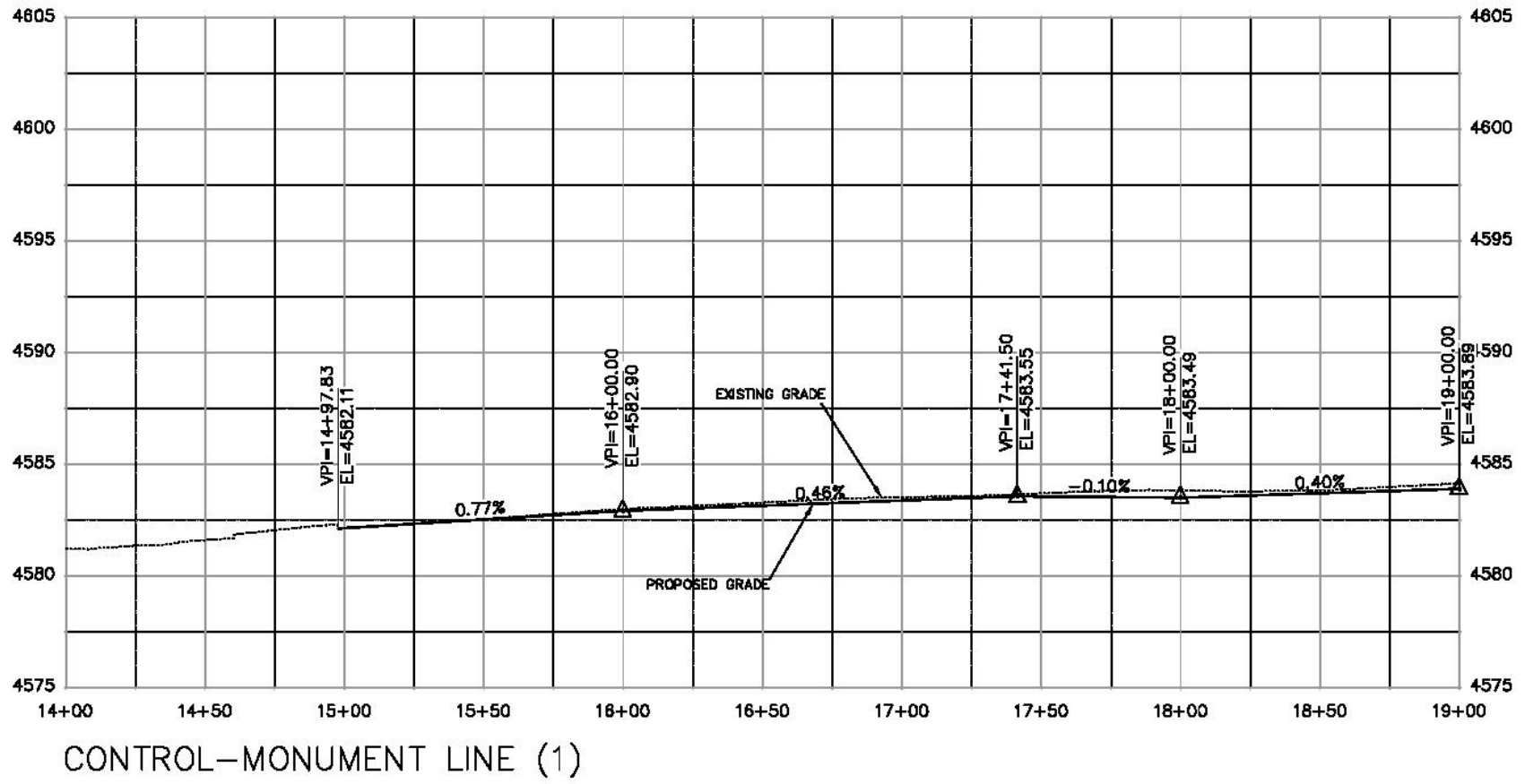
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REVISION C	2016	ASB	2016	ASB	2016	ASB	2016
REVISION D	2016	ASB	2016	ASB	2016	ASB	2016



**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 14+00 TO STA 19+00**

SEE STAKING PLANS
FOR STAKING DATA



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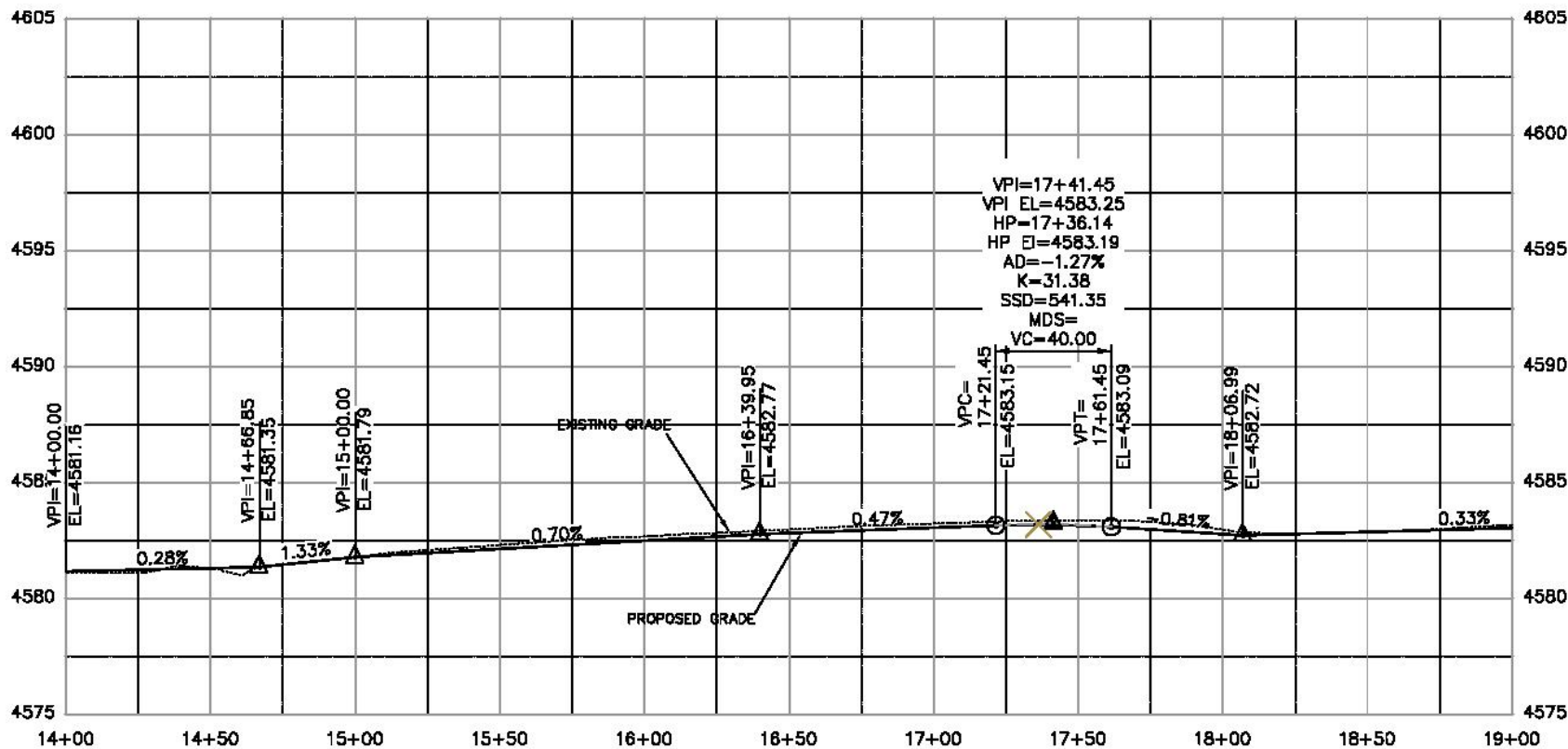
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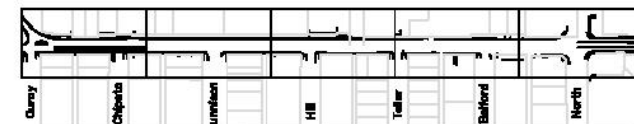
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 14+00 TO STA 19+00**

SEE STAKING PLANS
FOR STAKING DATA



FLOW LINE OF GUTTER EAST (1)



KEYMAP

N:\Land\proj\2015 1st Street Reconstruction (F1501)\DWG\1\UTIL\ROADWAY\WAY PROFILE.dwg, 7/13/2016 2:34:20 PM

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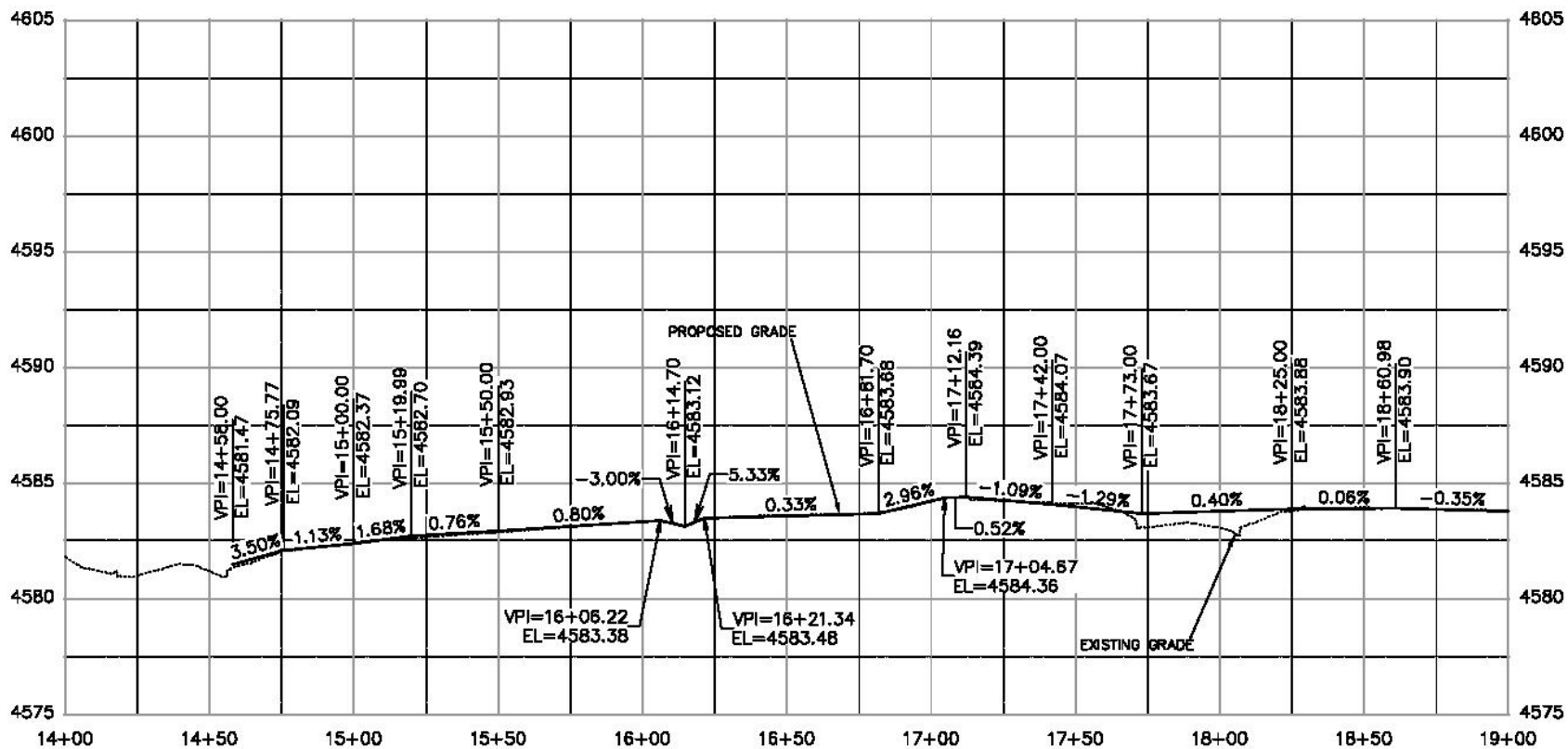
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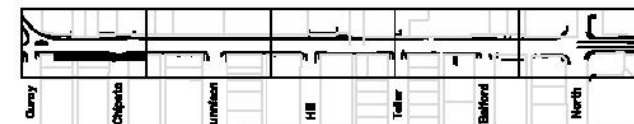
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 14+00 TO STA 19+00**

SEE STAKING PLANS
FOR STAKING DATA



BACK OF WALK EAST (RIGHT) (1)



KEYMAP

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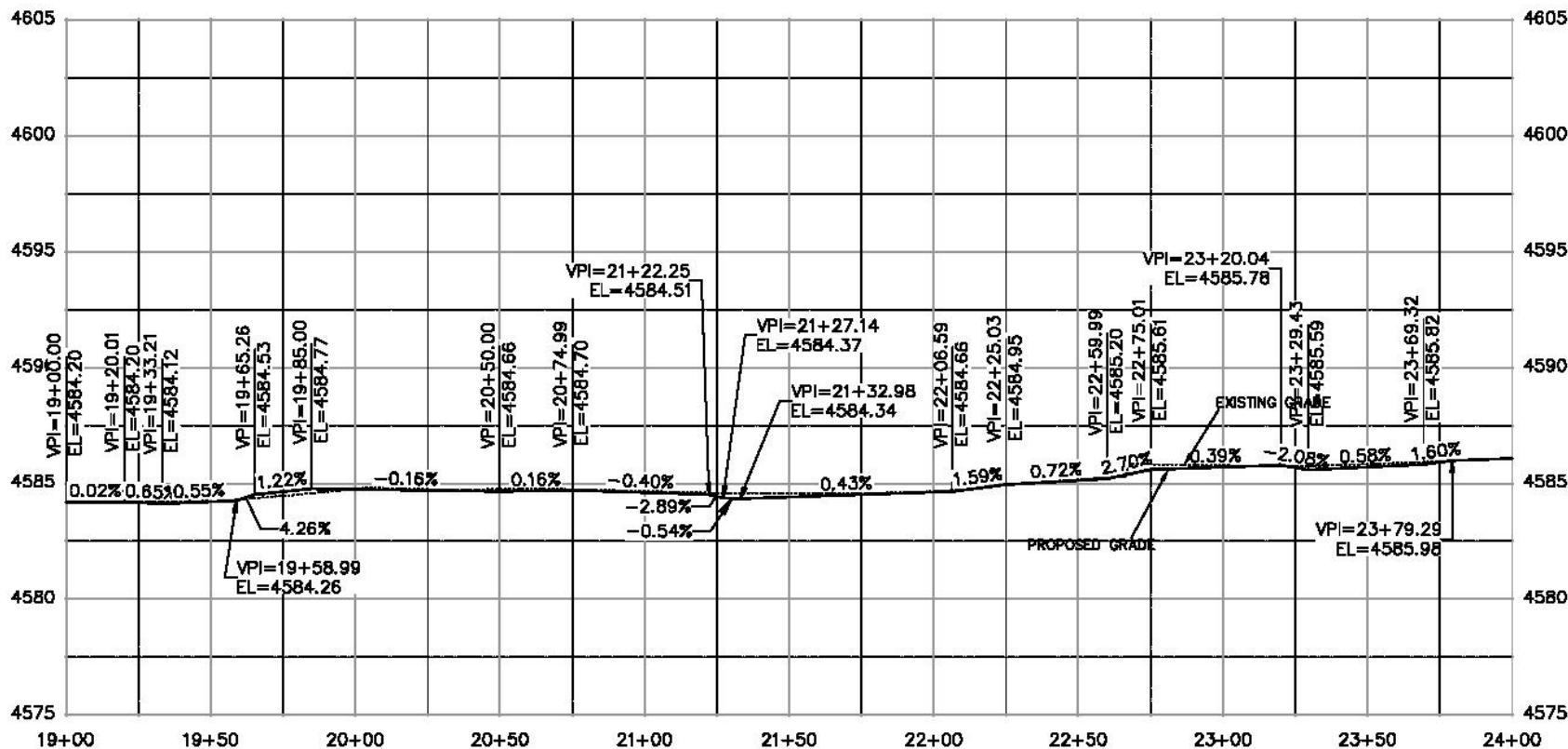
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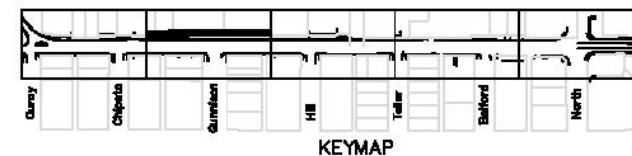
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 14+00 TO STA 19+00**

SEE STAKING PLANS
FOR STAKING DATA



BACK OF WALK WEST (LEFT) (2)



N:\Landproj\2015 1st Street Reconstruction (F1501)\DWG\UTIL\ROADWAY\WAY PROFILE.dwg, 7/13/2016 2:36:19 PM

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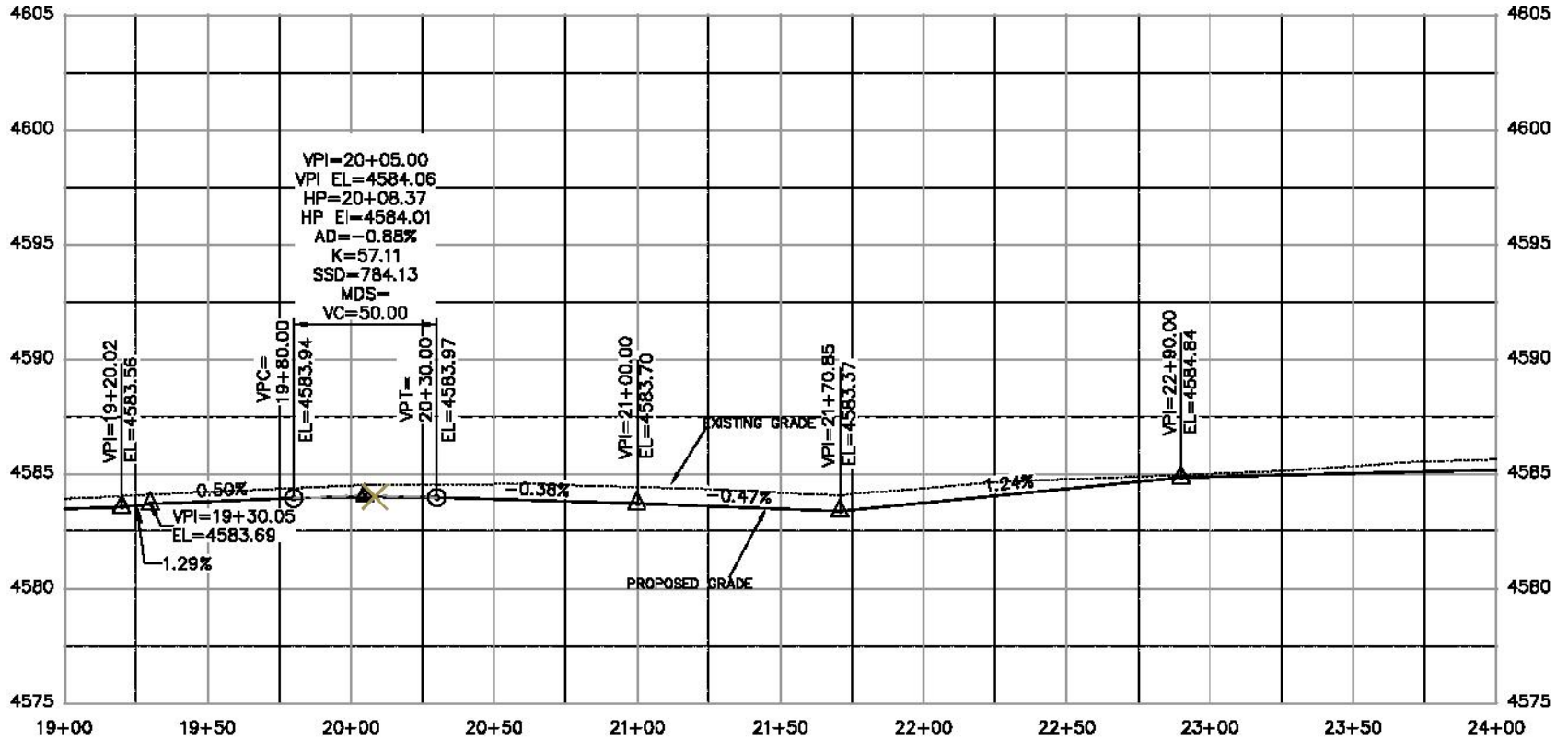
SCALE	DATE
PLAN & PROFILE	2016



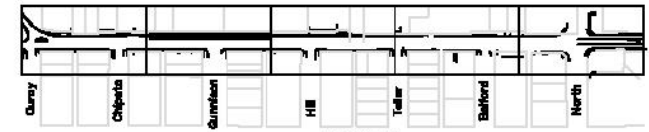
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 19+00 TO STA 24+00**

SEE STAKING PLANS
FOR STAKING DATA



FLOW LINE OF GUTTER WEST (2)



KEYMAP

N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\1\UTILIZATION\ROADWAY PROFILE.dwg, 7/13/2016 2:38:19 PM

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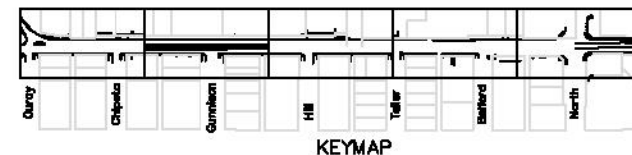
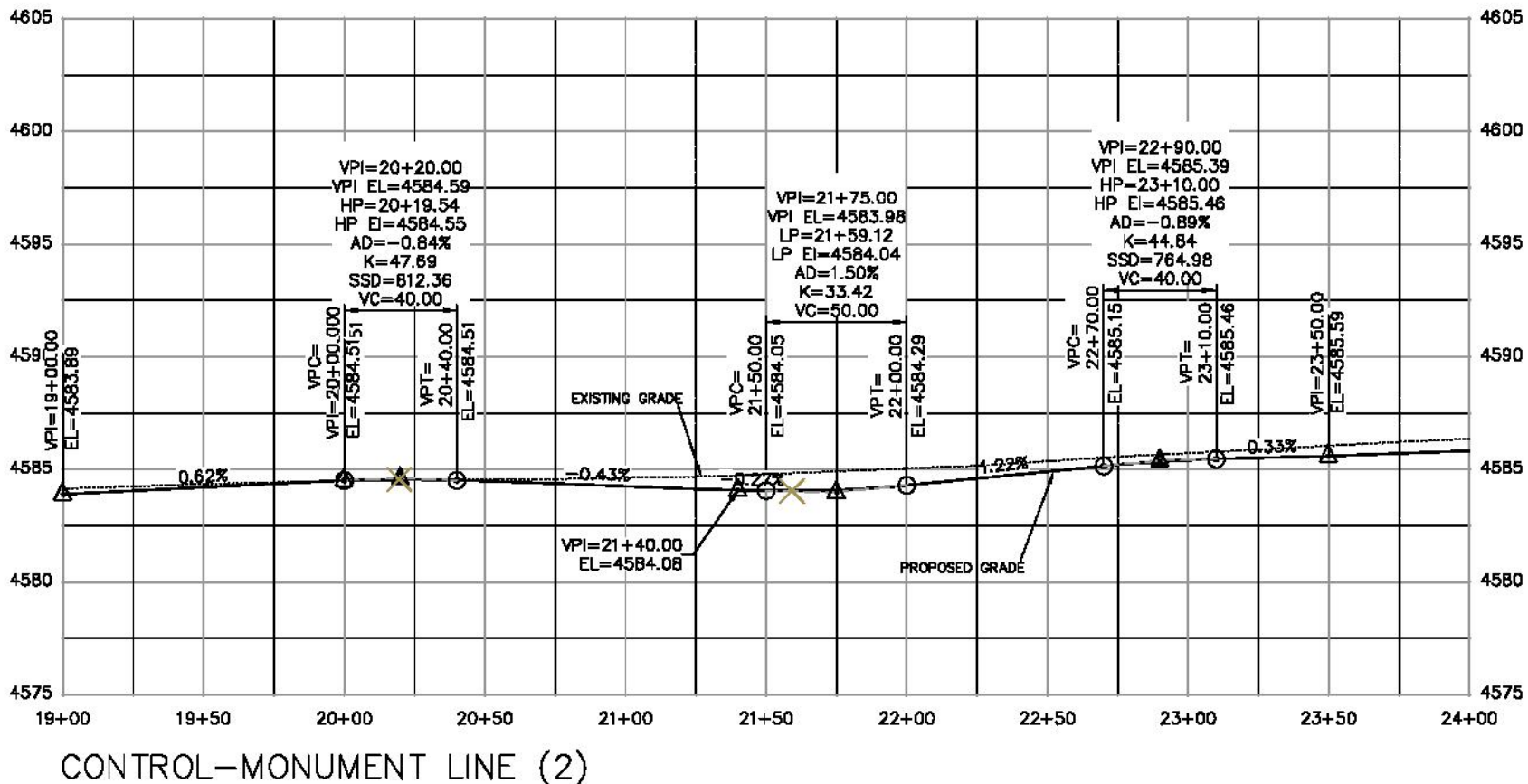
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ASB	2016



**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 19+00 TO STA 24+00**

SEE STAKING PLANS
FOR STAKING DATA



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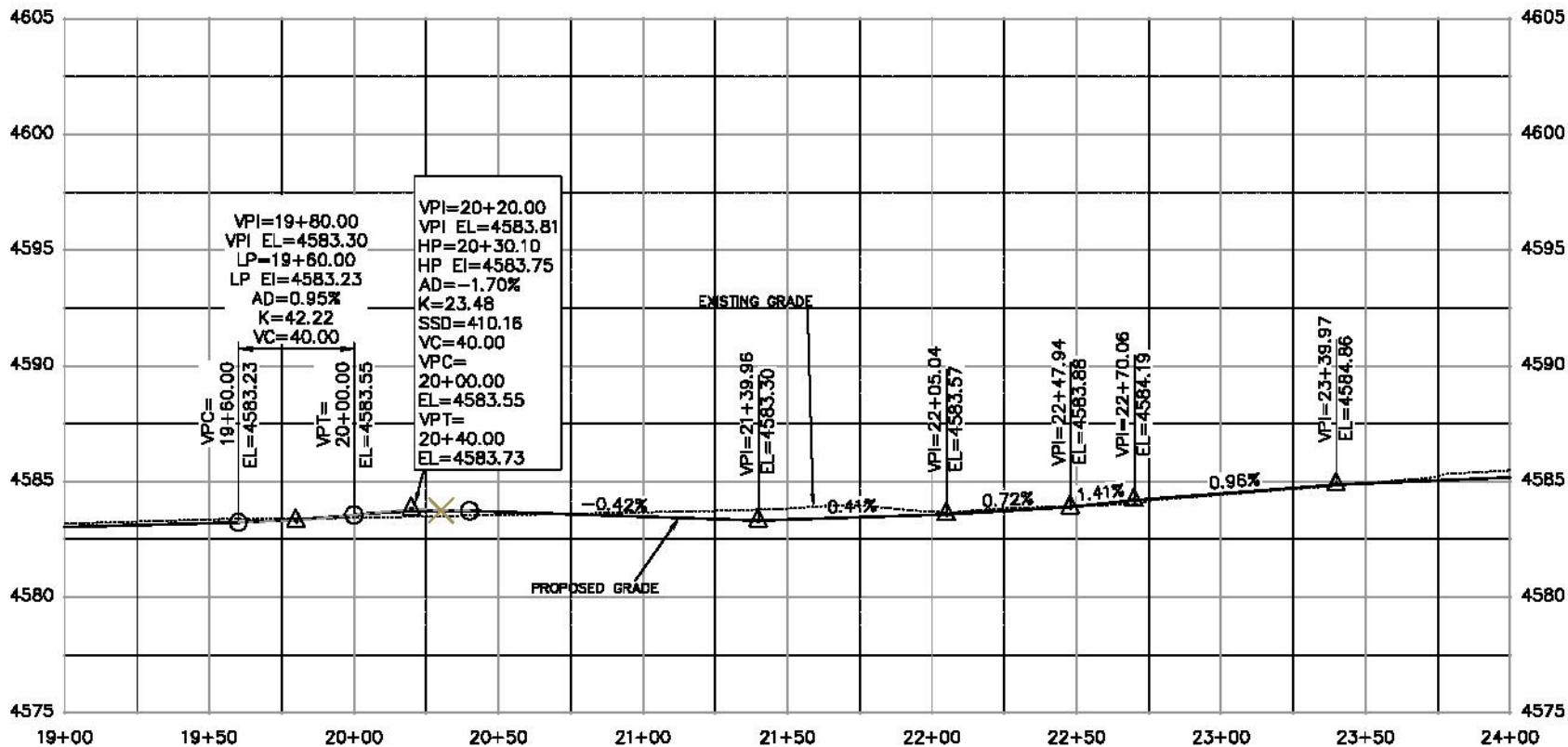
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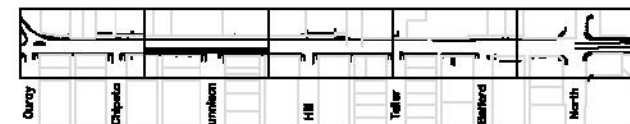
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 19+00 TO STA 24+00**

SEE STAKING PLANS
FOR STAKING DATA



FLOW LINE OF GUTTER EAST (2)



KEYMAP

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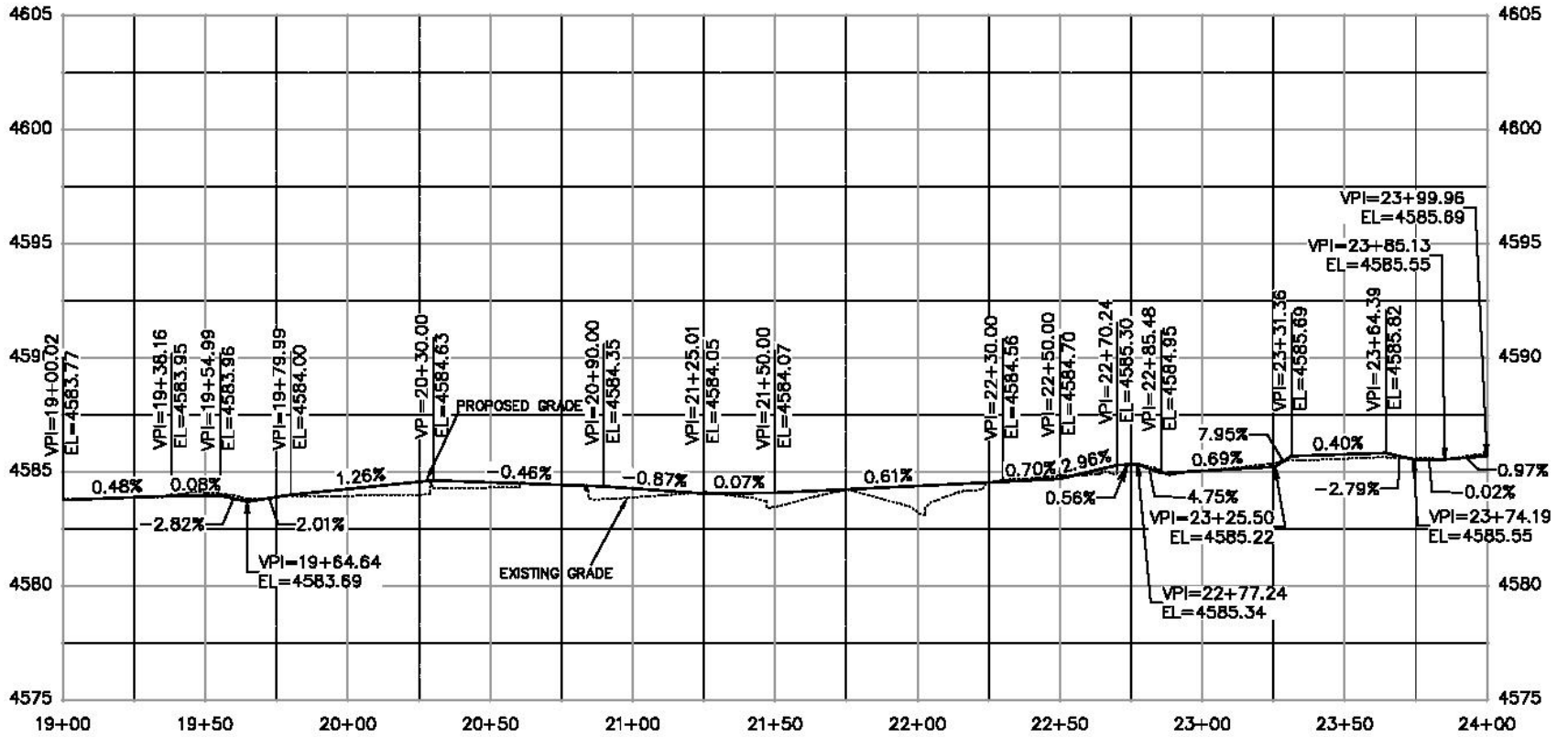
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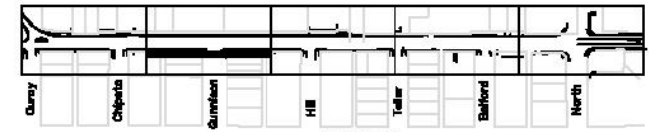
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 19+00 TO STA 24+00**

SEE STAKING PLANS
FOR STAKING DATA



BACK OF WALK EAST (RIGHT) (2)



KEYMAP

N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\PLAN\STATION\ROADWAY PROFILE.dwg, 7/13/2016 2:40:31 PM

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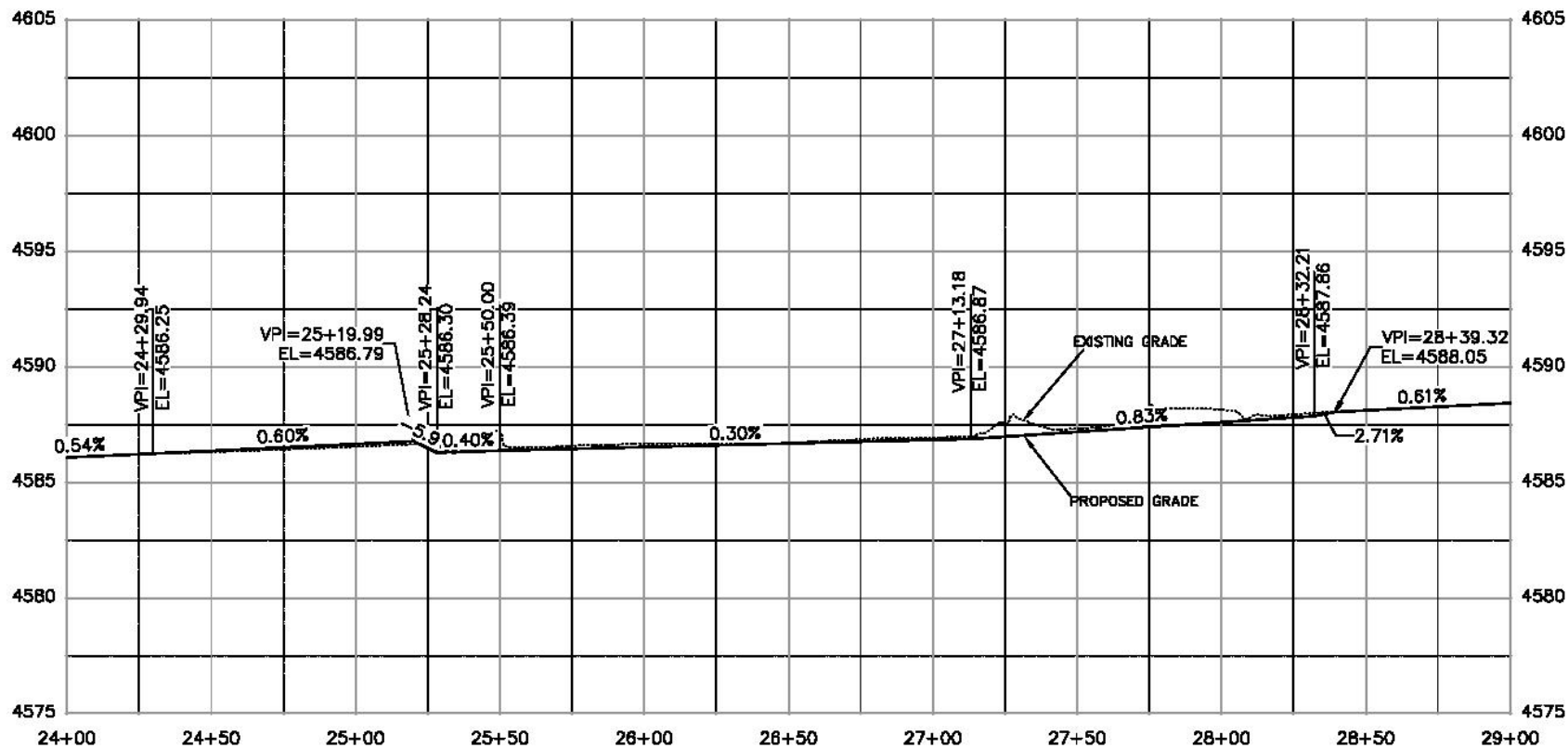
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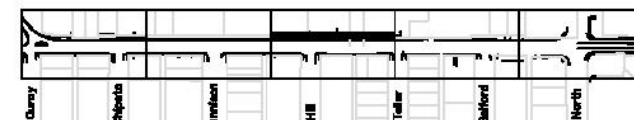
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 19+00 TO STA 24+00**

SEE STAKING PLANS
FOR STAKING DATA



BACK OF WALK WEST (LEFT) (3)



KEYMAP

N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\UTIL\ROADWAY\WAY PROFILE.dwg, 7/13/2016 2:41:43 PM

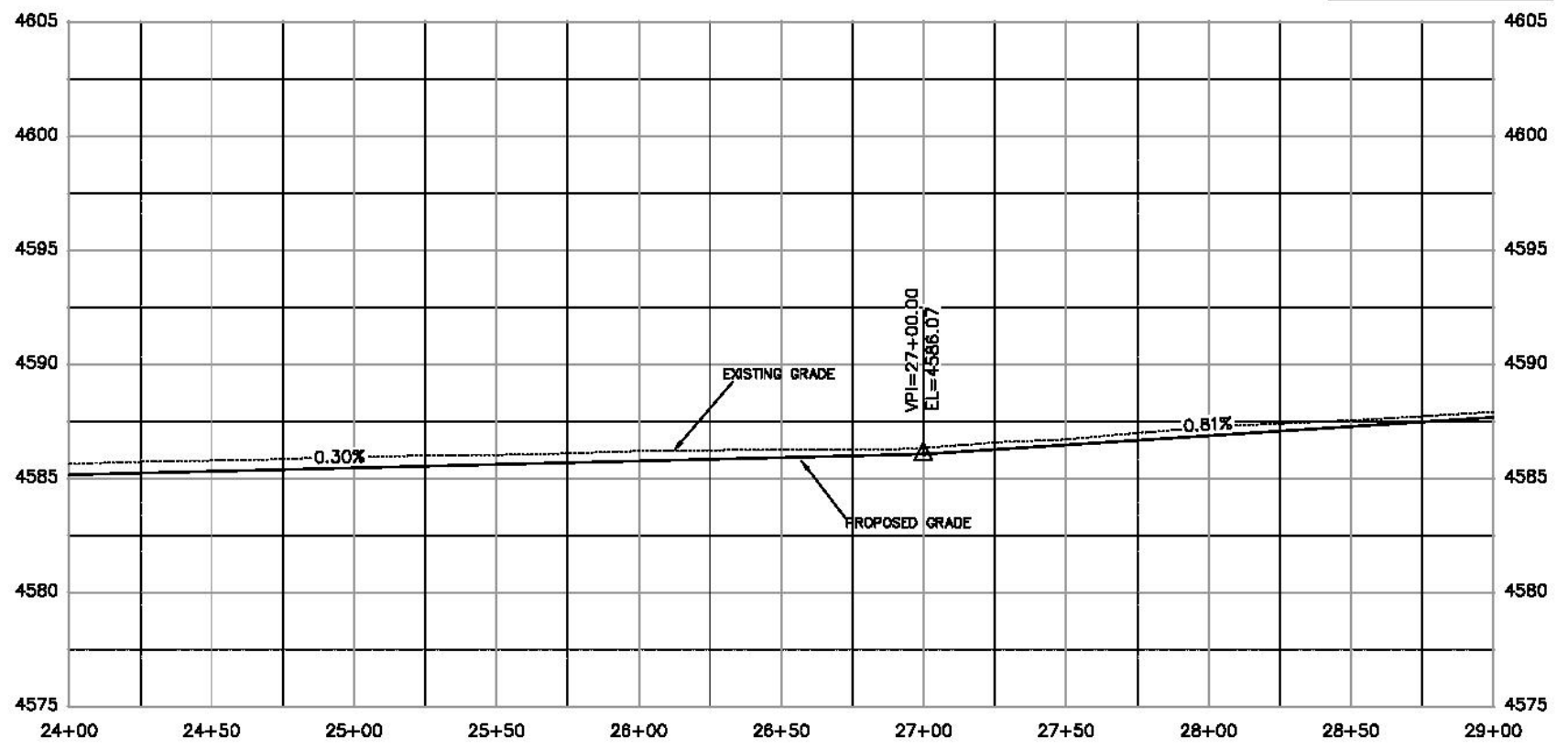
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REVISION C	SEE	2012	ASB	2012	ASB	2012		
REVISION D	SEE	2012	ASB	2012	ASB	2012		



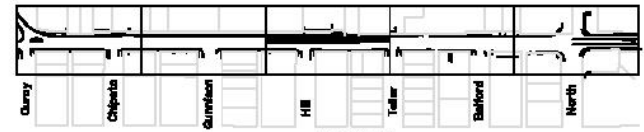
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 24+00 TO STA 29+00**

SEE STAKING PLANS
FOR STAKING DATA



FLOW LINE OF GUTTER WEST (3)



KEYMAP

N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\1\UTIL\ROADWAY\WAY PROFILE.dwg, 7/13/2016 2:42:32 PM

REVISION	DATE	BY	CHKD
REVISION A	2016	ASB	ASB
REVISION B	2016	ASB	ASB
REVISION C	2016	ASB	ASB
REVISION D	2016	ASB	ASB

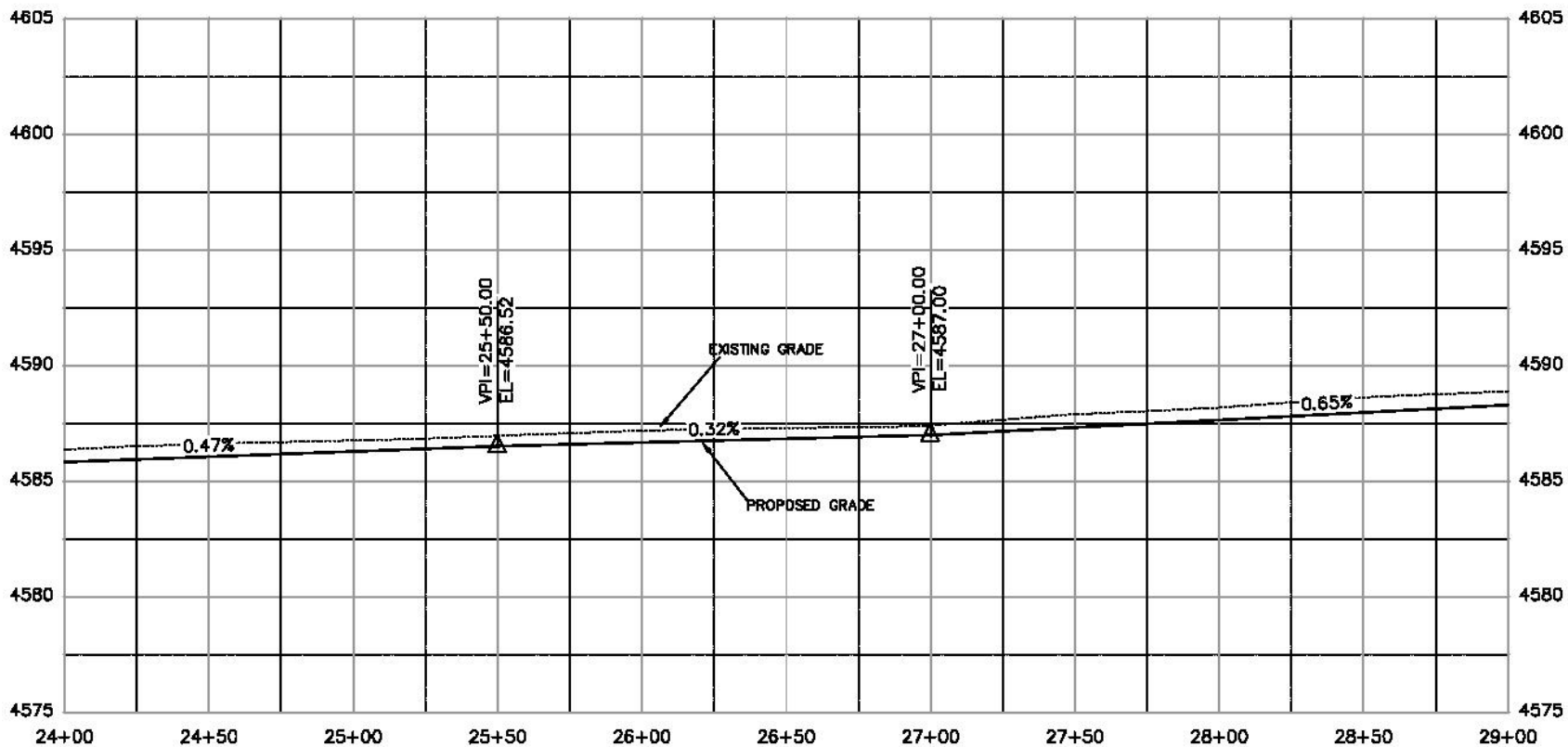
DESIGNED BY: **ASB** DATE: 2016
 CHECKED BY: **ASB** DATE: 2016
 APPROVED BY: **TCF** DATE: 2016



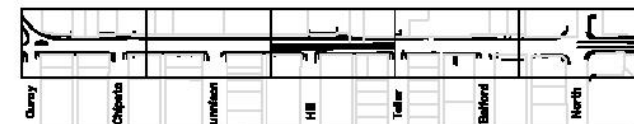
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 24+00 TO STA 29+00**

SEE STAKING PLANS
FOR STAKING DATA



CONTROL-MONUMENT LINE (3)



KEYMAP

N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\UTIL\ROADWAY\WAY PROFILE.dwg, 7/13/2016 2:43:06 PM

REVISION	DATE	BY	DATE
REVISION A	2016	DESIGNED BY	2016
REVISION B	2016	CHECKED BY	2016
REVISION C	2016	APPROVED BY	2016

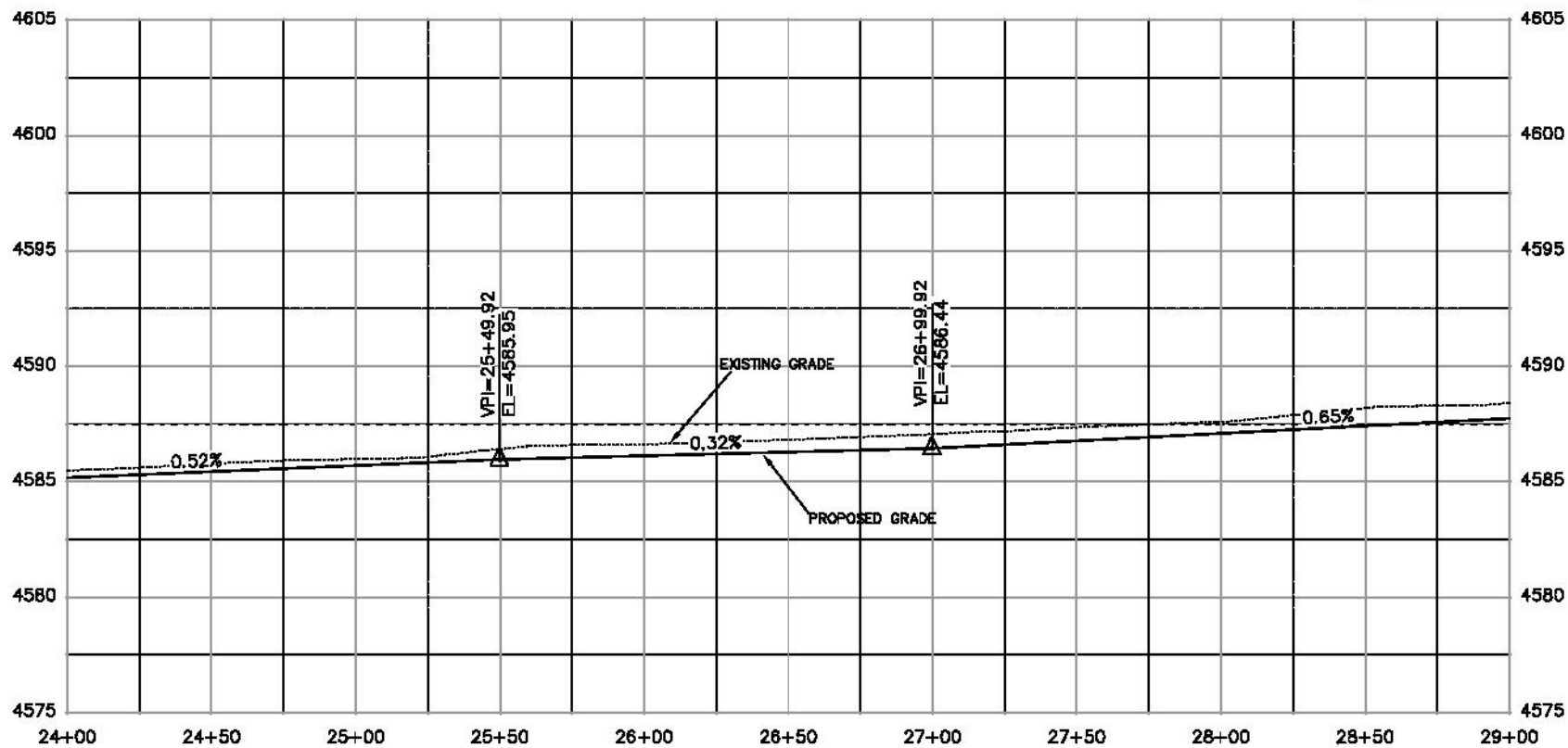
SCALE: PLAN & PROFILE



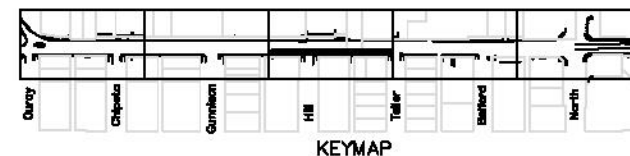
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 24+00 TO STA 29+00**

SEE STAKING PLANS
FOR STAKING DATA



FLOW LINE OF GUTTER EAST (3)



N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\PUBLIC\TIC\NO\AD\WAY PROFILE.dwg, 7/13/2016 2:43:36 PM

REVISION	DATE	DESCRIPTION	BY	DATE
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REVISION B	2016		JCB	2016
REVISION C	2016		JCB	2016
REVISION D	2016		JCB	2016

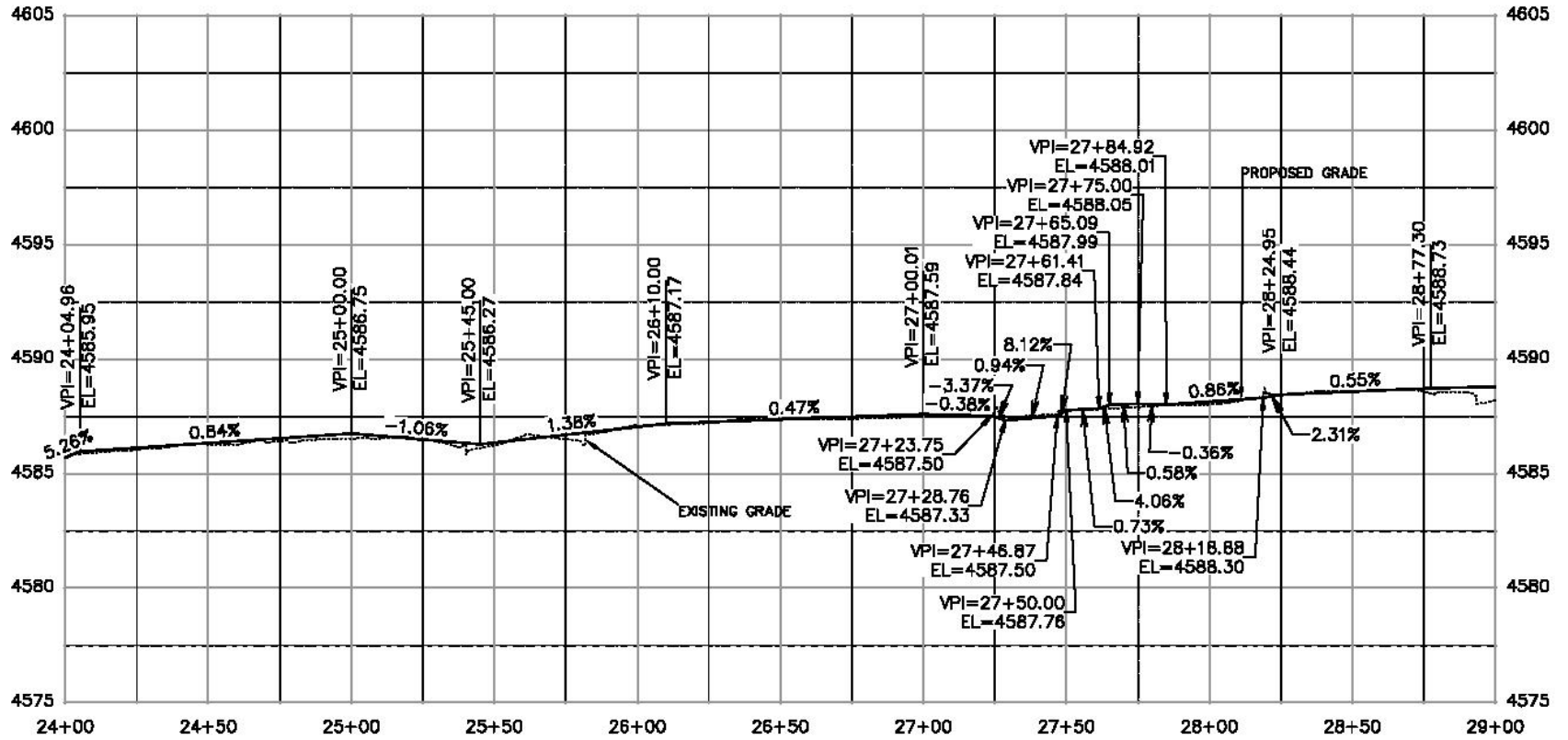
DATE	BY	DATE	BY
DESIGNED BY	JCB	DATE	2016
CHECKED BY	JCB	DATE	2016
APPROVED BY	JCB	DATE	2016



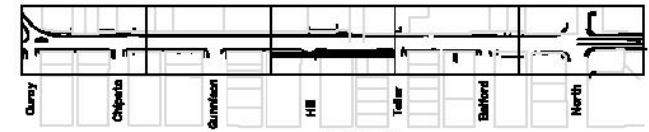
PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 24+00 TO STA 29+00

SEE STAKING PLANS
FOR STAKING DATA



BACK OF WALK EAST (RIGHT) (3)



KEYMAP

N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\UTIL\LOCATION\ROADWAY PROFILE.dwg, 7/13/2016 2:44:13 PM

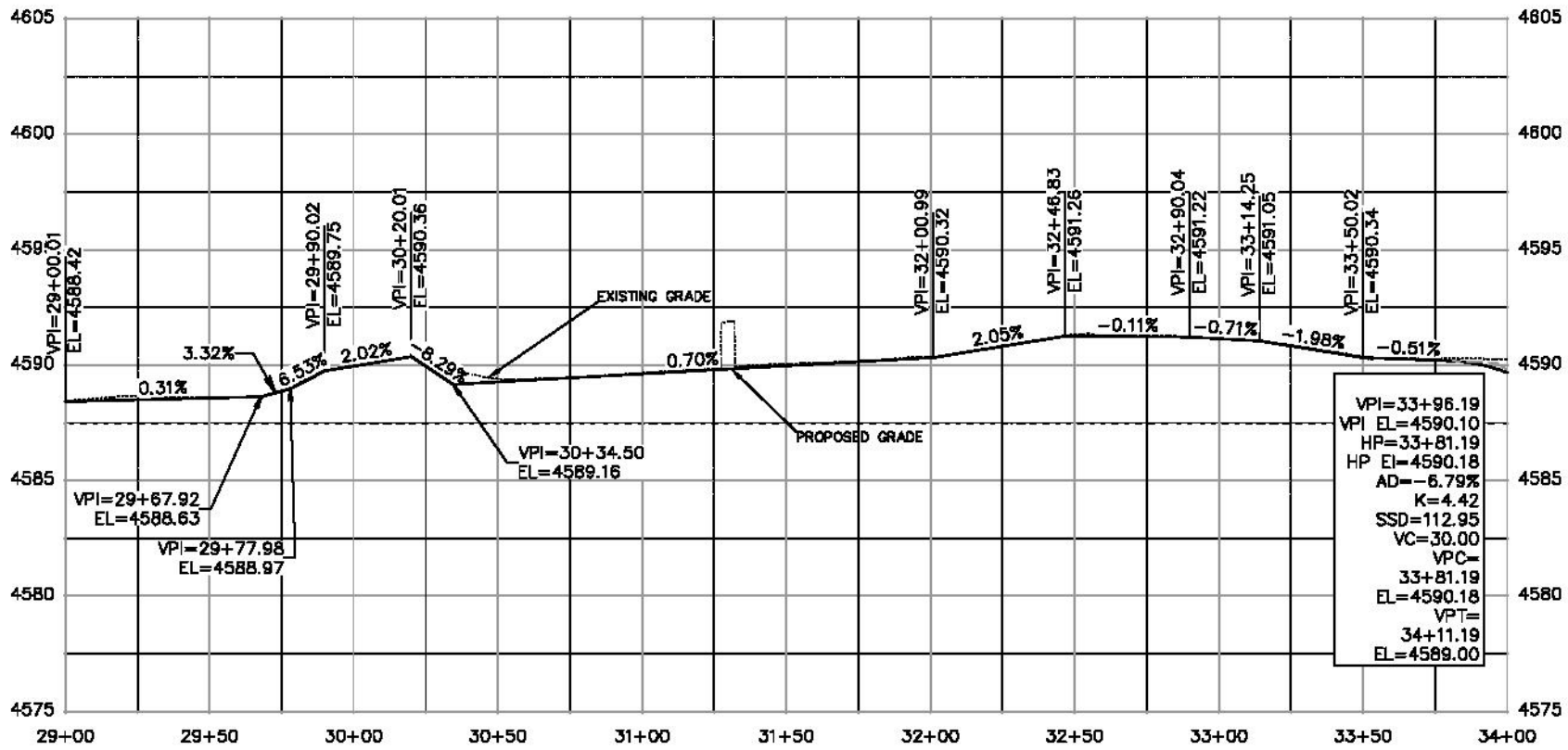
REVISION	DATE	DESIGNED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
REVISION A	2016	ASB	2016				
REVISION B	2016	ASB	2016				
REVISION C	2016	ASB	2016				
REVISION D	2016	ASB	2016				



PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

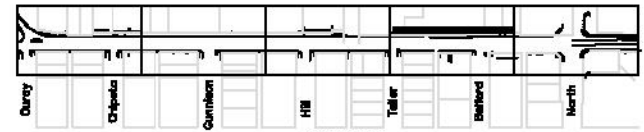
1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 24+00 TO STA 29+00

SEE STAKING PLANS
FOR STAKING DATA



VPI=33+96.19
VPI EL=4590.10
HP=33+81.19
HP EL=4590.18
AD=-6.79%
K=4.42
SSD=112.95
VC=30.00
VPC=33+81.19
EL=4590.18
VPT=34+11.19
EL=4589.00

BACK OF WALK WEST (LEFT) (4)



KEYMAP

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE 2018	SCALE
REVISION A			JCE	2018	AS SHOWN
REVISION B			JCE	2018	
REVISION C			JCE	2018	
REVISION D			JCE	2018	

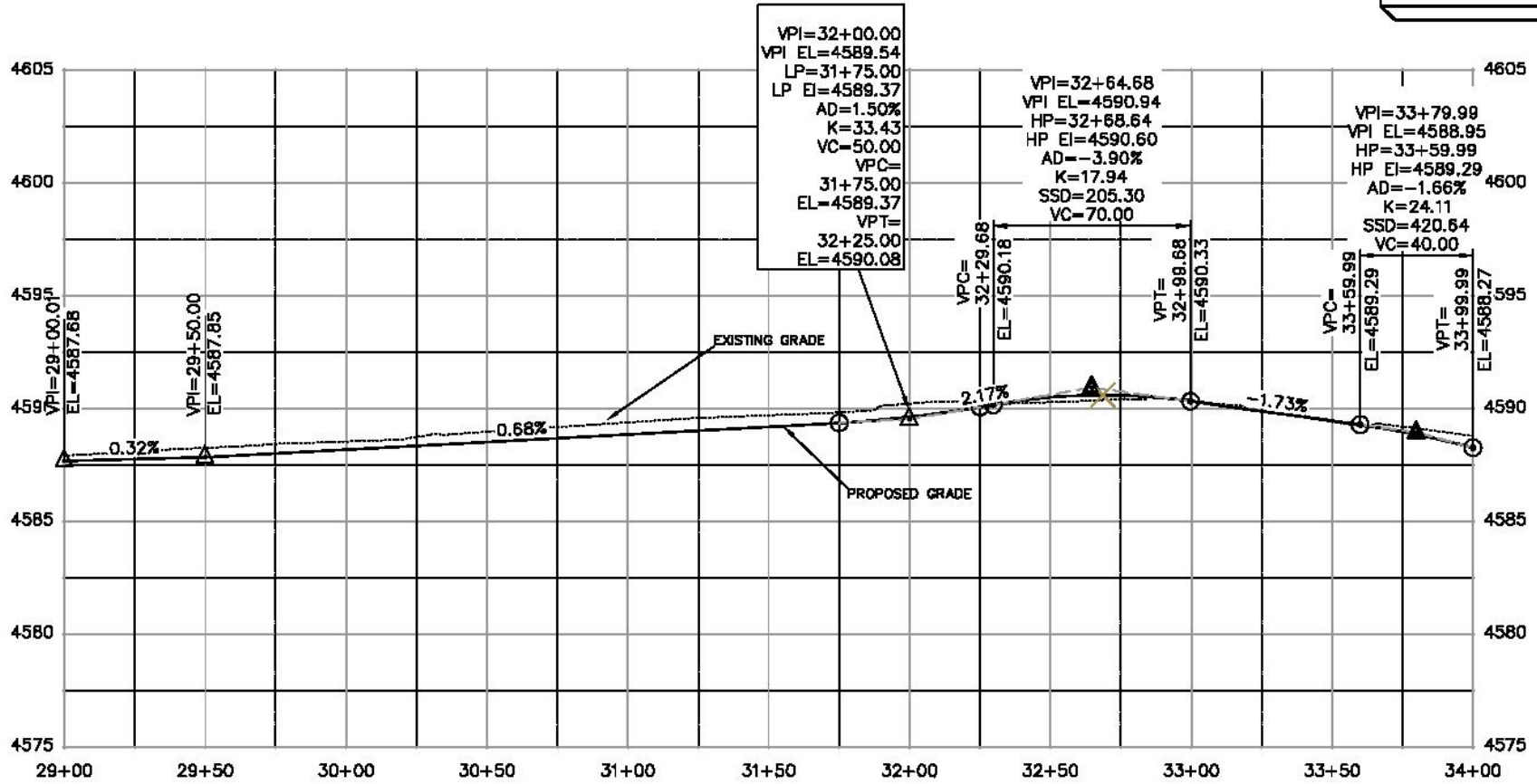


PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

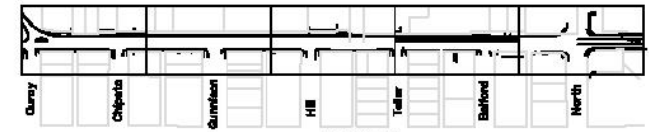
1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 29+00 TO STA 34+00

N:\Landscape\2018 1st Street Reconstruction (F1501)\DWG\PUBLICATION\ROADWAY\PROFILE.dwg, 016 80W 2994 W, 12/10/2018 4:42:50 PM

SEE STAKING PLANS
FOR STAKING DATA



FLOW LINE OF GUTTER WEST (4)



KEYMAP

N:\Landings\2015 1st Street Reconstruction (F1501)\DWG\UTIL\ROADWAY\PROFILE.dwg, 8/2/2016 9:36:07 AM

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REVISION B	2016				
REVISION C	2016				
REVISION D	2016				

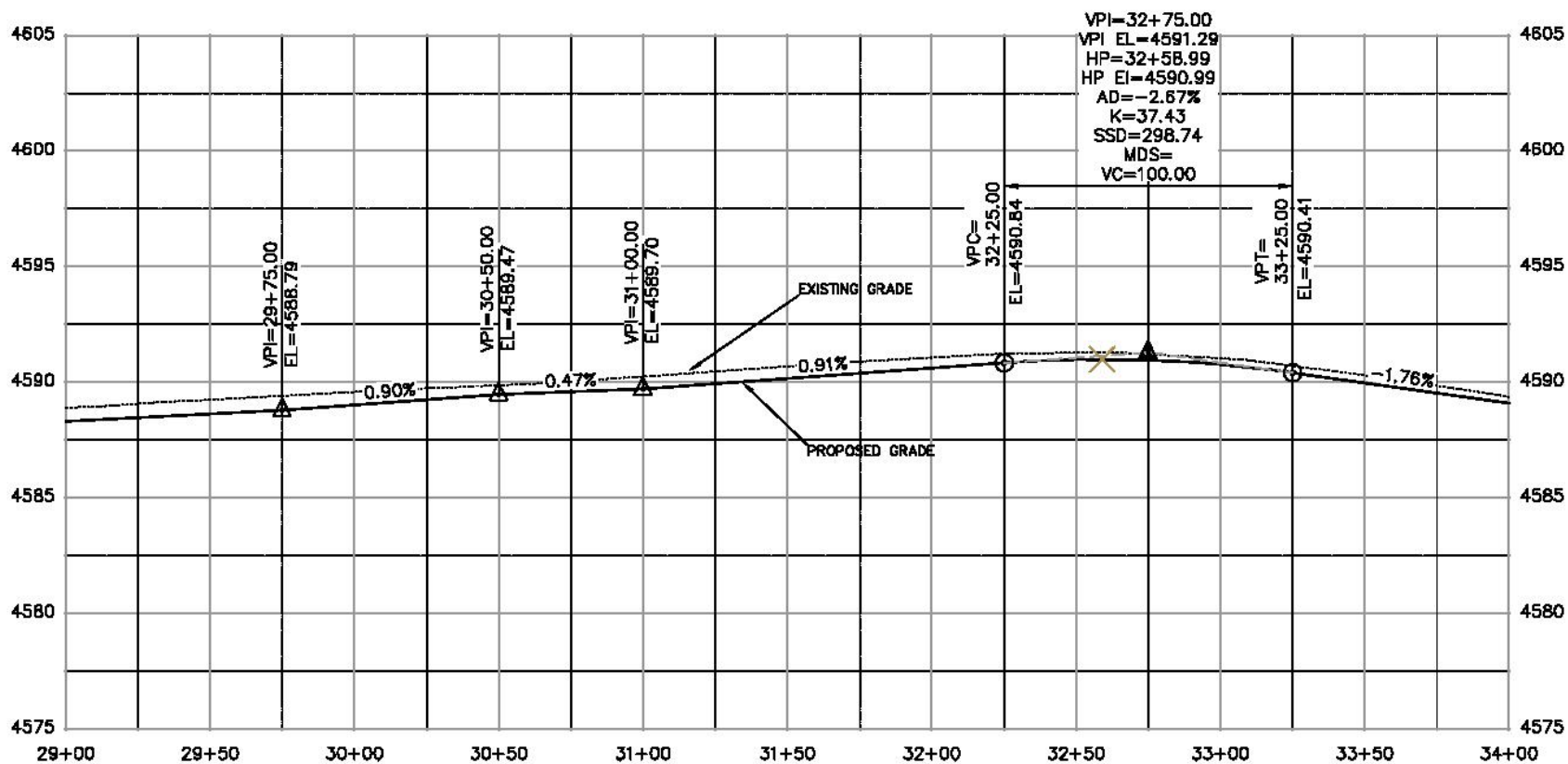
DESIGNED BY	AKR	DATE	2016
CHECKED BY	MSB	DATE	2016
APPROVED BY	TCF	DATE	2016



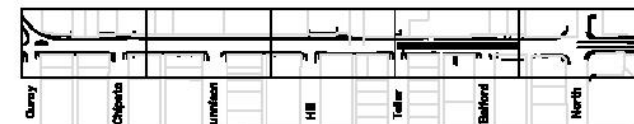
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 29+00 TO STA 34+00**

SEE STAKING PLANS
FOR STAKING DATA



CONTROL-MONUMENT LINE (4)



KEYMAP

N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\APPLICATION\ROADWAY PROFILE.dwg, 7/13/2016 2:47:04 PM

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REVISION B	2016	ASB	2016
REVISION C	2016	ASB	2016
REVISION D	2016	ASB	2016

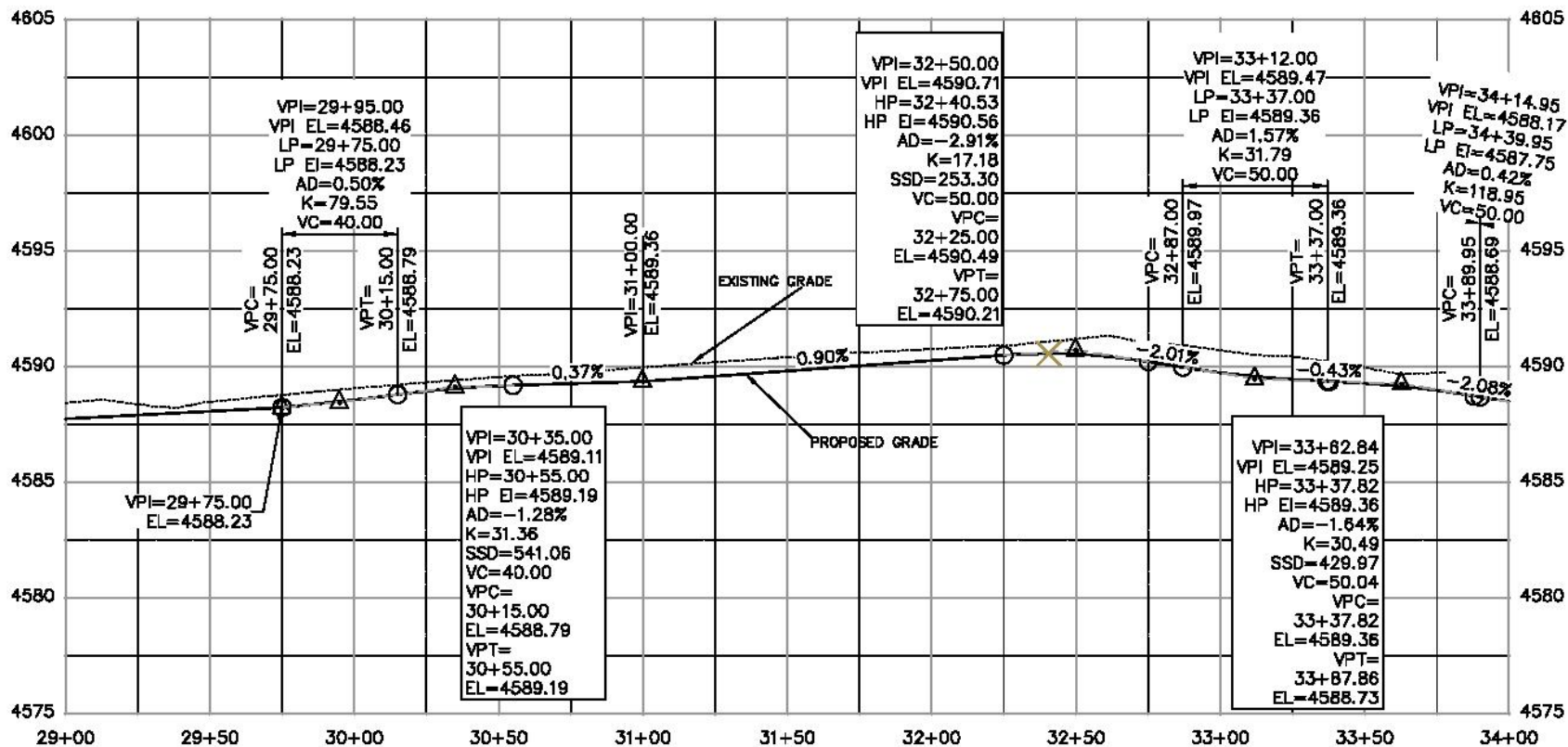
DESIGNER	DATE
ASB	2016



**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 29+00 TO STA 34+00**

SEE STAKING PLANS
FOR STAKING DATA



FLOW LINE OF GUTTER EAST (4)



N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\PA\UTILCATION\ROADWAY PROFILE.dwg, 8/2/2016 9:03:53 AM

REVISION	DATE	BY	CHKD	APP'D
REVISION A	2016	ASB	ASB	ASB
REVISION B	2016	ASB	ASB	ASB
REVISION C	2016	ASB	ASB	ASB
REVISION D	2016	ASB	ASB	ASB

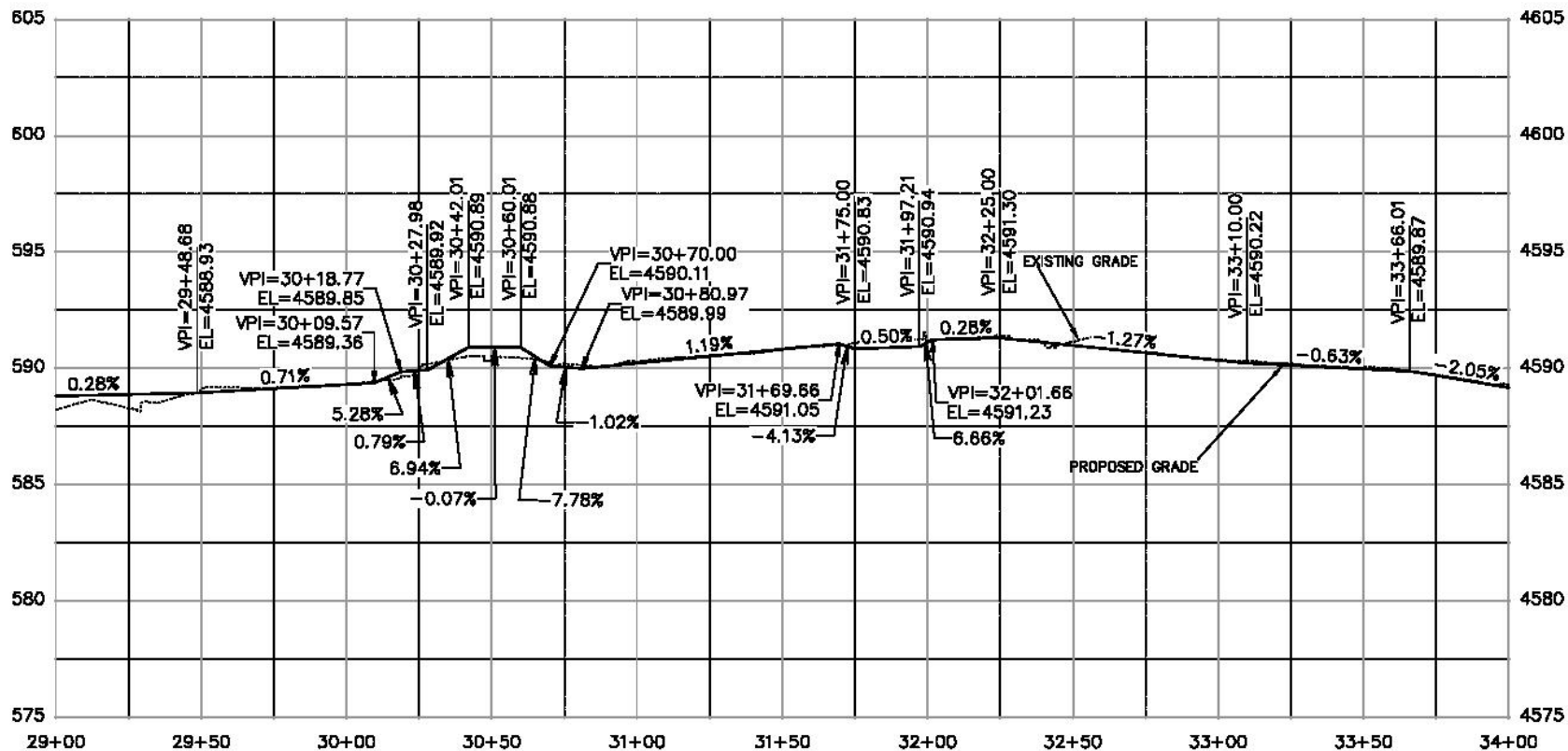
DATE	BY	CHKD	APP'D
2016	ASB	ASB	ASB
2016	ASB	ASB	ASB
2016	ASB	ASB	ASB



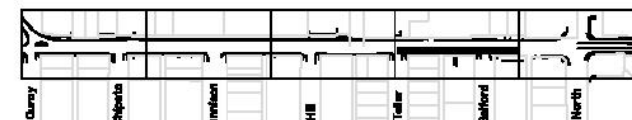
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 29+00 TO STA 34+00**

SEE STAKING PLANS
FOR STAKING DATA



BACK OF WALK EAST (RIGHT) (4)



KEYMAP

N:\Land\proj\2015 1st Street Reconstruction (F1501)\DWG\PLAN\STATION\ROADWAY PROFILE.dwg, 7/13/2016 2:46:33 PM

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REVISION B	2012	CHECKED BY	DATE 2012
REVISION C	2012	APPROVED BY	DATE 2012

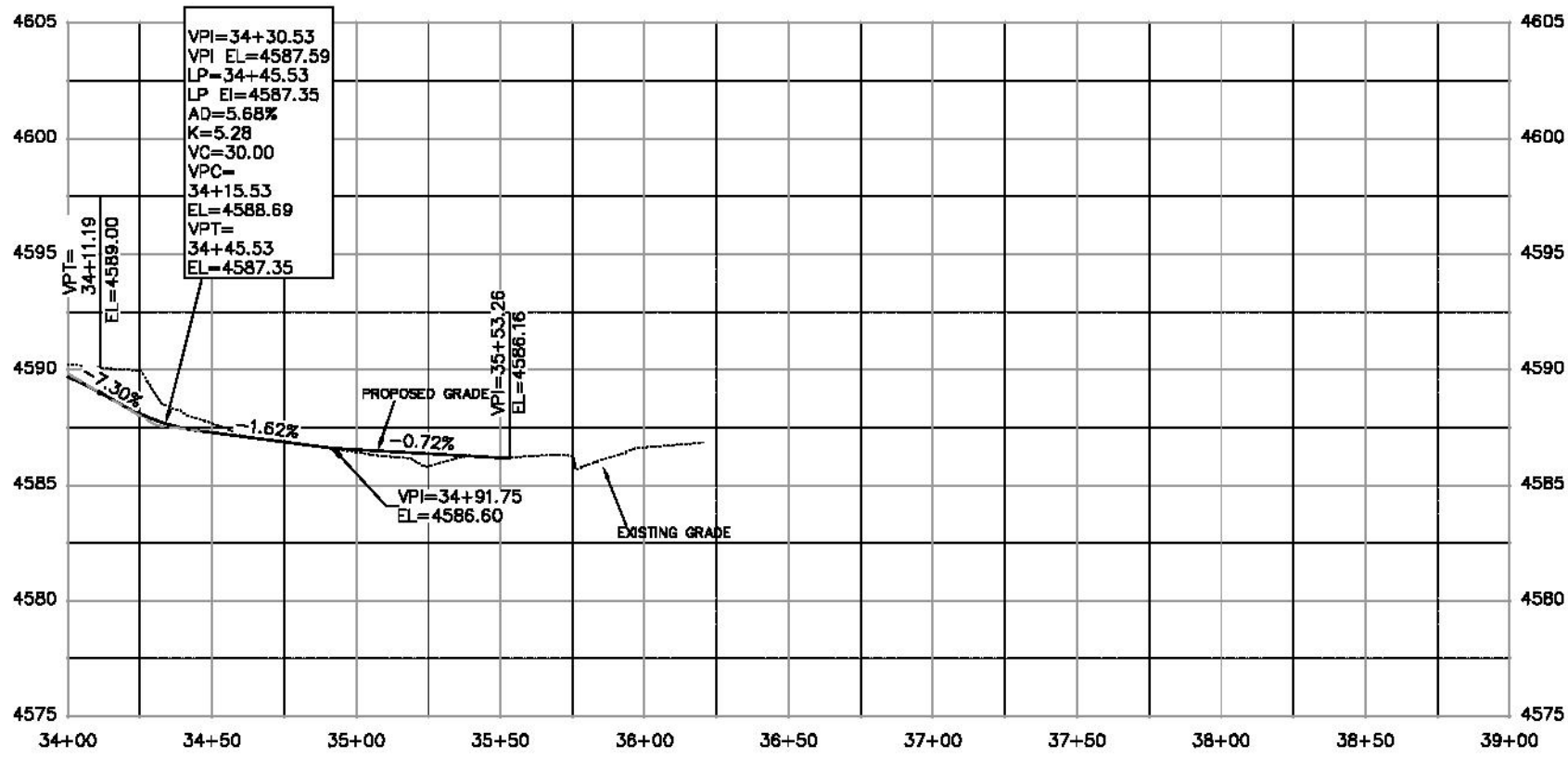
SCALE	DATE
PLAN & PROFILE	2012



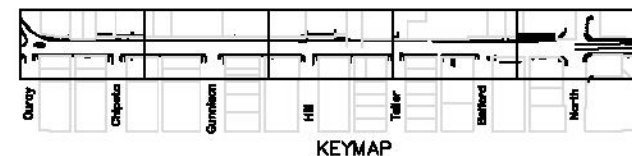
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 29+00 TO STA 34+00**

SEE STAKING PLANS
FOR STAKING DATA



BACK OF WALK WEST (LEFT) (5)



N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\PLAN\LOCATION\ROADWAY PROFILE.dwg, 8/2/2016 9:05:48 AM

REVISION	DATE	DESCRIPTION	BY	DATE
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REVISION B	2016		JCB	2016
REVISION C	2016		JCB	2016
REVISION D	2016		JCB	2016

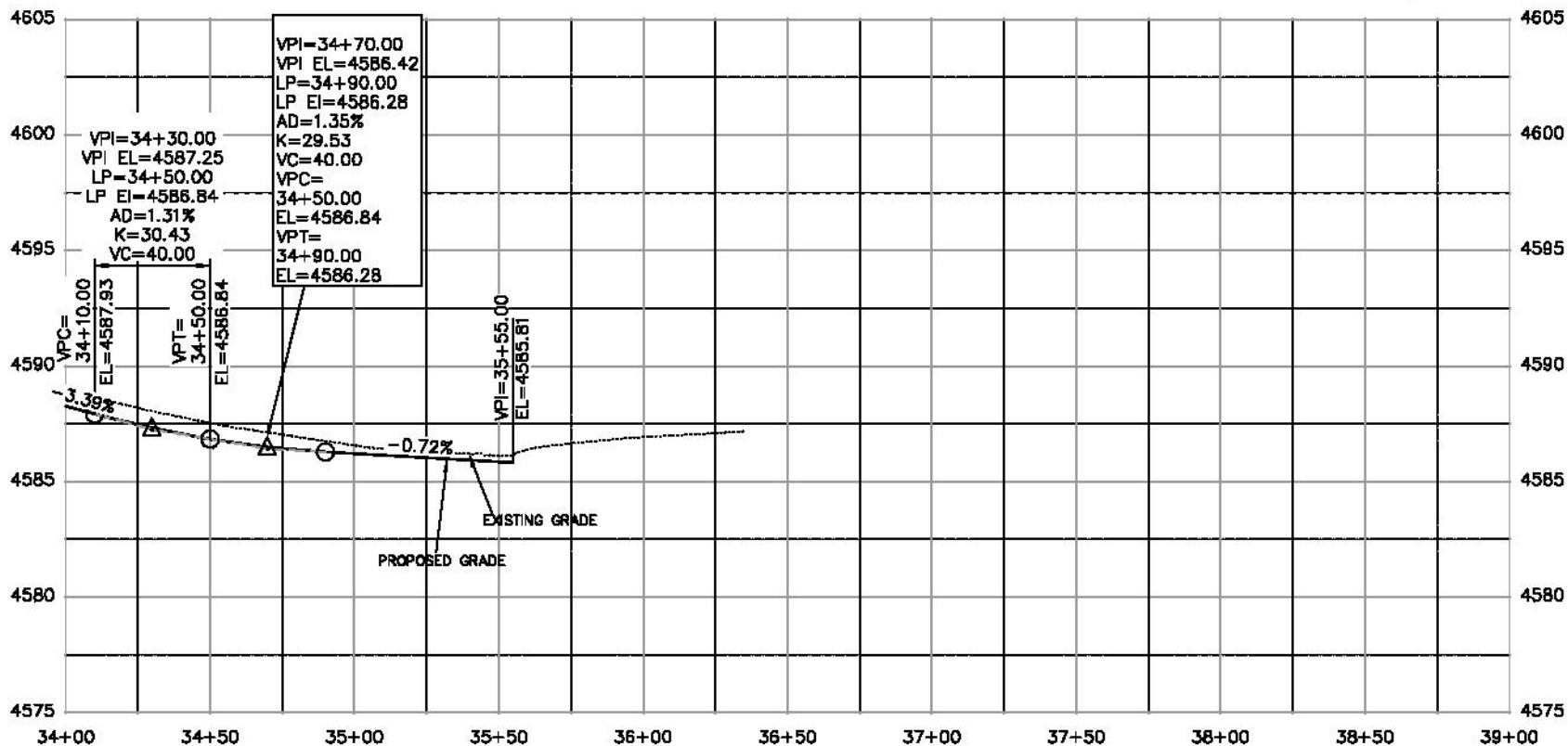
DESIGNED BY	DATE
JCB	2016
CHECKED BY	DATE
JCB	2016
APPROVED BY	DATE
JCB	2016



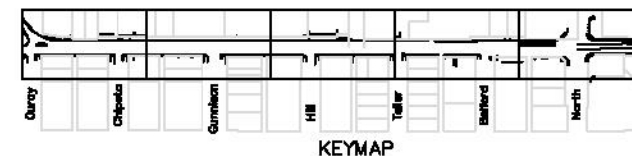
PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 34+00 TO STA 39+00

SEE STAKING PLANS
FOR STAKING DATA



FLOW LINE OF GUTTER WEST (5)



N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\PLAN\LOCATION\NOADWAY PROFILE.dwg, 8/2/2016 9:07:03 AM

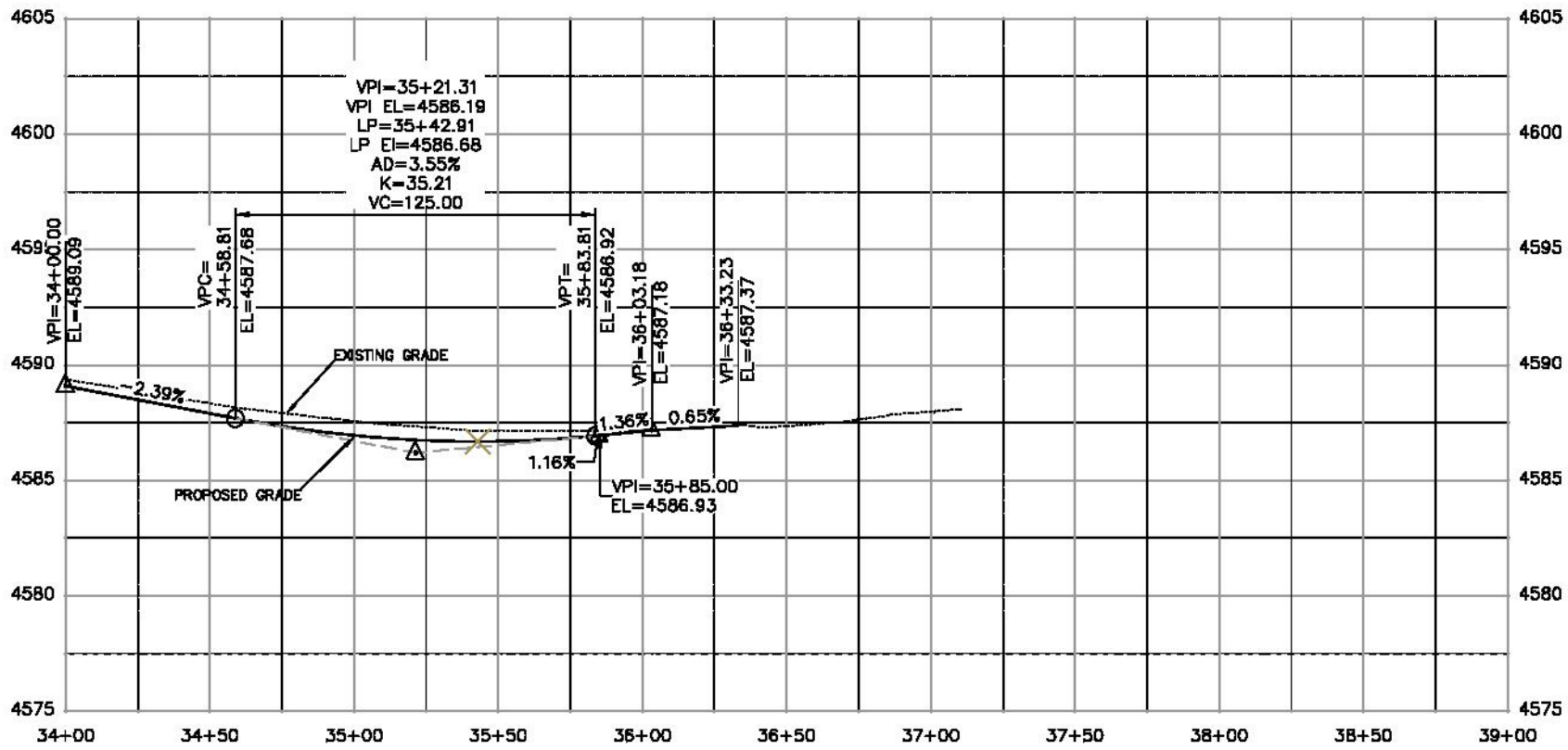
REVISION	DATE	DESIGNED BY	DATE	APPROVED BY	DATE
REVISION A	2016	JOB	2016		
REVISION B	2016	JOB	2016		
REVISION C	2016	JOB	2016		
REVISION D	2016	JOB	2016		



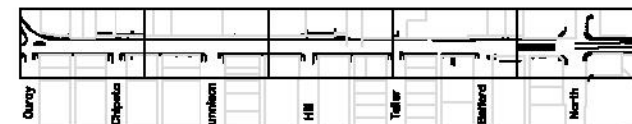
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 34+00 TO STA 39+00**

SEE STAKING PLANS
FOR STAKING DATA



CONTROL-MONUMENT LINE (5)



KEYMAP

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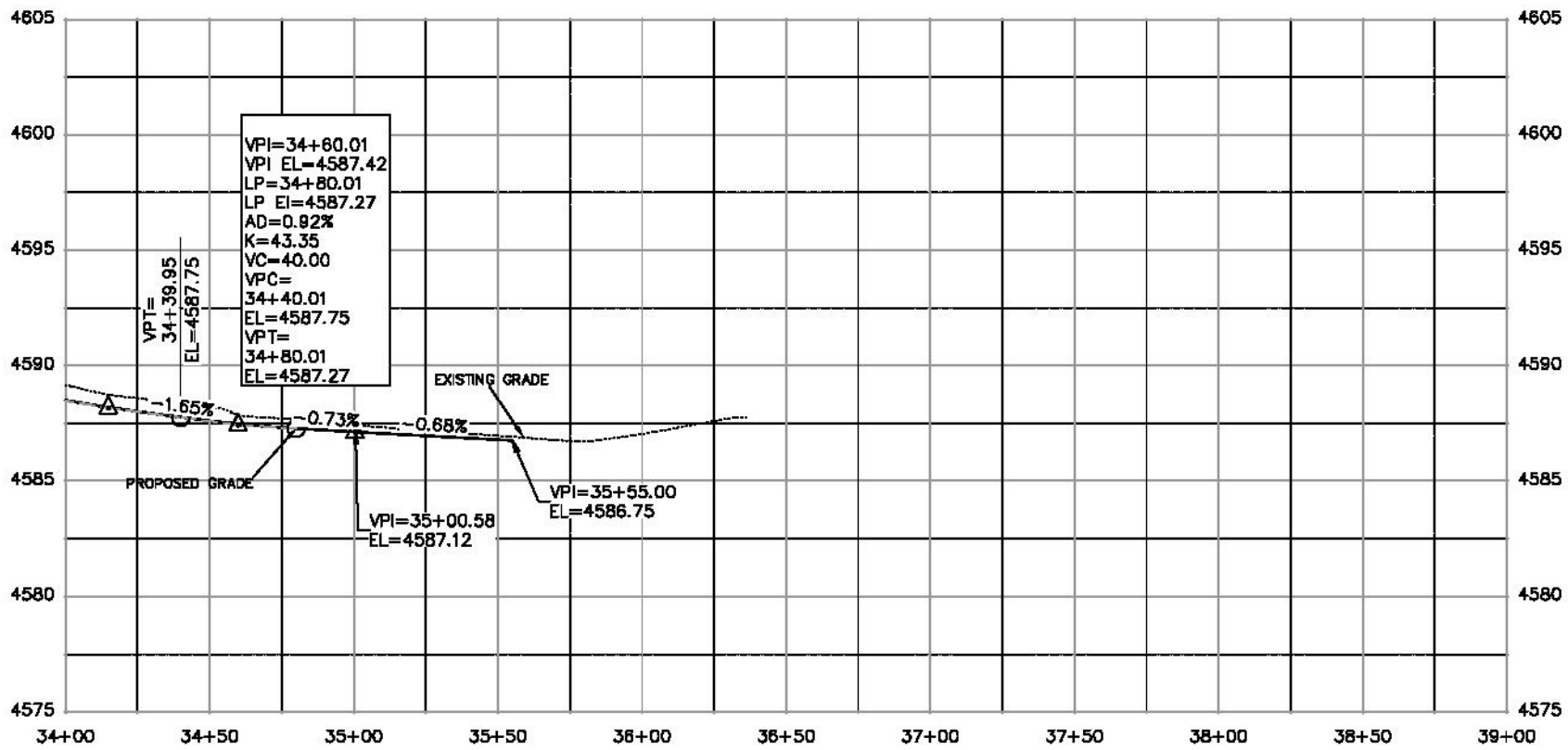
REVISION	DATE	DRAWN BY	DATE	APPROVED BY	DATE
REVISION A	2016	JCB	2016	JCB	2016
REVISION B	2016	JCB	2016	JCB	2016
REVISION C	2016	JCB	2016	JCB	2016
REVISION D	2016	JCB	2016	JCB	2016



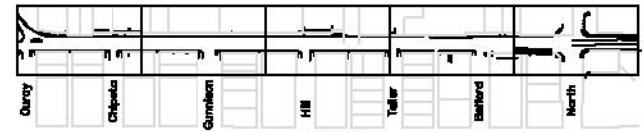
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 34+00 TO STA 39+00**

SEE STAKING PLANS
FOR STAKING DATA



FLOW LINE OF GUTTER EAST (5)



KEYMAP

N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\PLAN\UTIL\LOCATION\ADW\AV PROFILE.dwg, 8/2/2016 9:09:02 AM

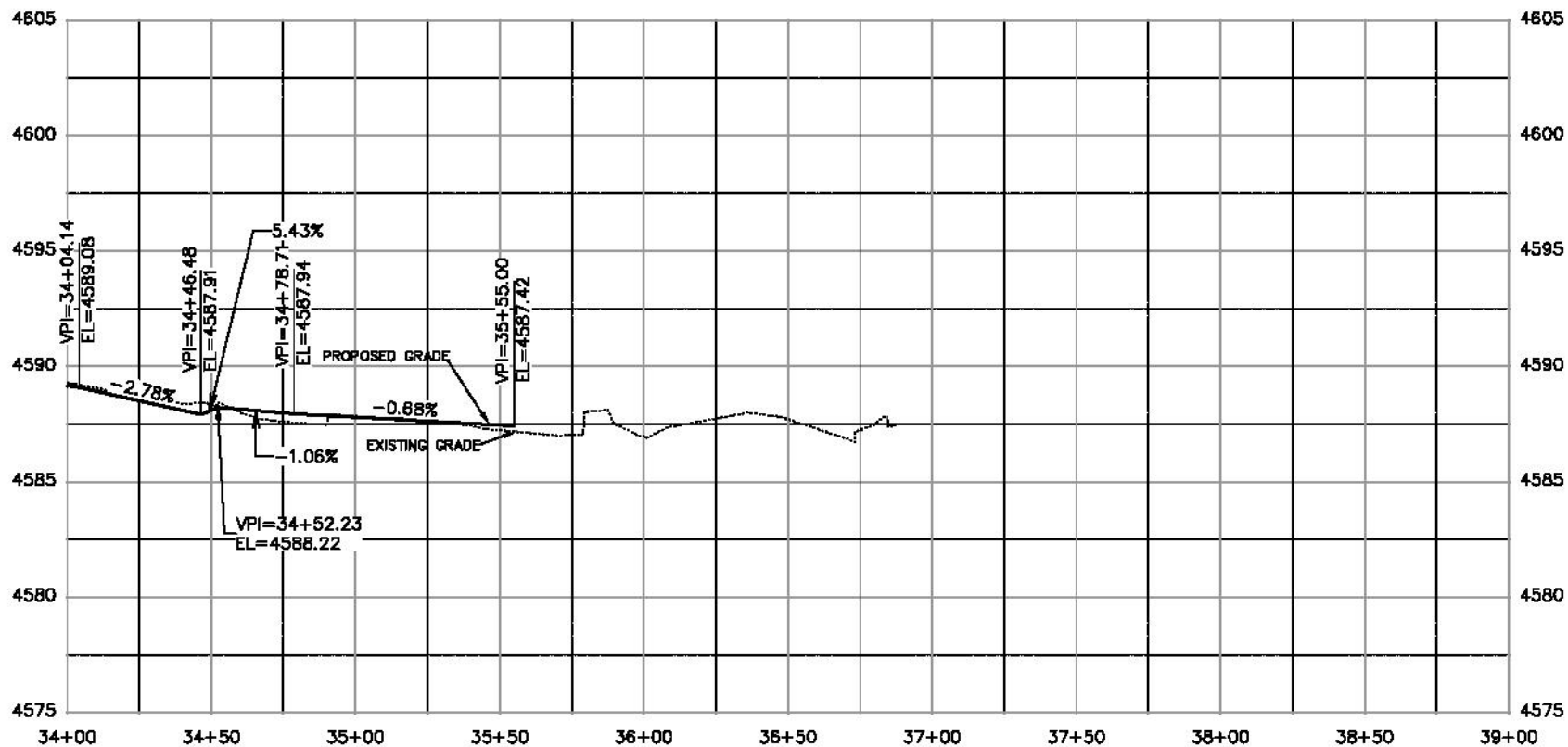
REVISION	DATE	DESIGNED BY	DATE	APPROVED BY	DATE
REVISION A	2016	JCB	2016	JCB	2016
REVISION B	2016	JCB	2016	JCB	2016
REVISION C	2016	JCB	2016	JCB	2016
REVISION D	2016	JCB	2016	JCB	2016



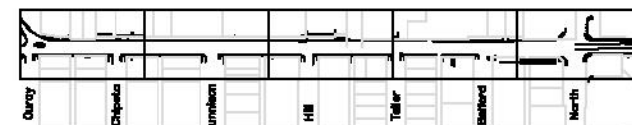
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 34+00 TO STA 39+00**

SEE STAKING PLANS
FOR STAKING DATA



BACK OF WALK EAST (RIGHT) (5)



KEYMAP

N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\PUBLIC\TIC\NOAD\WAY PROFILE.dwg, 7/13/2016 2:53:41 PM

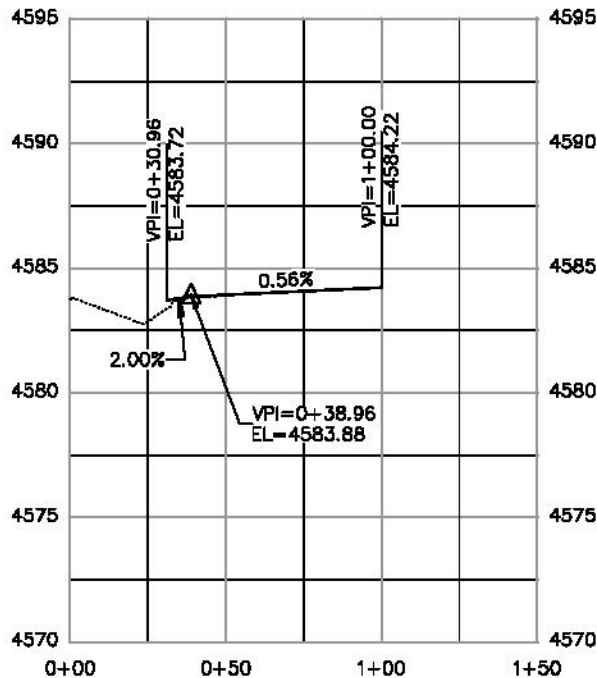
REVISION	DATE	BY	DATE 2018
REVISION A	2018	DESIGNED BY	DATE 2018
REVISION B	2018	CHECKED BY	DATE 2018
REVISION C	2018	APPROVED BY	DATE 2018



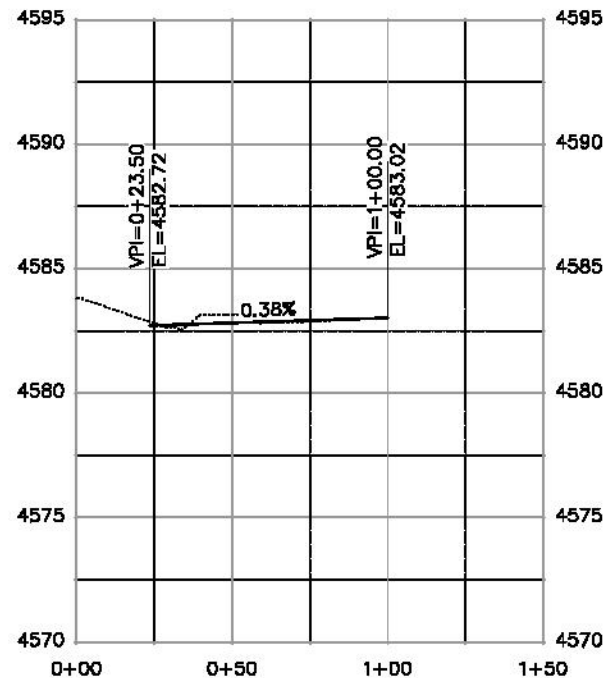
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
STA 34+00 TO STA 39+00**

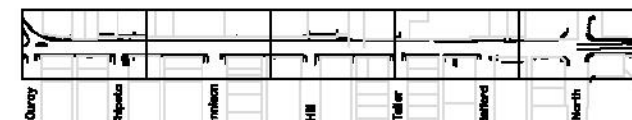
SEE STAKING PLANS
FOR STAKING DATA



CHIPETA NORTH BOW



CHIPETA NORTH FL



KEYMAP

N:\Landing\2015 1st Street Reconstruction (F1501)\DWG\PUBLIC\TIC\NO\AD\WAY PROFILE.dwg, 7/13/2016 2:54:35 PM

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REVISION A	2016			
REVISION B	2016			
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REVISION D	2016			

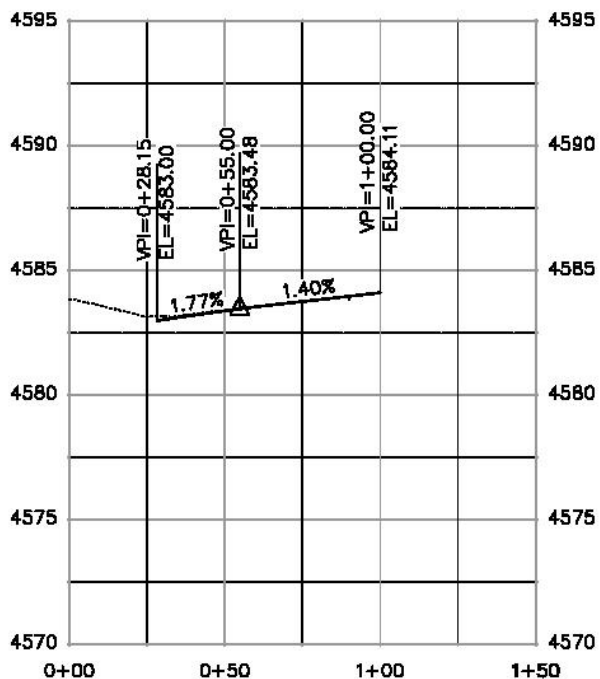
DESIGNED BY	JOB	DATE	2016
CHECKED BY	JOB	DATE	2016
APPROVED BY	JOB	DATE	2016



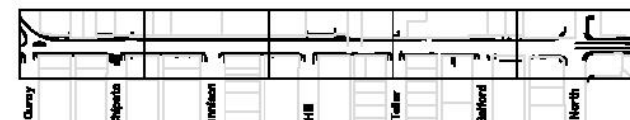
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
CHIPETA NORTH BOW & FL**

SEE STAKING PLANS
FOR STAKING DATA



CHIPETA CL



KEYMAP

N:\Land\proj\2015 1st Street Reconstruction (F1501)\DWG\UTIL\ROADWAY PROFILE.dwg, 7/13/2016 2:26:39 PM

REVISION	DATE	BY	CHKD
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REVISION B	2016	ASB	ASB
REVISION C	2016	ASB	ASB
REVISION D	2016	ASB	ASB

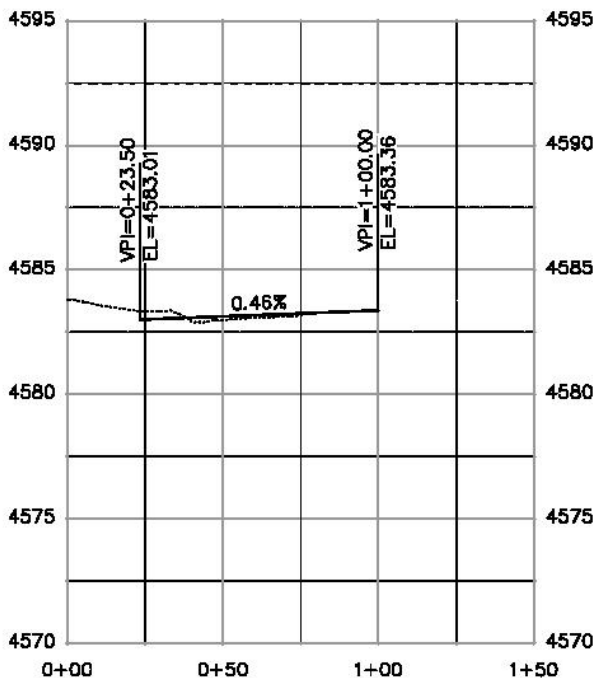
DESIGNED BY	DATE	CHECKED BY	DATE
ASB	2016	ASB	2016
ASB	2016	ASB	2016
ASB	2016	ASB	2016



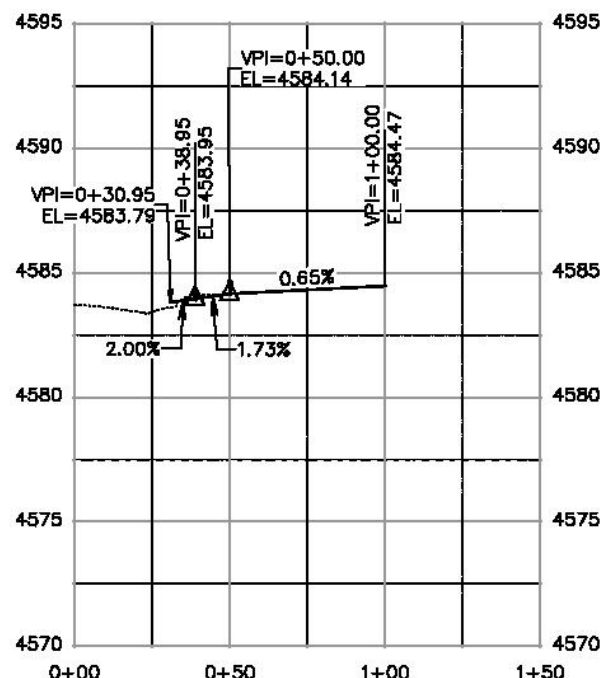
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
CHIPETA CL**

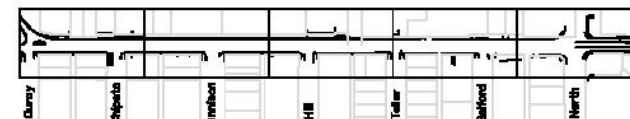
SEE STAKING PLANS
FOR STAKING DATA



CHIPETA SOUTH FL



CHIPETA SOUTH BOW



KEYMAP

N:\Land\proj\2015 1st Street Reconstruction (F1501)\DWG\UTIL\ROADWAY\WAY PROFILE.dwg, 7/13/2016 2:56:20 PM

REVISION	DATE	DESCRIPTION	BY	CHECKED BY	DATE
REVISION A	2016				
REVISION B	2016				
REVISION C	2016				
REVISION D	2016				

DESIGNED BY: JCS DATE: 2016
 CHECKED BY: JCS DATE: 2016
 APPROVED BY: JCS DATE: 2016

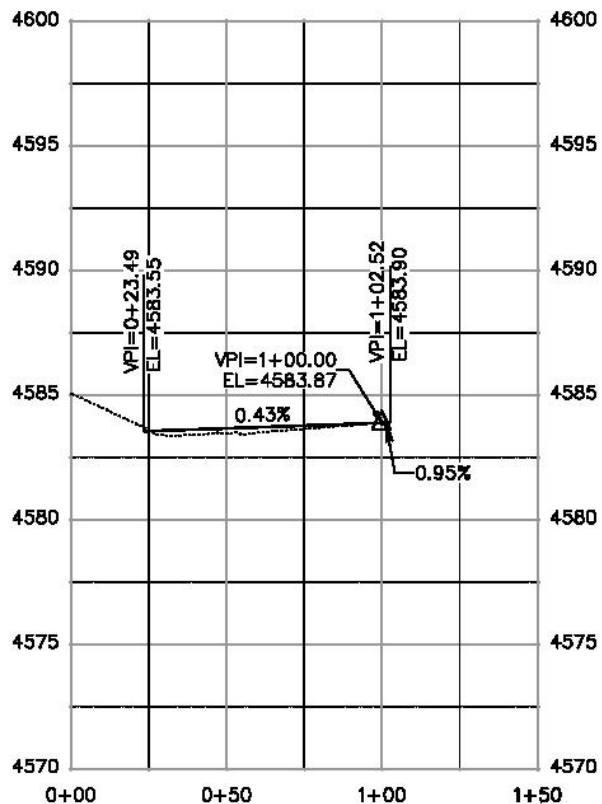
SCALE: PLAN & PROFILE
 1" = 40'



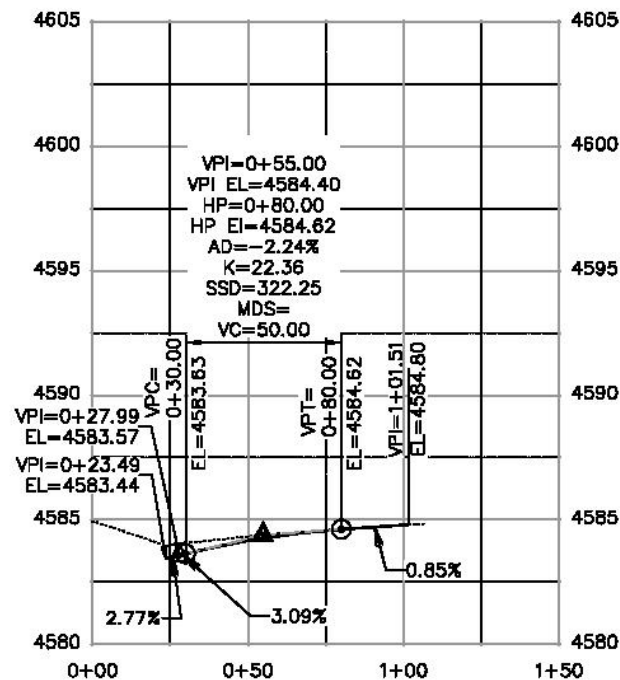
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
CHIPETA SOUTH BOW & FL**

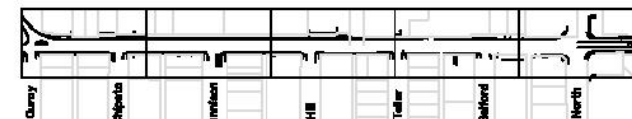
SEE STAKING PLANS
FOR STAKING DATA



GUNNISON NORTH FL



GUNNISON CL



KEYMAP

N:\Land\proj\2015 1st Street Reconstruction (F1501)\DWG\UTIL\ROADWAY PROFILE.dwg, 7/13/2016 2:57:27 PM

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REVISION B	2016				
REVISION C	2016				
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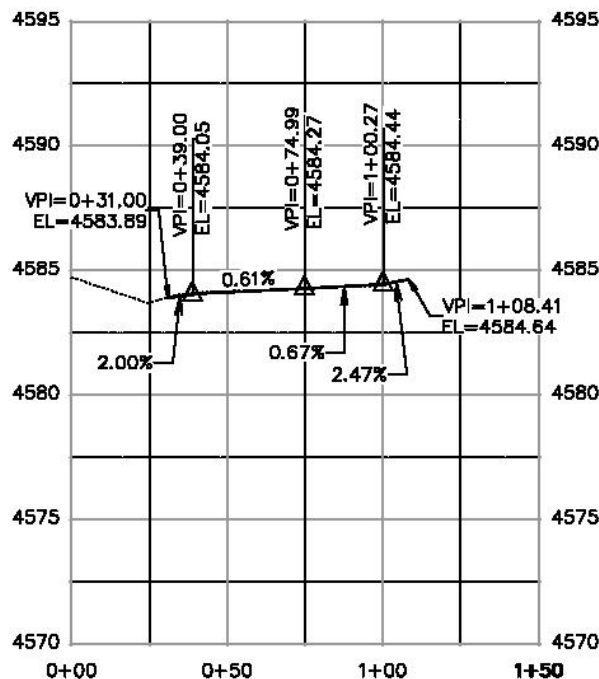
DRAWN BY: ASB DATE: 2016
 CHECKED BY: MSJ/AN DATE: 2016
 APPROVED BY: TCF DATE: 2016



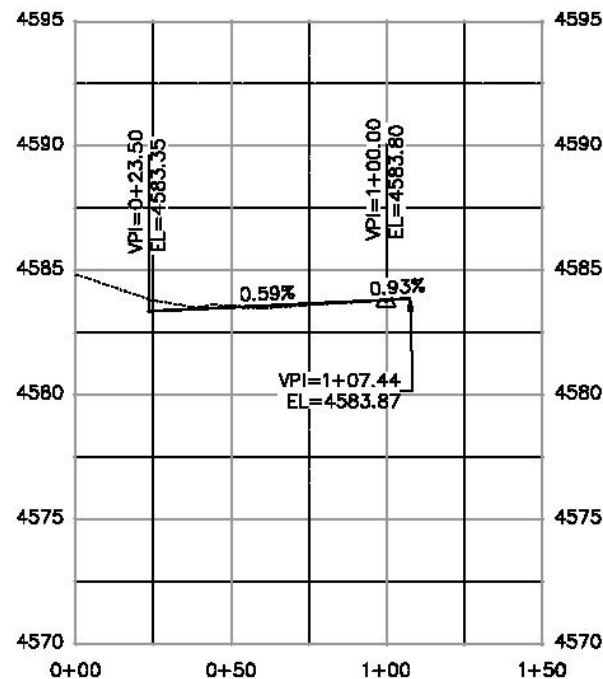
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
GUNNISON NORTH FL & CL**

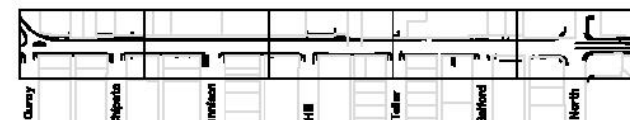
SEE STAKING PLANS
FOR STAKING DATA



GUNNISON SOUTH BOW



GUNNISON SOUTH FL



KEYMAP

N:\Land\proj\2015 1st Street Reconstruction (F1501)\DWG\UTIL\ROADWAY\WAY PROFILE.dwg, 7/13/2016 2:56:37 PM

REVISION	DATE	DESCRIPTION	BY	CHECKED BY	DATE
REVISION A	2016				
REVISION B	2016				
REVISION C	2016				
REVISION D	2016				

DESIGNED BY: JCB DATE: 2016
 CHECKED BY: JCB DATE: 2016
 APPROVED BY: JCB DATE: 2016

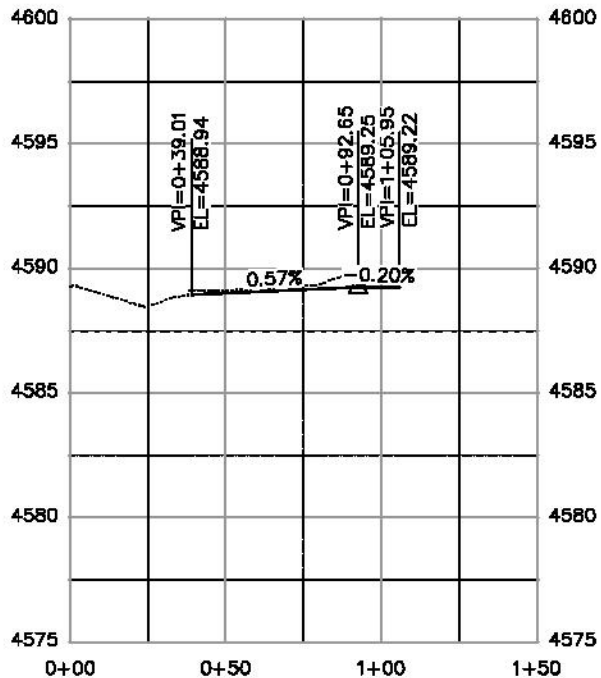
SCALE: PLAN & PROFILE
 1" = 40'



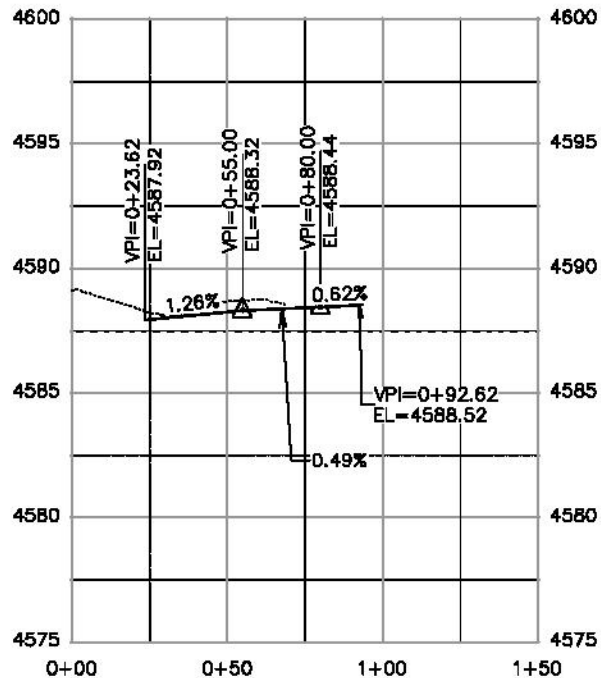
PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
ROADWAY PROFILE
GUNNISON SOUTH BOW & FL

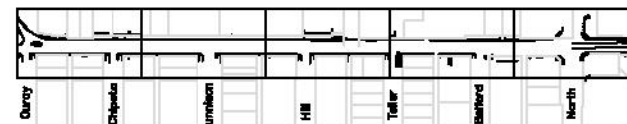
SEE STAKING PLANS
FOR STAKING DATA



TELLER NORTH BOW



TELLER NORTH FL



KEYMAP

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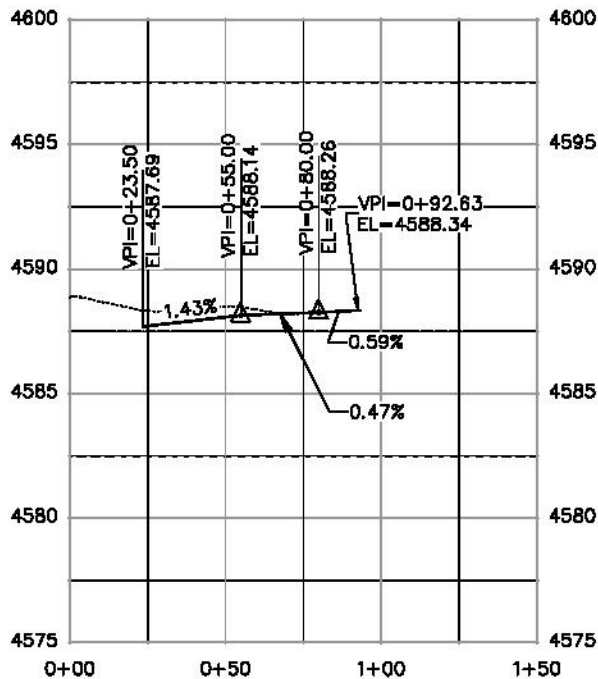
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REVISION A	2016		JCB	2016
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CITY OF
Grand Junction
COLORADO

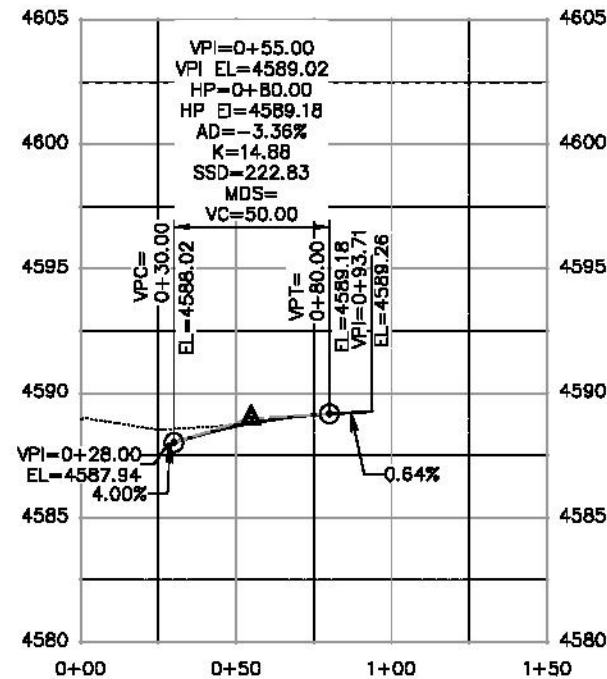
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
TELLER NORTH BOW & FL**

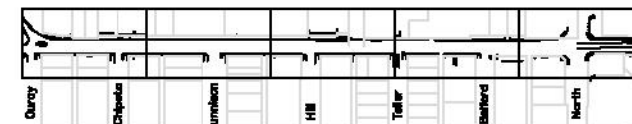
SEE STAKING PLANS
FOR STAKING DATA



TELLER SOUTH FL



TELLER CL



KEYMAP

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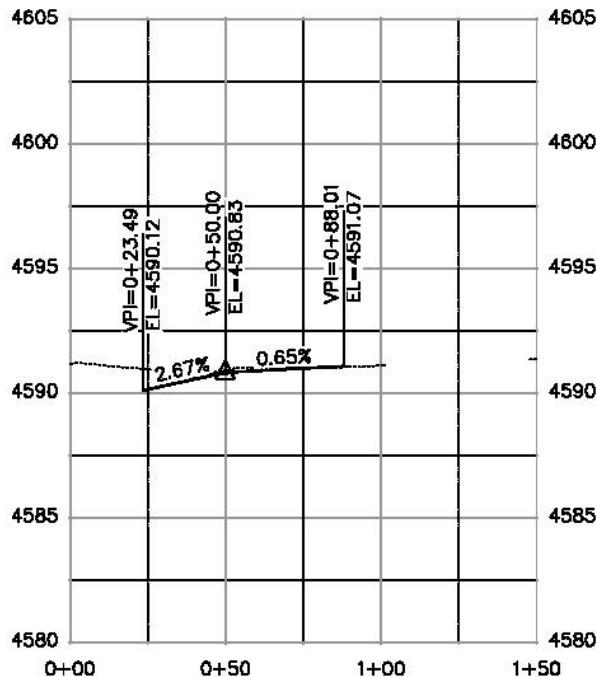
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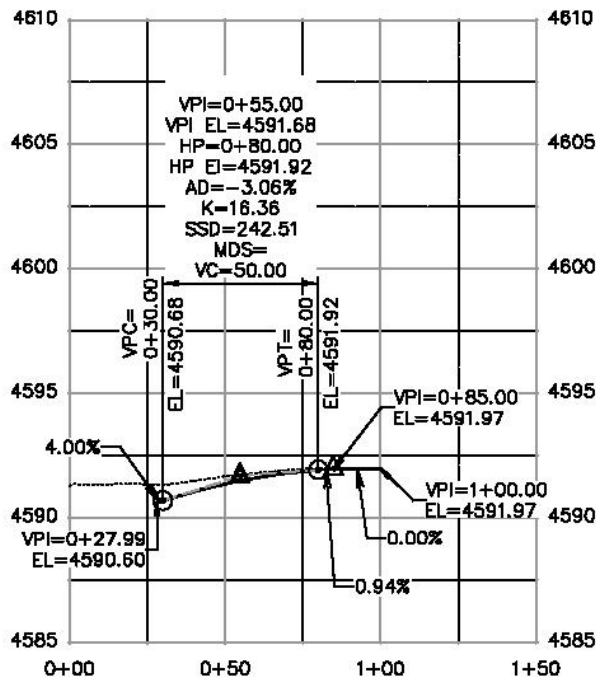
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
TELLER SOUTH FL & CL**

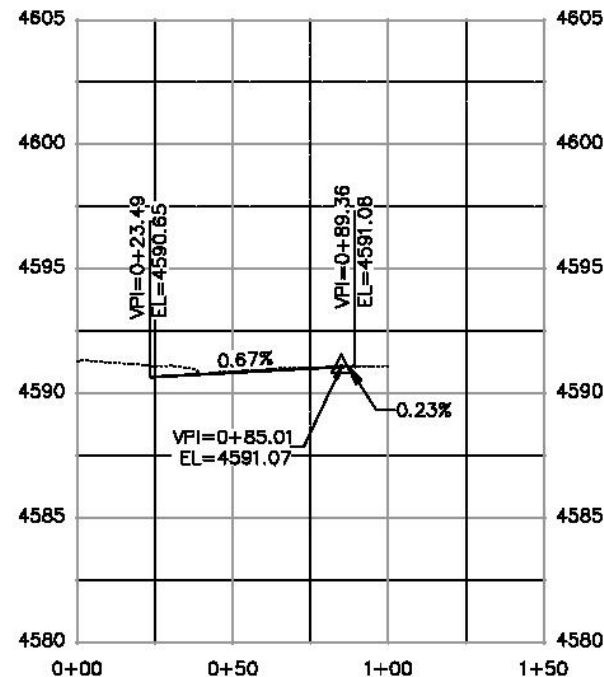
SEE STAKING PLANS
FOR STAKING DATA



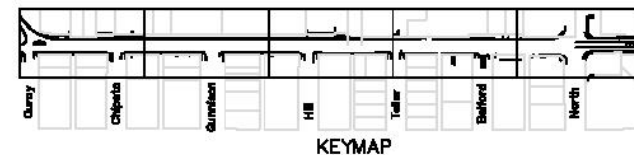
BELFORD NORTH FL



BELFORD CL



BELFORD SOUTH FL



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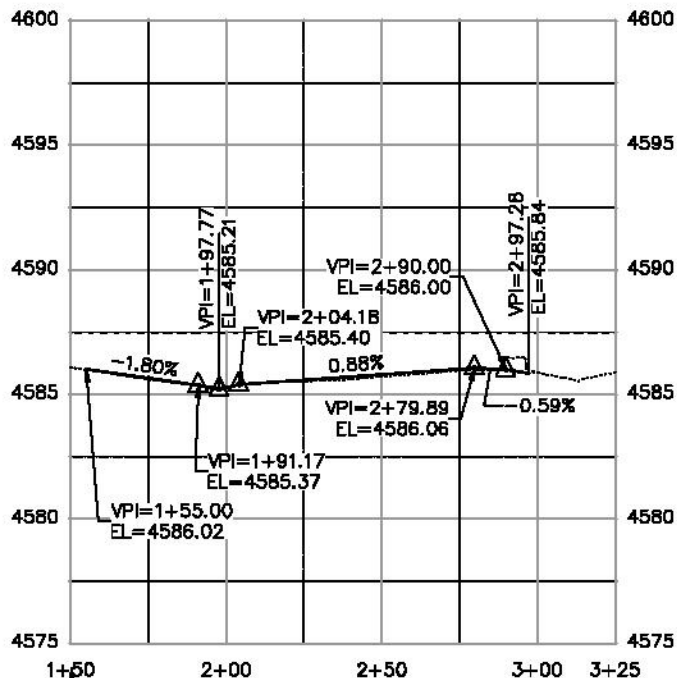
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**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

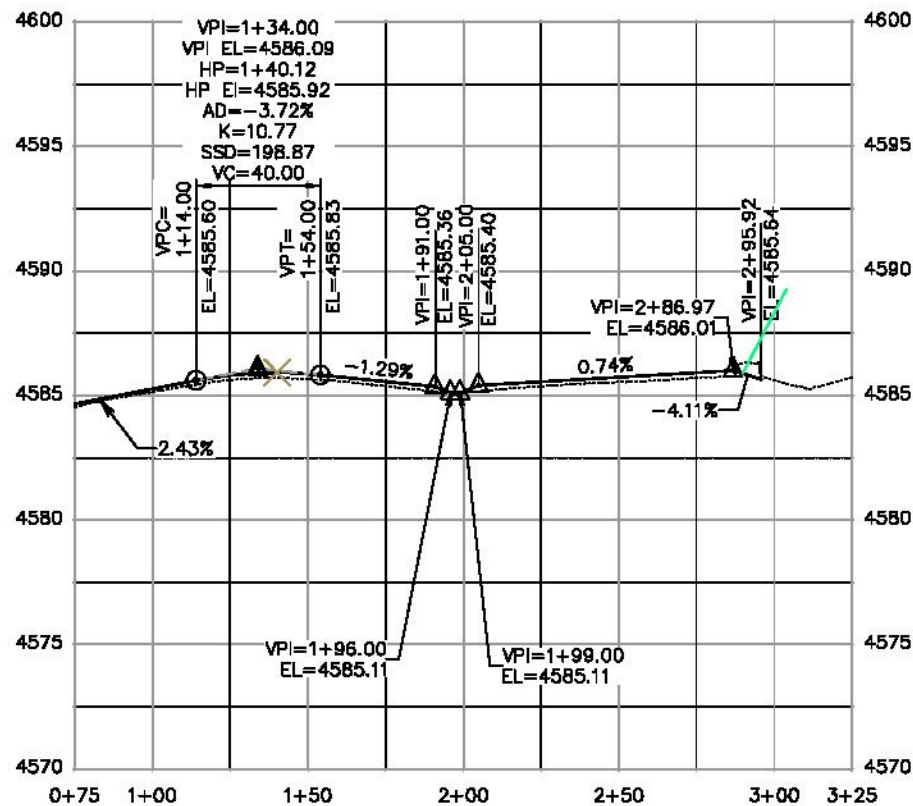
**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
BELFORD**

SEE STAKING PLANS
FOR STAKING DATA



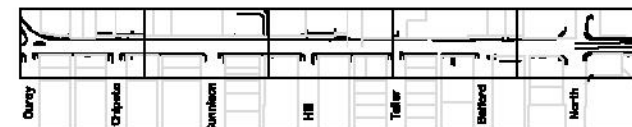
FUUCO NORTH FL

STATION LEFT, RIGHT, & CL
ARE SYNCED AT 1+50, PRIOR
TO THAT EACH ENTITY HAS
ITS OWN STATION



FUUCO CL

STATION LEFT, RIGHT, & CL
ARE SYNCED AT 1+50, PRIOR
TO THAT EACH ENTITY HAS
ITS OWN STATION



KEYMAP

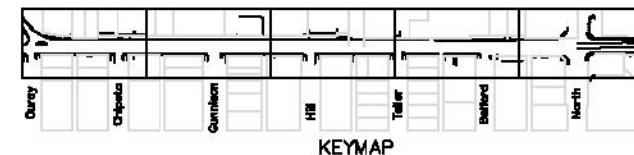
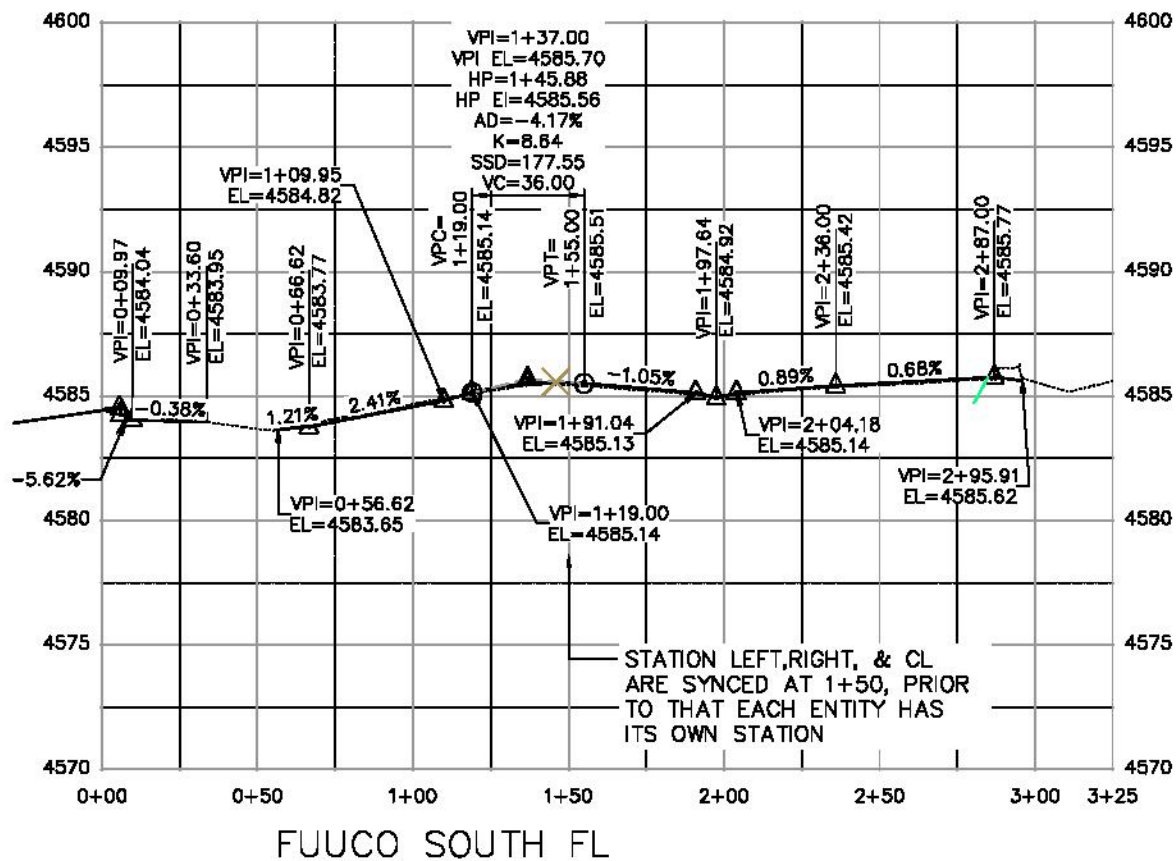
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REVISION C	ADD	2018	JOB	2018	AS SHOWN
REVISION D	ADD	2018	JOB	2018	AS SHOWN



PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
ROADWAY PROFILE
BELFORD

SEE STAKING PLANS
FOR STAKING DATA



REVISION	DATE	DESCRIPTION	BY	DATE
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REVISION B	2018			
REVISION C	2018			
REVISION D	2018			

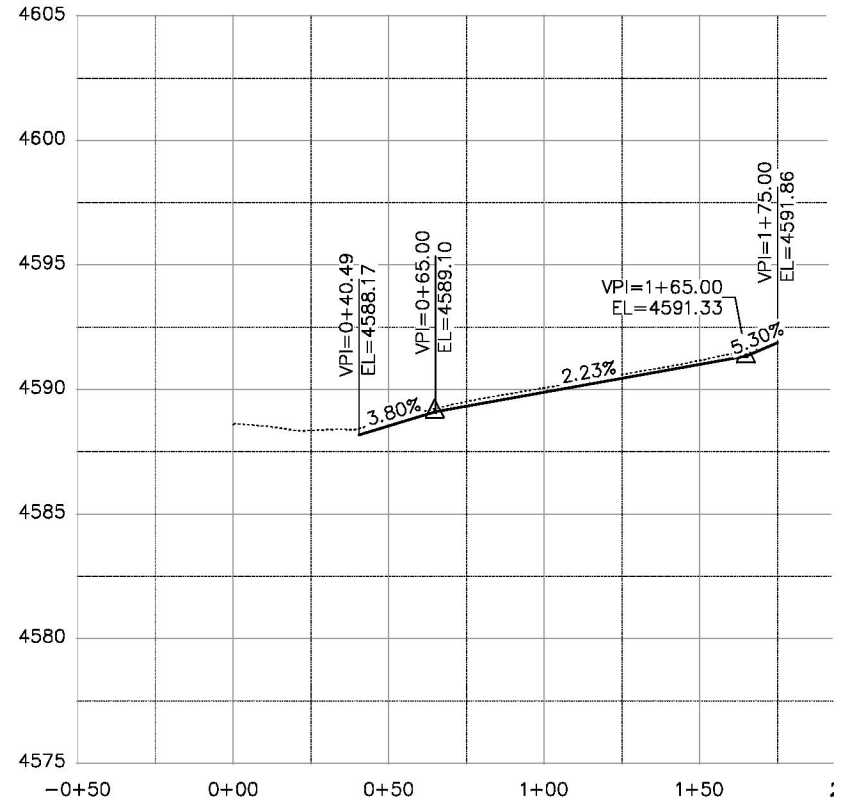
CITY OF
Grand Junction
COLORADO

**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

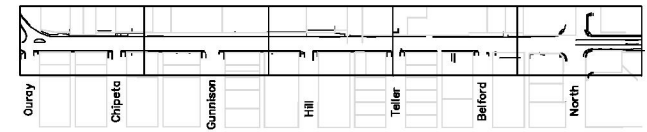
**1ST STREET RECONSTRUCTION
ROADWAY PROFILE
BELFORD**

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SEE STAKING PLANS
FOR STAKING DATA



ALLEY BELFORD NORTH AVE - CL



KEYMAP

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION Δ XXX		201X	JCS	2016
REVISION Δ XXX		201X	JCS/JAV	2016
REVISION Δ XXX		201X	SBG	2016
REVISION Δ XXX		201X	TCF	2016

SCALES:	
PLAN & PROFILE	1" = 40'
VERTICAL	1" = 10'

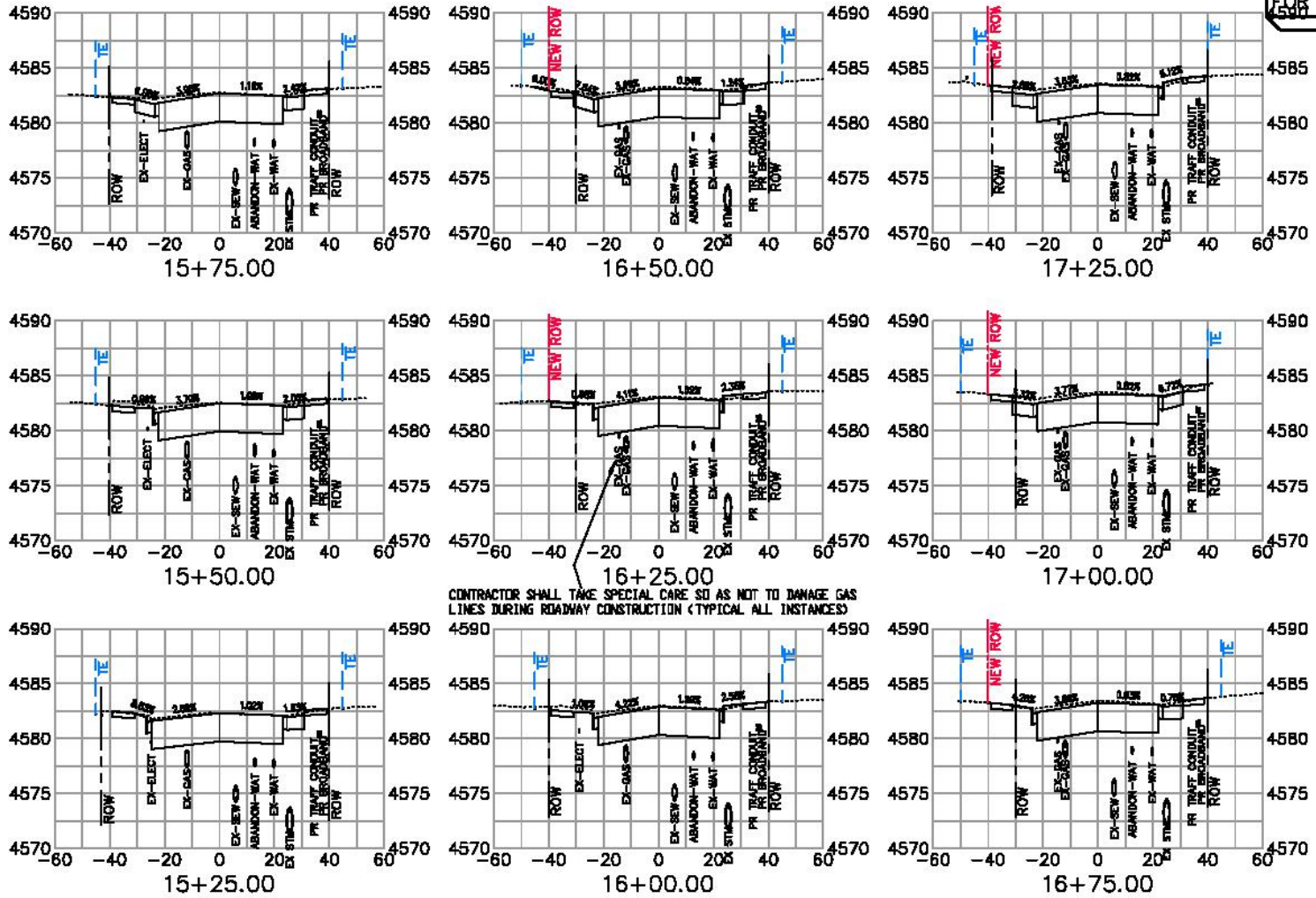


PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
ALLEY PROFILE
CHIPETA-GUNNISON & BELFORD-NORTH

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SEE STAKING PLANS FOR STAKING DATA



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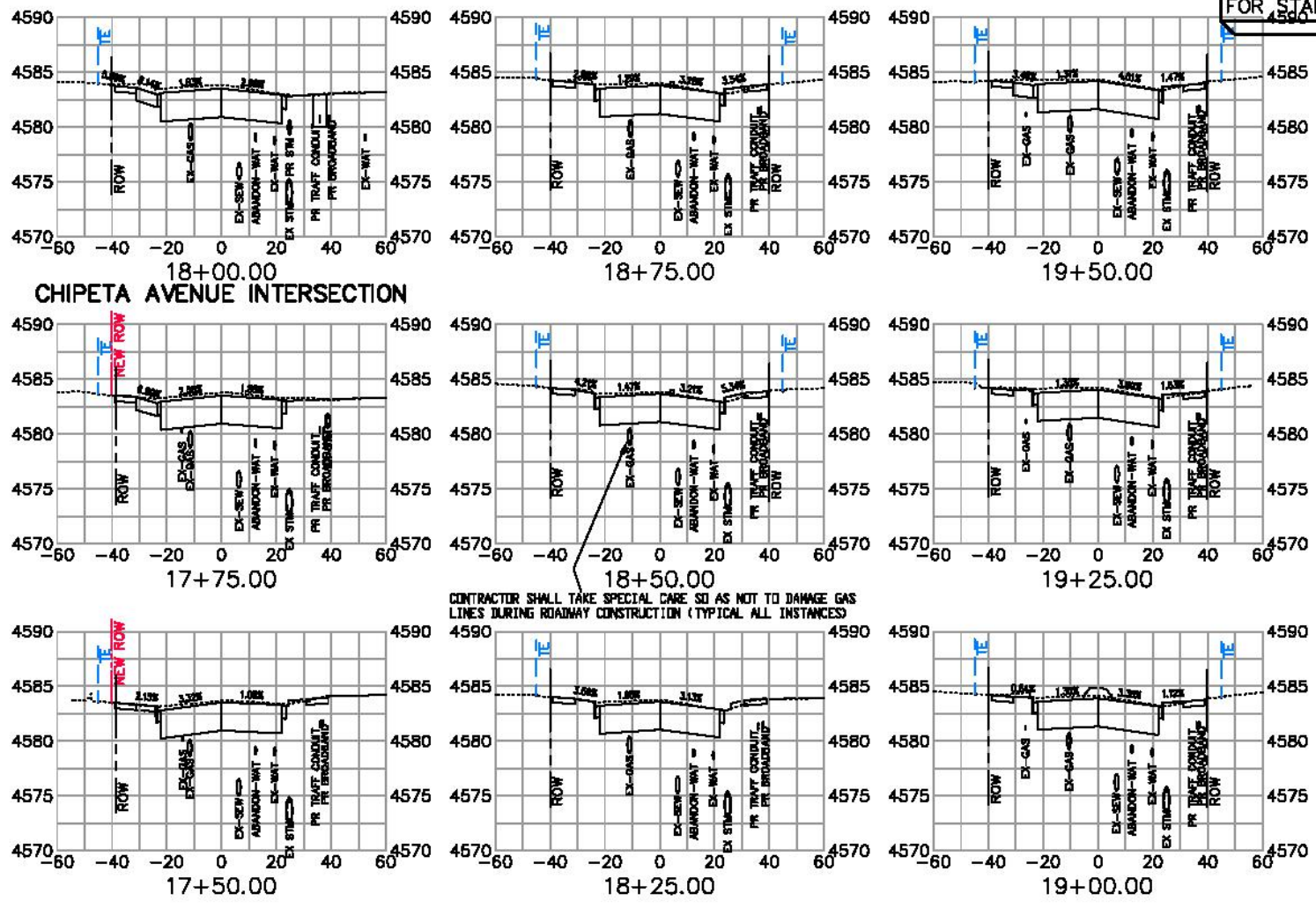
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REVISION C	2016		ASB	2016	
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**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY CROSS SECTIONS
STA 15+25 TO STA 17+25**

SEE STAKING PLANS FOR STAKING DATA



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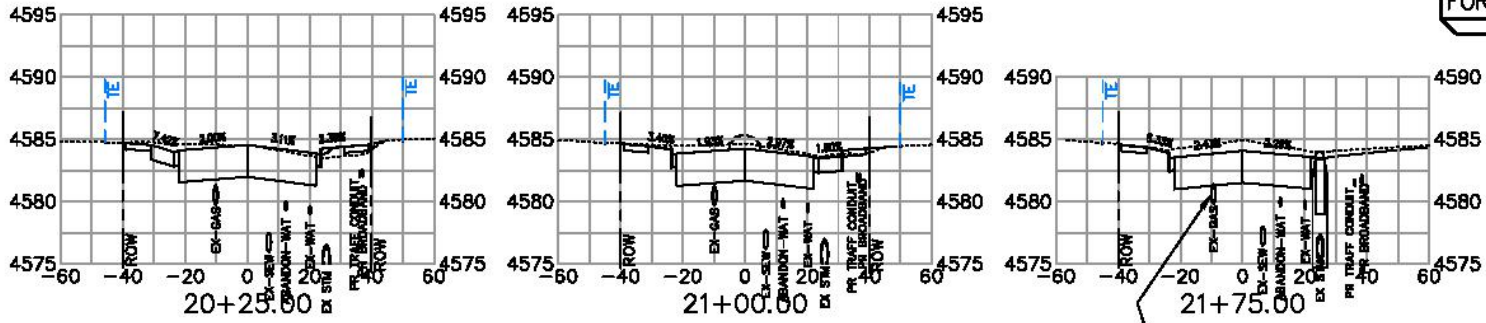
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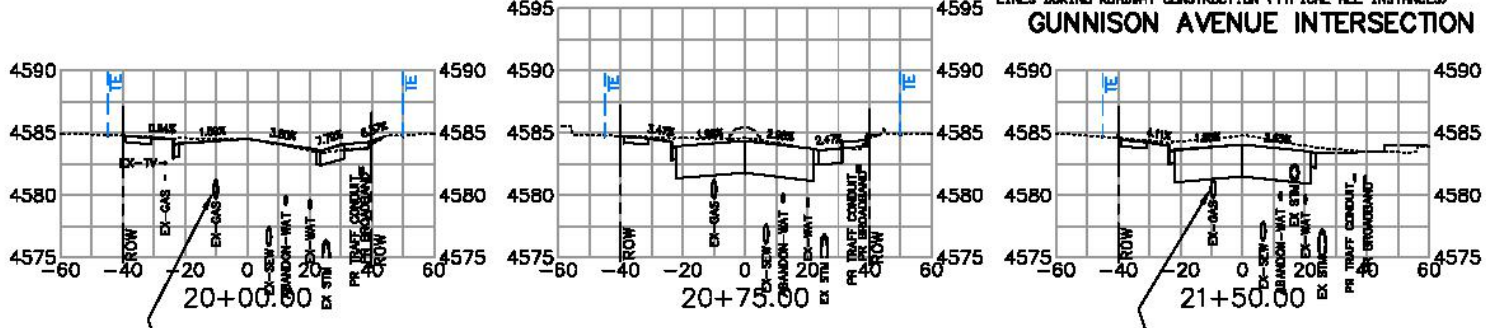
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY CROSS SECTIONS
STA 17+50 TO STA 19+50**

SEE STAKING PLANS FOR STAKING DATA

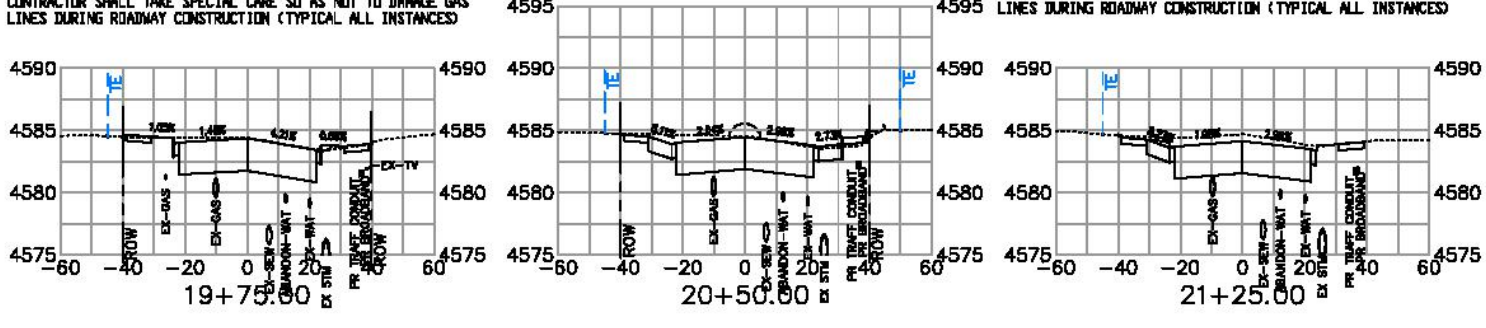


CONTRACTOR SHALL TAKE SPECIAL CARE SO AS NOT TO DAMAGE GAS LINES DURING ROADWAY CONSTRUCTION (TYPICAL ALL INSTANCES)
GUNNISON AVENUE INTERSECTION



CONTRACTOR SHALL TAKE SPECIAL CARE SO AS NOT TO DAMAGE GAS LINES DURING ROADWAY CONSTRUCTION (TYPICAL ALL INSTANCES)

CONTRACTOR SHALL TAKE SPECIAL CARE SO AS NOT TO DAMAGE GAS LINES DURING ROADWAY CONSTRUCTION (TYPICAL ALL INSTANCES)



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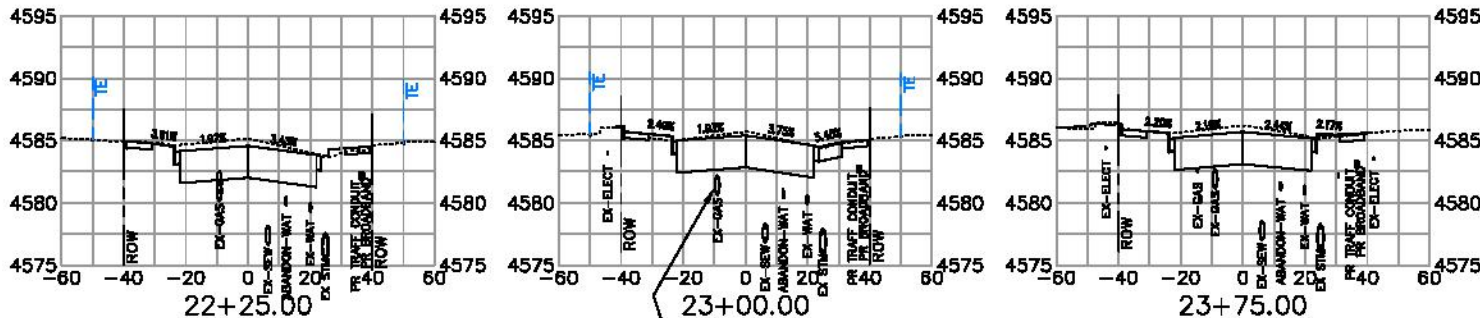
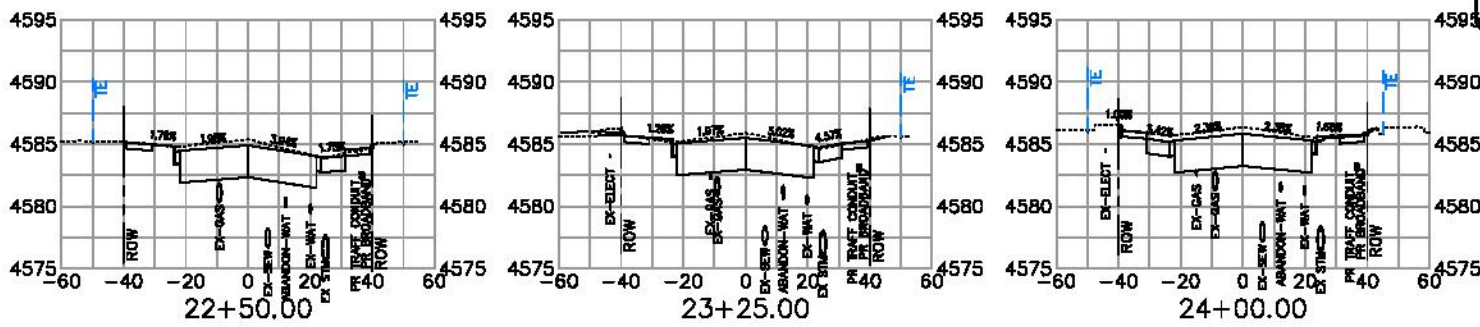
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REVISION C	2016	ASB	ASB	ASB
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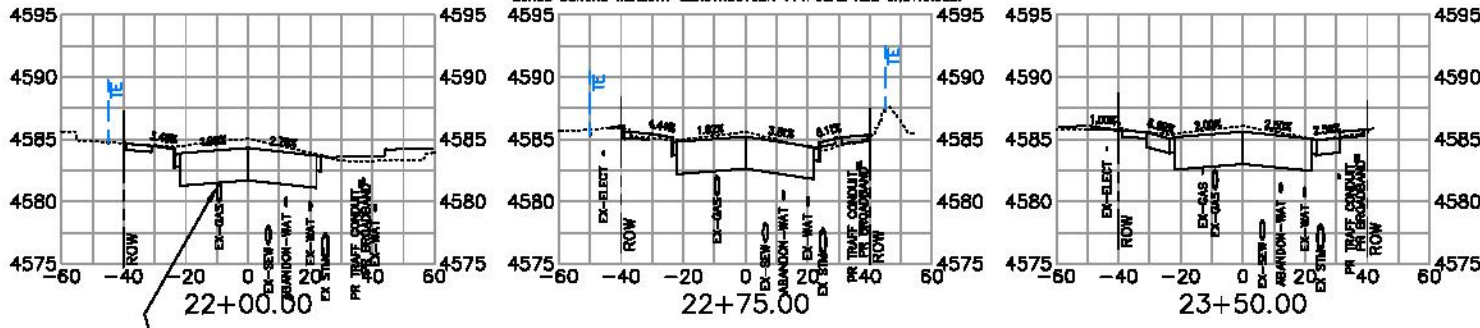
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION ROADWAY CROSS SECTIONS STA 19+75 TO STA 21+75

SEE STAKING PLANS FOR STAKING DATA



CONTRACTOR SHALL TAKE SPECIAL CARE SO AS NOT TO DAMAGE GAS LINES DURING ROADWAY CONSTRUCTION (TYPICAL ALL INSTANCES)



CONTRACTOR SHALL TAKE SPECIAL CARE SO AS NOT TO DAMAGE GAS LINES DURING ROADWAY CONSTRUCTION (TYPICAL ALL INSTANCES)

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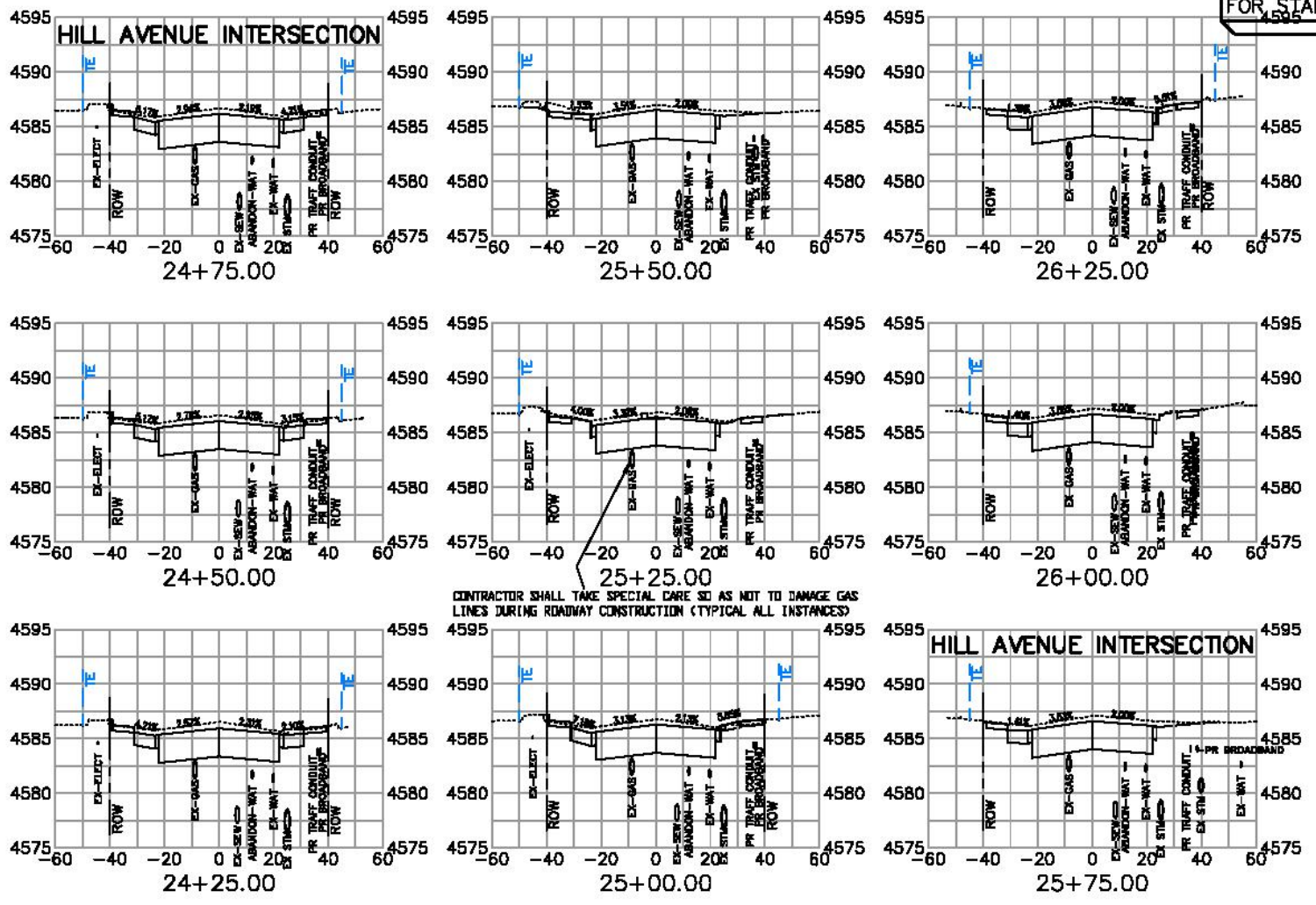
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REVISION D	2016	APPROVED BY	DATE 2016		



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION ROADWAY CROSS SECTIONS STA 22+00 TO STA 24+00

SEE STAKING PLANS FOR STAKING DATA



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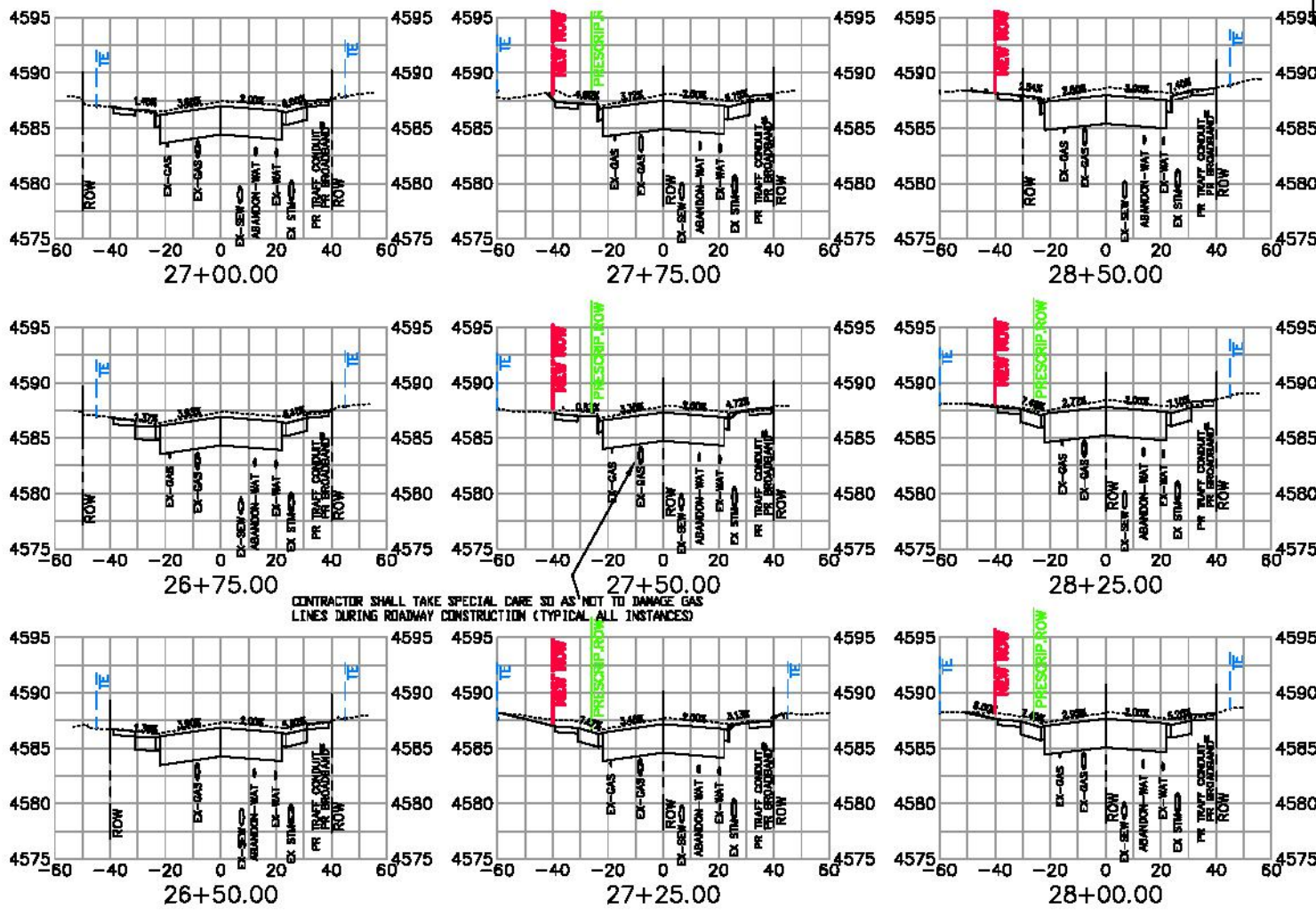
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REVISION B	2016		ASB	2016		
REVISION C	2016		ASB	2016		
REVISION D	2016		ASB	2016		



**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY CROSS SECTIONS
STA 24+25 TO STA 26+25**

SEE STAKING PLANS FOR STAKING DATA



DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
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REVISION B	2016	JCE	2016	
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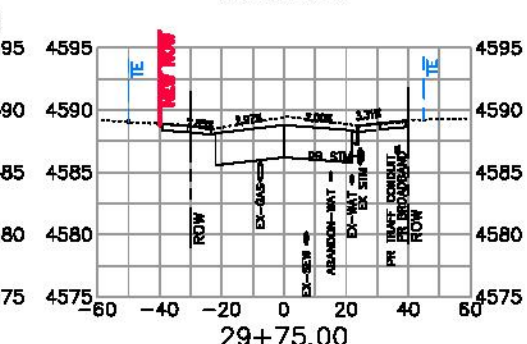
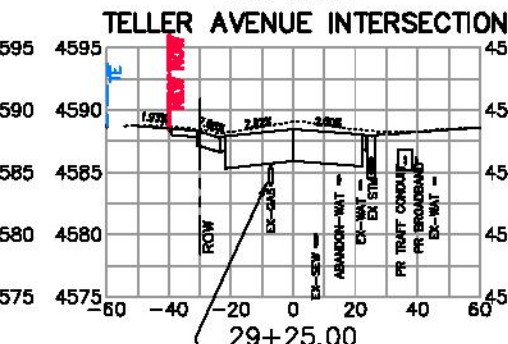
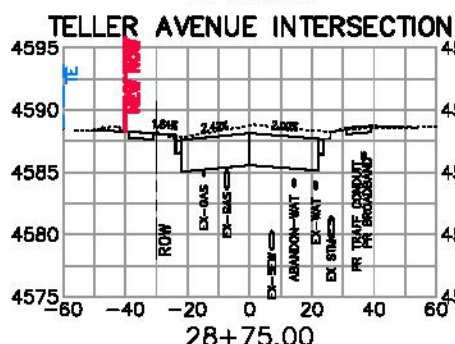
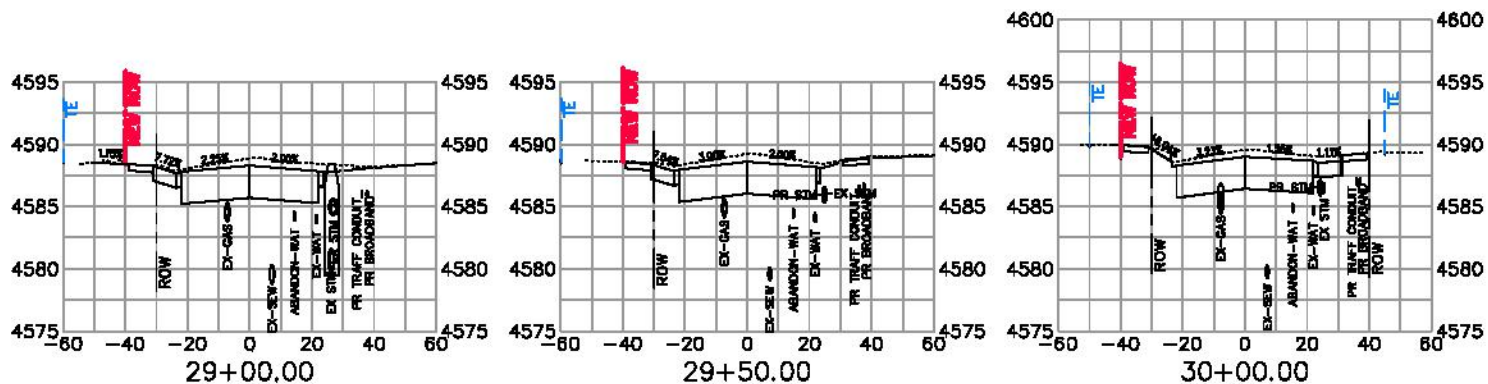


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION ROADWAY CROSS SECTIONS STA 26+50 TO STA 28+50

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SEE STAKING PLANS
FOR STAKING DATA



CONTRACTOR SHALL TAKE SPECIAL CARE SO AS NOT TO DAMAGE GAS LINES DURING ROADWAY CONSTRUCTION (TYPICAL ALL INSTANCES)

DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
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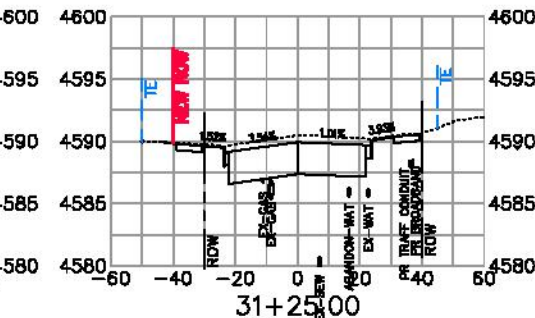
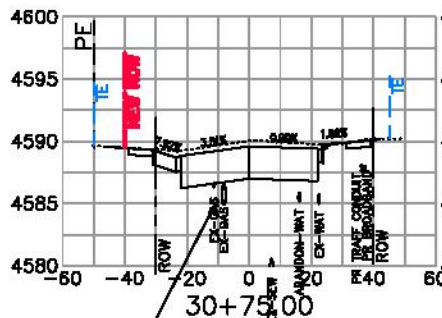
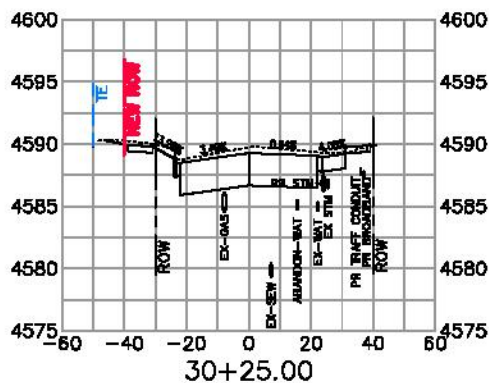
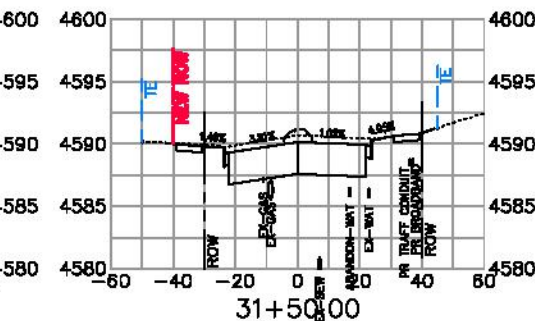
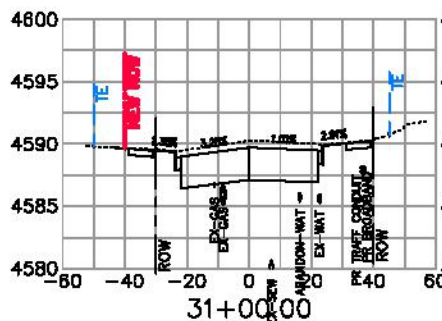
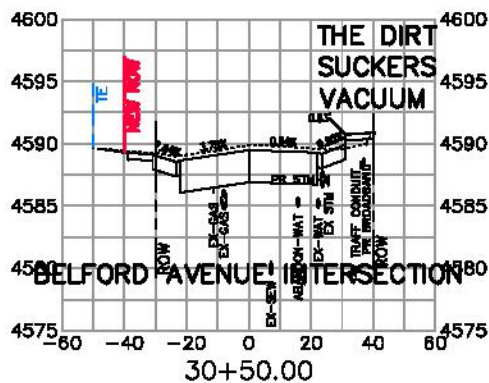


PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
ROADWAY CROSS SECTIONS
STA 28+75 TO STA 30+00

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SEE STAKING PLANS
FOR STAKING DATA



CONTRACTOR SHALL TAKE SPECIAL CARE SO AS NOT TO DAMAGE GAS LINES DURING ROADWAY CONSTRUCTION (TYPICAL ALL INSTANCES)

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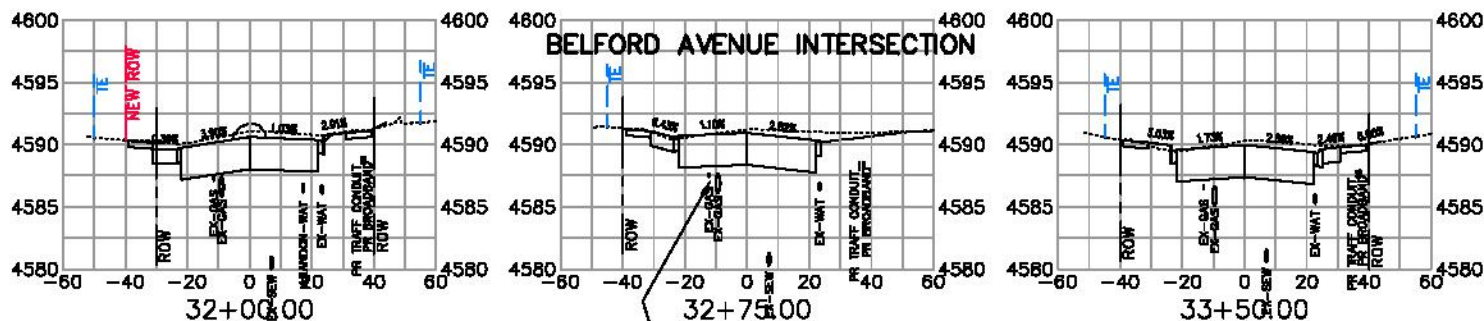
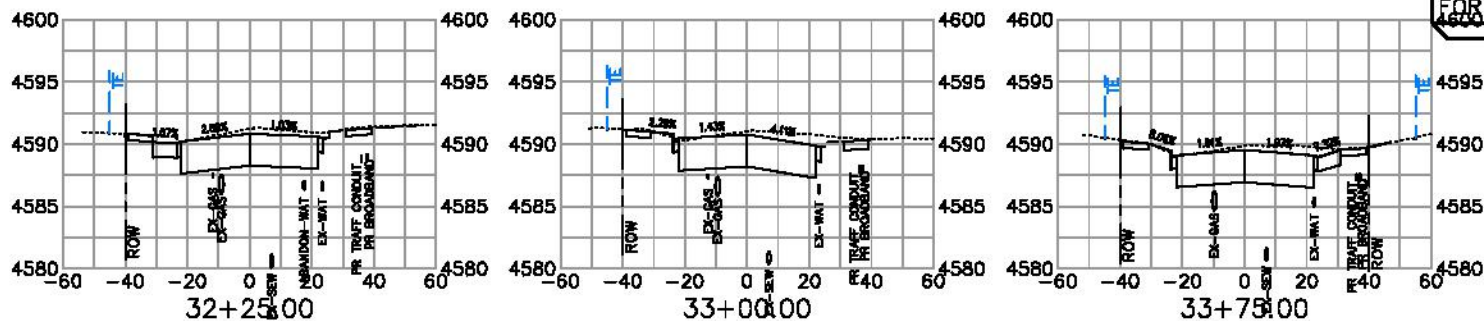
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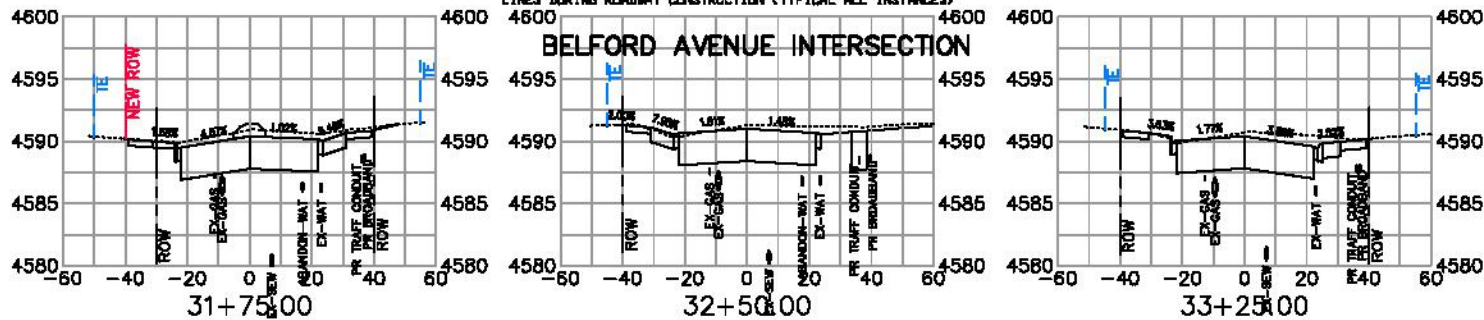
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY CROSS SECTIONS
STA 30+25 TO STA 31+60**

SEE STAKING PLANS
FOR STAKING DATA



CONTRACTOR SHALL TAKE SPECIAL CARE SO AS NOT TO DAMAGE GAS LINES DURING ROADWAY CONSTRUCTION (TYPICAL ALL INSTANCES)



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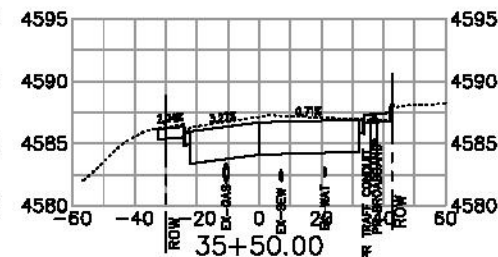
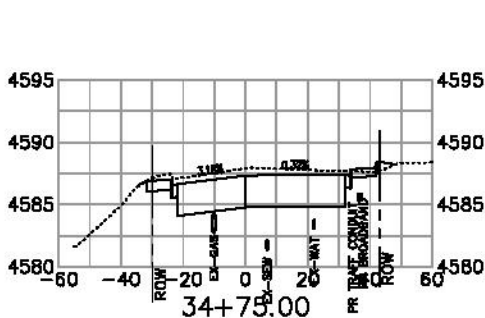
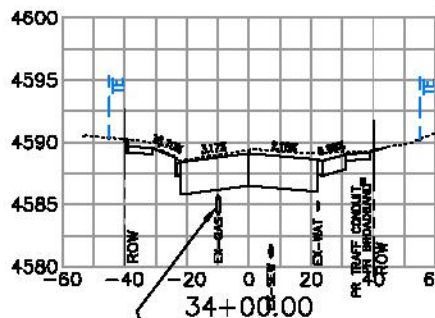
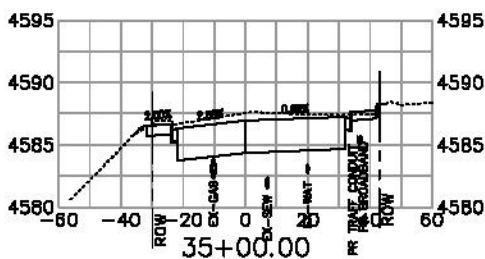
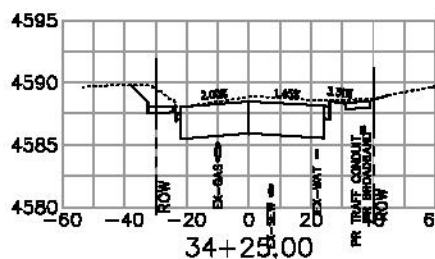
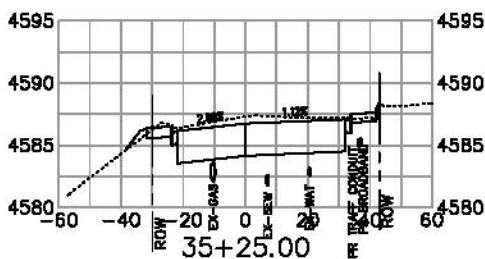
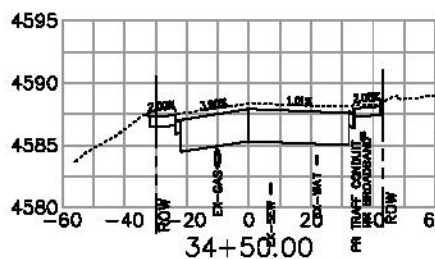
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REVISION B	2016		DESIGNED BY	DATE 2016	
REVISION C	2016		CHECKED BY	DATE 2016	
REVISION D	2016		APPROVED BY	DATE 2016	



**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY CROSS SECTIONS
STA 31+75 TO STA 33+75**

SEE STAKING PLANS
FOR STAKING DATA



CONTRACTOR SHALL TAKE SPECIAL CARE SO AS NOT TO DAMAGE GAS LINES DURING ROADWAY CONSTRUCTION (TYPICAL ALL INSTANCES)

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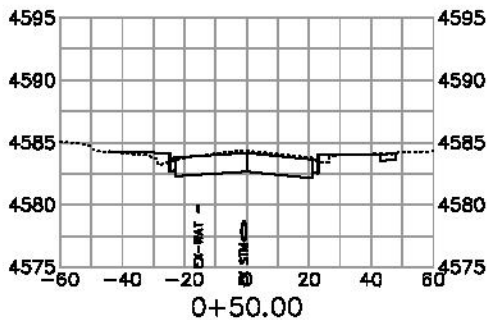
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REVISION A	2016	JCB		JCB	
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REVISION D	2016	JCB		JCB	



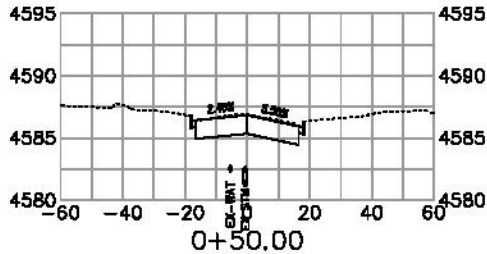
PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
ROADWAY CROSS SECTIONS
STA 34+00 TO STA 35+50

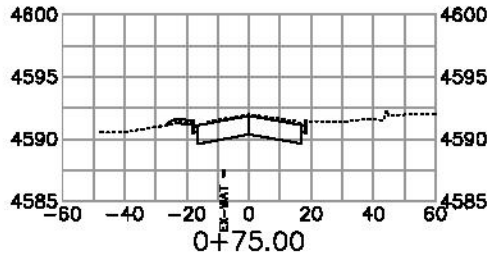
SEE STAKING PLANS FOR STAKING DATA



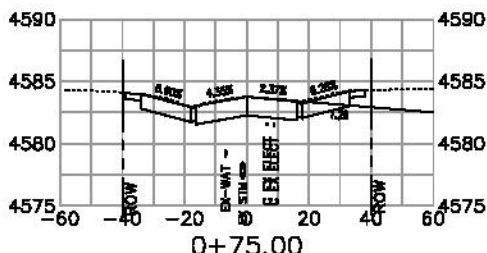
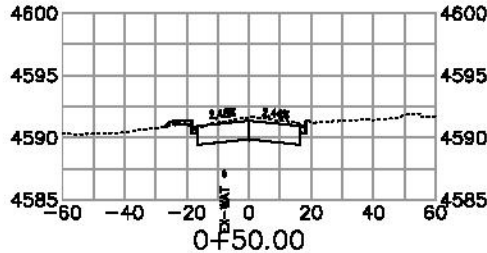
GUNNISON AVENUE



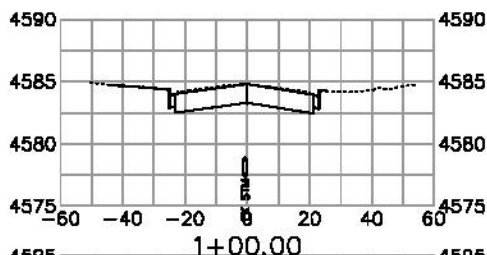
HILL AVENUE



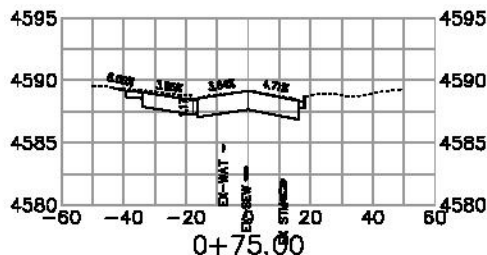
BELFORD AVENUE



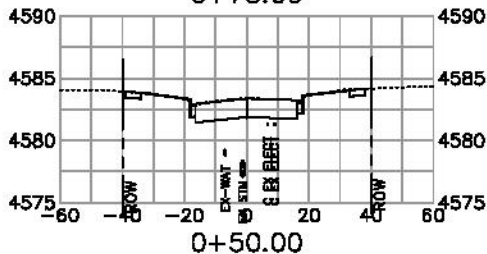
CHIPETA AVENUE



TELLER AVENUE



TELLER AVENUE



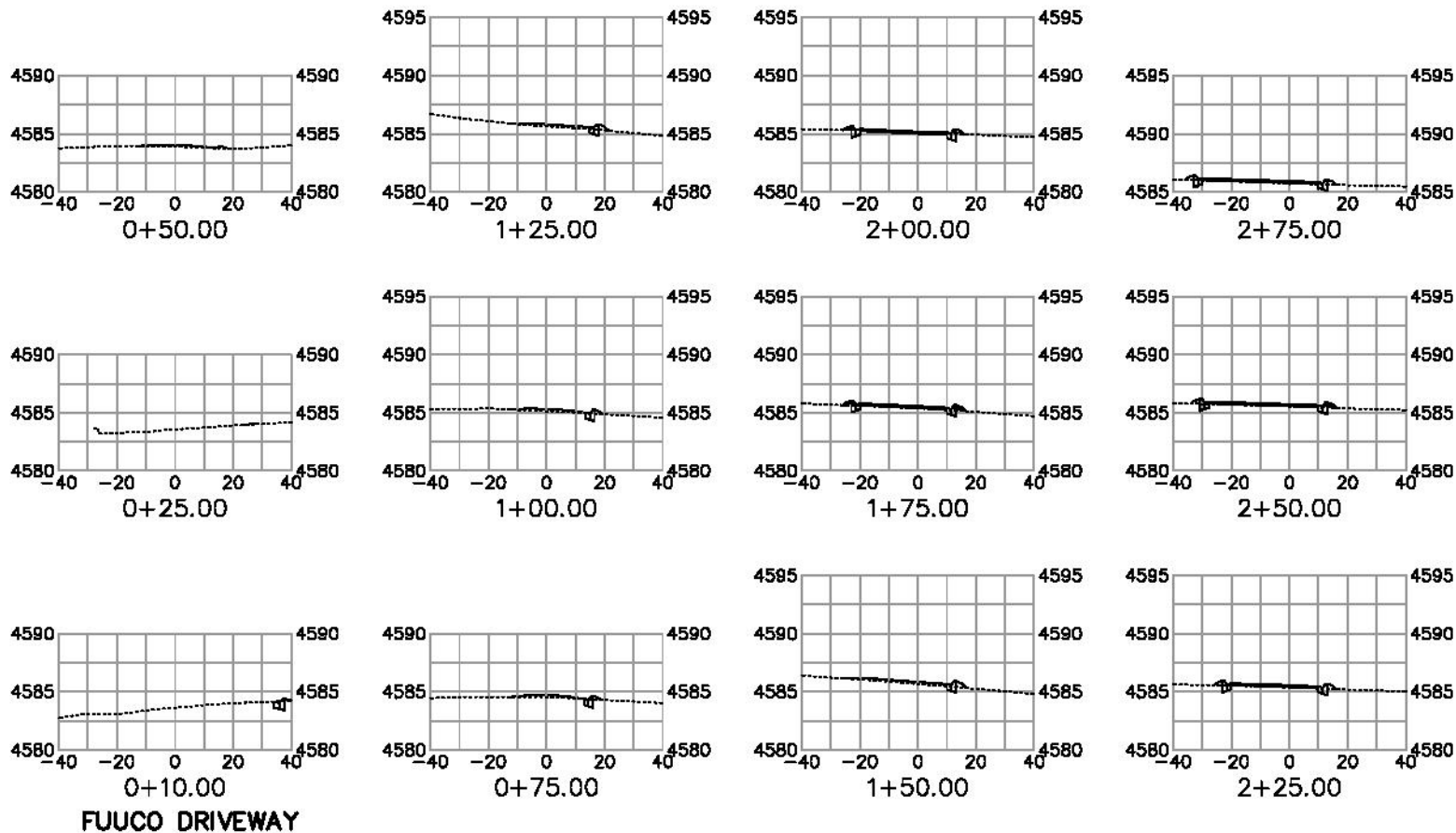
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REVISION A	2016	JOB	DATE 2016	AS SHOWN
REVISION B	2016	DESIGNED BY	DATE 2016	
REVISION C	2016	CHECKED BY	DATE 2016	
REVISION D	2016	APPROVED BY	DATE 2016	



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION ROADWAY CROSS SECTIONS—CHIPETA, GUNNISON, HILL, TELLER, & BELFORD

SEE STAKING PLANS
FOR STAKING DATA



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
REVISION A		2018	JCB	2018	AS SHOWN
REVISION B		2018	JCB	2018	
REVISION C		2018	JCB	2018	
REVISION D		2018	JCB	2018	

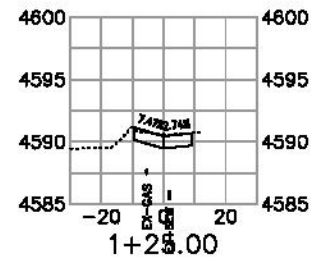
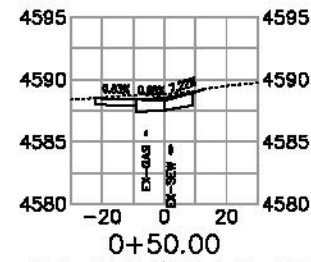
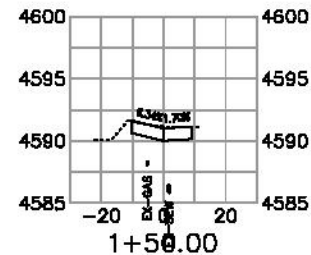
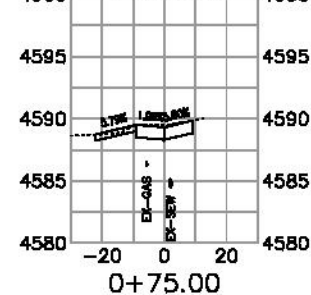
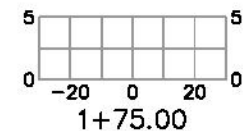
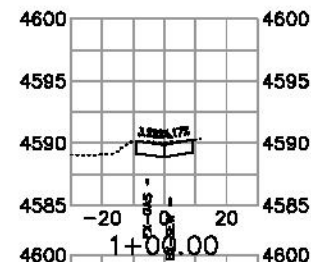


**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
ROADWAY CROSS SECTIONS
FUUCO DRIVEWAY**

N:\Landscape\2018 1st Street Reconstruction (F1501)\DWG\PUBLICATION\Section View.dwg, 011, 11/3/2018 9:14:15 AM

SEE STAKING PLANS
FOR STAKING DATA



BELFORD/NORTH ALLEY

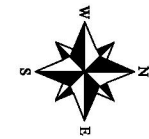
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REVISION B		2018	JCB	2018	1" = 40'
REVISION C		2018	JCB	2018	1" = 40'
REVISION D		2018	JCB	2018	1" = 40'



PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
ROADWAY CROSS SECTIONS
BELFORD/NORTH ALLEY

N:\Landproj\2018 1st Street Reconstruction (F1501)\DWG\PUBLICATION\Section Views.dwg, 012, 11/03/2018 9:16:03 AM



VERA F PEARCE
1714 N 21ST ST GRAND JUNCTION, CO 81501

BRAD R STEWART
639 W TOMAHAWK CIR GRAND JUNCTION, CO 81504

RISKEY BUSINESS LLC
539 N 1ST ST GRAND JUNCTION, CO 81501

BICYCLE OUTFITTERS
537 N 1ST ST

eBRICKS OUTLET
539 N 1ST ST

SEE STAKING PLANS FOR STAKING DATA

MCGOVERN ENTERPRISES INC PIZZA HUT 773
c/o HIGH PLAINS PIZZA
PO BOX 2438 LIBERAL, KS 67805

NEW SIGN PIZZA HUT
601 N 1ST ST

NEW SIGN



R7-200A
2 HOUR
PARKING
12' X 30'
MOUNTED ON
NEW U-2
POST AT
16+83,
32' LT

NEW SIGN



R7-200A
2 HOUR
PARKING
12' X 30'
MOUNTED ON
NEW U-2
POST AT
17+50,
32' LT



F4-7
KEEP RIGHT
24' X 30'
MOUNTED ON
NEW U-2 POST

PEDESTRIAN CROSSING
24' X 30'
NEW SIGN
W11-2



W16-7P
NEW SIGN
DIAGONAL ARROW
24' X 12'
MOUNTED ON NEW
U-2 POST AT
14+86, 11' LT

PEDESTRIAN CROSSING
24' X 30'
NEW SIGN
W11-2



W16-7P
NEW SIGN
DIAGONAL ARROW
24' X 12'
MOUNTED ON NEW
U-2 POST AT
15+03, 33' LT

RYAN T MIZUSHIMA
1007 DOUGHERTY CT
GRAND JUNCTION, CO 81505



F4-7
REMAINS



REMAINS



REMAINS

PEDESTRIAN CROSSING
24' X 30'
NEW SIGN
W11-2



W16-7P
NEW SIGN
DIAGONAL ARROW
24' X 12'
MOUNTED ON NEW
U-2 POST AT
14+70, 1' LT

PEDESTRIAN CROSSING
24' X 30'
NEW SIGN
W11-2



W16-7P
NEW SIGN
DIAGONAL ARROW
24' X 12'
MOUNTED ON NEW
U-2 POST AT
14+70, 34' RT



REMAINS

VACANT
516 N 1ST ST
MARK L GAMBLE
PO BOX 2906
GRAND JUNCTION, CO 81502



SPEED LIMIT
35

RESET SIGN
PANEL FROM
CHIPETA TO
NEW U-2
POST AT
16+05
39.5' RT

NEW SIGN



R7-200A
2 HOUR
PARKING
12' X 30'
MOUNTED ON
NEW U-2
POST AT
16+36,
32' RT

NEW SIGN



R7-200A
2 HOUR
PARKING
12' X 30'
MOUNTED ON
NEW U-2
POST AT
17+25,
32' RT

TERRITORY SPORTS
534 N 1ST ST
BRAD R STEWART
639 W TOMAHAWK CIR
GRAND JUNCTION, CO 81504

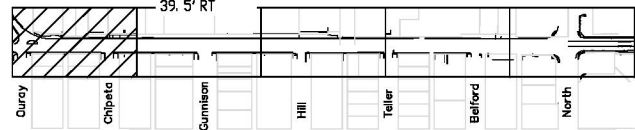


RESET ALL
THREE SIGN
PANELS TO
NEW U-2
POST AT
18+13,
40' RT

PERFORMANCE CENTER
616 N 1ST ST

VICKIE L BADINI
AND ROBERT K SACCO
616 N 1ST ST
GRAND JUNCTION, CO 81501

MATCH LINE STA 19+00



KEYMAP

NOTE
"PRIVATE" SIGNS SHALL REMAIN IN PLACE
AND BE PROTECTED UNLESS OTHERWISE NOTED
HERE ON.

N:\Landproj\2015 1st Street Reconstruction (F1501)\DWG\Publication\SIGNING.dwg, 10/21/2016 2:45:40 PM

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REVISION B XXX		201X	JCS/JAN	2016
REVISION C XXX		201X	SBG	2016
REVISION D XXX		201X	TOP	2016

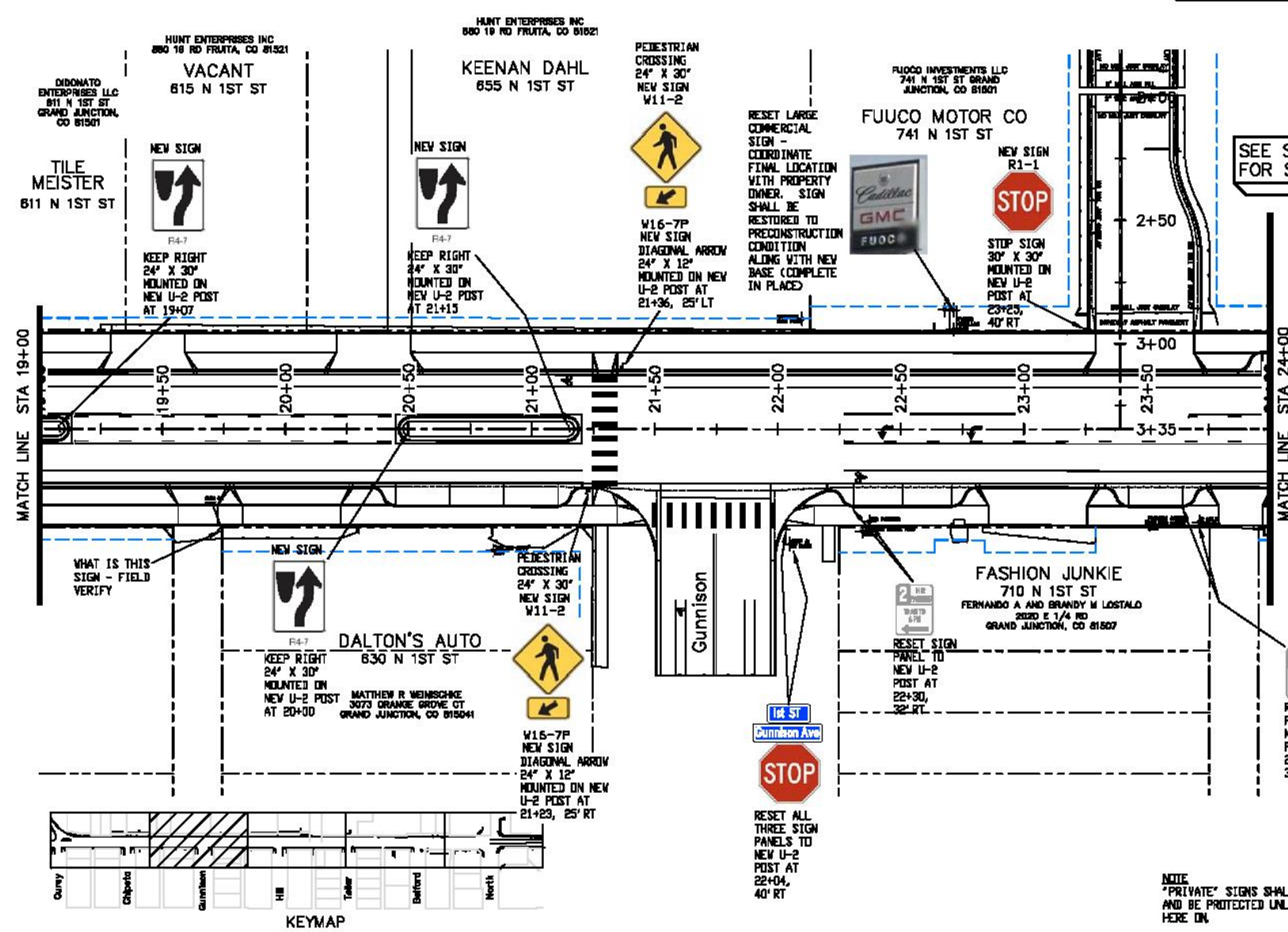


PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
SIGNING PLAN
STA 14+00 TO STA 19+00



SEE STAKING PLANS FOR STAKING DATA



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE 2018	CHECKED BY	DATE 2018
REVISION A 2018		2018				
REVISION B 2018		2018				
REVISION C 2018		2018				
REVISION D 2018		2018				



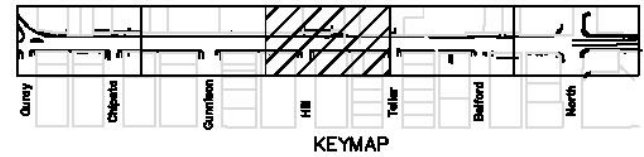
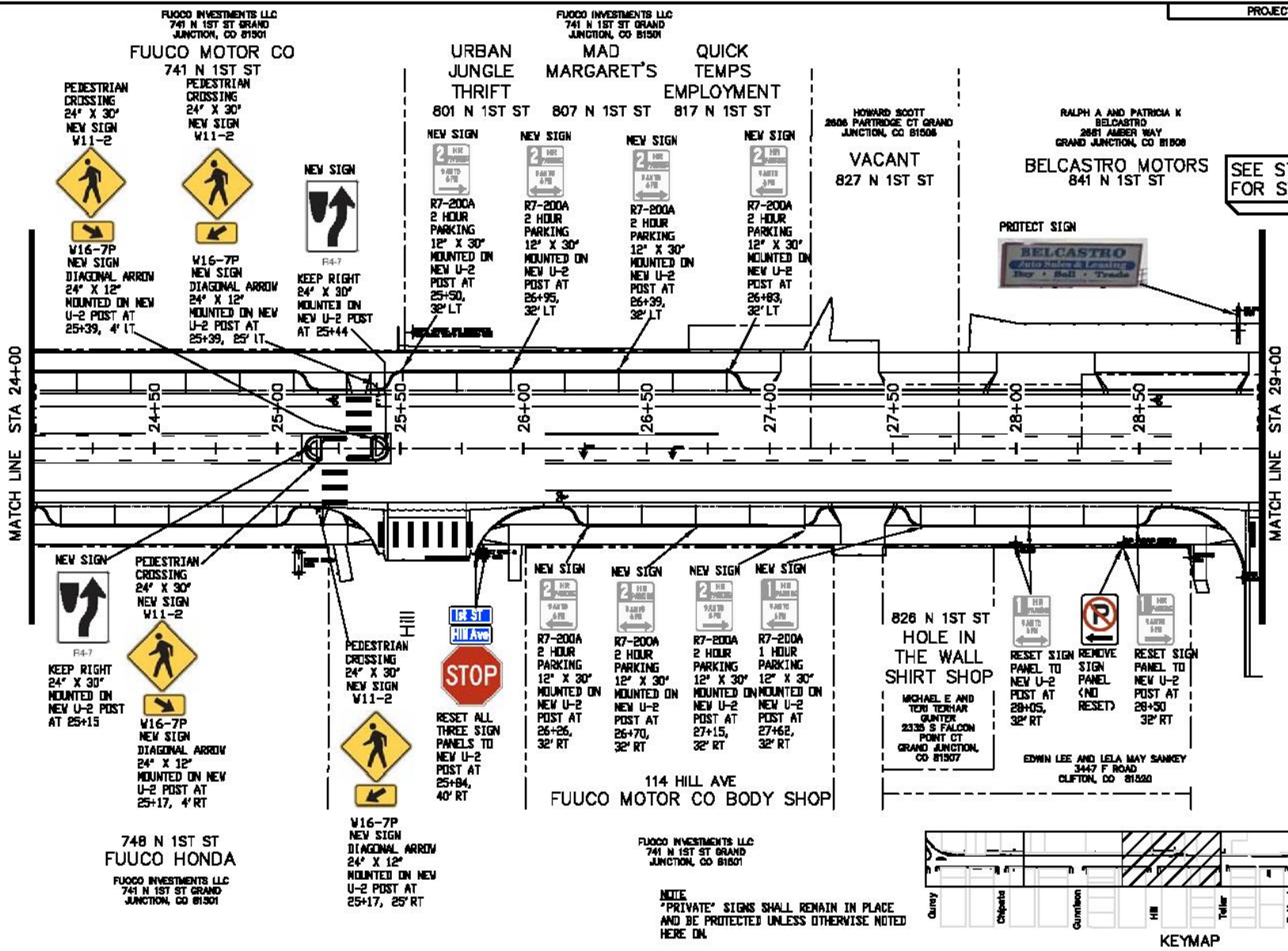
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION SIGNING PLAN STA 19-00 TO STA 24+00

N:\Land\proj\2018 1st Street Reconstruction (F1501)\DWG\1\PUBLIC\CONTRACT\SIGNING.dwg, (2), 12/27/2018 8:18:43 AM



SEE STAKING PLANS FOR STAKING DATA



NOTE
"PRIVATE" SIGNS SHALL REMAIN IN PLACE AND BE PROTECTED UNLESS OTHERWISE NOTED HERE ON.

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE 2018	CHECKED BY	DATE 2018	APPROVED BY	DATE 2018
REVISION A	2018							
REVISION B	2018							
REVISION C	2018							
REVISION D	2018							



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION SIGNING PLAN STA 24+00 TO STA 29+00

N:\Landproj\2018 1st Street Reconstruction (18001)DWG\PUBLICATION\SIGNING.dwg, (3), 12/19/2018 9:18:33 AM



SEE STAKING PLANS FOR STAKING DATA

RALPH A AND PATRIGIA K
BELCASTRO
2681 ALBERTA WAY
GRAND JUNCTION, CO 81506
BELCASTRO MOTORS
841 N 1ST ST

PEDESTRIAN CROSSING
24" X 30"
NEW SIGN
W11-2



W16-7P
NEW SIGN
DIAGONAL ARROW
24" X 12"
MOUNTED ON NEW
U-2 POST AT
29+57, 25' LT

LARRY J BARDI
2215 PIAZZA WAY
GRAND JUNCTION, CO 81506

VACANT
901 N 1ST ST
PROTECT SIGN

LARRY J BARDI
2215 PIAZZA WAY
GRAND JUNCTION, CO 81506

VACANT
901 N 1ST ST

RESET LARGE
COMMERCIAL
SIGN -
COORDINATE
FINAL LOCATION
WITH PROPERTY
OWNER. SIGN
SHALL BE
RESTORED TO
PRECONSTRUCTION
CONDITION
ALONG WITH NEW
BASE (COMPLETE
IN PLACE)

BERTRAND & COMPANY
785 25 RD GRAND JUNCTION,
CO 81503



NEW SIGN
R4-7
KEEP RIGHT
24" X 30"
MOUNTED ON
NEW U-2 POST
AT 32+23

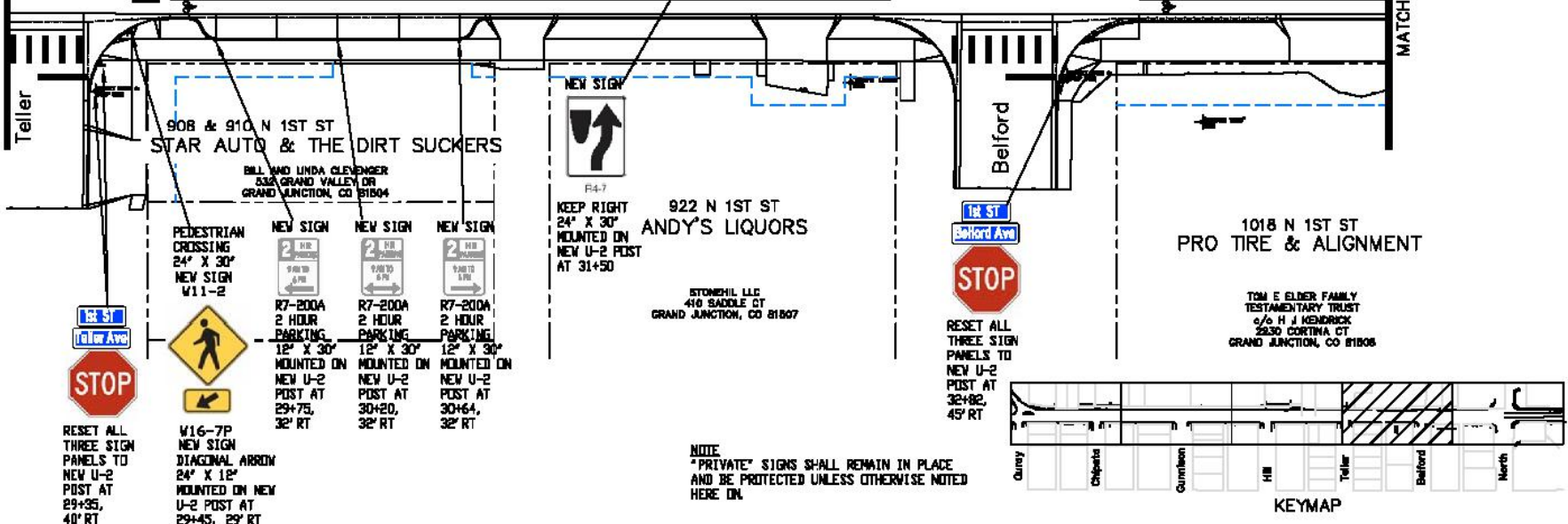
BERTRAND & COMPANY
785 25 RD GRAND JUNCTION,
CO 81503

INTER MOUNTAIN AUTO SALES
935 N 1ST ST

RESET LARGE
COMMERCIAL
SIGN -
COORDINATE
FINAL LOCATION
WITH PROPERTY
OWNER. SIGN
SHALL BE
RESTORED TO
PRECONSTRUCTION
CONDITION
ALONG WITH NEW
BASE (COMPLETE
IN PLACE)

MATCH LINE STA 29+00

MATCH LINE STA 34+00



RESET ALL
THREE SIGN
PANELS TO
NEW U-2
POST AT
29+35,
40' RT



W16-7P
NEW SIGN
DIAGONAL ARROW
24" X 12"
MOUNTED ON NEW
U-2 POST AT
29+45, 29' RT

PEDESTRIAN
CROSSING
24" X 30"
NEW SIGN
W11-2

R7-200A
2 HOUR
PARKING
12" X 30"
MOUNTED ON
NEW U-2
POST AT
29+73,
32' RT

NEW SIGN
R7-200A
2 HOUR
PARKING
12" X 30"
MOUNTED ON
NEW U-2
POST AT
30+20,
32' RT

NEW SIGN
R7-200A
2 HOUR
PARKING
12" X 30"
MOUNTED ON
NEW U-2
POST AT
30+64,
32' RT



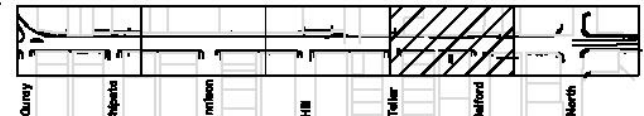
NEW SIGN
R4-7
KEEP RIGHT
24" X 30"
MOUNTED ON
NEW U-2 POST
AT 31+50

922 N 1ST ST
ANDY'S LIQUORS

STONEMILL LLC
410 SADDLE CT
GRAND JUNCTION, CO 81507



RESET ALL
THREE SIGN
PANELS TO
NEW U-2
POST AT
32+82,
45' RT



KEYMAP

NOTE:
* PRIVATE* SIGNS SHALL REMAIN IN PLACE
AND BE PROTECTED UNLESS OTHERWISE NOTED
HERE ON.

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	APPROVED BY	DATE
REVISION A	2018	2018	2018	2018		
REVISION B	2018	2018	2018	2018		
REVISION C	2018	2018	2018	2018		
REVISION D	2018	2018	2018	2018		

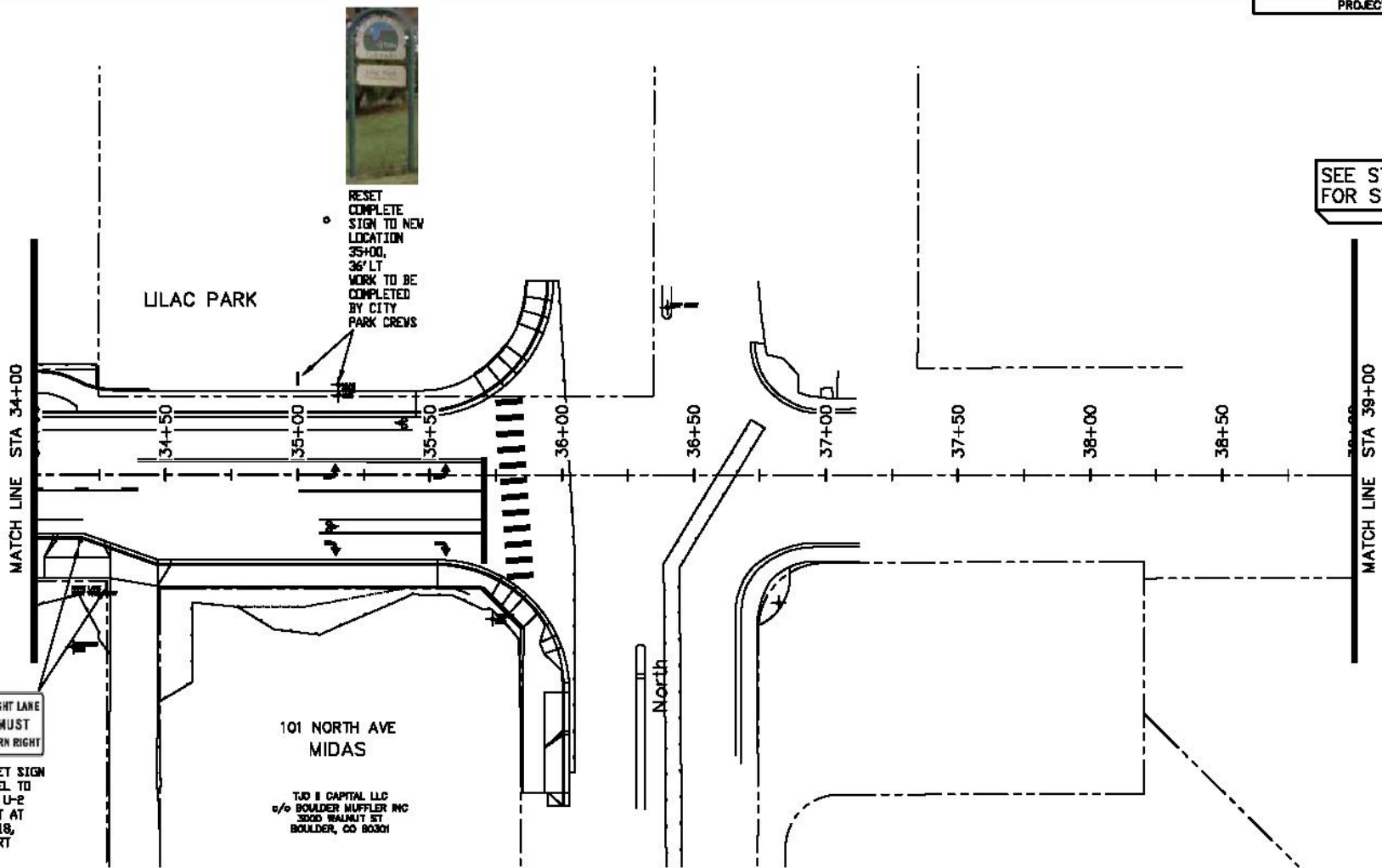


PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
SIGNING PLAN
STA 29+00 TO STA 34+00



SEE STAKING PLANS FOR STAKING DATA



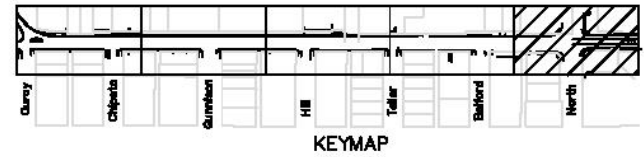
RIGHT LANE MUST TURN RIGHT

RESET SIGN PANEL TO NEW U-R POST AT 34+18, 25' RT

LILAC PARK

101 NORTH AVE MIDAS
TJO II CAPITAL LLC
c/o BOLDER MUFFLER INC
3000 WALNUT ST
BOULDER, CO 80301

NOTE
PRIVATE SIGNS SHALL REMAIN IN PLACE AND BE PROTECTED UNLESS OTHERWISE NOTED HERE ON.



N:\Land\proj\2015 1st Street Reconstruction (F1501)\DWG\UTIL\UTIL\STAGING\STAGING.dwg, 8/27/2016 9:18:58 AM

REVISION	DATE	BY	CHKD	DATE	BY
REVISION A 201	2016	JCS	JCS	2016	JCS
REVISION A 202	2016	JCS	JCS	2016	JCS
REVISION A 203	2016	JCS	JCS	2016	JCS
REVISION A 204	2016	JCS	JCS	2016	JCS

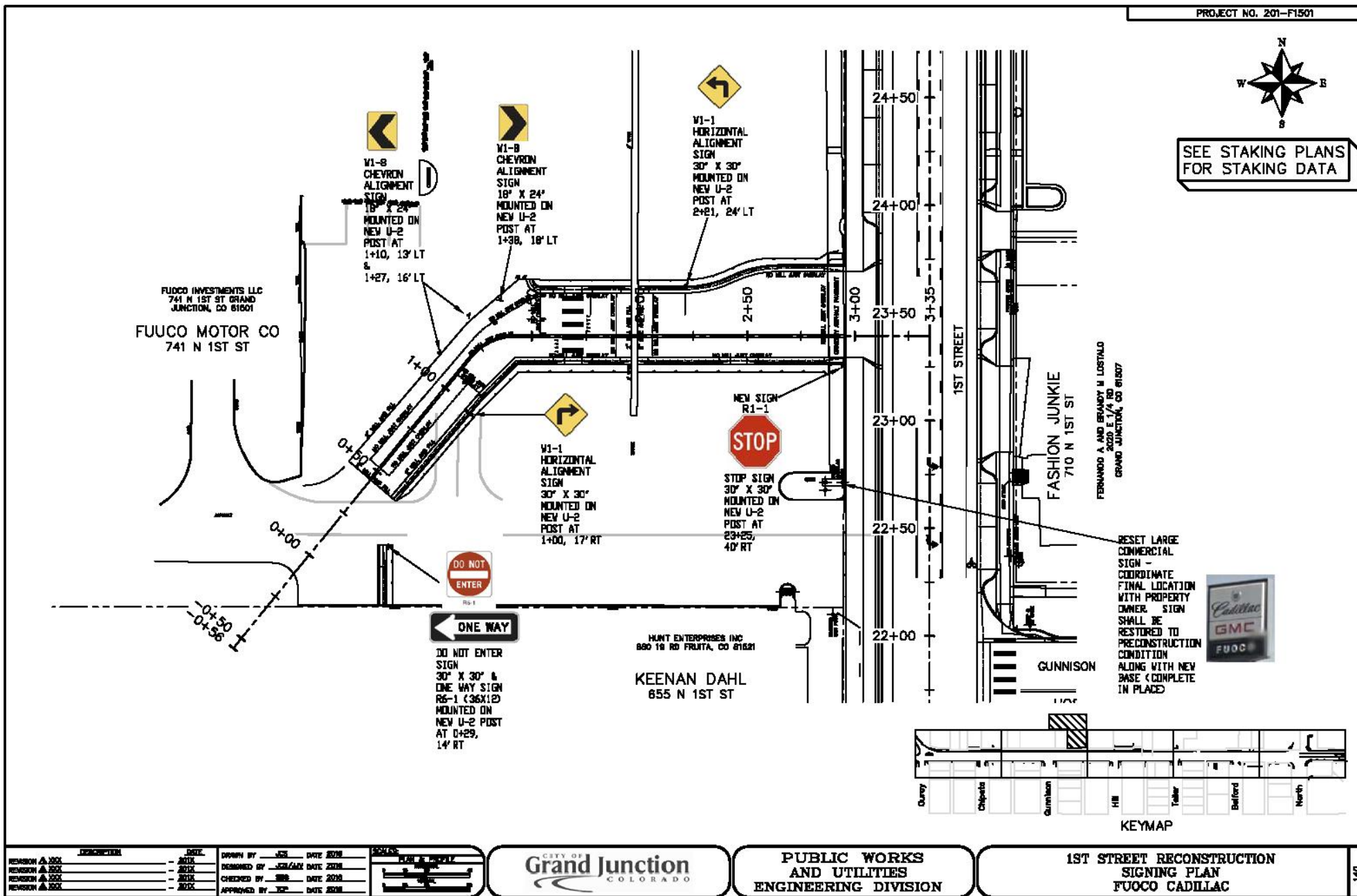
CITY OF
Grand Junction
COLORADO

**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
SIGNING PLAN
STA 34+00 TO STA 39+00**



SEE STAKING PLANS FOR STAKING DATA



FUOCO INVESTMENTS LLC
741 N 1ST ST GRAND
JUNCTION, CO 81601

FUOCO MOTOR CO
741 N 1ST ST

HUNT ENTERPRISES INC
660 19 RD FRUITA, CO 81621

KEENAN DAHL
655 N 1ST ST

FASHION JUNKIE
710 N 1ST ST

FERNANDO A AND BRANDY M LORETO
710 N 1ST ST
GRAND JUNCTION, CO 81607

RESET LARGE
COMMERCIAL
SIGN -
COORDINATE
FINAL LOCATION
WITH PROPERTY
OWNER. SIGN
SHALL BE
RESTORED TO
PRECONSTRUCTION
CONDITION
ALONG WITH NEW
BASE (COMPLETE
IN PLACE)



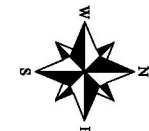
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REVISION A 202	2018	JCS	2018	JCS	2018
REVISION A 203	2018	JCS	2018	JCS	2018
REVISION A 204	2018	JCS	2018	JCS	2018
REVISION A 205	2018	JCS	2018	JCS	2018



PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
SIGNING PLAN
FUOCO CADILLAC

N:\Lundberg\2018 1st Street Reconstruction (F1501)\DWG\UTILITIES\SIGNING\sig.dwg, (6), 11/21/2018 9:42:42 AM



SEE STAKING PLANS
FOR STAKING DATA

RYAN T MIZUSHIMA
1007 DOUGHERTY CT
GRAND JUNCTION, CO 81505

VERA F PEARCE
1714 N 21ST ST GRAND
JUNCTION, CO 81501

BRAD R STEWART
639 W TOMAHAWK CIR
GRAND JUNCTION, CO 81504

RISKEY BUSINESS LLC
539 N 1ST ST
GRAND JUNCTION, CO 81501

MCGOVERN ENTERPRISES INC PIZZA HUT 773
c/o HIGH PLAINS PIZZA
PO BOX 2438 LIBERAL, KS 67905

BICYCLE OUTFITTERS
537 N 1ST ST

eBRICKS OUTLET
539 N 1ST ST

PIZZA HUT
601 N 1ST ST

WHITE CROSSWALK LINES
(2' x 10') (TYPICAL)

Ouray

WHITE PAVEMENT MARKINGS
(TYPICAL)

VACANT
516 N 1ST ST
MARK L GAMBLE
PO BOX 2906
GRAND JUNCTION, CO 81502

4' WHITE SOLID PARKING
LINES (TYPICAL)

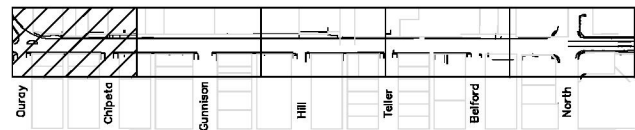
TERRITORY SPORTS
534 N 1ST ST
BRAD R STEWART
639 W TOMAHAWK CIR
GRAND JUNCTION, CO 81504

Chipeta

WHITE PAVEMENT MARKINGS
(TYPICAL)

PERFORMANCE CENTER
616 N 1ST ST
VICKIE L BADINI
AND ROBERT K SACCO
616 N 1ST ST
GRAND JUNCTION, CO 81501

MATCH LINE STA 19+00



KEYMAP

N:\Landprog\2015 1st Street Reconstruction (F1501)\DWG\PUBLICATION\STRIPING.dwg, 10/21/2016 2:02:53 PM

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A XXX		201X	JCS	2016
REVISION B XXX		201X	JCS/JAN	2016
REVISION C XXX		201X	SBG	2016
REVISION D XXX		201X	TOP	2016

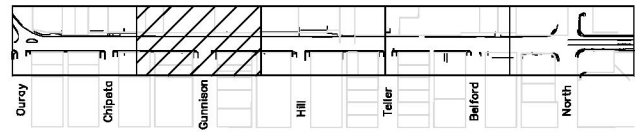
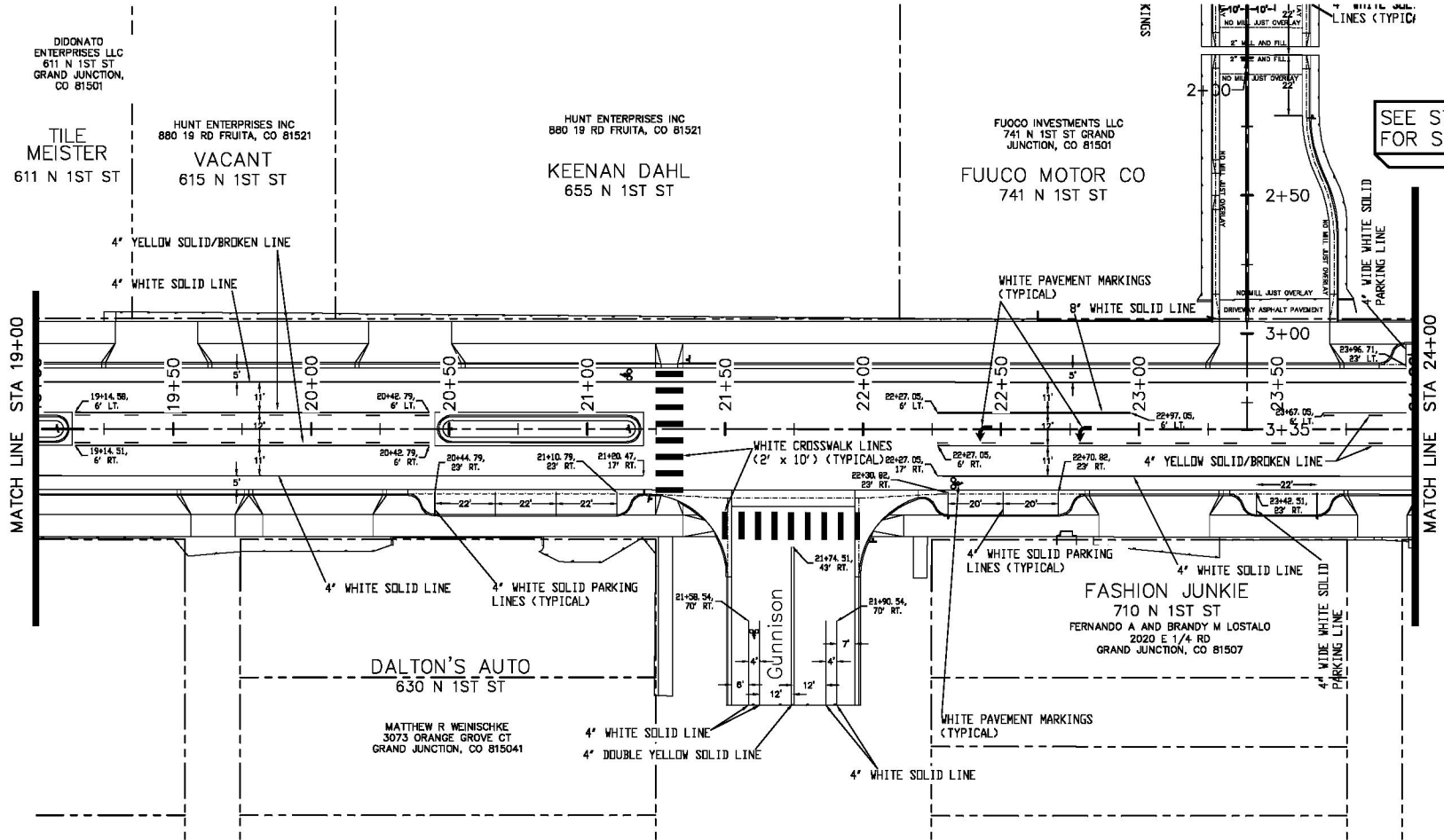


PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
STRIPING PLAN
STA 14+00 TO STA 19+00



SEE STAKING PLANS FOR STAKING DATA



KEYMAP

REVISION	DESCRIPTION	DATE
REVISION Δ XXX		201X
REVISION Δ XXX		201X
REVISION Δ XXX		201X
REVISION Δ XXX		201X

DRAWN BY	JCS	DATE	2016
DESIGNED BY	JCS/JAV	DATE	2016
CHECKED BY	SBG	DATE	2016
APPROVED BY	TCF	DATE	2016



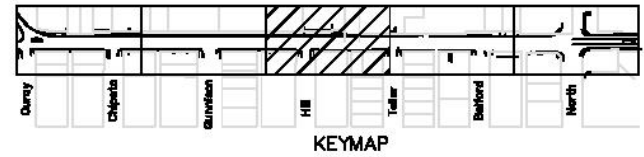
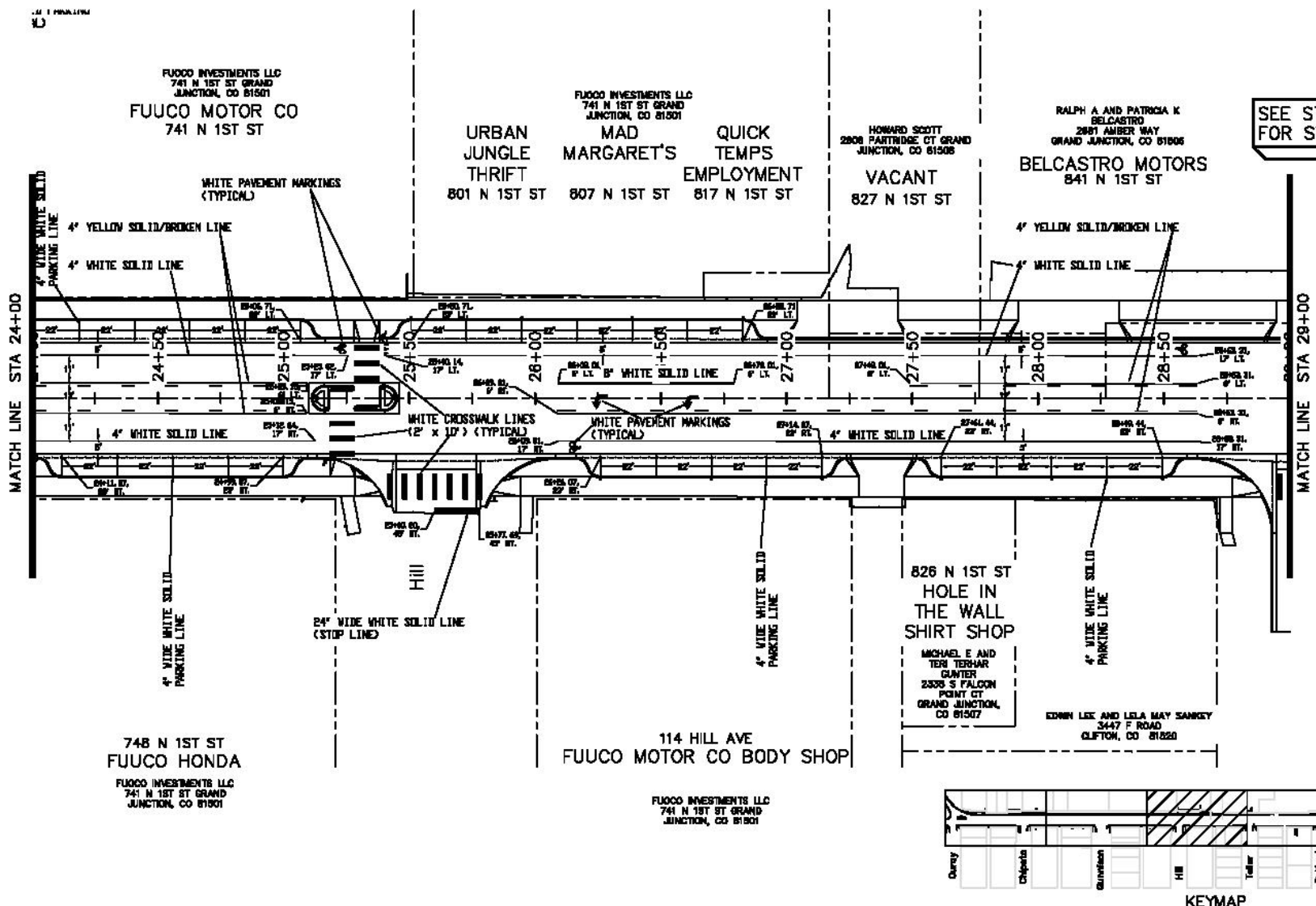
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION STRIPING PLAN STA 19+00 TO STA 24+00

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SEE STAKING PLANS FOR STAKING DATA



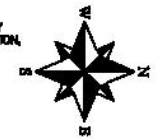
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REVISION A	SEE	2018	ASB	2018	ASB	2018
REVISION B	SEE	2018	ASB	2018	ASB	2018
REVISION C	SEE	2018	ASB	2018	ASB	2018
REVISION D	SEE	2018	ASB	2018	ASB	2018



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION STRIPING PLAN STA 24+00 TO STA 29+00

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SEE STAKING PLANS FOR STAKING DATA

RALPH A AND PATRICIA K BELCASTRO
2601 ANBER WAY
GRAND JUNCTION, CO 81506
BELCASTRO MOTORS
841 N 1ST ST

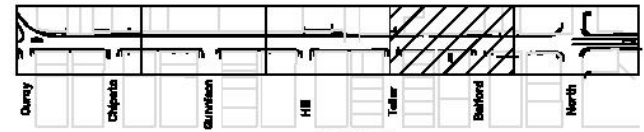
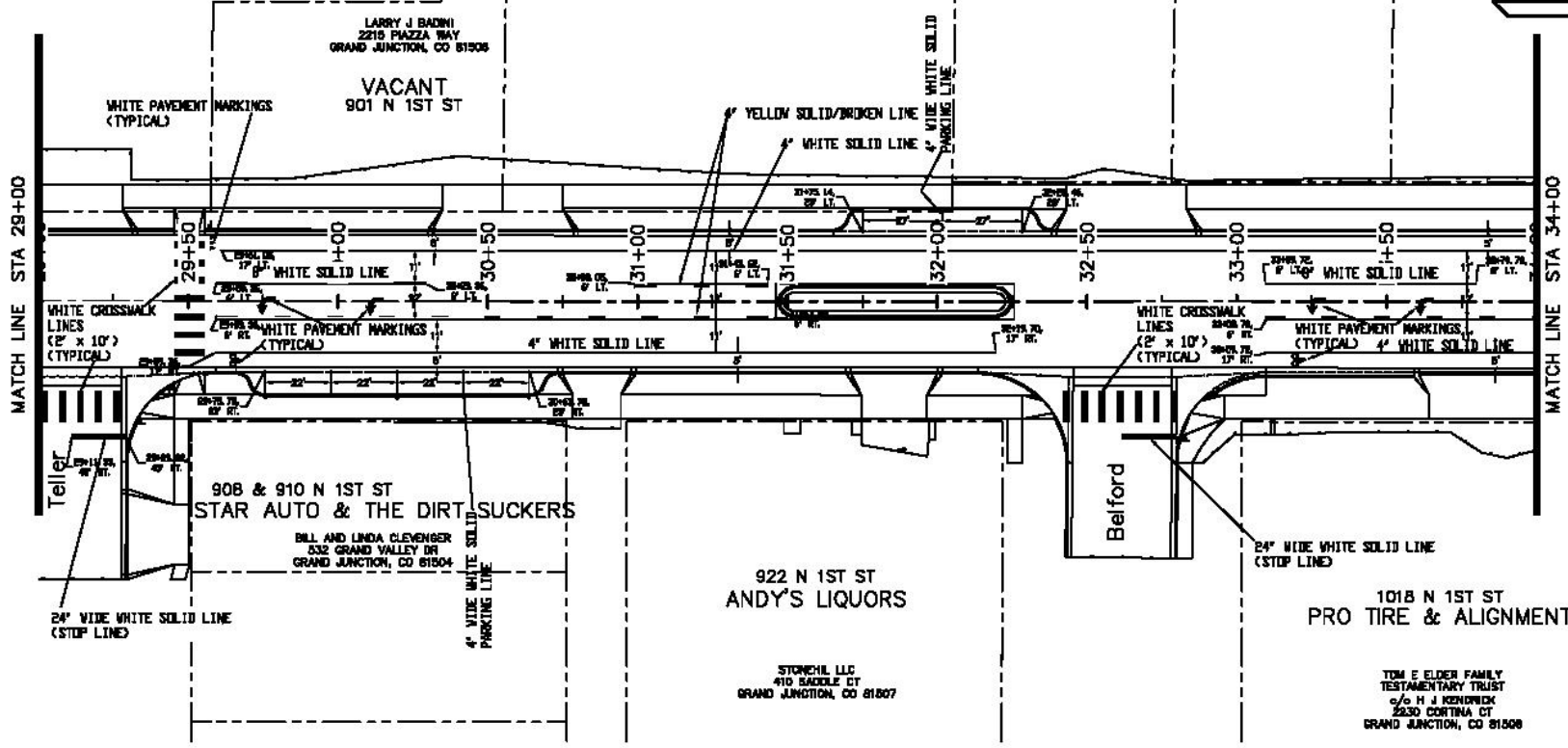
LARRY J BADINI
2215 PIAZZA WAY
GRAND JUNCTION, CO 81506
VACANT
901 N 1ST ST

BERTRAND & COMPANY
706 25 RD GRAND JUNCTION,
CO 81506

BERTRAND & COMPANY
706 25 RD GRAND JUNCTION,
CO 81506

BERTRAND & COMPANY
706 25 RD GRAND JUNCTION,
CO 81506

INTER MOUNTAIN AUTO SALES
935 N 1ST ST



KEYMAP

REVISION	DATE	DESCRIPTION	BY	DATE
REVISION A	2018	ISSUED FOR PERMIT	ASB	2018
REVISION B	2018	ISSUED FOR PERMIT	ASB	2018
REVISION C	2018	ISSUED FOR PERMIT	ASB	2018
REVISION D	2018	ISSUED FOR PERMIT	ASB	2018



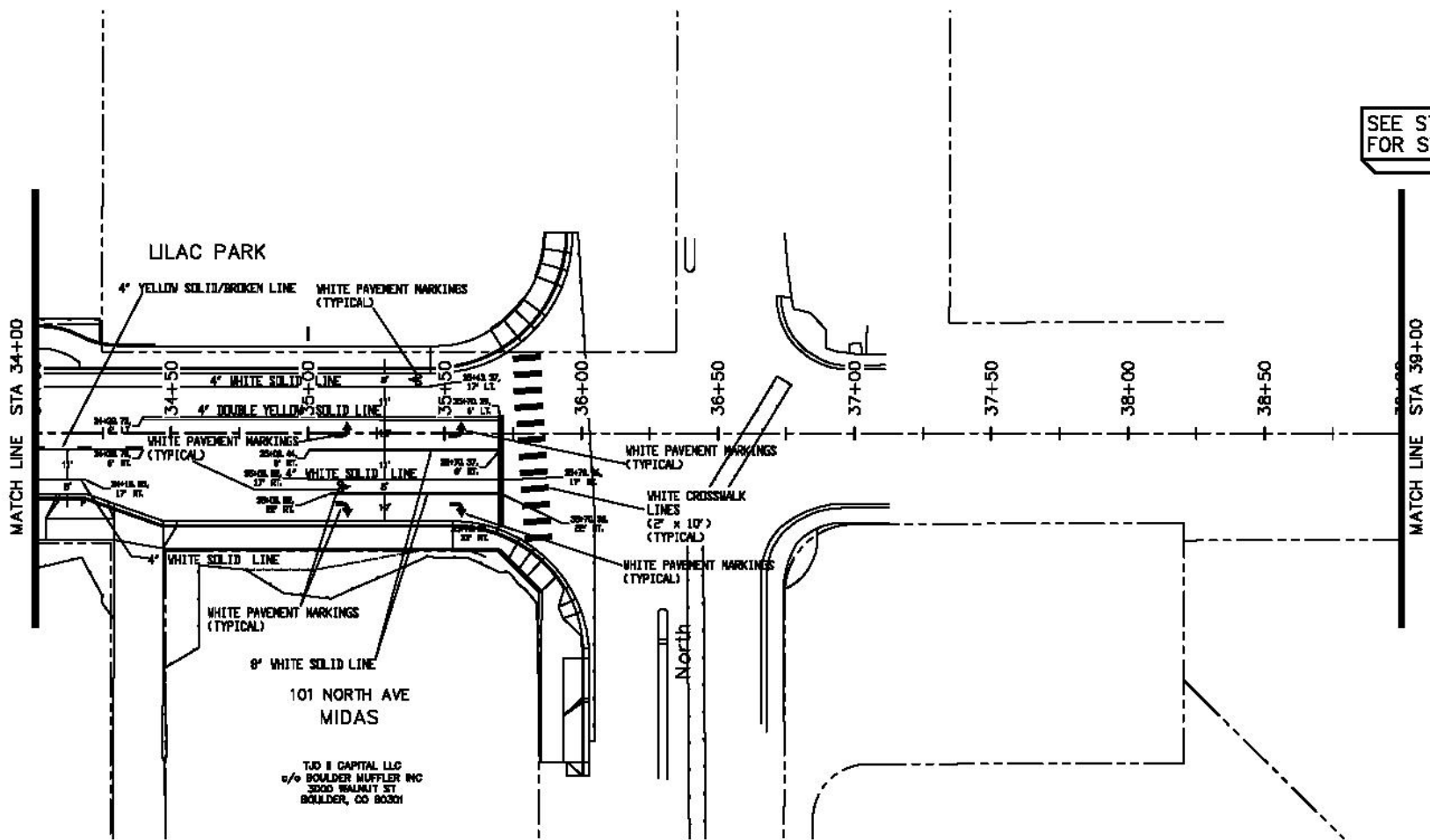
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION STRIPING PLAN
STA 29+00 TO STA 34+00

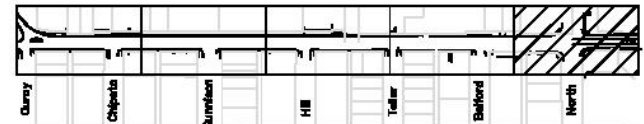
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SEE STAKING PLANS
FOR STAKING DATA



TJO II CAPITAL LLC
c/o BOULDER MUFFLER INC
3000 WALNUT ST
BOULDER, CO 80301



KEYMAP

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**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

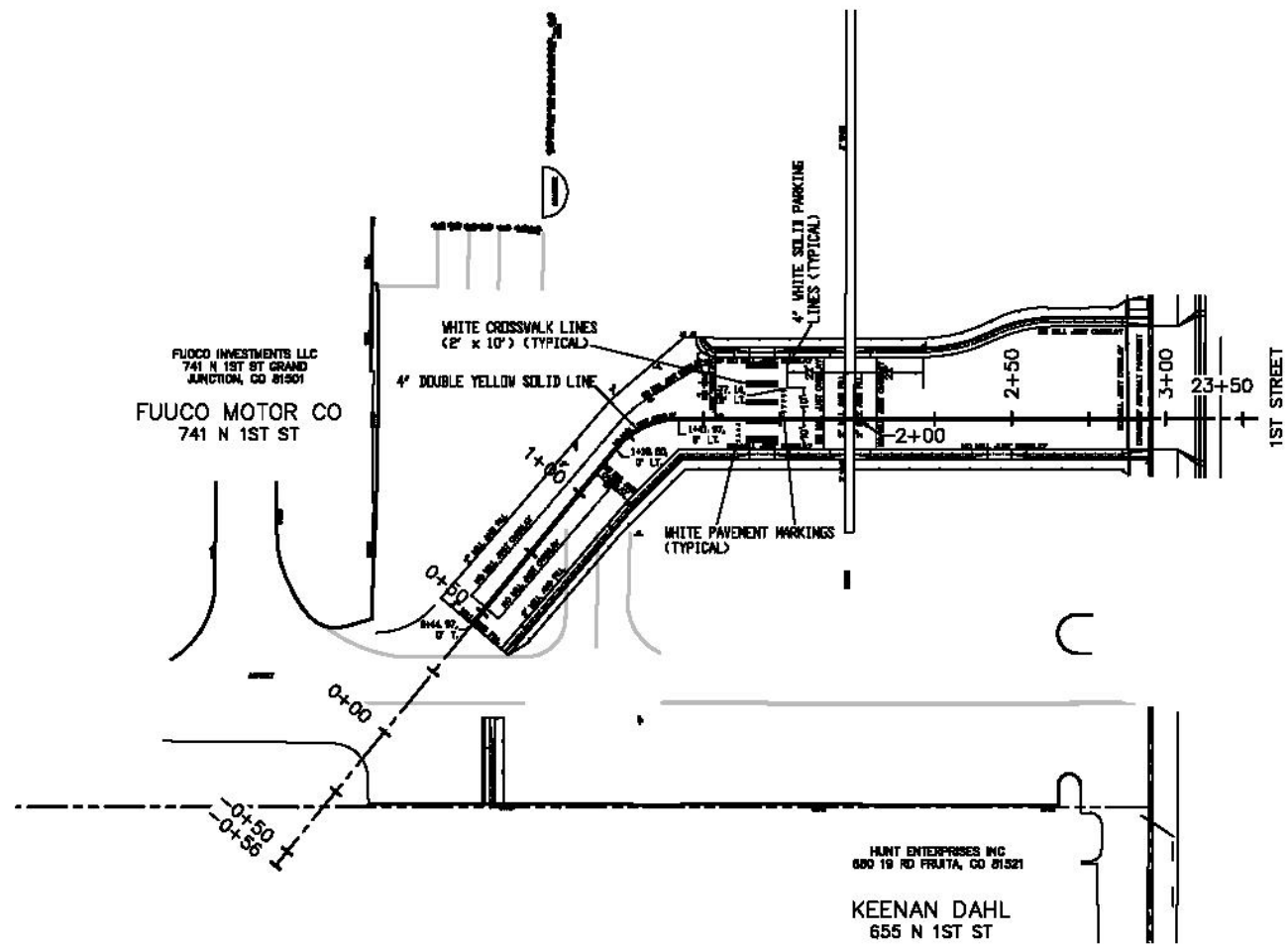
**1ST STREET RECONSTRUCTION
STRIPING PLAN
STA 34+00 TO STA 39+00**



SEE STAKING PLANS
FOR STAKING DATA

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741 N 1ST ST GRAND
JUNCTION, CO 81501

FUOCO MOTOR CO
741 N 1ST ST



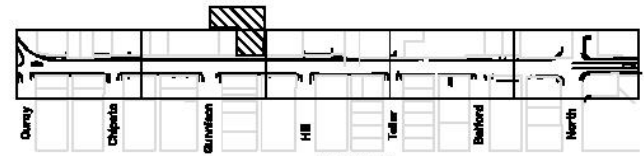
FASHION JUNKIE
710 N 1ST ST

FERNANDO A. AND BRANDY M. LOBATALO
710 N 1ST ST
GRAND JUNCTION, CO 81507

HUNT ENTERPRISES INC
600 19 RD FRUITA, CO 81521

KEENAN DAHL
655 N 1ST ST

GUNNISON



KEYMAP

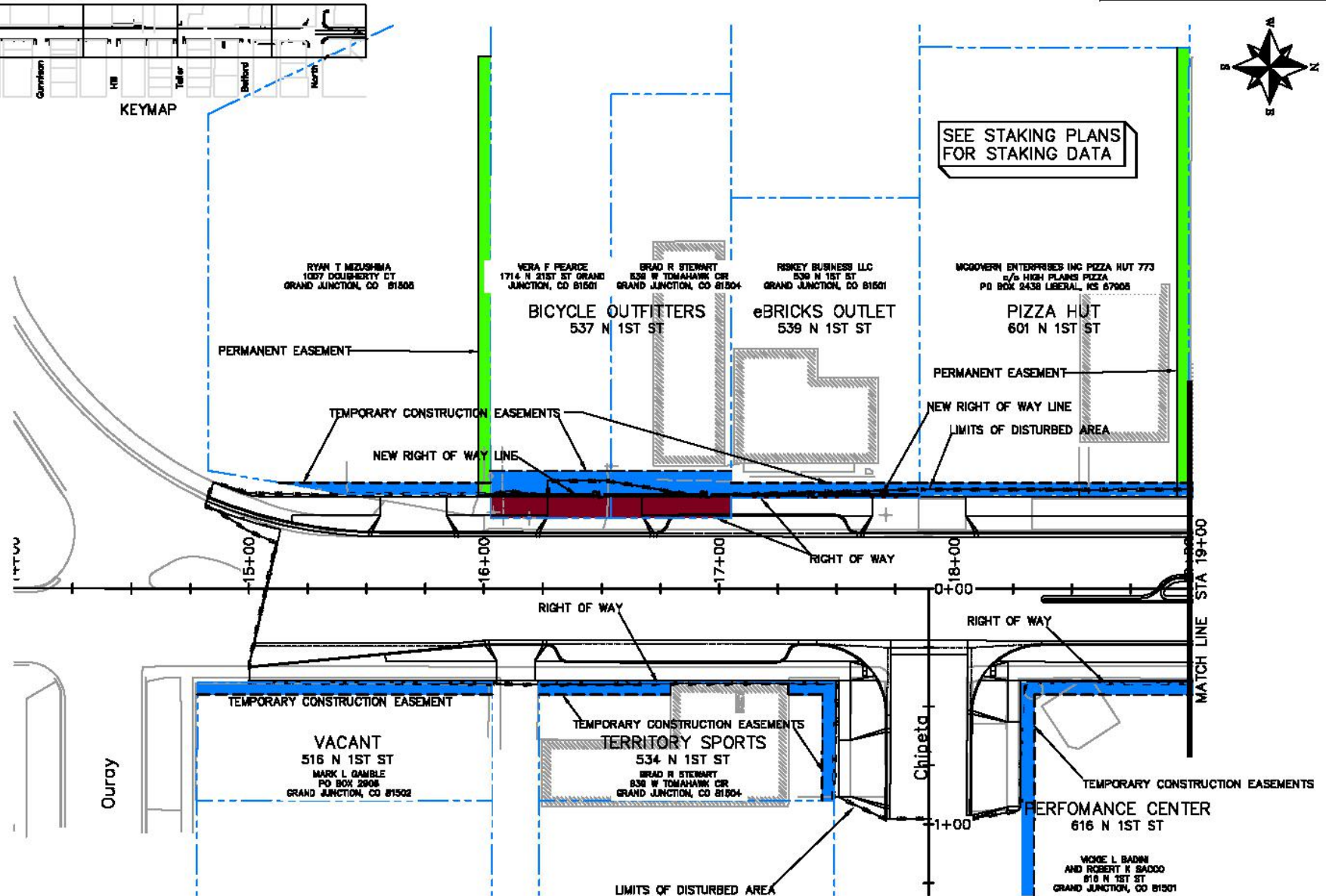
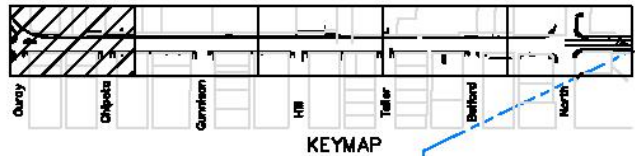
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PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
STRIPING PLAN
FUOCO CADILLAC

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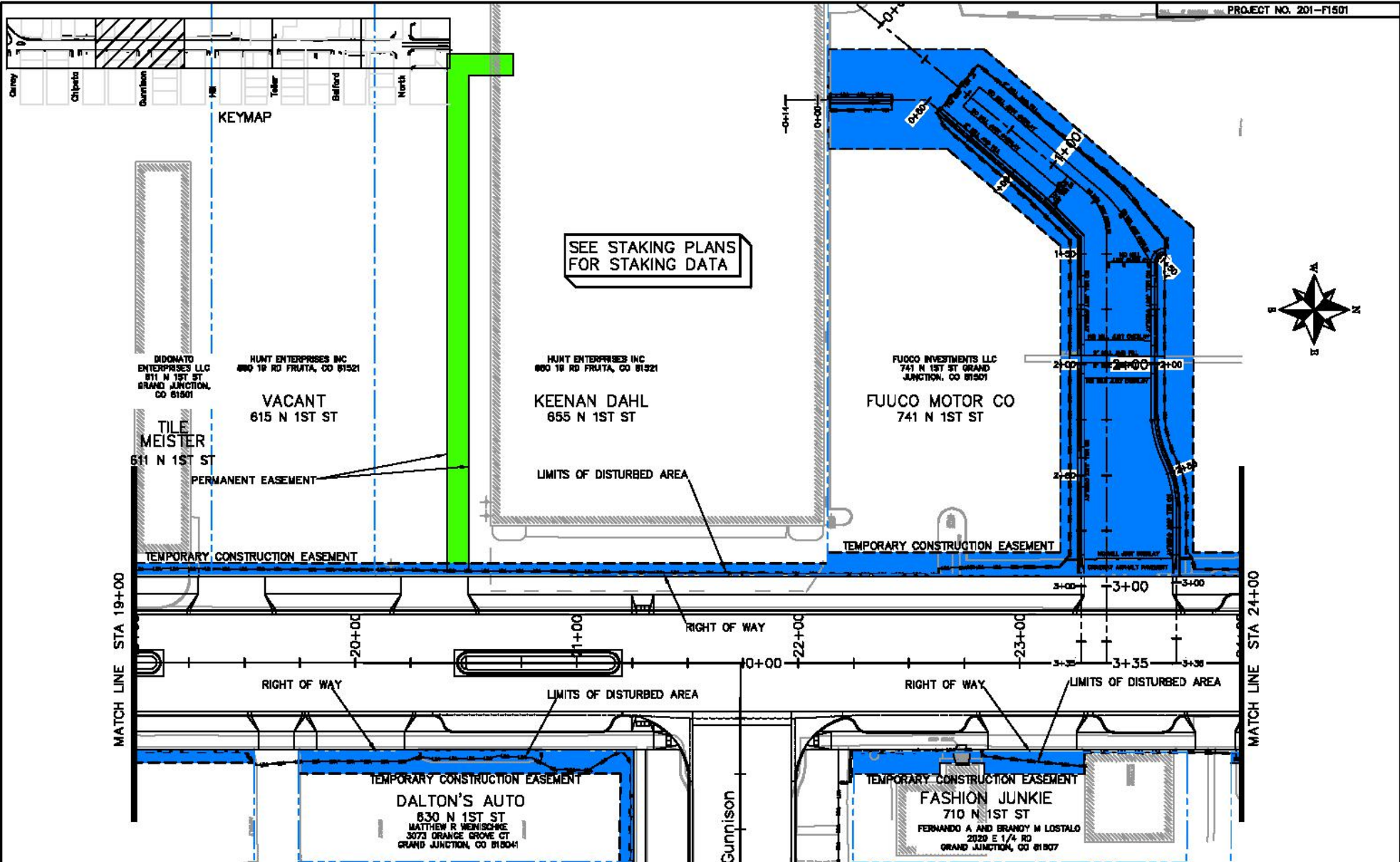
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CHECKED BY	AKR	DATE	2016
APPROVED BY	AKR	DATE	2016



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

**1ST STREET RECONSTRUCTION
TE, PE, AND ROW PLAN
STA 14+00 TO STA 19+00**



DIDONATO ENTERPRISES LLC
811 N 1ST ST
GRAND JUNCTION,
CO 81501

HUNT ENTERPRISES INC
800 18 RD FRUITA, CO 81521

VACANT
615 N 1ST ST

HUNT ENTERPRISES INC
800 18 RD FRUITA, CO 81521

KEENAN DAHL
655 N 1ST ST

FUOCO INVESTMENTS LLC
741 N 1ST ST GRAND
JUNCTION, CO 81501

FUOCO MOTOR CO
741 N 1ST ST

TILE MEISTER
611 N 1ST ST

DALTON'S AUTO
830 N 1ST ST
MATTHEW R WEINSCHE
3073 ORANGE GROVE ST
GRAND JUNCTION, CO 81504

FASHION JUNKIE
710 N 1ST ST
FERNANDO A AND BRANDY M LOSTALO
2020 E 1/4 RD
GRAND JUNCTION, CO 81507

REVISION	DATE	DESCRIPTION
REVISION A	2018	ISSUED FOR PERMITS
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REVISION C	2018	ISSUED FOR PERMITS
REVISION D	2018	ISSUED FOR PERMITS

DESIGNED BY	ACB	DATE	2018
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APPROVED BY	TOP	DATE	2018

SCALE: PLAN & PROFILE

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Grand Junction
COLORADO

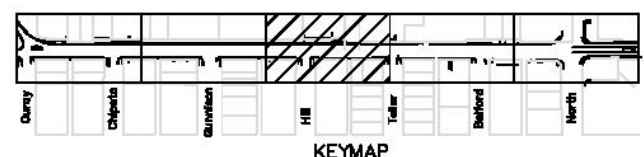
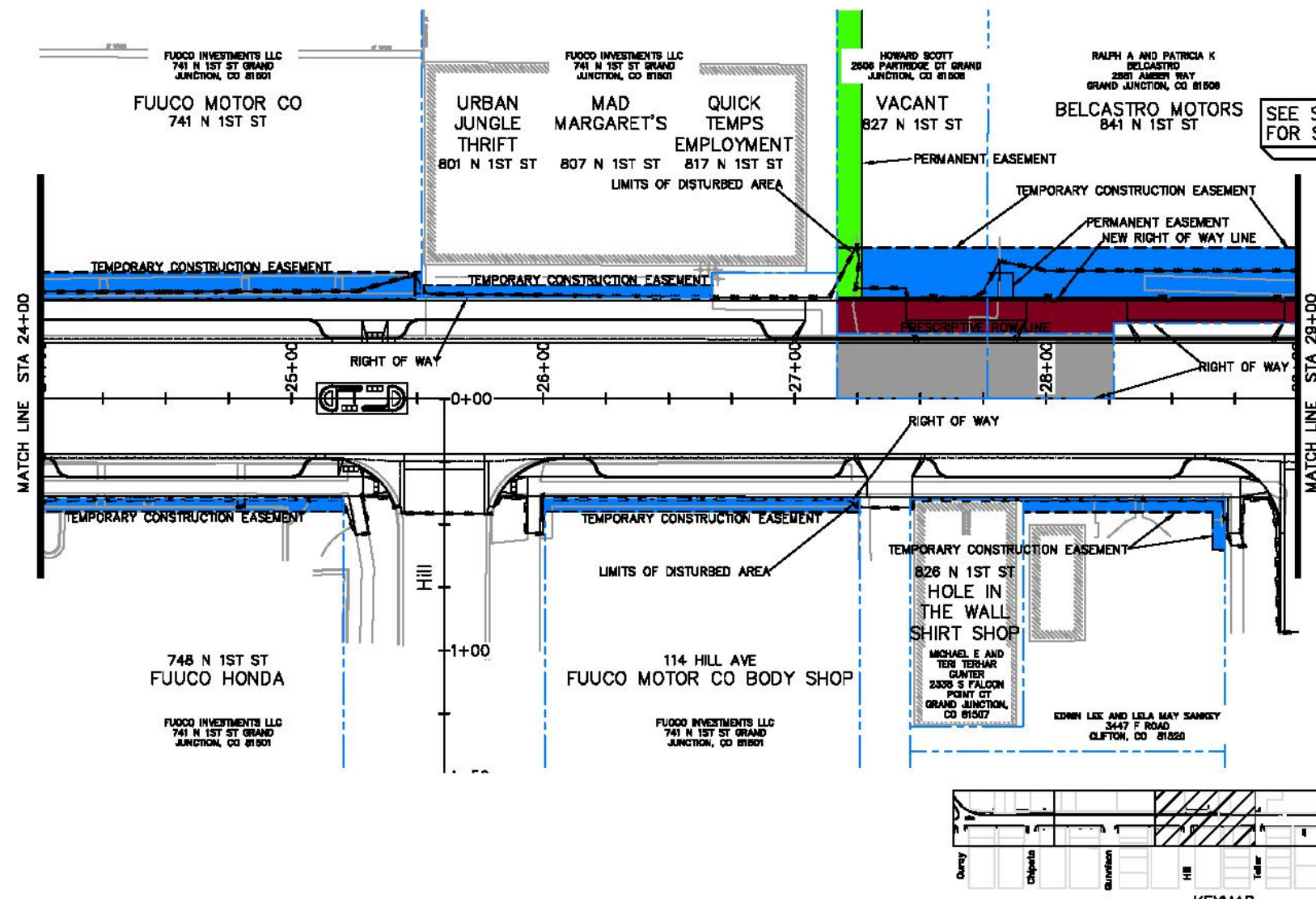
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
TE, PE, AND ROW PLAN
STA 19+00 TO STA 24+00**

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SEE STAKING PLANS FOR STAKING DATA



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PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

**1ST STREET RECONSTRUCTION
TE, PE, AND ROW PLAN
STA 24+00 TO STA 29+00**

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RALPH A AND PATRICIA K
BELCASTRO
2891 AMBER WAY
GRAND JUNCTION, CO 81506
BELCASTRO MOTORS
841 N 1ST ST

LARRY J BADINI
2218 PIAZZA WAY
GRAND JUNCTION, CO 81506
VACANT
901 N 1ST ST

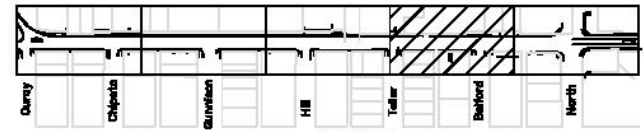
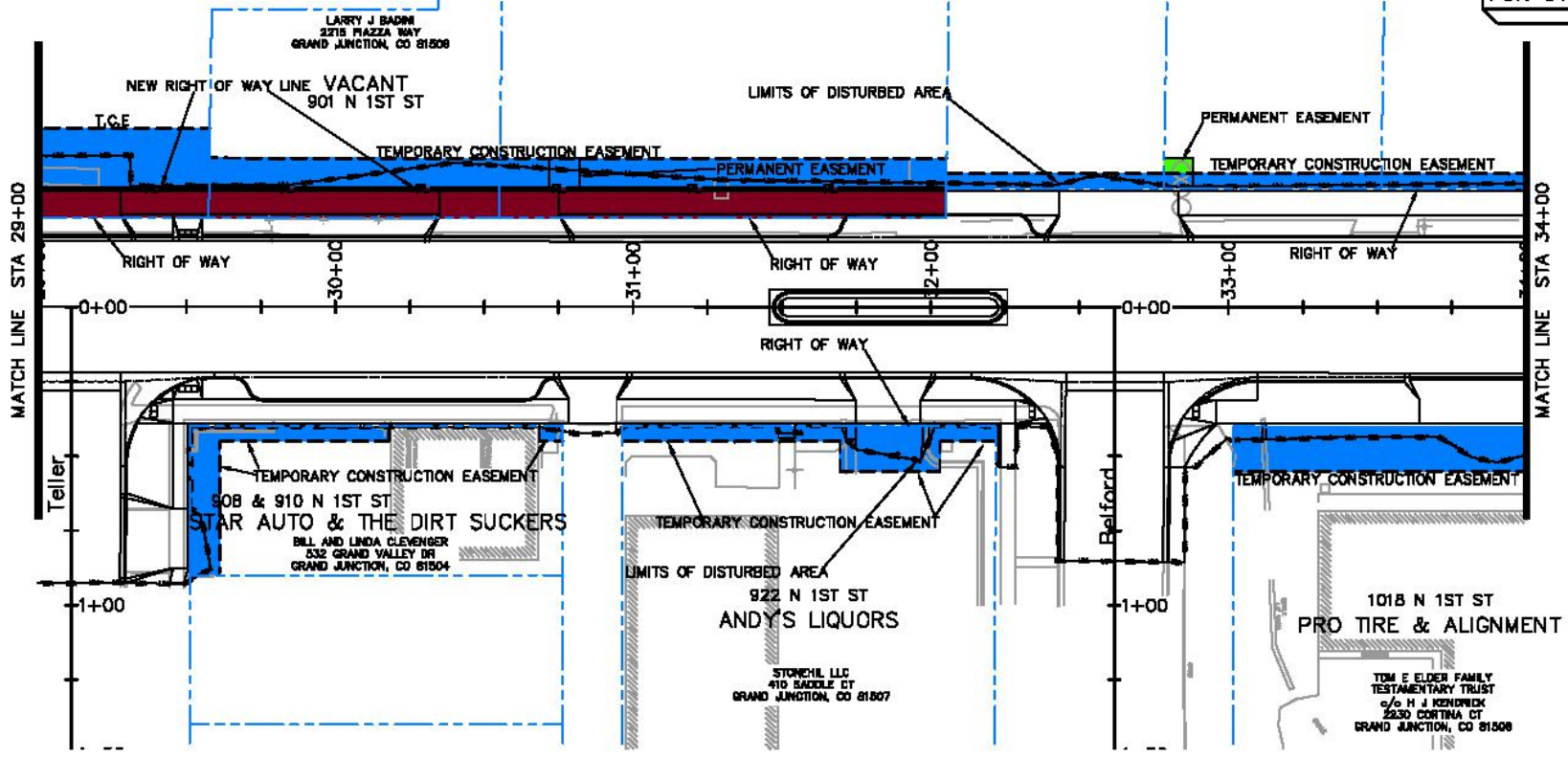
BERTRAND & COMPANY
798 25 RD GRAND JUNCTION,
CO 81506

BERTRAND & COMPANY
798 25 RD GRAND JUNCTION,
CO 81506

BERTRAND & COMPANY
798 25 RD GRAND JUNCTION,
CO 81506

INTER MOUNTAIN AUTO SALES
835 N 1ST ST

SEE STAKING PLANS
FOR STAKING DATA



KEYMAP

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REVISION A	2018		2018	ASB	2018		
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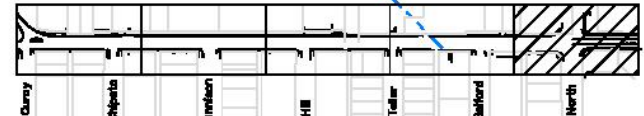
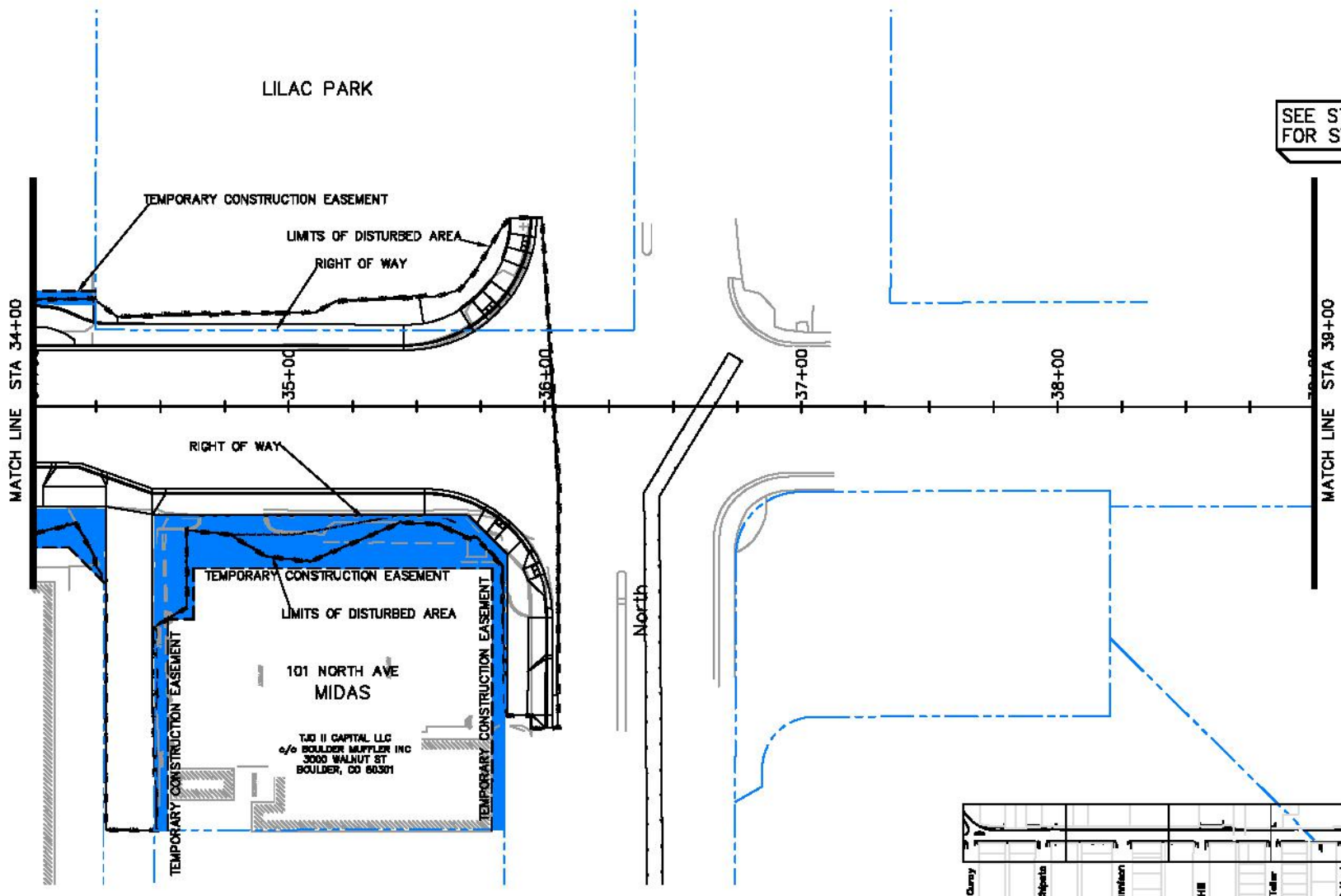
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
TE, PE, AND ROW PLAN
STA 29+00 TO STA 34+00**

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SEE STAKING PLANS
FOR STAKING DATA



KEYMAP

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DESIGNER	DATE
ACB	2016

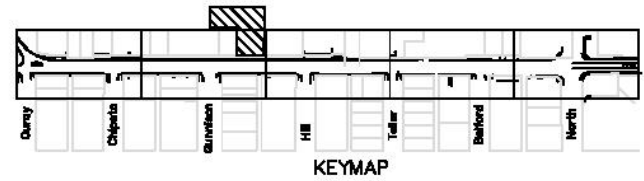
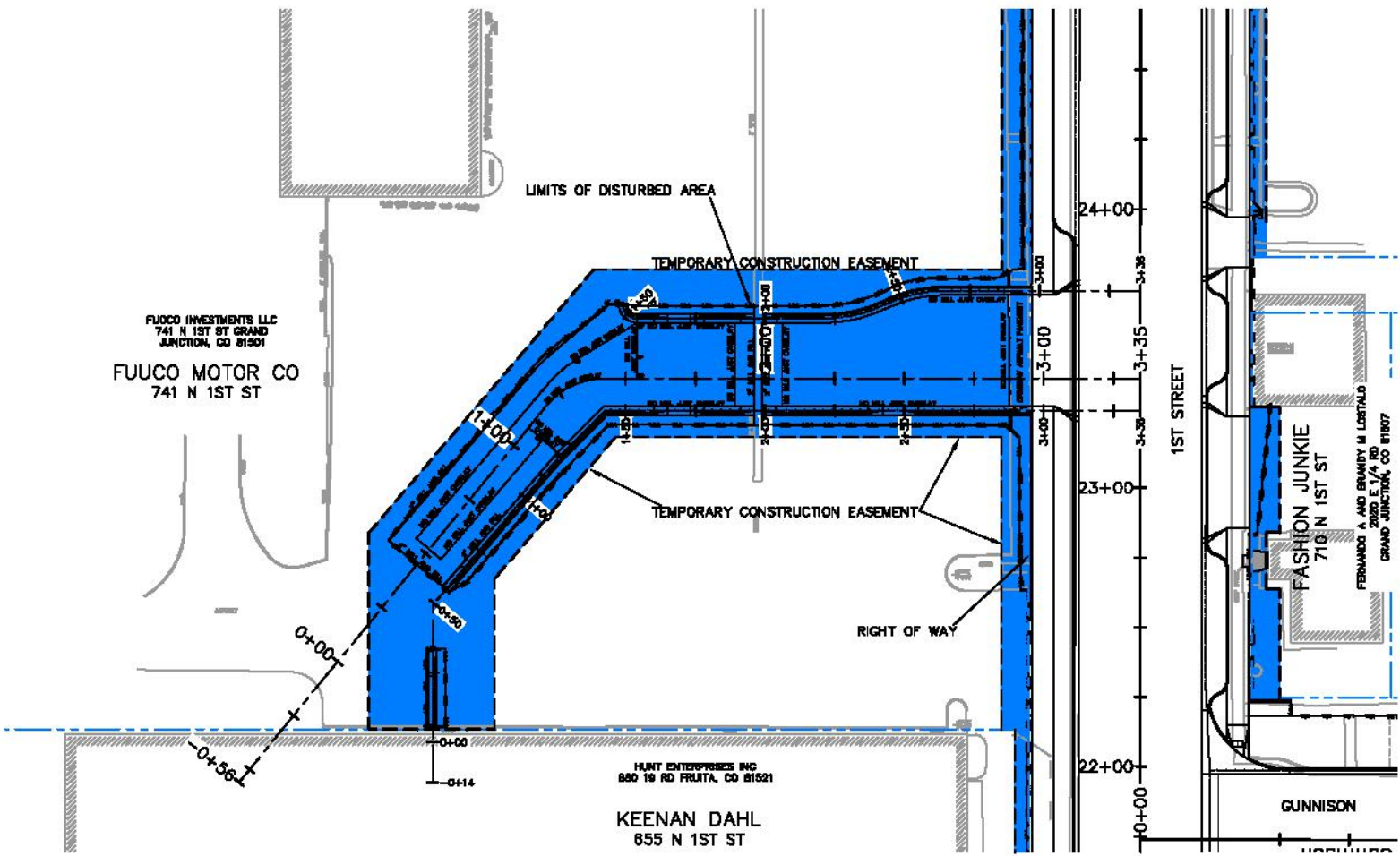
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COLORADO

**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
TE, PE, AND ROW PLAN
STA 34+00 TO STA 39+00**



SEE STAKING PLANS
FOR STAKING DATA



REVISION	DATE	DESCRIPTION	BY	DATE	SCALE
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REVISION A 202	2019		ASB	2019	ASB
REVISION A 203	2019		ASB	2019	ASB
REVISION A 204	2019		ASB	2019	ASB
REVISION A 205	2019		ASB	2019	ASB

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**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
TE, PE, AND ROW PLAN
FUOCO CADILLAC**

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SEE STAKING PLANS FOR STAKING DATA

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741 N 1ST ST GRAND
JUNCTION, CO 81501

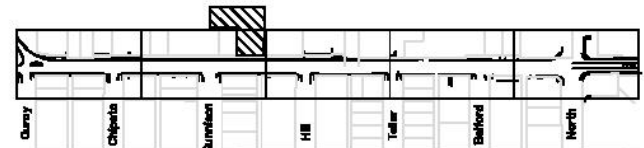
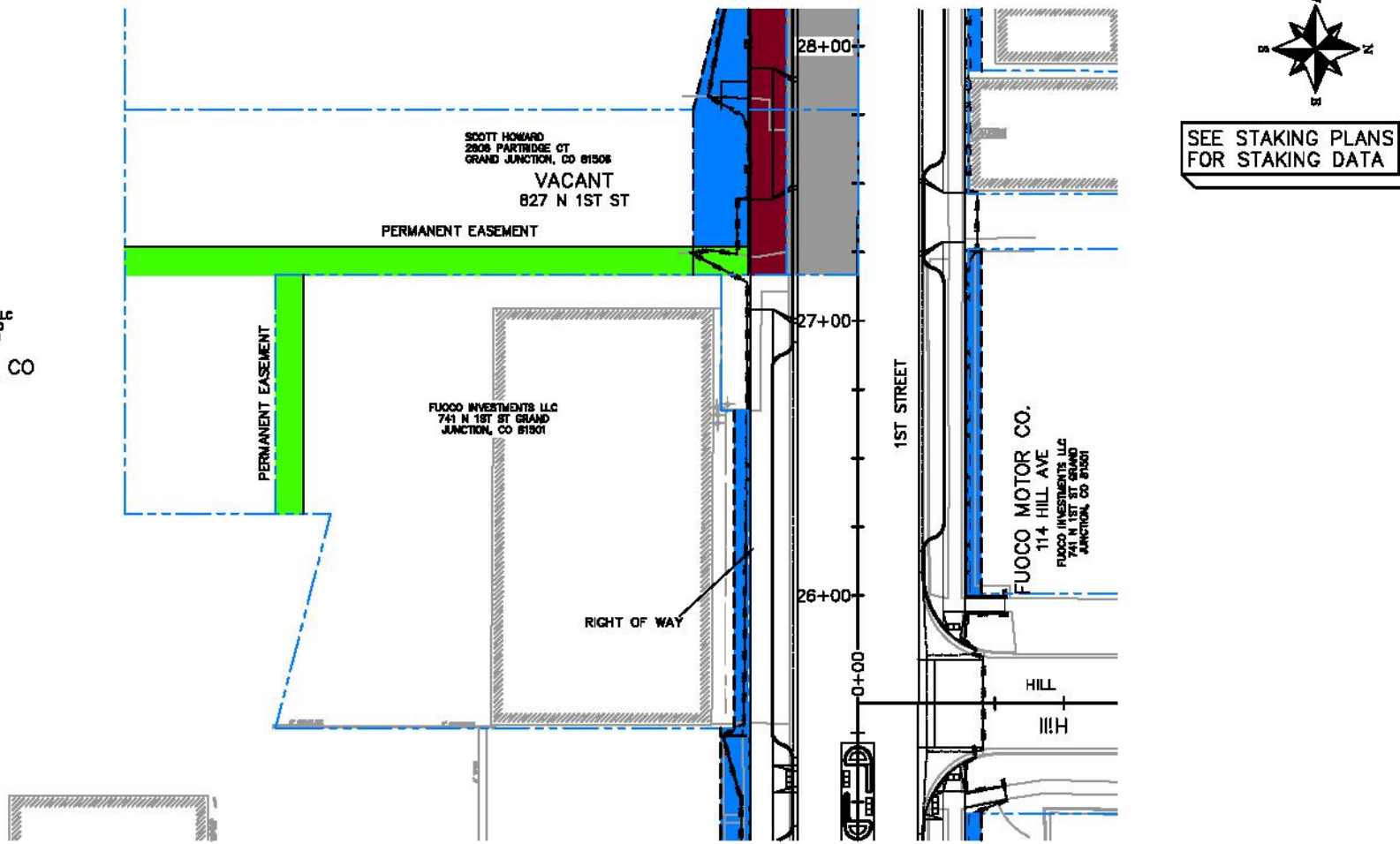
FUOCO MOTOR CO
741 N 1ST ST

SCOTT HOWARD
2808 PARTRIDGE CT
GRAND JUNCTION, CO 81508

VACANT
827 N 1ST ST

FUOCO INVESTMENTS LLC
741 N 1ST ST GRAND
JUNCTION, CO 81501

FUOCO MOTOR CO.
114 HILL AVE
FUOCO INVESTMENTS LLC
741 N 1ST ST GRAND
JUNCTION, CO 81501



KEYMAP

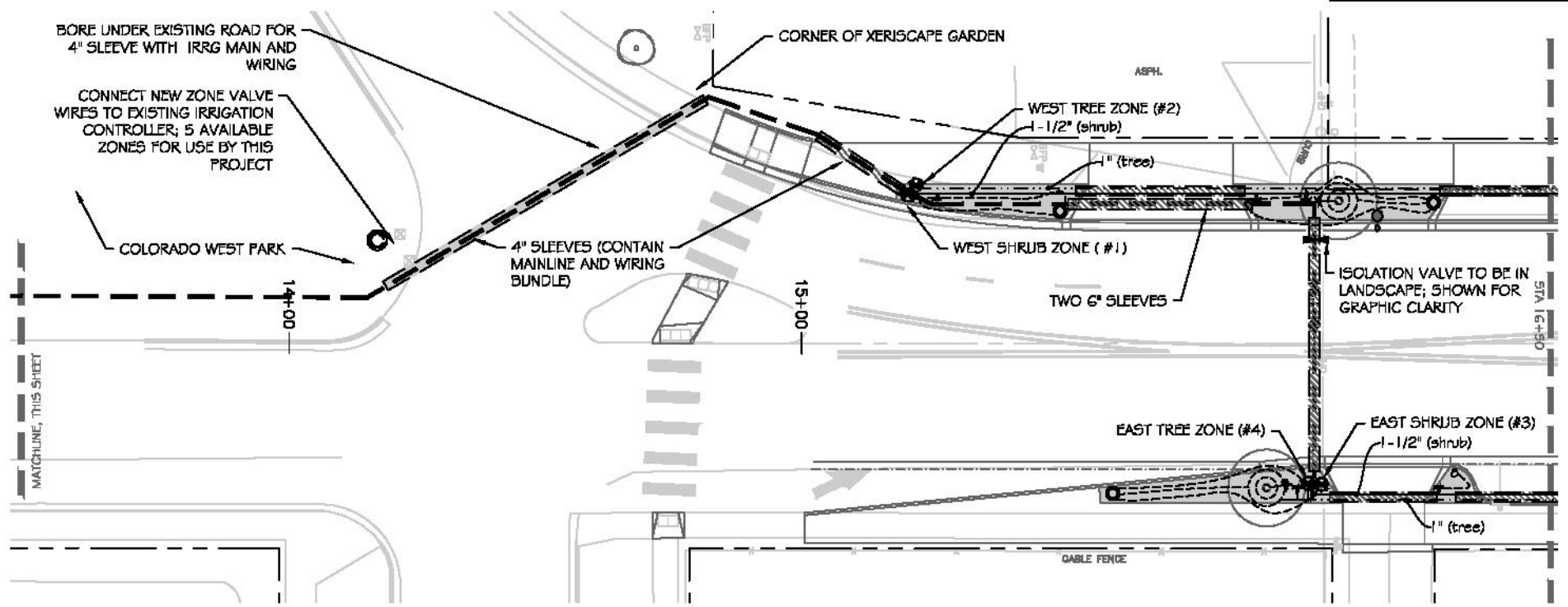
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COLORADO

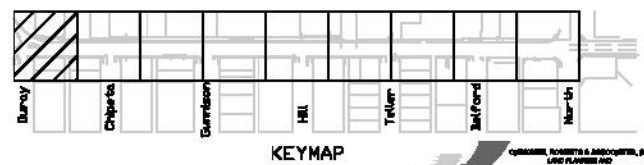
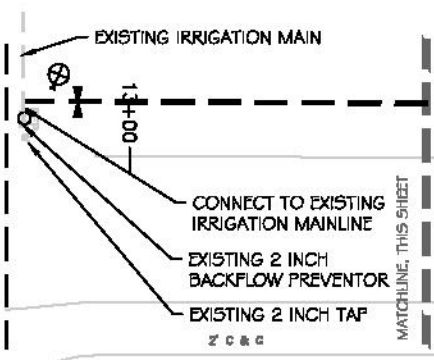
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
TE, PE, AND ROW PLAN
FUOCO CADILLAC**



LEGEND

- CLASS 200 PVC MAIN, 1-1/2" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - SHRUB - 1" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - TREE ZONE 1" UNLESS NOTED OTHERWISE
- TREE DRIPPER LINE ASSEMBLY DETAIL BA-10
- 1/2" DRIP TUBE
- PIPE SIZING
- IRRIGATION SLEEVE, 6" UNLESS OTHERWISE NOTED
- DIRECTIONAL BORE WITH SLEEVE
- RAINBIRD DRIP ZONE VALVE, DETAIL CA-10; SIZE PER VALVE SCHEDULE, SHEET 1-1-1
- ISOLATION VALVE DETAIL EA-10
- MANUAL DRAIN VALVE DETAIL DJ-10
- COMPRESSION "T" FITTING
- DRIP ZONE FLUSH BOX (> 15 FT. LENGTH OF TUBING) DETAIL AI-10
- FIGURE 8 HOSE END (<= 15 FT. LENGTH OF TUBING)
- EXISTING IRRIGATION CONTROLLER



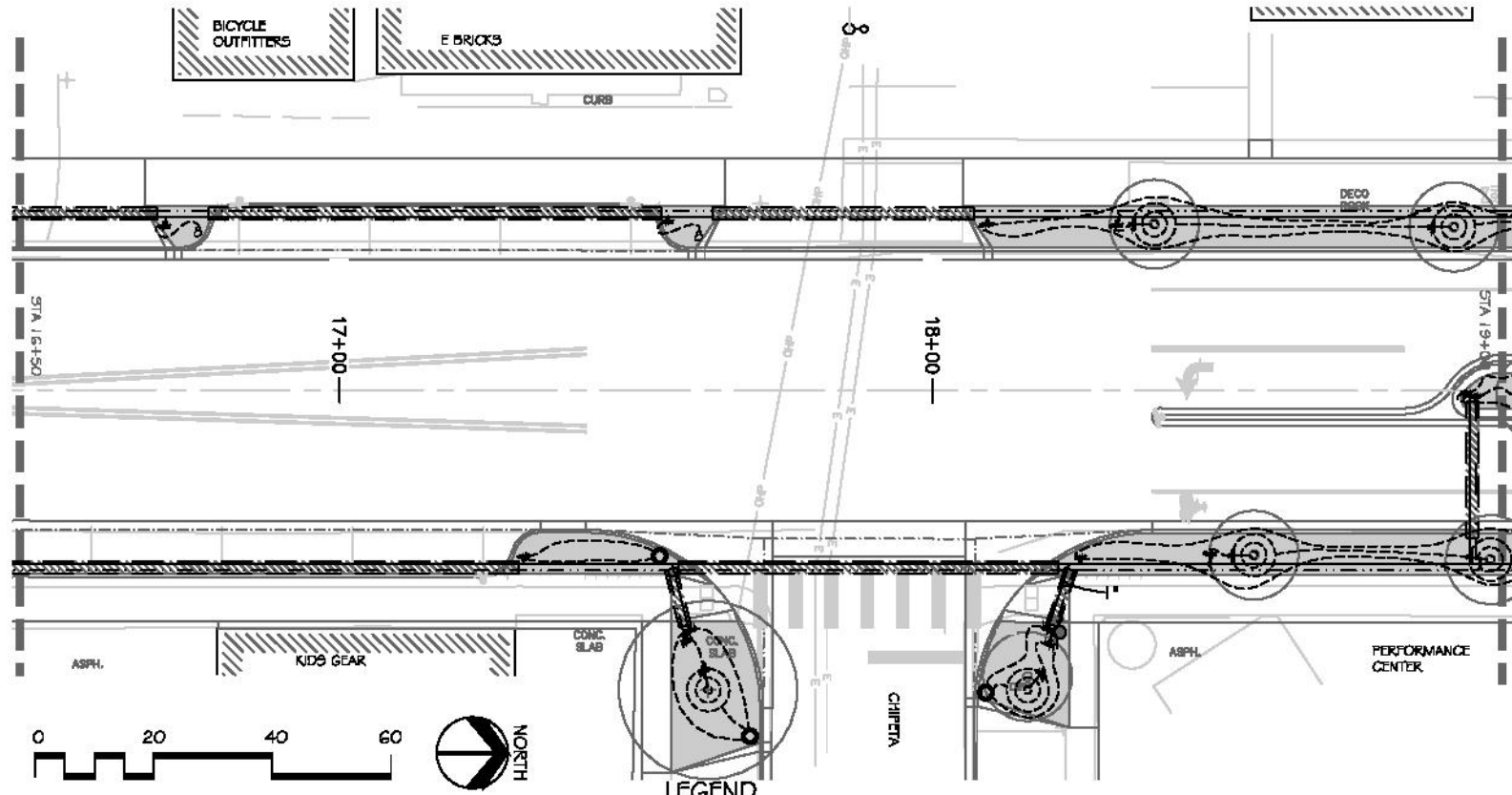
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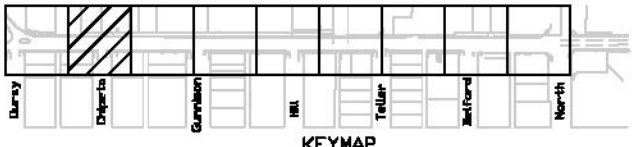
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION IRRIGATION PLAN I-1 STA 12+80 TO STA 18+00



LEGEND

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- LATERAL PVC PIPING - SHRUB - 1" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - TREE ZONE 1" UNLESS NOTED OTHERWISE
- ⊙ TREE DRIPPER LINE ASSEMBLY DETAIL BI-10
- 1/2" DRIP TUBE
- ✓ PIPE SIZING
- ▨ IRRIGATION SLEEVE, 6" UNLESS OTHERWISE NOTED
- ▤ DIRECTIONAL BORE WITH SLEEVE
- ⊙ RAINBIRD DRIP ZONE VALVE, DETAIL CI-10; SIZE PER VALVE SCHEDULE, SHEET I-1
- ⊙ ISOLATION VALVE DETAIL EI-10
- ⊙ MANUAL DRAIN VALVE DETAIL DI-10
- ⊙ COMPRESSION T^e FITTING
- ⊙ DRIP ZONE FLUSH BOX (> 15 FT. LENGTH OF TUBING) DETAIL AI-10
- ⊙ FIGURE 8 HOSE END (<= 15 FT. LENGTH OF TUBING)
- ⊙ EXISTING IRRIGATION CONTROLLER



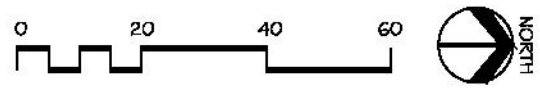
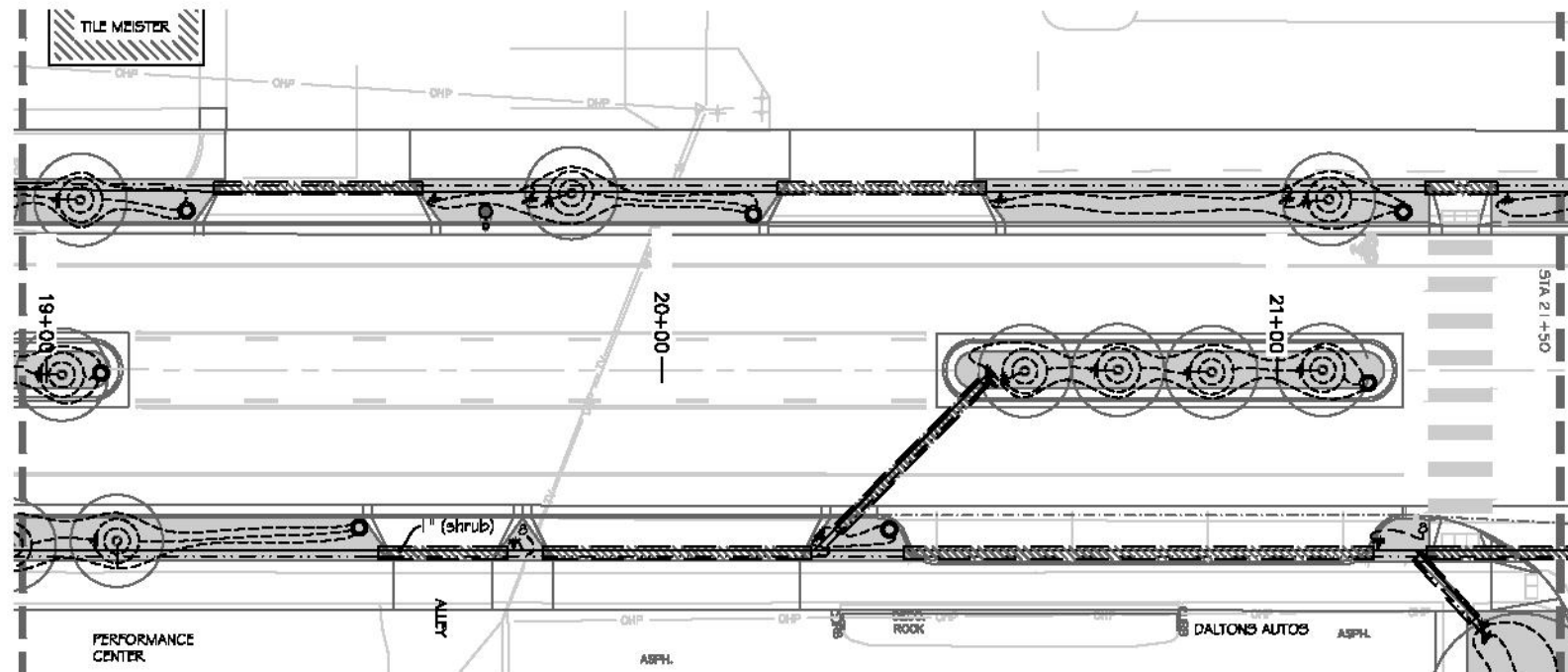
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Grand Junction
COLORADO

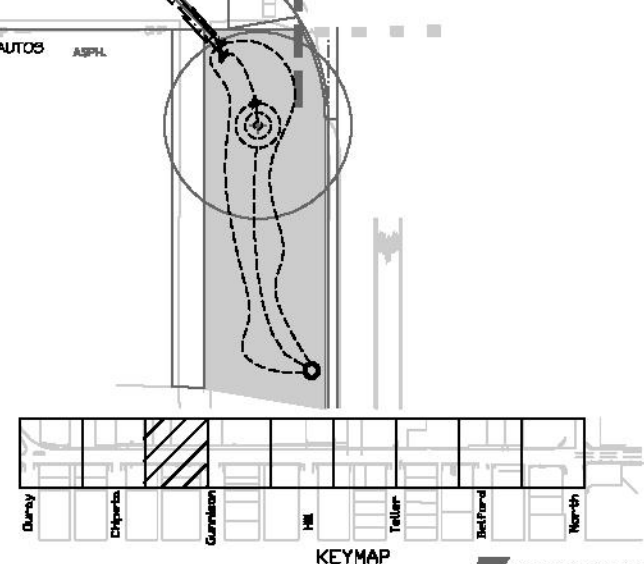
PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
IRRIGATION PLAN I-2
STA 16+50 TO STA 19+00



LEGEND

- CLASS 200 PVC MAIN, 1-1/2" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - SHRUB - 1" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - TREE ZONE 1" UNLESS NOTED OTHERWISE
- TREE DRIPPER LINE ASSEMBLY DETAIL B1-10
- DRIP TUBE
- PIPE SIZING
- IRRIGATION SLEEVE, 6" UNLESS OTHERWISE NOTED
- DIRECTIONAL BORE WITH SLEEVE
- RAINBIRD DRIP ZONE VALVE, DETAIL C1-10; SIZE PER VALVE SCHEDULE, SHEET I-11
- ISOLATION VALVE DETAIL E1-10
- MANUAL DRAIN VALVE DETAIL D1-10
- COMPRESSION "T" FITTING
- DRIP ZONE FLUSH BOX (> 15 FT. LENGTH OF TUBING) DETAIL A1-10
- FIGURE 8 HOSE END (<= 15 FT. LENGTH OF TUBING)
- EXISTING IRRIGATION CONTROLLER



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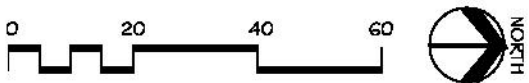
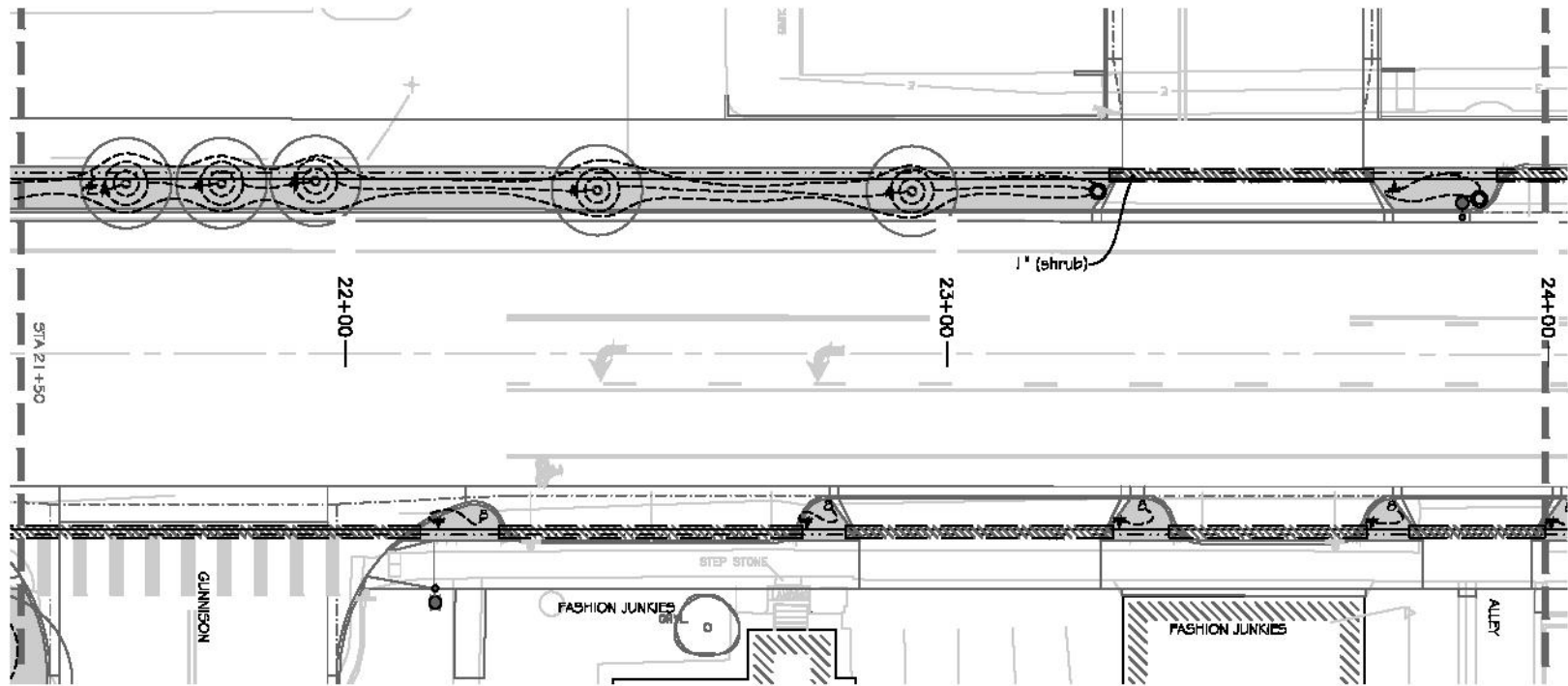
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COLORADO

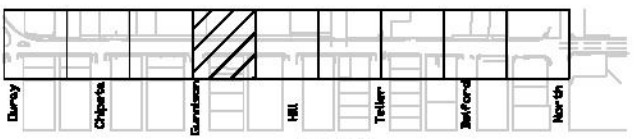
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
IRRIGATION PLAN I-3
STA 19+00 TO STA 21+50**



LEGEND

- CLASS 200 PVC MAIN, 1-1/2" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - SHRUB - 1" UNLESS NOTED OTHERWISE
- - - LATERAL PVC PIPING - TREE ZONE 1" UNLESS NOTED OTHERWISE
- ⊙ TREE DRIPPER LINE ASSEMBLY DETAIL BA-10
- - - 1/2" DRIP TUBE
- ~ PIPE SIZING
- ▨ IRRIGATION SLEEVE, 6" UNLESS OTHERWISE NOTED
- ▤ DIRECTIONAL BORE WITH SLEEVE
- ⊙ RAINBIRD DRIP ZONE VALVE, DETAIL Q/-10; SIZE PER VALVE SCHEDULE, SHEET I-11
- ⊘ ISOLATION VALVE DETAIL EA-10
- ⊙ MANUAL DRAIN VALVE DETAIL DA-10
- ⊕ COMPRESSION 'T' FITTING
- ⊙ DRIP ZONE FLUSH BOX (> 15 FT. LENGTH OF TUBING) DETAIL AA-10
- ⊙ FIGURE B HOSE END (<= 15 FT. LENGTH OF TUBING)
- ⊙ EXISTING IRRIGATION CONTROLLER



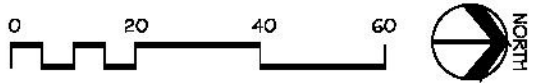
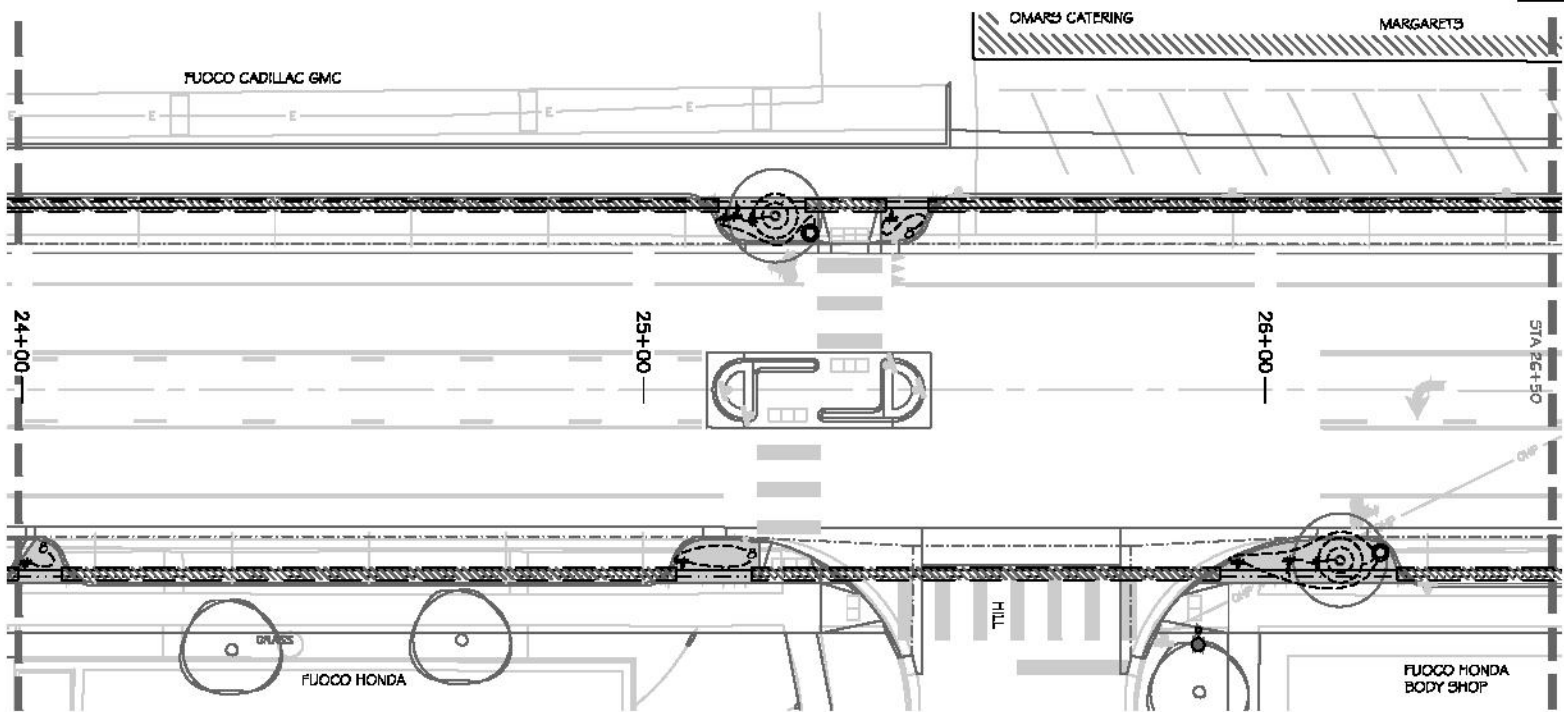
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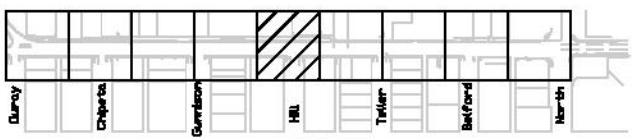
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
IRRIGATION PLAN I-4
STA 21+50 TO STA 24+00**



LEGEND

- CLASS 200 PVC MAIN, 1-1/2" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - SHRUB - 1" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - TREE ZONE 1" UNLESS NOTED OTHERWISE
- TREE DRIPPER LINE ASSEMBLY DETAIL E/I-10
- 1/2" DRIP TUBE
- PIPE SIZING
- IRRIGATION SLEEVE, 6" UNLESS OTHERWISE NOTED
- DIRECTIONAL BORE WITH SLEEVE
- RAINBIRD DRIP ZONE VALVE, DETAIL C/I-10; SIZE PER VALVE SCHEDULE, SHEET I-11
- ISOLATION VALVE DETAIL E/I-10
- MANUAL DRAIN VALVE DETAIL D/I-10
- COMPRESSION "T" FITTING
- DRIP ZONE FLUSH BOX (> 15 FT. LENGTH OF TUBING) DETAIL A/I-10
- FIGURE 8 HOSE END (< 15 FT. LENGTH OF TUBING)
- EXISTING IRRIGATION CONTROLLER



REVISION	DATE	BY	CHKD
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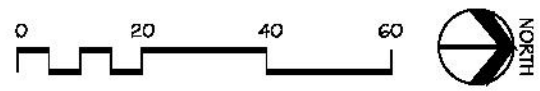
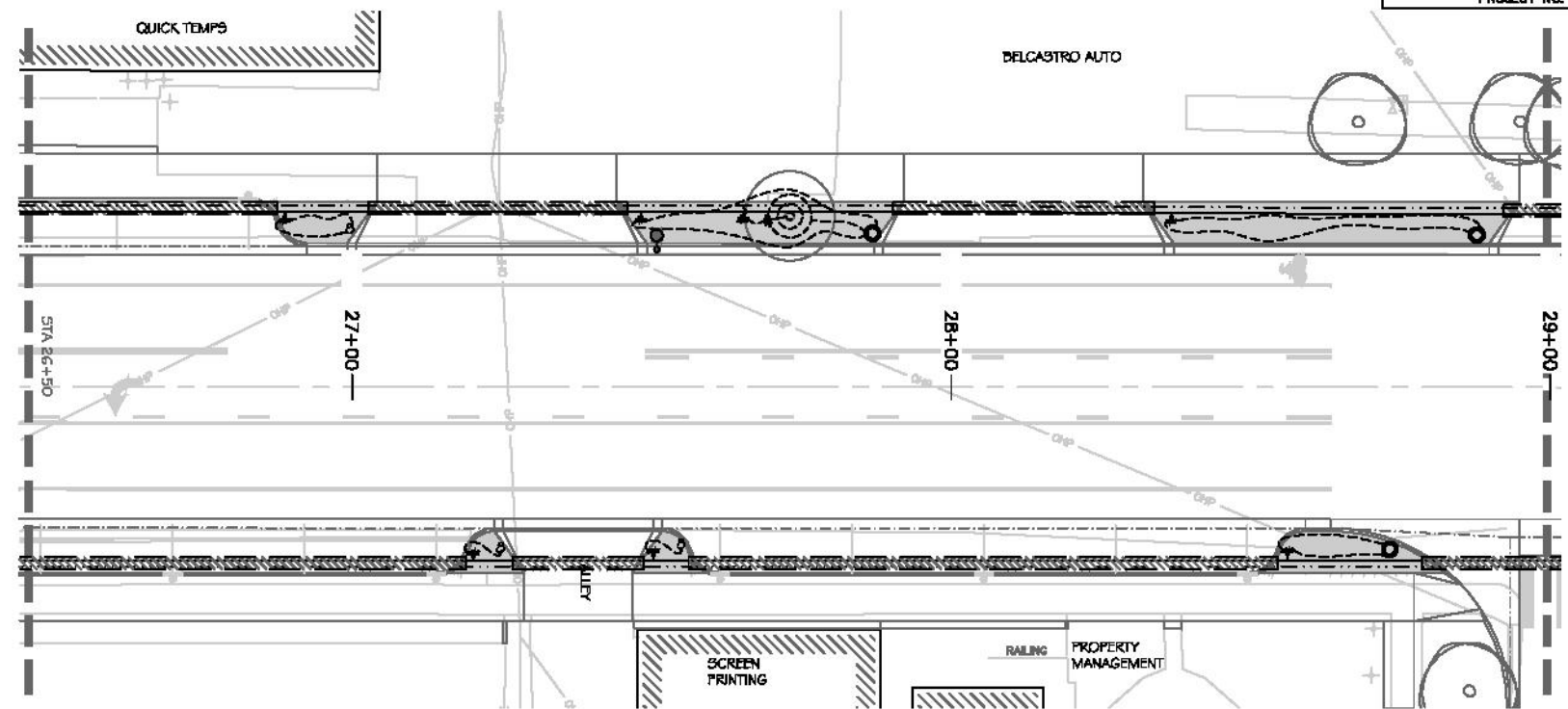
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AND UTILITIES
ENGINEERING DIVISION**

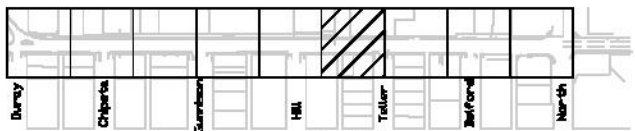
**1ST STREET RECONSTRUCTION
IRRIGATION PLAN I-5
STA 24+00 TO STA 26+60**

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LEGEND

- CLASS 200 PVC MAIN, 1-1/2" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - SHRUB - 1" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - TREE 1" UNLESS NOTED OTHERWISE
- TREE DRIPPER LINE ASSEMBLY DETAIL B/I-10
- 1/2" DRIP TUBE
- PIPE SIZING
- IRRIGATION SLEEVE, 6" UNLESS OTHERWISE NOTED
- DIRECTIONAL BORE WITH SLEEVE
- RAINBIRD DRIP ZONE VALVE, DETAIL C/I-10; SIZE PER VALVE SCHEDULE, SHEET I-11
- ISOLATION VALVE DETAIL E/I-10
- MANUAL DRAIN VALVE DETAIL D/I-10
- COMPRESSION FITTING
- DRIP ZONE FLUSH BOX (> 15 FT. LENGTH OF TUBING) DETAIL A/I-10
- FIGURE 8 HOSE END (<= 15 FT. LENGTH OF TUBING)
- EXISTING IRRIGATION CONTROLLER



KEYMAP

REVISION	DATE	BY	CHKD	DATE
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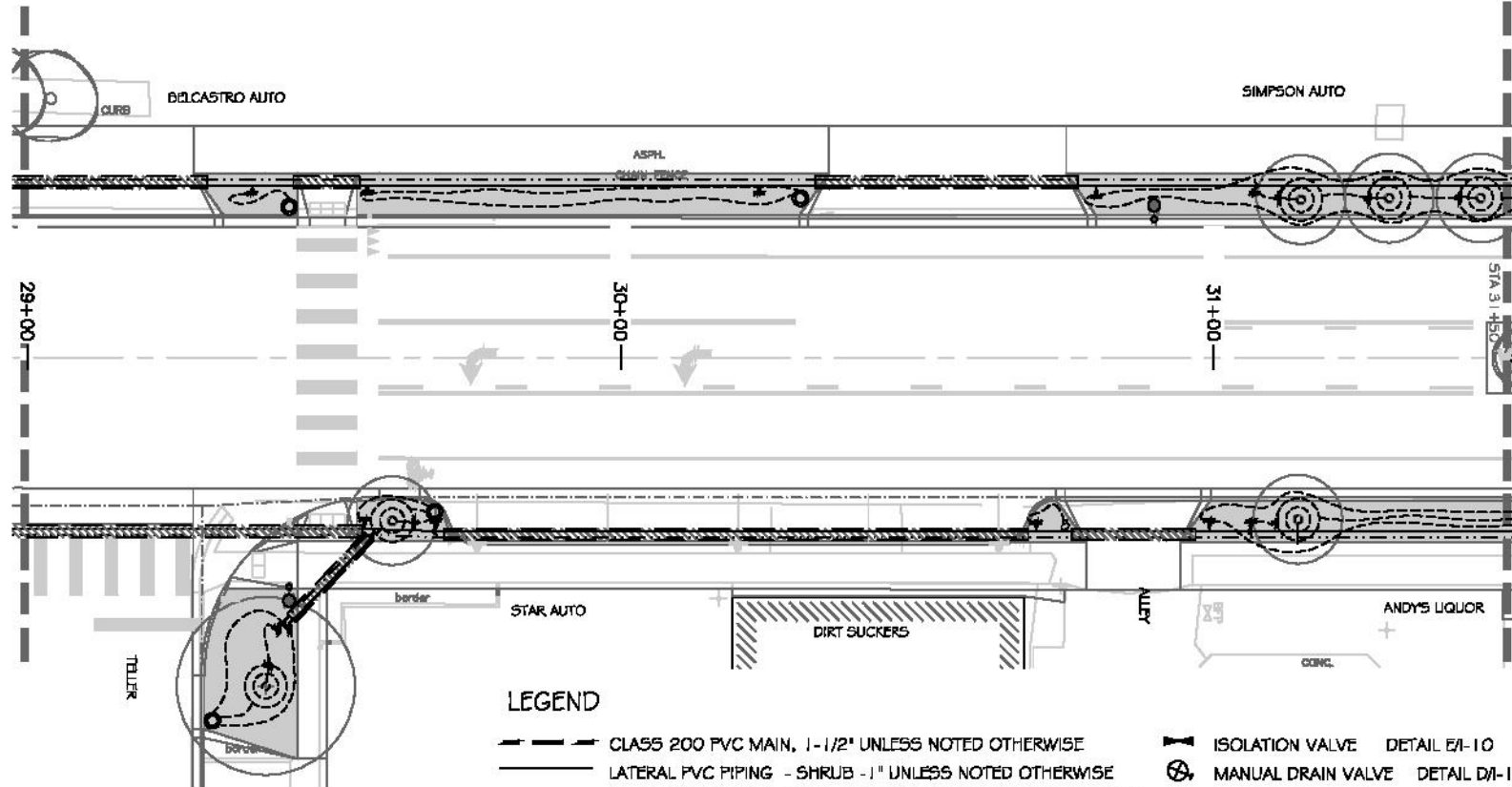
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ENGINEERING DIVISION**

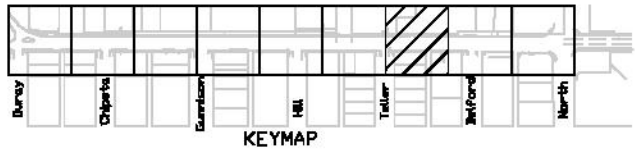
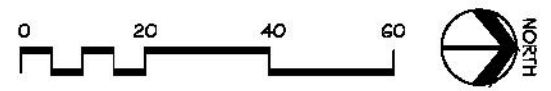
**1ST STREET RECONSTRUCTION
IRRIGATION PLAN I-6
STA 12+80 TO STA 18+50**

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LEGEND

- CLASS 200 PVC MAIN, 1-1/2" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - SHRUB - 1" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - TREE ZONE 1" UNLESS NOTED OTHERWISE
- TREE DRIPPER LINE ASSEMBLY DETAIL B/I-10
- 1/2" DRIP TUBE
- PIPE SIZING
- IRRIGATION SLEEVE, 6" UNLESS OTHERWISE NOTED
- DIRECTIONAL BORE WITH SLEEVE
- RAINBIRD DRIP ZONE VALVE, DETAIL C/I-10; SIZE PER VALVE SCHEDULE, SHEET I-11
- ISOLATION VALVE DETAIL E/I-10
- MANUAL DRAIN VALVE DETAIL D/I-10
- COMPRESSION FITTING
- DRIP ZONE FLUSH BOX (> 1.5 FT. LENGTH OF TUBING) DETAIL A/I-10
- FIGURE 8 HOSE END (< 1.5 FT. LENGTH OF TUBING)
- EXISTING IRRIGATION CONTROLLER

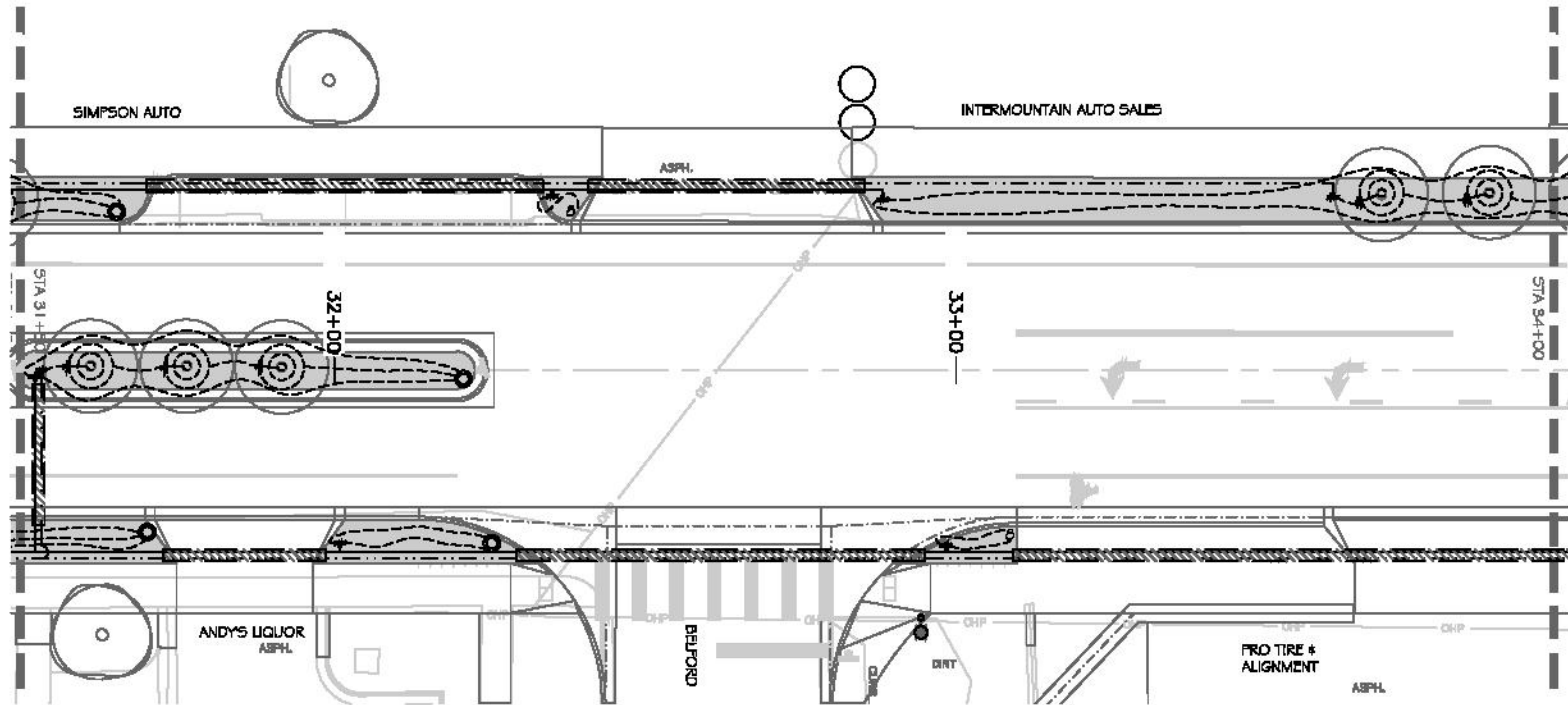


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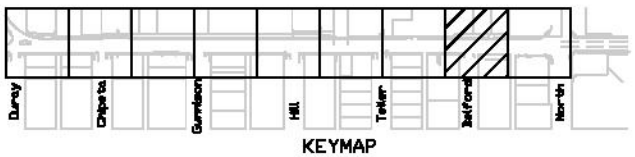
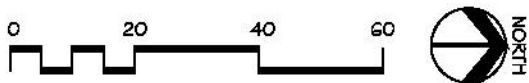
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ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
IRRIGATION PLAN I-7
STA 29+00 TO STA 31+50**



LEGEND

- CLASS 200 PVC MAIN, 1-1/2" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - SHRUB - 1" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - TREE ZONE 1" UNLESS NOTED OTHERWISE
- TREE DRINKER LINE ASSEMBLY DETAIL B/I-10
- 1/2" DRIP TUBE
- PIPE SIZING
- IRRIGATION SLEEVE, 6" UNLESS OTHERWISE NOTED
- DIRECTIONAL BORE WITH SLEEVE
- RAINBIRD DRIFT ZONE VALVE, DETAIL C/I-10; SIZE PER VALVE SCHEDULE, SHEET I-11
- ISOLATION VALVE DETAIL E/I-10
- MANUAL DRAIN VALVE DETAIL D/I-10
- COMPRESSION "T" FITTING
- DRIFT ZONE FLUSH BOX (> 15 FT. LENGTH OF TUBING) DETAIL A/I-10
- FIGURE 8 HOSE END (<= 15 FT. LENGTH OF TUBING)
- EXISTING IRRIGATION CONTROLLER



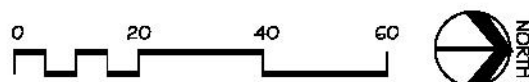
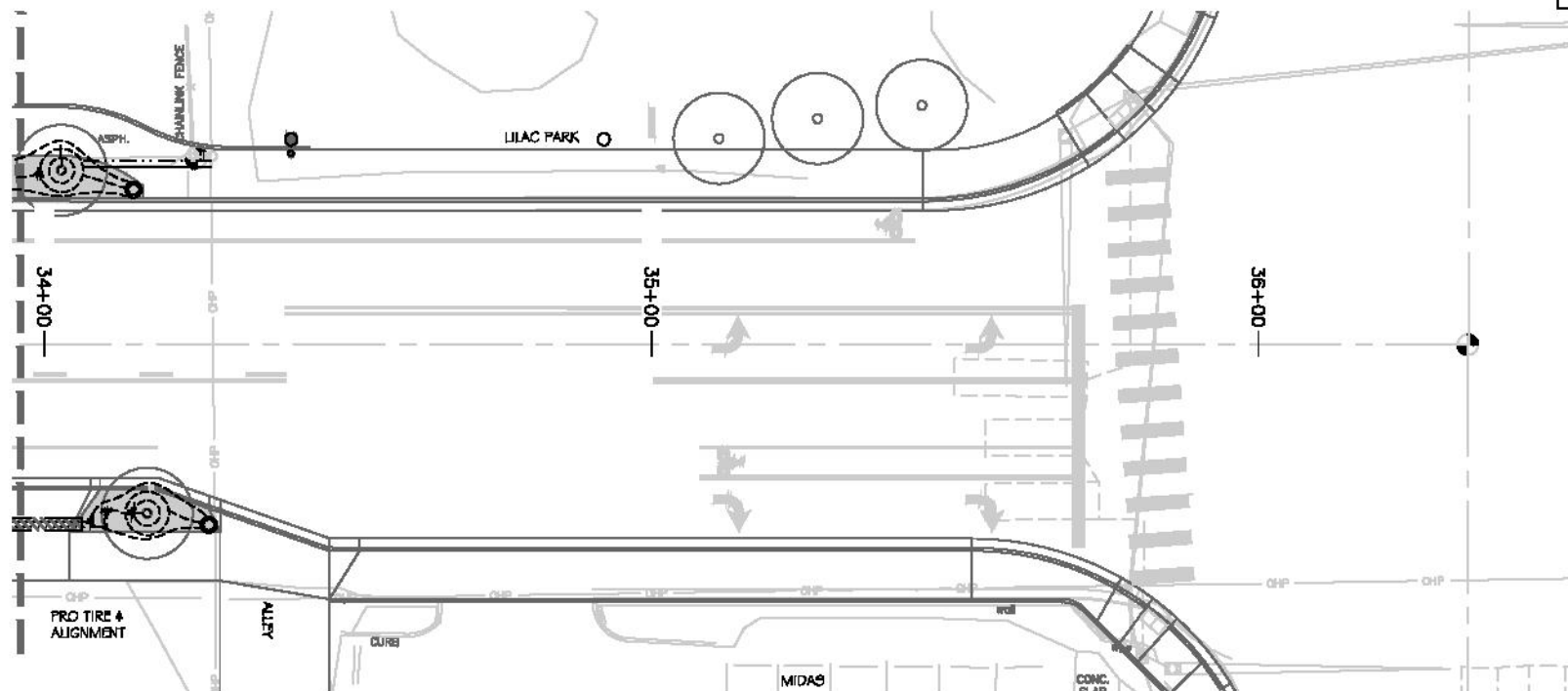
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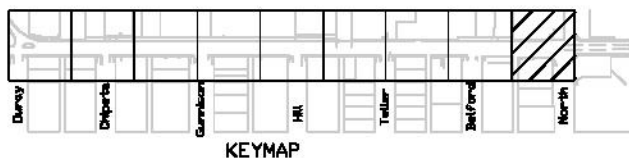
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AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
IRRIGATION PLAN I-5
STA 31+00 TO STA 34+00



LEGEND

- CLASS 200 PVC MAIN, 1-1/2" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - SHRUB - 1" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING - TREE ZONE 1" UNLESS NOTED OTHERWISE
- TREE DRIFTER LINE ASSEMBLY DETAIL BI-10
- 1/2" DRIP TUBE
- PIPE SIZING
- IRRIGATION SLEEVE, 6" UNLESS OTHERWISE NOTED
- DIRECTIONAL BORE WITH SLEEVE
- RAINBIRD DRIP ZONE VALVE, DETAIL CI-10; SIZE PER VALVE SCHEDULE, SHEET I-11
- ISOLATION VALVE DETAIL EI-10
- MANUAL DRAIN VALVE DETAIL DI-10
- COMPRESSION "T" FITTING
- DRIP ZONE FLUSH BOX (> 15 FT. LENGTH OF TUBING) DETAIL AI-10
- FIGURE 8 HOSE END (<= 15 FT. LENGTH OF TUBING)
- EXISTING IRRIGATION CONTROLLER



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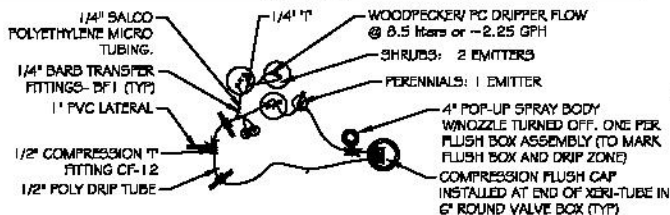
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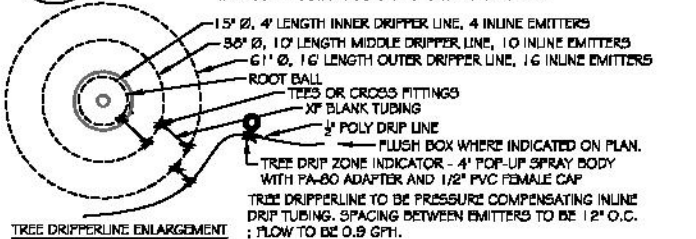
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ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
IRRIGATION PLAN I-9
STA 34+00 TO STA 36+50**

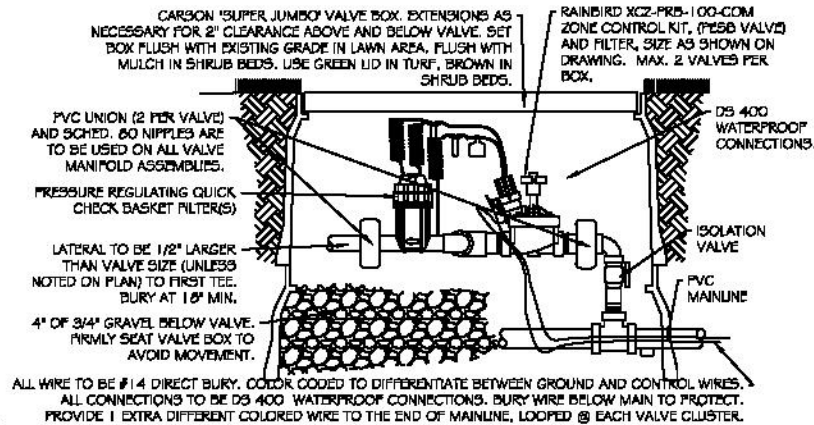
TUBING PLACEMENT AND LIMITS	EMITTER PLACEMENT	FLUSH BOX PLACEMENT
1/2" DISTRIBUTION TUBE-MAX. 200 GPH PER LENGTH. MAX. 200' LENGTH. TUBING MAY BRANCH BUT SHALL NOT LOOP. EACH BRANCH TO END WITH FLUSH CAP IN 6" ROUND VALVE BOX. 1/4" DISTRIBUTION TUBE-MAX. 15 GPH PER LENGTH. MAX. 10' LENGTH. CONNECTION WITH 1/2" TUBE TO BE 1/4" COUPLER, NOT PC DRIPPER (WITHIN GPH LIMIT). ALL TUBING TO BE PLACED BELOW WEED CONTROL FABRIC (WHERE FABRIC OCCURS). TUBING TO BE STAKED AT EMITTER AT MAX 5' INTERVALS WITH MAX. 8" STAPLES. 1/4" TUBING TO BE SALCO POLYETHYLENE MICRO TUBING.	PERENNIALS: ONE PC DRIPPER PER PLANT, LOCATED AND STAKED AT CENTER OF ROOT BALL. SHRUBS: TWO PC DRIPPERS PER PLANT, LOCATED AND STAKED AT CENTER OF ROOT BALL, MIN. 4" APART FROM EACH OTHER. TREES: 3 DRIPPER LINE RINGS; 7-1/2", 15" & 30" FROM CENTER OF ROOTBALL. TUBE IS TECHLINE CV, 1/2" DRIPPER SPACING, 0.9 GPH INLINE EMITTERS.	MINIMIZE NUMBER OF FLUSH BOXES. LOCATE ADJACENT TO WALKS OR DRIVES FOR MAINTENANCE ACCESS. INSTALL XERIPOT MICROSPRAY NOZZLE ADJACENT TO FLUSH BOX. DIRECT SPRAY TOWARD PLANTINGS. EMITTERS ARE NOT NECESSARY FOR THOSE PLANTS COVERED BY MICROSPRAY.



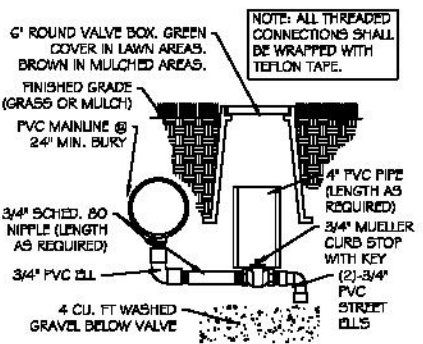
A NETAFIM PC DRIPPER EMITTER LAYOUT - SHRUB ZONES
1-10 NOT TO SCALE



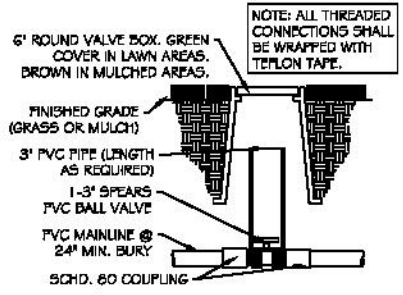
B NETAFIM PC DRIPPER EMITTER LAYOUT - TREE ZONES
1-10 NOT TO SCALE



C RAINBIRD XCZ DRIP ZONE CONTROL VALVE ASSEMBLY
1-10 NOT TO SCALE



D MANUAL DRAIN VALVE (TYP)
1-10 NOT TO SCALE



E ISOLATION VALVE (TYP 1-3" LINE)
1-10 NOT TO SCALE

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REVISION A 204	2011	MM	MM	TC

CITY OF **Grand Junction** COLORADO

PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

1ST STREET RECONSTRUCTION IRRIGATION PLAN I-10 CONSTRUCTION DETAILS

IRRIGATION VALVE SCHEDULE

VALVE #	SIZE	TYPE	EMITTERS	GPM	PRECIP RATE
#1	1"	DRIP - WEST SIDE SHRUB	503	18.85	2.25 gal/emitter/hr
#2	1"	DRIP - WEST SIDE TREES (19 TREES)	570	8.55	0.9 gal/emitter/hr
#3	1"	DRIP - EAST SIDE SHRUB	478	17.19	2.25 gal/emitter/hr
#4	1"	DRIP - EAST SIDE TREES (20 TREES)	600	9.0	0.9 gal/emitter/hr

WATER BUDGET SETTINGS	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT
	90%	100%	130%	160%	120%	90%	70%

NOTES:

- THIS CHART PROVIDES WATERING SCHEDULE RECOMMENDATIONS FOR ESTABLISHED PLANTS AND TURF.
- CONTRACTOR IS OBLIGATED TO MONITOR SOIL MOISTURE TO AVOID SATURATION OR DROUGHT AND ADJUST SCHEDULE ACCORDINGLY DURING ESTABLISHMENT PERIOD.
- TURF ZONES ARE CALCULATED TO 80% EFFICIENCY, DRIP ZONES TO 95% EFFICIENCY.
- OPTIMUM PRESSURE FOR ZONES: 45 PSI

IRRIGATION NOTES:

- ALL WORK SHALL BE PER EXISTING COUNTY OR STATE CODE AND IS SUBJECT TO INSPECTION AND APPROVAL BY APPROPRIATE INSPECTORS AND THE OWNER'S REPRESENTATIVE.
- CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- ALL LATERAL AND MAIN LINES IN SYSTEM WILL BE CONTAINED IN SLEEVES WHEREVER CONCRETE IS TO BE OVERLAID.
- CONTRACTOR TO CONNECT ZONE VALVE WIRING TO EXISTING CLOCK AT NORTH END OF TRIANGLE PARK, WHERE SHOWN ON DRAWINGS.
- ALL MAINS SHALL BE BURIED AT A MINIMUM DEPTH OF 24 IN. ALL LATERALS AT A DEPTH OF 18 IN. ALL VALVE WIRING SHALL BE BUNDLED BY TAPING AT 25 FT. INTERVALS AND PLACED BELOW IRRIGATION PIPING FOR PROTECTION.
- CONTRACTOR TO INSTALL MANUAL DRAIN VALVES AT LOW POINT ON ALL MAIN LINES.
- SEE SHEET I-10 FOR DETAILS AND SHEET I-11 FOR SHEET NOTES AND VALVE SCHEDULE.
- SYSTEM IS DESIGNED TO OPERATE AT 45 PSI, PROVIDING MINIMUM 15 PSI AT EMITTERS.
- WHERE IRRIGATION IS TO BE LOCATED ADJACENT TO SIDEWALKS, LATERALS SHALL BE LOCATED 12 INCHES FROM BACK OF WALK.
- DRIP EMITTERS TO BE NETAFIM PC DRIPPER, 8 LH (2.25 GPH)
- PIPE FROM CONTROL VALVE TO FIRST "TEE" TO USE 1/2" LARGER THAN VALVE UNLESS NOTED OTHERWISE
- PIPE SIZE NOTATION INDICATES MINIMUM PIPE SIZE DOWNSTREAM FROM THAT POINT.

IRRIGATION SUMMARY OF APPROXIMATE QUANTITIES

BID ITEM	UNIT	QUANTITY
4 inch Conduit Sleeves, incl. trenching, backfill & compaction	LF	91
6 inch Conduit Sleeves, incl. trenching, backfill & compaction	LF	2,447
Zone Valve Wiring	LF	1,544
Tap into Existing Irrigation System	EACH	1
Drip Emitter, incl 1/4" tubing, fittings, stakes	EACH	881
1/2 Inch Drip Tubing	LF	5,687
Tree Ring Assembly	EACH	39
Riser Assembly to Compression T (not including into tree rings)	EACH	71
Flush Box Assembly	EACH	31
Figure 8 cap	EACH	18
Manual Drain Valve	EACH	1
1 Inch PPSB Drip Zone Valve Assembly	EACH	4
Quick Coupler Valve	EACH	1
Isolation Valve	EACH	2
1 inch Class 160 PVC Lateral Piping, including trenching and filling	LF	6,491
1-1/2 inch Class 160 PVC Lateral Piping, including trenching and filling	LF	1,159
1-1/2 inch Class 200 PVC Mainline, including trenching and filling	LF	386

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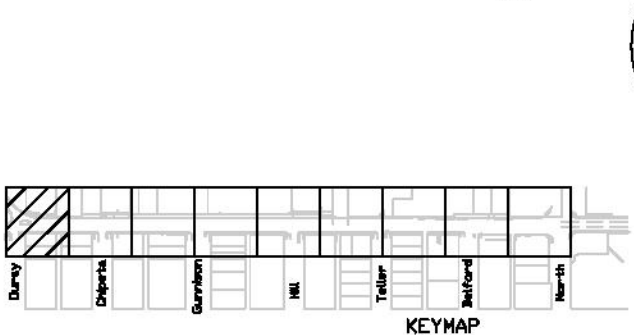
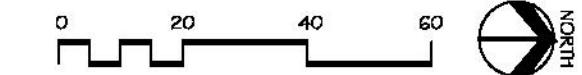
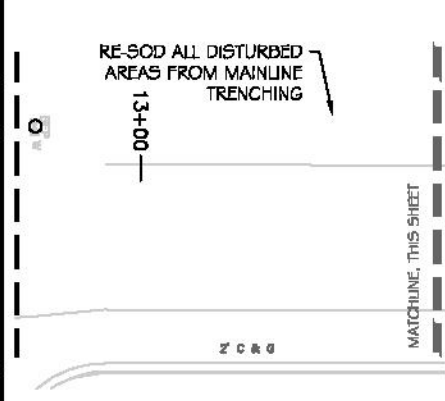
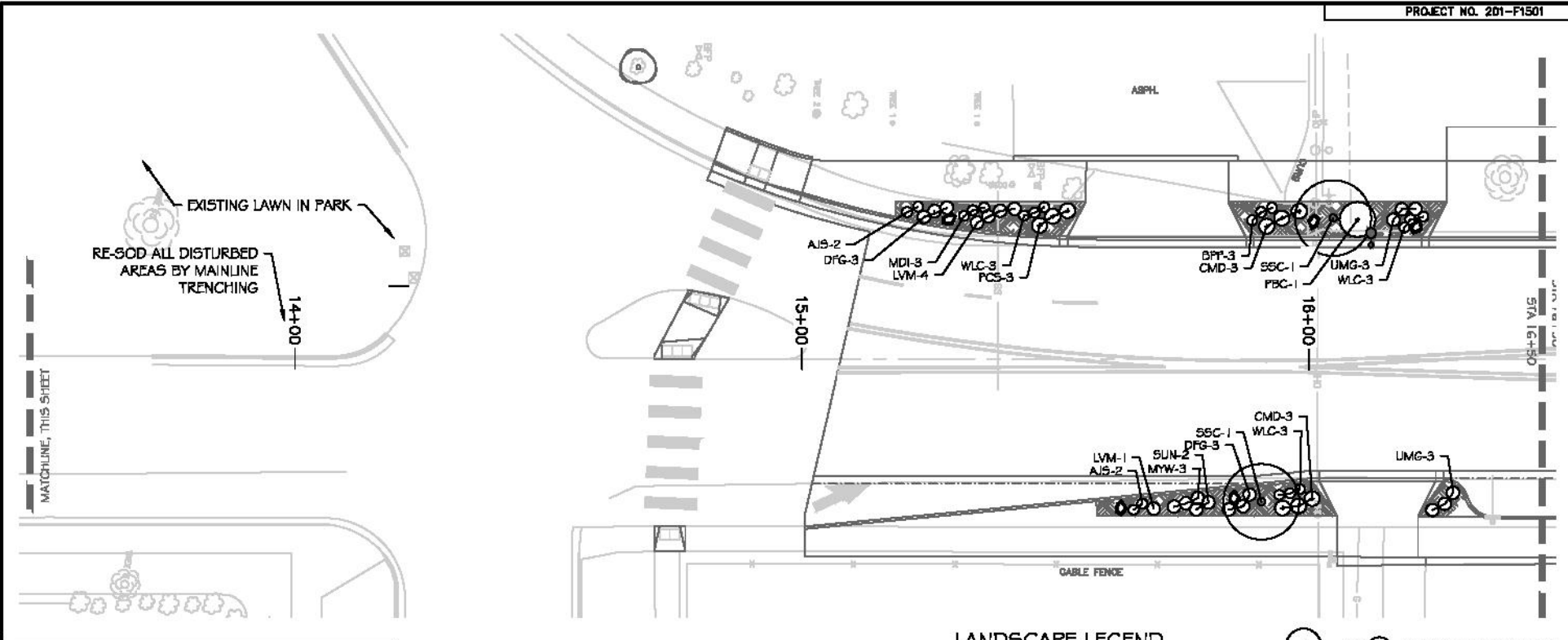
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SCALE	PLAN & PROFILE

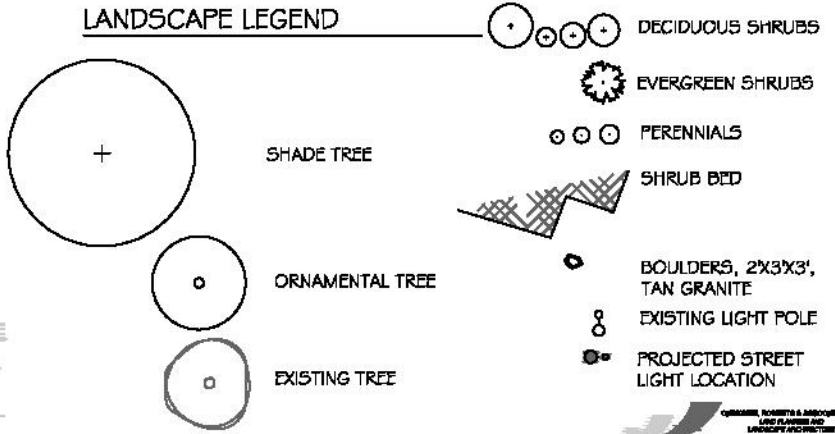


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**1ST STREET RECONSTRUCTION
IRRIGATION PLAN I-11
IRRIGATION NOTES**



LANDSCAPE LEGEND



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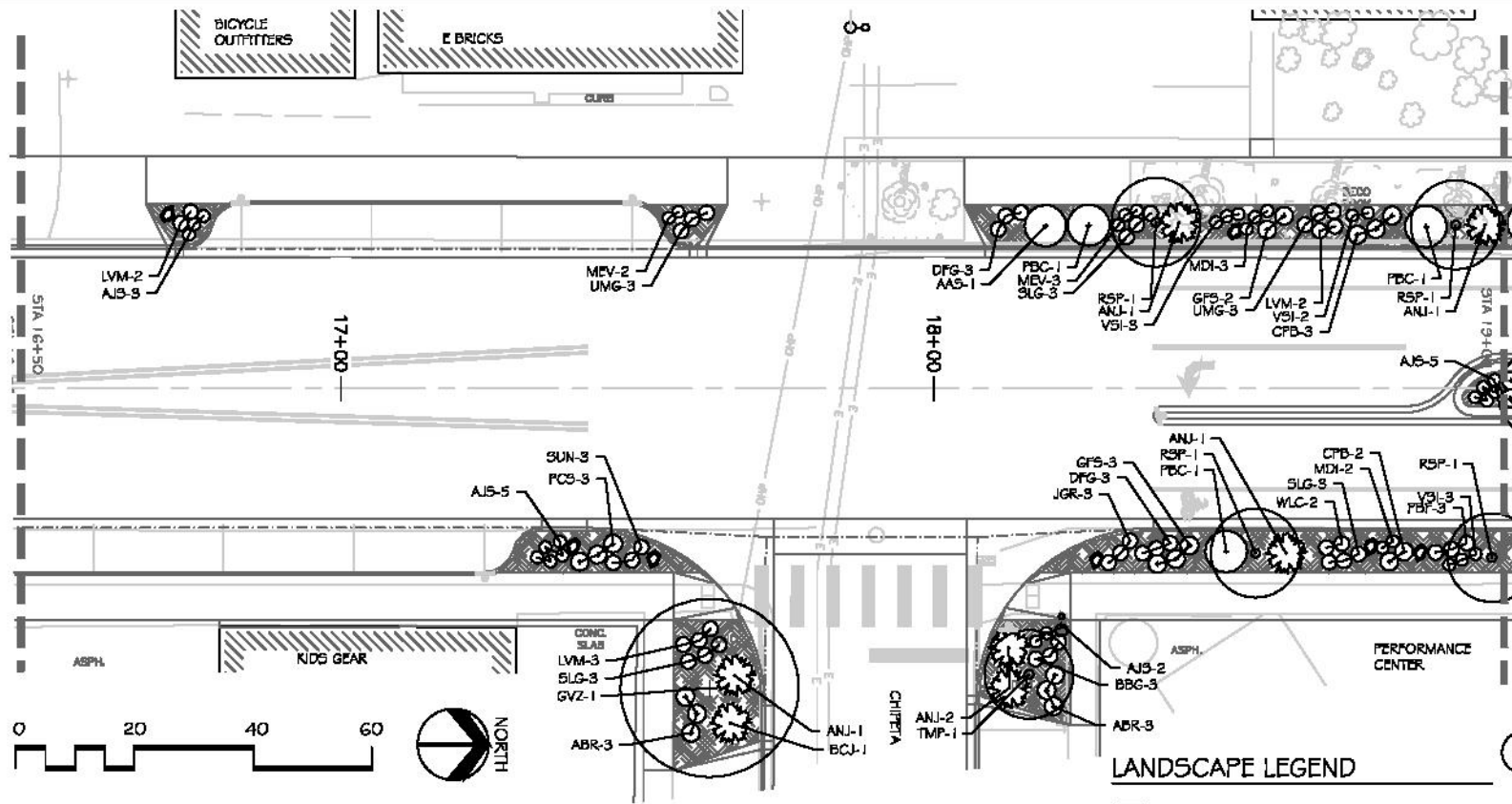
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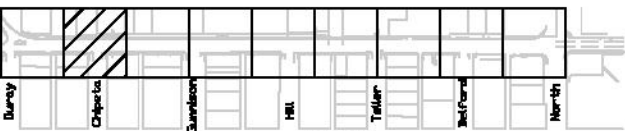
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1ST STREET RECONSTRUCTION LANDSCAPE PLAN L-1 STA 12+80 TO STA 16+50



LANDSCAPE LEGEND

- DECIDUOUS SHRUBS
- EVERGREEN SHRUBS
- PERENNIALS
- SHRUB BED
- SHADE TREE
- ORNAMENTAL TREE
- EXISTING TREE
- BOULDERS, 2'X3'X3', TAN GRANITE
- EXISTING LIGHT POLE
- PROJECTED STREET LIGHT LOCATION



KEYMAP

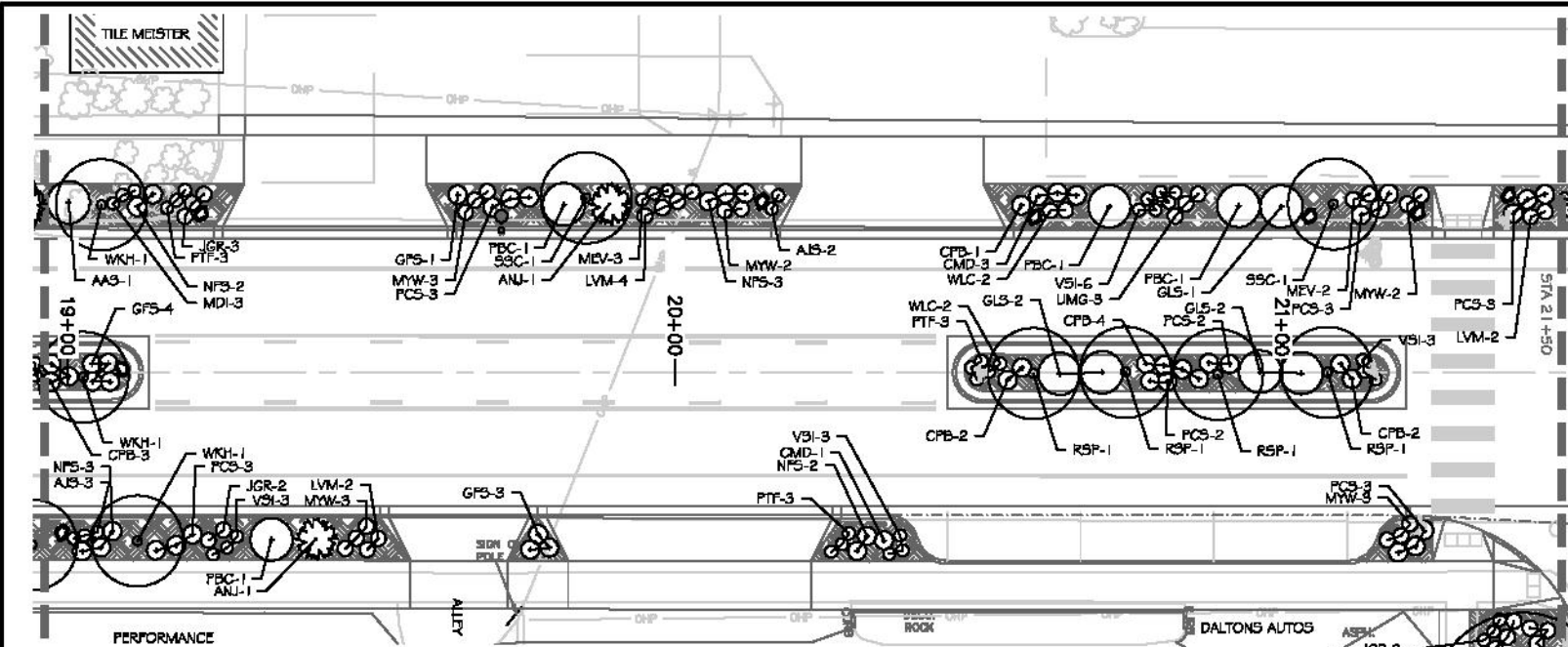
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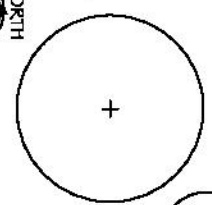
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**1ST STREET RECONSTRUCTION
LANDSCAPE PLAN L-2
STA 16+50 TO STA 19+00**

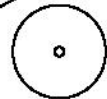
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LANDSCAPE LEGEND



SHADE TREE

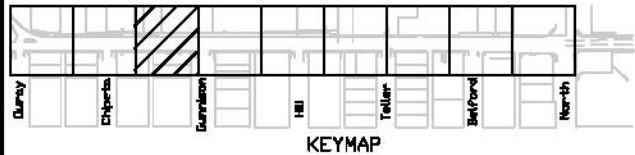
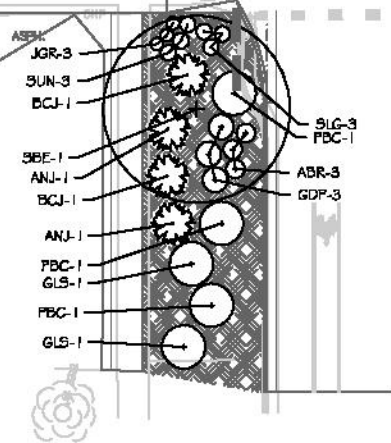


ORNAMENTAL TREE



EXISTING TREE

- DECIDUOUS SHRUBS
- EVERGREEN SHRUBS
- PERENNIALS
- SHRUB BED
- BOULDERS, 2'X3'X3', TAN GRANITE
- EXISTING LIGHT POLE
- PROJECTED STREET LIGHT LOCATION



KEYMAP

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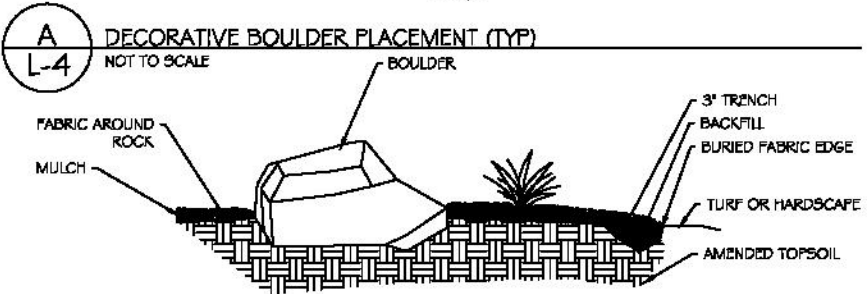
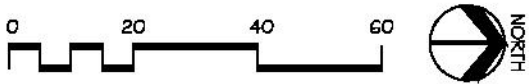
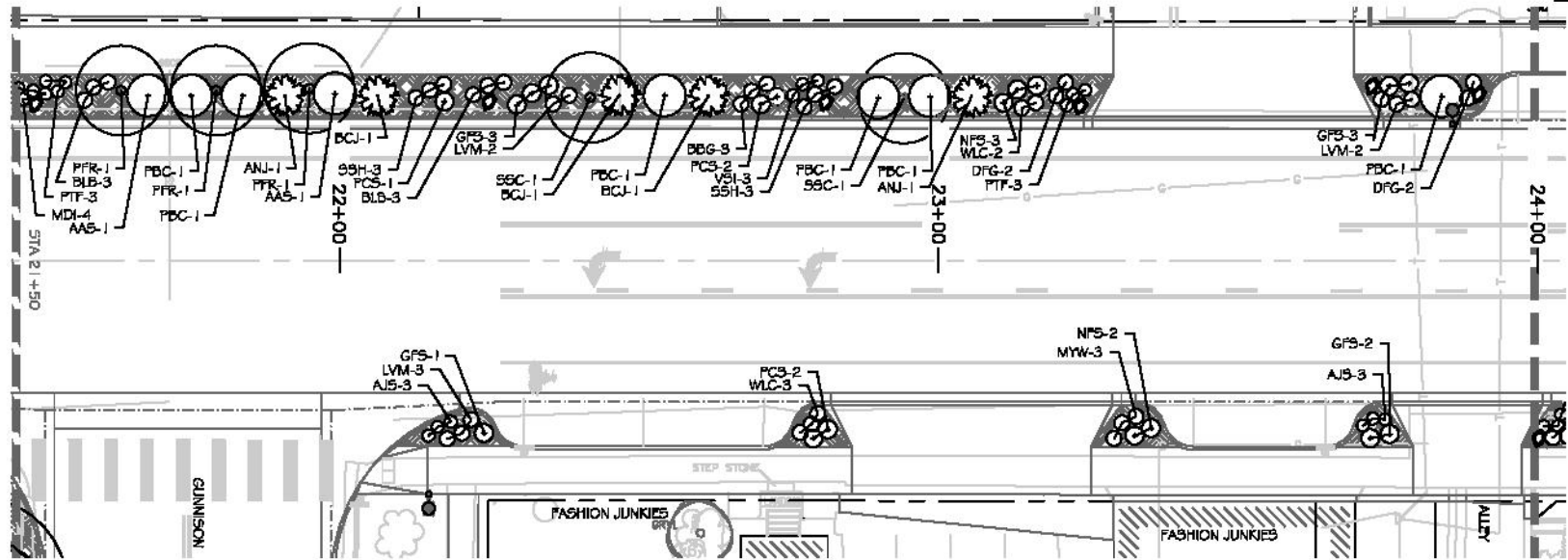
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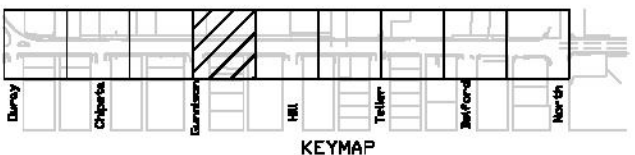
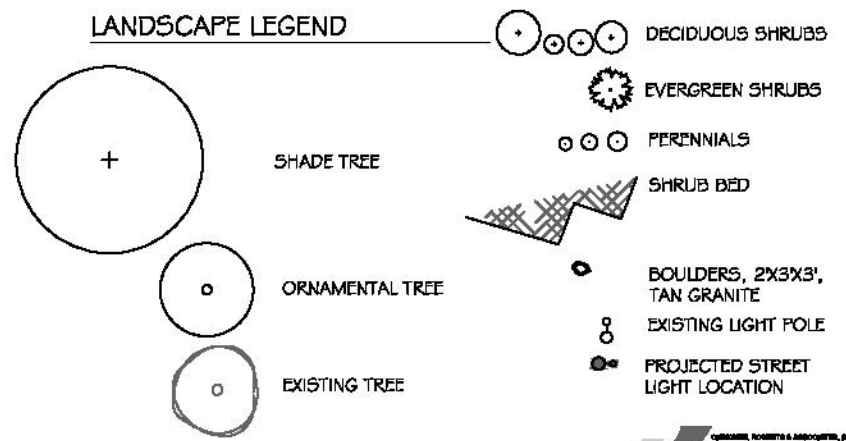
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**1ST STREET RECONSTRUCTION
LANDSCAPE PLAN L-3
STA 19+00 TO STA 21+50**

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LANDSCAPE LEGEND



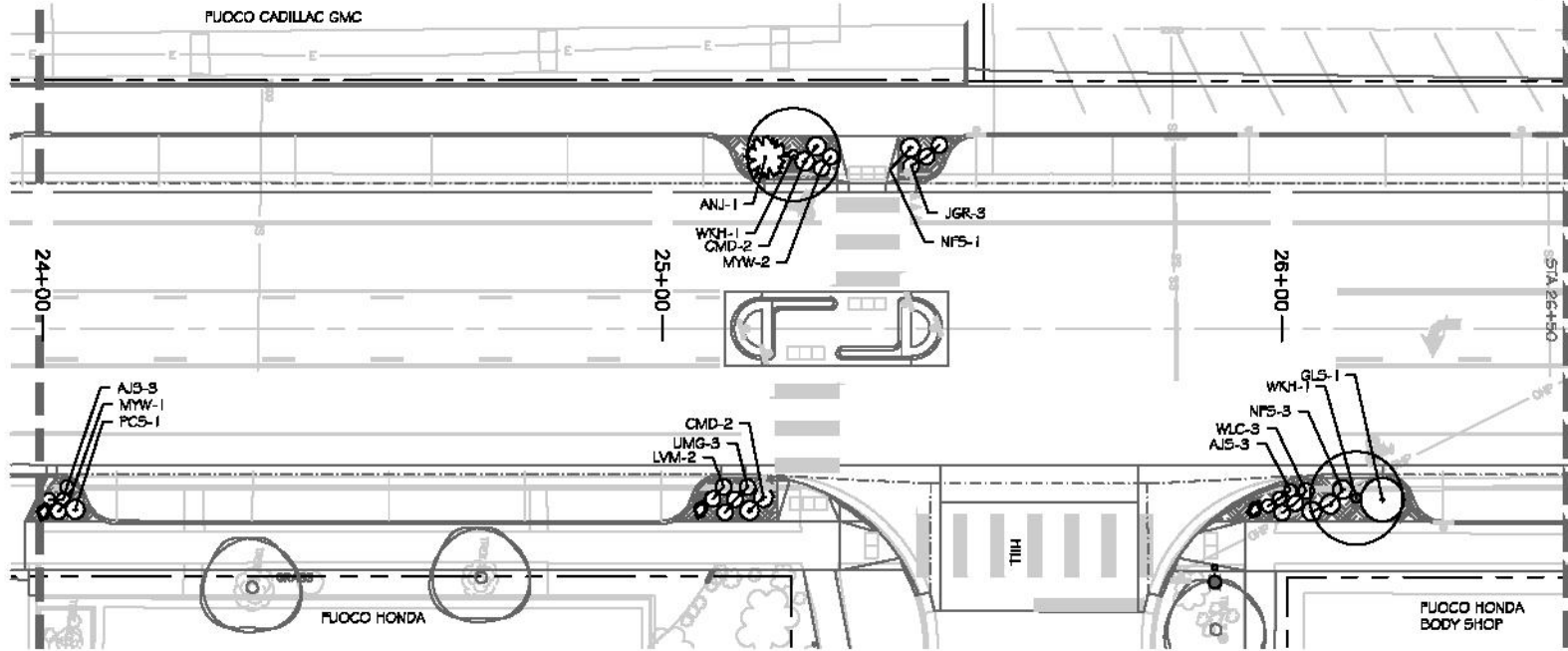
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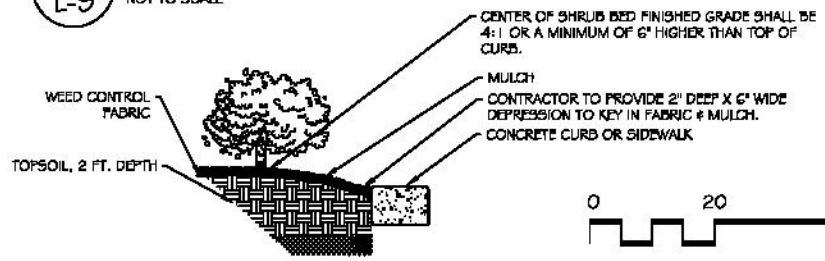
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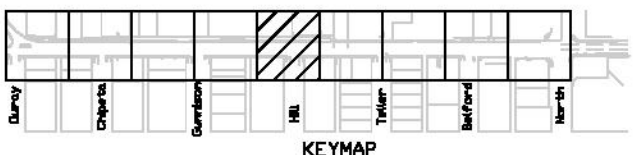
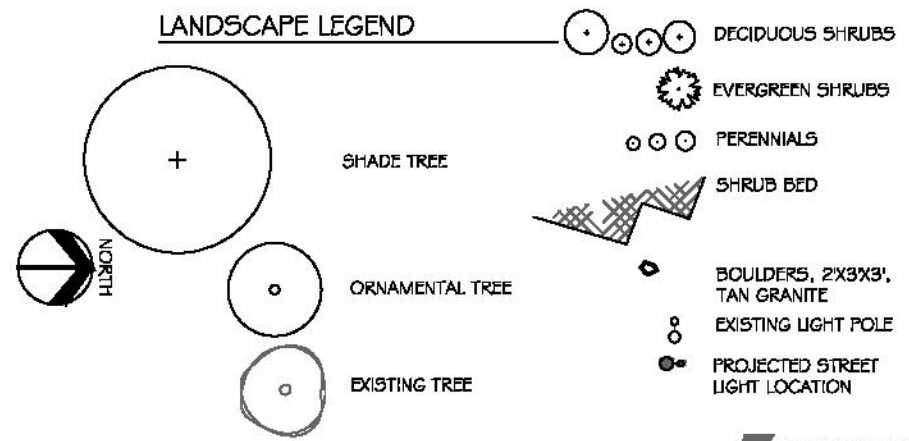
**1ST STREET RECONSTRUCTION
LANDSCAPE PLAN L-4
STA 21+50 TO STA 24+00**



A SHRUB BED DETAIL
L-9
NOT TO SCALE



LANDSCAPE LEGEND



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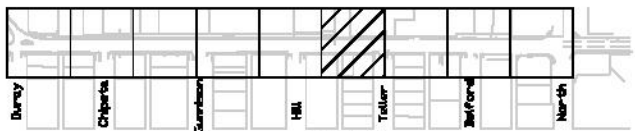
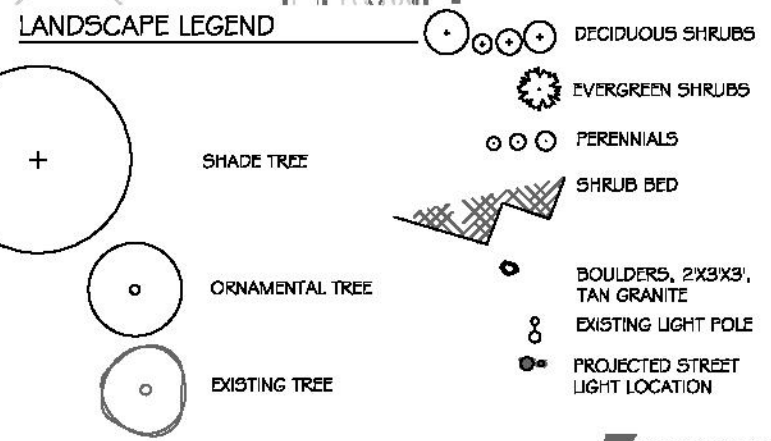
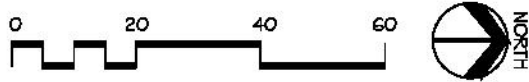
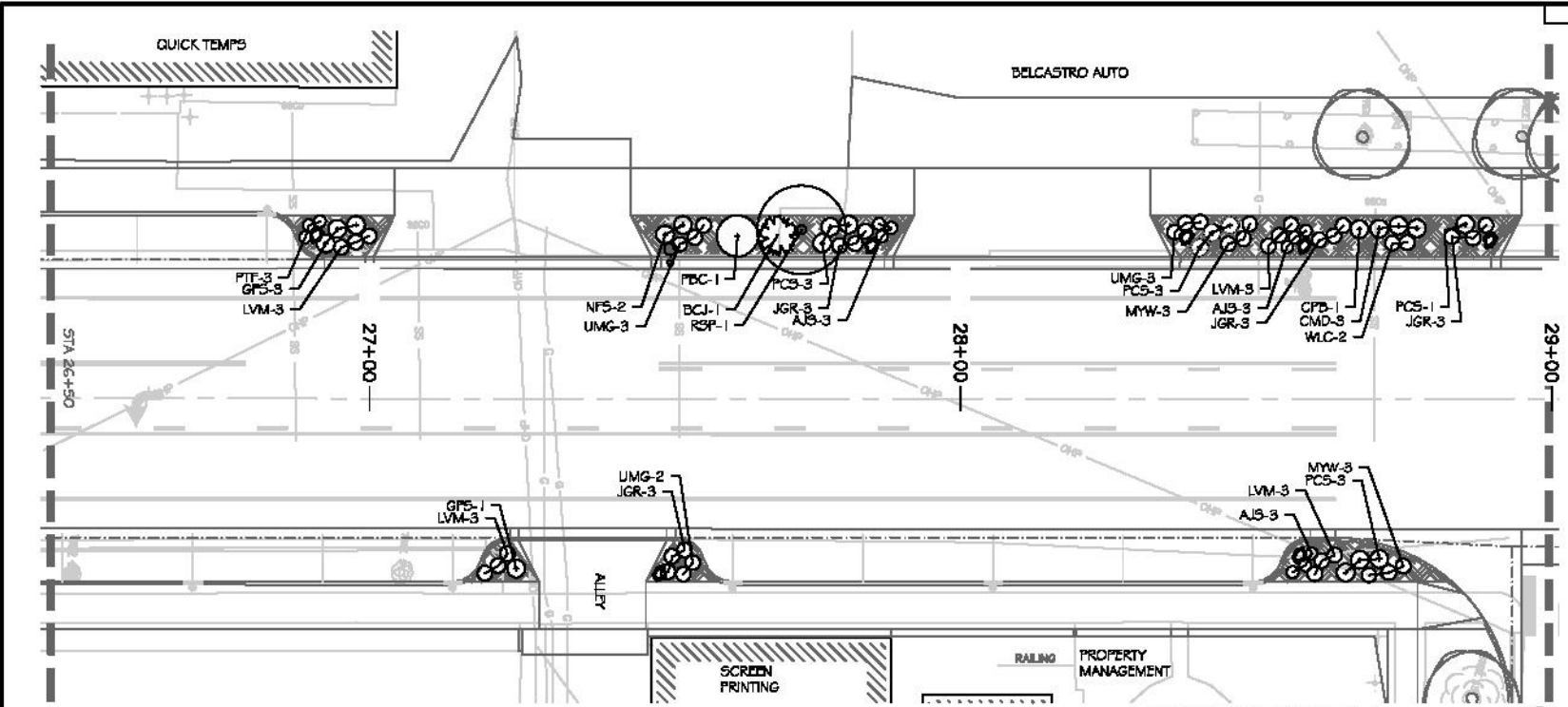
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REVISION B	2011	MM	MM	MM
REVISION C	2011	MM	MM	MM
REVISION D	2011	MM	MM	MM

DRAWN BY: MM DATE: 2011
 DESIGNED BY: MM DATE: 2011
 CHECKED BY: CM DATE: 2011
 APPROVED BY: TC DATE: 2011



**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
LANDSCAPE PLAN L-5
STA 24+00 TO STA 26+50**



REVISION	DATE	BY	CHKD
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REVISION B 201	2011	MM	DMC 2011
REVISION C 201	2011	MM	DMC 2011
REVISION D 201	2011	MM	DMC 2011

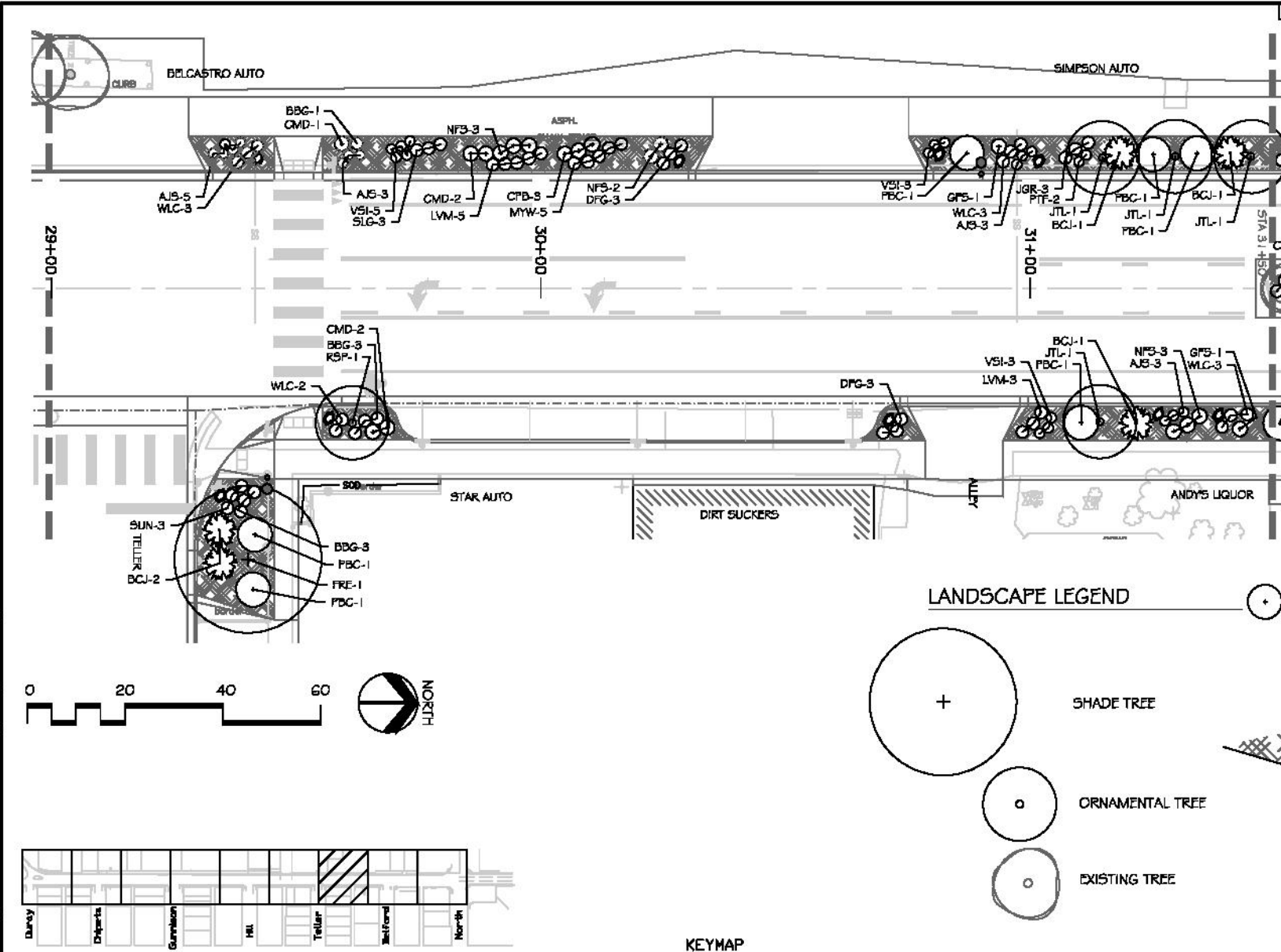
DATE	BY	CHKD
2011	MM	DMC 2011
2011	MM	DMC 2011
2011	MM	DMC 2011



**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
LANDSCAPE PLAN L-6
STA 26+50 TO STA 29+00**

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LANDSCAPE LEGEND

- DECIDUOUS SHRUBS
- EVERGREEN SHRUBS
- PERENNIALS
- SHRUB BED
- SHADE TREE
- ORNAMENTAL TREE
- EXISTING TREE
- BOULDERS, 2'X3'X3', TAN GRANITE
- EXISTING LIGHT POLE
- PROJECTED STREET LIGHT LOCATION



KEYMAP

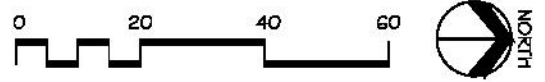
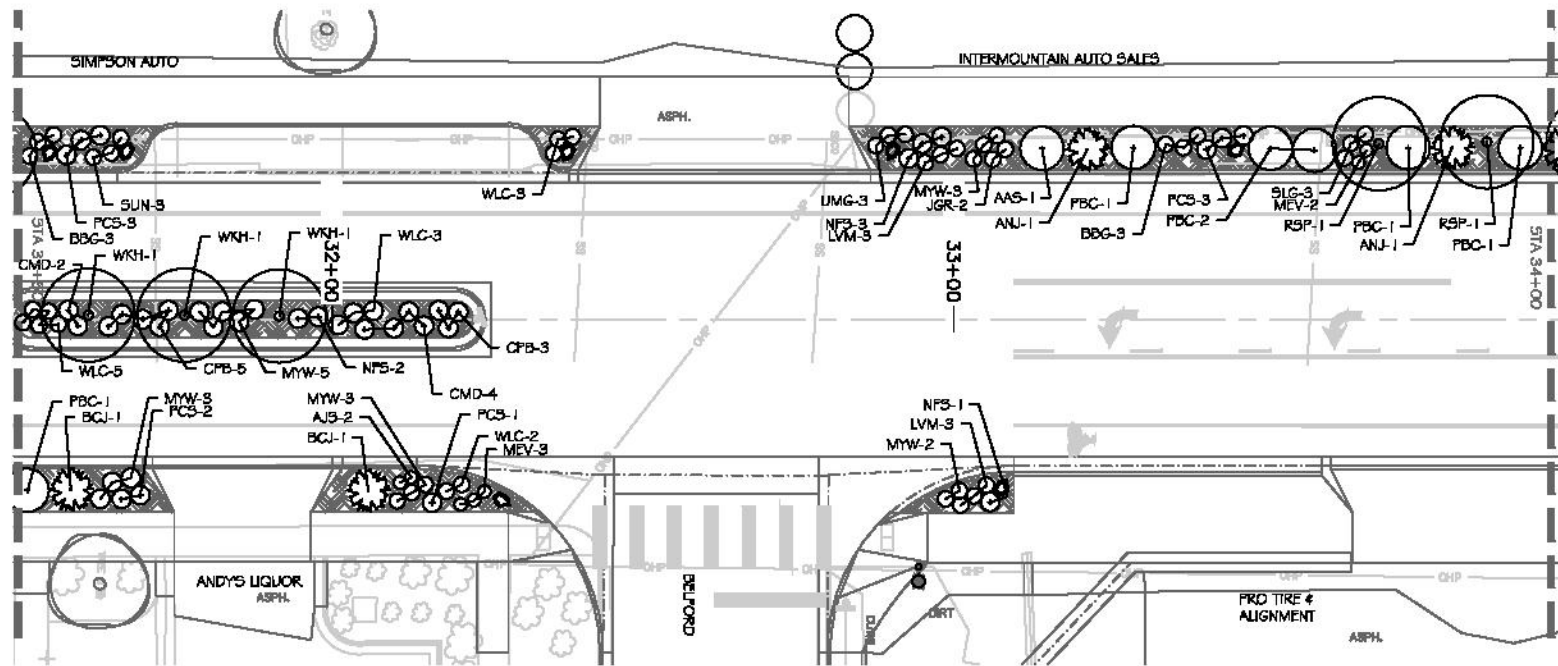
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CITY OF
Grand Junction
COLORADO

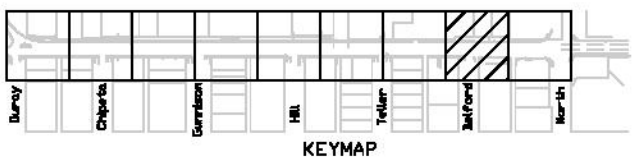
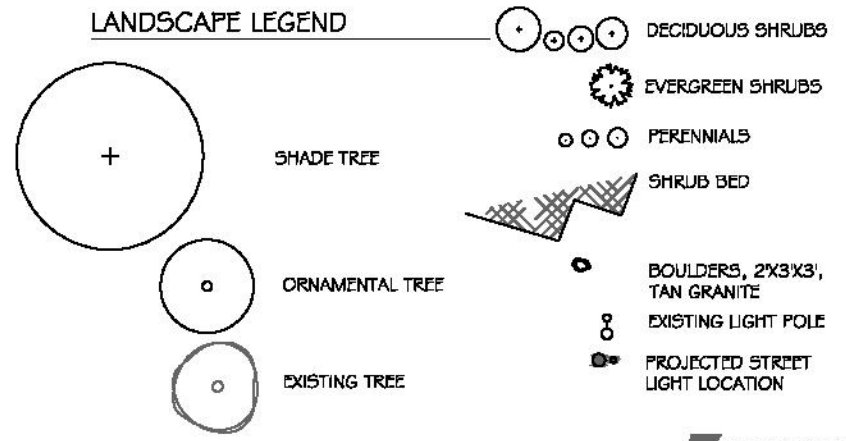
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
LANDSCAPE PLAN L-7
STA 29+00 TO STA 31+50**

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LANDSCAPE LEGEND



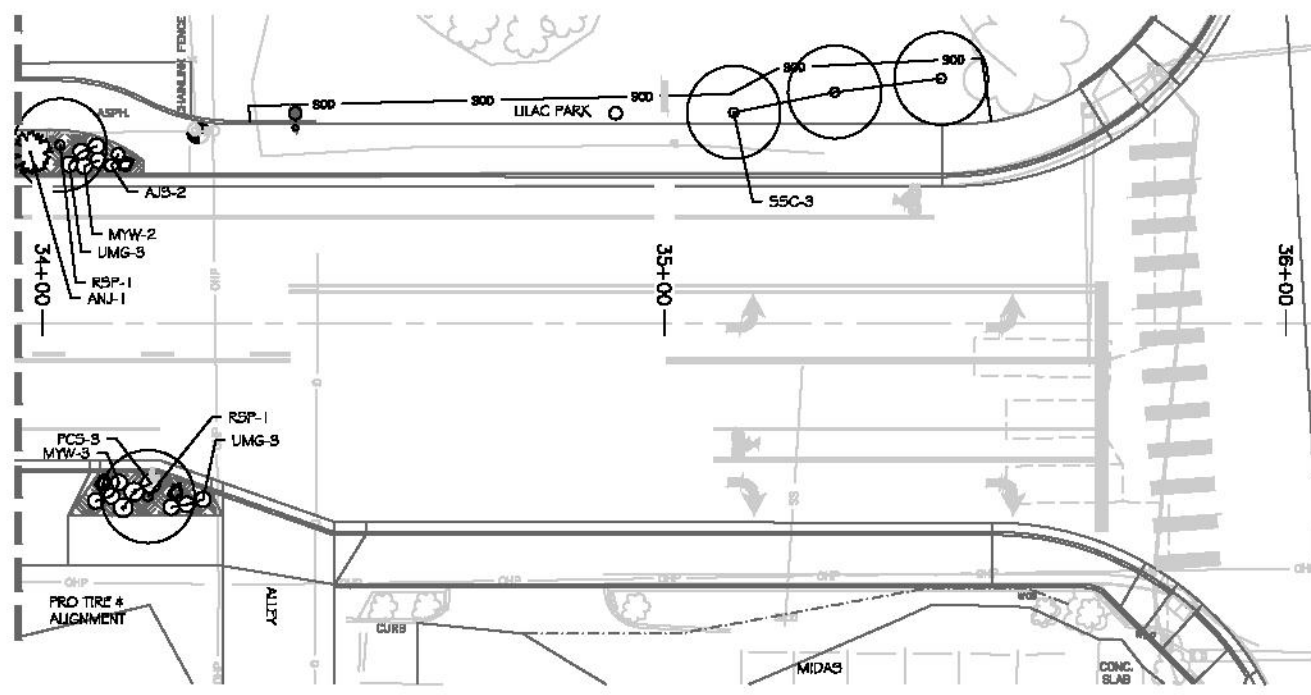
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REVISION C	2011	MH	01/11/2011	CM	01/11/2011	TC	01/11/2011
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CITY OF
Grand Junction
COLORADO

**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

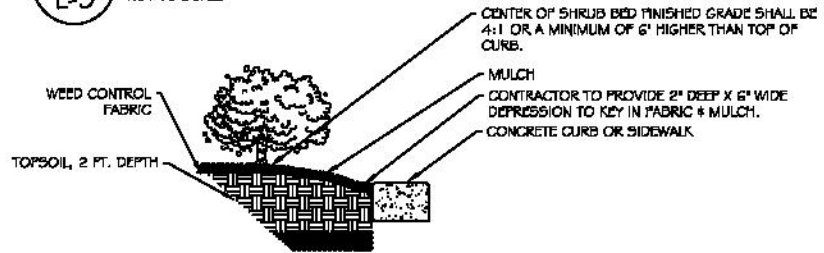
**1ST STREET RECONSTRUCTION
LANDSCAPE PLAN L-8
STA 31+50 TO STA 34+00**



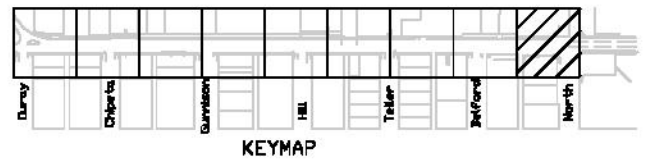
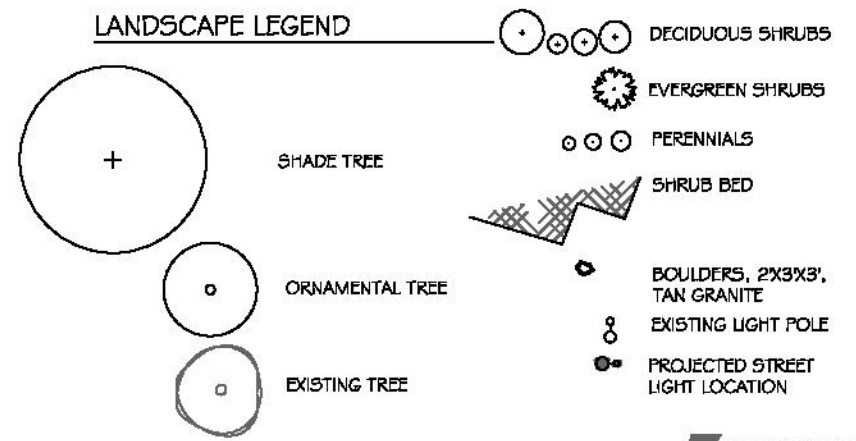
LANDSCAPE SUMMARY OF APPROXIMATE QUANTITIES

BID ITEM	UNIT	QUANTITY
Topsoil, 12" depth, placed	CY	498
Soil Preparation for All Landscape Areas	SF	13,423
2" Canopy Trees	EACH	3
1-1/2" Ornamental Trees	EACH	39
5 gallon Deciduous Shrubs	EACH	228
5 Gallon Evergreen Shrubs	EACH	30
Perennials	EACH	465
Rock Mulch and Weed Fabric	SF	13,423
Boulders	EACH	55

A
L-9 SHRUB BED DETAIL
NOT TO SCALE



LANDSCAPE LEGEND



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REVISION C	2011	CM	01/11	1/8" = 1'-0"
REVISION D	2011	TC	01/11	1/8" = 1'-0"



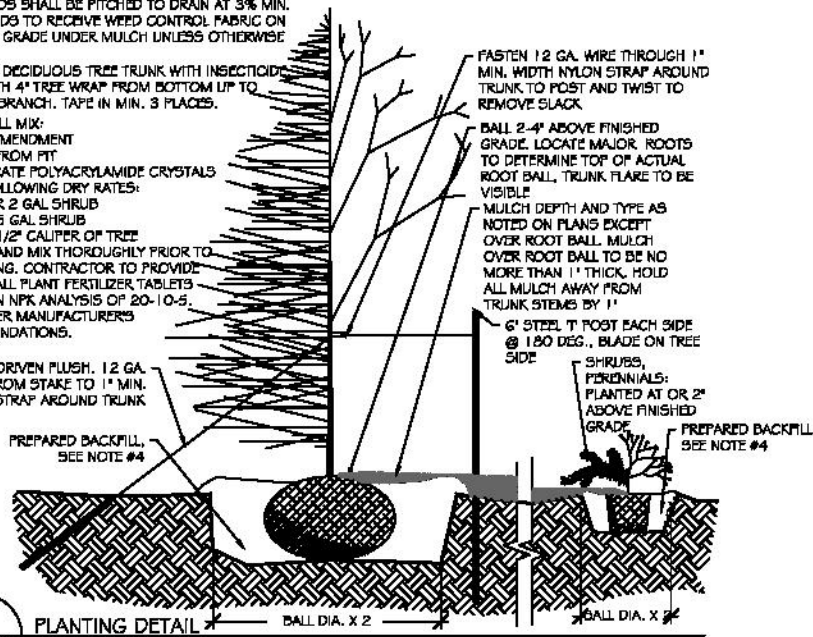
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**1ST STREET RECONSTRUCTION
LANDSCAPE PLAN L-9
STA 34+00 TO STA 36+50**

NOTES:

- EVERGREEN (OPPOSITE SIDE SAME) DECIDUOUS (OPPOSITE SIDE SAME)
1. ALL BEDS SHALL BE PITCHED TO DRAIN AT 3% MIN.
 2. ALL BEDS TO RECEIVE WEED CONTROL FABRIC ON FINISHED GRADE UNDER MULCH UNLESS OTHERWISE NOTED.
 3. SPRAY DECIDUOUS TREE TRUNK WITH INSECTICIDE WRAP WITH 4" TREE WRAP FROM BOTTOM UP TO SECOND BRANCH. TAPE IN MIN. 3 PLACES.
 4. BACKFILL MIX:
1/3 SOIL AMENDMENT
2/3 SOIL FROM PIT
INCORPORATE POLYACRYLAMIDE CRYSTALS AT THE FOLLOWING DRY RATES:
1/2 OZ PER 2 GAL SHRUB
1 OZ PER 5 GAL SHRUB
1 OZ PER 1/2" CALIBER OF TREE
HYDRATE AND MIX THOROUGHLY PRIOR TO BACKFILLING. CONTRACTOR TO PROVIDE AND INSTALL PLANT FERTILIZER TABLETS HAVING AN NPK ANALYSIS OF 20-10-5. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

30" STAKE DRIVEN FLUSH. 12 GA. WIRE FROM STAKE TO 1" MIN. NYLON STRAP AROUND TRUNK



A
L-10

PLANTING DETAIL
NOT TO SCALE

PLANTING NOTES

1. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. ALL LANDSCAPING AND IRRIGATION TO CONFORM TO CURRENT ASSOCIATED LANDSCAPE CONTRACTORS OF COLORADO STANDARDS AND SPECIFICATIONS.
3. EQUAL PART MIXTURE OF ROUND-UP AND 2-4-D DILUTED AS PER MANUFACTURER'S RECOMMENDATIONS SHALL BE APPLIED TO ALL ACTIVELY GROWING WEEDS TWO WEEKS PRIOR TO ANY OPERATIONS.
4. ALL SHRUB BEDS TO RECEIVE SOIL AMENDMENT. SHRUB BEDS TO RECEIVE 3 INCH DEPTH OF MULCH.
5. EXCAVATE AREAS TO BE PLANTED (AS PER DRAWINGS) TO A SUFFICIENT DEPTH TO RECEIVE TOPSOIL, AND TO REMOVE UNSATISFACTORY MATERIAL (INCLUDING ROAD BASE, ASPHALT, CONCRETE AND TRASH) AND REMOVE FROM SITE. ALL LANDSCAPE AREAS TO RECEIVE 2 FEET MINIMUM OF SPECIFIED TOPSOIL. SCARIFY ALL AREAS TO RECEIVE TOP SOIL TO A DEPTH OF 6".
6. SOIL AMENDMENT IS TO CONSIST OF 50% GROUND WELL-AGED MANURE, 50% FINELY GROUND AND AGED WOOD CHIPS. AMENDMENT IS TO BE INCORPORATED INTO PLANTING PITS AT THE RATE SHOWN ON PLANTING DETAIL.
7. CONTRACTOR SHALL BACKFILL EXCAVATED SHRUB BEDS WITH SPECIFIED TOPSOIL.
8. SOIL IS TO BE COMPACTED TO 85% MODIFIED PROCTOR (WHEEL ROLL) TO MINIMIZE SETTLING. BEDS ARE TO BE FILLED TO A DEPTH OF 6" ABOVE ADJACENT EDGE OF CURB, SHAPED TO FORM MOUNDED PLANTING AREA. SHRUB BED TO BE FINISHED WITH A 4:1 SLOPE FROM 2" BELOW ADJACENT CONCRETE TO FINISH GRADE.
9. NO WEED FABRIC IS TO BE USED ON THIS PROJECT.
10. PERENNIALS, SHRUBS AND TREES ARE TO SPACED AS SCALED FROM THE PLANTING PLAN.
11. MULCH FOR SHRUB BEDS SHALL BE 1/2" TAN GRANITE. MULCH SHALL BE FREE OF TRASH, STICKS, ROOTS OR OTHER DEBRIS.
12. SEE CONSTRUCTION DETAILS ON SHEETS L-4, L-9 & L-10.
13. CONTRACTOR IS TO GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF WORK.

PLANT LIST

	Common Name	Scientific Name	Size	Mature Height
Deciduous Trees				
1	FRF Frontier Elm	Ulmus x Frontier	2-1/2"	25-35'
1	GVZ Green Vase Zelkova	Zelkova serrata 'Green Vase'	2-1/2"	40-60'
4	JTL Japanese Tree Lilac	Syringa reticulata 'Ivory Silk'	2"	15-18'
3	PFR Prainefire Crabapple	Malus Sp. 'Prainefire'	1-1/2"	15-20'
14	RSP Redspine Pear	Pyrus calleryana 'Redspine'	2"	30-35'
1	SEB Sensation Box Elder	Acer negundo 'Sensation'	2"	25-40'
9	SSC Spring Snow Crabapple	Malus 'Spring Snow'	2"	15-20'
1	TMP Tatanen Maple	Acer tatanen 'Hot Wings'	1-1/2"	12-17'
8	WKH Winter King Hawthorn	Crataegus viridis 'Winter King'	1-1/2"	15-20'

Deciduous Shrubs				
5	AAS Autumn Amber Sumac	Rhus typhina 'Autumn Amber'	5 gal	1-2'
9	ABR Appleblossom Carpet Rose	Rosa x Flower Carpet 'Noamel'	2 gal	2-3'
28	GMD Carol Mackie Dogwood	Daphne x burkewoodii 'Carol Mackie'	2 gal	2-3'
29	CPB Crimson Pymon Barberry	Berberis thunbergii 'Aronopurpurea Nana'	2 gal	1.5-3'
9	GDP Gold Drop Potentilla	Potentilla fruticosa 'Gold Drop'	2 gal	2-3'
28	GFS Gold Flame Spirea	Spirea bumalda 'Gold Flame'	2 gal	1.5-3'
6	GLS Gro-Low Sumac	Rhus aromatica 'Gro-Low'	5 gal	1.5-2.5'
35	NFS Neon Flash Spirea	Spirea japonica 'Neon Flash'	2 gal	2-3'
30	PBC Pawnee Buttes Sand Cherry	Prunus besseyi 'Pawnee Buttes'	5 gal	1-2'
53	PCS Potts Castle Sage	Artemisia Potts Castle	2 gal	2-3'

Evergreen Shrubs				
16	ANJ Andorra Juniper	Juniperus horizontalis 'Andorra'	5 gal	1-1.5'
14	BCJ Blue Chip Juniper	Juniperus horizontalis 'Blue Chip'	5 gal	.5-1'

Perennials/Ground Covers				
63	AJS Autumn Joy Sedum	Sedum spectabile 'Autumn Joy'	1 gal	.5-1.5'
19	BBG Blond Ambition Blue Grama Grass	Bouteloua gracilis 'Blond Ambition'	1 gal	2-3'
6	BLB Blaze Little Bluestem Grass	Schizachyrium scoparium 'Blaze'	1 gal	3-4'
3	BFF Blue Pin cushion Flower	Scabiosa 'Blue Butterfly'	1 gal	1-2'
22	DFG Dwarf Fountain Grass	Pennisetum alopecuroides 'Mammi'	1 gal	1.5-3'
31	JGR Johnson's Blue Geranium	Geranium x himalayense 'Johnson's Blue'	1 gal	1-1.5'
55	LVM Murehead Lavender	Lavandula 'Murehead'	1 gal	1-2.5'
15	MDI Magenta Dianthus	Dianthus deltoideus 'Whitethold magenta'	1 gal	0.5-1'
15	MCV Measoun Crossing Primrose	Oenothera missouriensis	1 gal	0.5-1'
54	MYW Moonshine Yarrow	Achillea millefolium 'Moonshine'	1 gal	1-2.5'
3	PRF Pink Whining Butterflies	Gaura lincolniensis 'Siskyou Pink'	1 gal	2-3'
20	PTF Partridge Feather	Tanacetum cinereum ssp. amam	1 gal	0.5-1'
18	SLG Sand Love Grass	Eragrostis trichodes	1 gal	2-4'
6	SSH Sonoran Sunset Hyssop	Agastache cana 'Sonoran Sunset'	1 gal	1.5-3'
14	SUN Sunset Hyssop	Agastache rupestris	1 gal	1.5-3'
35	UMG Unlabeled Ruby Mully Grass	Muhlenbergia nevadensis 'Unlabeled'	1 gal	2-3'
37	Y5I Vanegated Sweet Ins	Ins. pallida 'Vanegata'	1 gal	1.5-2.5'
49	WLC Walker's Low Catmint	Nepeta x Walker's Low	1 gal	1.5-2'

- NOTES:
1. PLANT GROWTH CHARACTERISTICS VARY DUE TO ENVIRONMENTAL CONDITIONS. THEREFORE A RANGE OF AVERAGE MATURE HEIGHTS ARE INDICATED.
2. ALL LANDSCAPE AREAS TO BE WATERED WITH AN UNDERGROUND, PRESSURIZED IRRIGATION SYSTEM.

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REVISION	DATE	DRAWN BY	DATE	SCALE
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REVISION B	2016	MM	DATE 2016	
REVISION C	2016	CM	DATE 2016	
REVISION D	2016	TC	DATE 2016	



PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

1ST STREET RECONSTRUCTION
LANDSCAPE PLAN L-10
PLANTING DETAILS LISTS AND NOTES



Purchasing Division

ADDENDUM NO. 2

DATE: January 12, 2017
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: 1st Street Reconstruction (Ouray Ave to North Ave) IFB-4321-17-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Q. I was reviewing the bid documents for this project and I came across the Liquidated Damages fee and it reads that the fee is \$5,000.00. This surprised me a little only because in the past the fee was \$500.00, so I just wanted to make sure that this wasn't a clerical error.
 - A. This is not a clerical error. The liquidated damages fee for Section 2.25 "Liquidated Damages for Failure to Meet Project Completion Schedule" is \$5,000.00 per day.
2. Q. I was just going through the bid schedule on Addendum 1 and did not see a line item for the 5" of asphalt for mainline. It shows a 5" HBP Mat on the plans but cannot find it on the bid schedule. Please let me know if this is a bid item or not.
 - A. Corrections have been made to some bid line items, and additional line items have been added to the solicitation Bid Schedule. For Contractor's convenience, this Revised Bid Schedule is being provided in both a fillable and non-fillable form. Contractor may utilize either form in submitting their bid response. Contractor shall utilize this Revised Bid Schedule when submitting their bid response to this solicitation process (non-fillable see attached, fillable posted as a separate document on City website and Rocky Mountain E-Purchasing website).

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

A handwritten signature in black ink, appearing to read "Duane Hoff Jr.", written over a white background.

Duane Hoff Jr.
City of Grand Junction, Colorado

Bid Schedule: 1st Street Reconstruction

Company Name: _____ **Addendum #2**

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
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1	108.2	8" Storm Drain Pipe (RCP)	10.	LF		\$ -
2	108.2	12" Storm Drain Pipe (RCP)	358.	LF		\$ -
3	108.2	30" Storm Drain Pipe (RCP)	5.	LF		\$ -
4	108.2	42" Storm Drain Pipe (RCP)	406.	LF		\$ -
5	108.5	Connect to Existing Manhole	4.	EA		\$ -
6	108.5	Adjust storm Manhole Rim to Finish Grade (Replace ring and cover with Watertight)	2.	EA		\$ -
7	108.6	Storm Sewer Basic Manhole (48" I.D.)	1.	EA		\$ -
8	108.6	Storm Manhole Cast in place Base (48" I.D.)(E1-232-014 total height 11.9 feet and D4252-031 total height 15 feet)(Price to include vertical height of 48" Barrel section manhole)	2.	EA		\$ -
9	108.6	Storm Manhole Drop (E1-231-014A)(total height 9.95 Feet)	1.	EA		\$ -
10	108.6	Single Storm Drain Inlet (Large Area Inlet)	9.	EA		\$ -
11	108.6	Single Storm Drain Inlet (Vertical Curb)	3.	EA		\$ -
12	202	Removal of Asphalt Mat (Milling)(1"-8")	18,150.	SY		\$ -

13	202	Removal of concrete. Remove concrete as shown* indicated by cross hatch pattern(includes but not limited to Saw Cutting, curb, gutter, sidewalks, driveways slabs v-pans, curb ramps, intersection corners and aprons)	2,711.	SY		\$ -
14	202	Remove Tree	9.	EA		\$ -
15	202	Removal of Bush	43.	EA		\$ -
16	202	Removal of Sod	4,900.	SF		\$ -
17	202	Removal of Manhole (Storm)	2.	EA		\$ -
18	202	Removal of Inlet	8.	EA		\$ -
19	202	Removal of Ground Sign	1.	EA		\$ -
20	202	Removal of Pipe (12" and Smaller)	305.	LF		\$ -
21	202	Removal of Pipe (18" and Larger)	75.	LF		\$ -
22	202	Abandon Pipe by plugging Open end	2.	EA		\$ -
23	202	Removal of wood boarder	171.	LF		\$ -
24	202	Removal of Parking Chalks	4.	EA		\$ -
25	202	Removal of Fence	64.	LF		\$ -
26	202	Remove post	7.	EA		\$ -
27	202	Remove buisness sign base (901 and 935 N 1st St and 2582 HWY 6 & 50)	5.	EA		\$ -
28	202	Remove Pole Foundation	1.	EA		\$ -
29	202	Remove Light Pole	2.	EA		\$ -
30	203	Potholing	Lump	sum		\$ -
31	203	Unclassified Excavation	13,658.	CY		\$ -
32	203	Sweeping with Pick-up Broom	70.	HR		\$ -
33	203	Disposal of Radioactive Materials	250.	CY		\$ -
34	206	Structural Backfill (Flowfill)(as Required)	100.	CY		\$ -
35	208	Storm Drain Inlet Protection	14.	EA		\$ -
36	208	Concrete Washout Facility	4.	EA		\$ -
37	208	Vehical track Pad	4.	EA		\$ -

38	208	Erosion Control (Complete In Place)	Lump sum		\$	-
39	209	Dust Abatement	120.	Day	\$	-
40	210	Reset Sprinkler System (Complete in Place)	6.	EA	\$	-
41	210	Reset Sign Panel	21.	EA	\$	-
42	210	Adjust Water Valve to Finish Grade	20.	EA	\$	-
43	210	Reset Fire Hydrant	1.	EA	\$	-
44	210	Adjust Water meter to Finished Grade	27.	EA	\$	-
45	210	Rest Backflow Preventor	3.	EA	\$	-
46	210	Temporary Sidewalk	100.	LF	\$	-
47	210	Adjust Manhole to Finished Grade	10.	EA	\$	-
48	210	Adjust SSCO to Finished Grade	23.	EA	\$	-
49	210	Reset Parking Blocks	6.	EA	\$	-
50	210	Reset Business (Sign) (Price to include new Base)	2.	EA	\$	-
51	210	Reference and Reset Monitoring Well Covers(Protect Monitoring Well in Place)	9.	EA	\$	-
52	212	Sod (Behind BOW to restore sodded areas	2,205.	SF	\$	-
53	213	Inorganic mulch (behind BOW to restore Xeriscape or gravel driveway)(4" Deep)	17.	CY	\$	-
54	304	Subgrade Stabilization (Class 3 ABC)14" Thick(Road Prism)(1st Street)	10,400.	SY	\$	-
55	304	Aggregate Base Course (Class 6)(12" Thick)(1st St and North Ave)	10,700.	SY	\$	-
56	304	Aggregate Base Course (Class 6)(6" thick) (Paving behind BOW to Restore Driveways and parking)(FOR HMA ONLY)	1,150.	SY	\$	-
57	304	Aggregate Base Course (Class 6)(12" Thick)(Connector Roads)	1,250.	SY	\$	-
58	401	Hot Mix Asphalt (3" Thick)(Gradin SX-75)(Binder 64-22)(Bottom Mat Connector Roads)	10,700.	SY	\$	-

59	401	Hot Mix Asphalt (2" Thick)(Gradin SX-75)(Binder 76-28)(Top Mat Connector Roads)	10,700.	SY		\$ -
60	401	Hot Mix Asphalt (3" Thick)(Gradin SX-75)(Binder 64-22)(Bottom Mat Connector Roads)	1,250.	SY		\$ -
61	401	Hot Mix Asphalt (2" Thick)(Gradin SX-75)(Binder 76-28)(Top Mat Connector Roads)	1,250.	SY		\$ -
62	401	Hot Mix Asphalt (2" Thick) (Overlay Fuoco DWY)	800.	SY		\$ -
63	401	Hot Mix Asphalt Grade Transition from Back of Curb to Existing Pavement Grade (Grading SX-75)(Binder 64-22)(Fuoco Driveway)	35.	TON		\$ -
64	401	Hot Mix Asphalt (4" Thick) (Grading SX-75)(Binder 64-22)(2ea 2"Lifts)(Paving Behind Back of Walk to restore Drives and Parking)	1,150.	SY		\$ -
65	412	Colored Concrete Pavement (Parking)(Class D)(8" Thick) (Omaha Tan)(Davis Color 5084)(Price to Include 4" Class 6 Aggregate Base Course)	1,190.	SY		\$ -
66	412	Concrete Pavement (Alley)(Class D)(8" Thick)(Price to Include 4" Class 6 Aggregate Base Course)	250.	SY		\$ -
67	412	Concrete Pavement (Paving Behind Back of Walk to restore Drives and Parking)(Class D)(6" Thick)(Price to Include 4" Class 6 Aggregate Base Course)	65.	SY		\$ -
68	420	Geogrid (TriAxial)	1,000.	SY		\$ -
69	608	Concrete Drainage Pan (1.5' Wide)	5.	LF		\$ -
70	608	Concrete Drainage Pan (3' Wide)	35.	LF		\$ -
71	608	Concrete Drainage Pan (6' Wide)	180.	LF		\$ -
72	608	Concrete Curb (6" wide)	2,090.	LF		\$ -
73	608	Concrete Curb with Spill Gutter (1.5' Wide)	510.	LF		\$ -
74	608	Concrete Curb and Gutter (2' Wide)	1,350.	LF		\$ -

75	608	Concrete Curb and Gutter (2.5' Wide)	25.	LF		\$	-
76	608	Concrete Drive Over Curb and Gutter (3' Wide)	470.	LF		\$	-
77	608	Concrete Sidewalk (4" Thick)	2,710.	SY		\$	-
78	608	Monolithic Curb Gutter and Sidewalk (7' Wide)	25.	SY		\$	-
79	608	Monolithic Curb Gutter and Sidewalk (10' Wide)	300.	SY		\$	-
80	608	Concrete Curb Ramp (8" thick)	255.	SY		\$	-
81	608	Concrete Driveway Section (8" Thick)	1,690.	SY		\$	-
82	608	Concrete Intersection Corner	340.	SY		\$	-
83	608	Concrete Median Edgeing 1.5' Wide(Sunset Rose)(Davis Color 160)	410.	LF		\$	-
84	608	Detectable Warning (Wet Set) (2'X2")	65.	EA		\$	-
85	613	Large Splice Box (Quasite 24X36)(Labled "FIBER")	8.	EA		\$	-
86	613	Splice Box (Quasite 13X24X15)(Labled "Fiber")	8.	EA		\$	-
87	613	Large Splice Box (48" Manhole Cone Section on Blocks)(Price to include Manhole Ring and Cover labled "TRAFFIC")	7.	EA		\$	-
88	613	6" Diameter SCH 80 PVC Conduit Duct (With a standard 8KN pull rope pre installed and #10 tracing wire)(to be installed in common trench)	2,500.	LF		\$	-
89	613	2" Diameter SCH 80 PVC Conduit Duct (With a standard 8KN pull rope pre installed and #10 tracing wire)(to be installed in common trench)	4,300.	LF		\$	-
90	613	Electrical Utility Trech (24" Wide X 30" Deep) (Including Backfill Material Per Special Provisions)	2,500.	LF		\$	-
91	620	Sanitary Facility	Lump	sum		\$	-
92	625	Construction Surveying	Lump	sum		\$	-

93	626	Mobilization	Lump	sum		\$ -
94	627	Preformed Thermoplastic Pavement Markings (Word Symbol)	360.	SF		\$ -
95	627	Preformed Thermoplastic Pavement Markings (X-Walk/Stop Bar)	2,200.	SF		\$ -
96	629	Reference and Reset Survey Monuments	7.	EA		\$ -
97	629	Set Property Pin Per Legal Description	19.	EA		\$ -
98	630	Traffic Control Plan	Lump	Sum		\$ -
99	630	Traffic Control (Complete In Place)	Lump	Sum		\$ -
100	630	Flagging	1,000.	HR		\$ -
101		Landscaping (per Summary of Approximate Quantities in Drawing Package)	Lump	sum		\$ -
102		Irrigation (per Summary of Approximate Quantities in Drawing Package)	Lump	sum		\$ -
103	INC	Incentive (Maximum 30 Days @ \$2500/Day)	---	---	---	\$ 75,000.00
104	QC	Quality Control Testing	Lump	Sum		\$ -
MCR		Minor Contract Revisions	---	---	---	\$ <u>100,000.00</u>

Bid Amount: \$ _____

Bid Amount:

_____ dollars



Purchasing Division

ADDENDUM NO. 3

DATE: January 27, 2017
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: 1st Street Reconstruction (Ouray Ave to North Ave) IFB-4321-17-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Q. You have Tee manholes called out on the plans. Can you clarify what you mean by tee. These appear to be standard manholes with very offset inverts such as a drop manhole. Pages 20, 21, 26 and 27

A. Upon the direction of the local manufacture/supplier of these structures and as corrected in addendum #2, the large drop structure has been revised to a 72" ID manhole. The other structures have been converted to cast in place with w/ 48" ID barrel sections.
2. Q. There are multiple inlets to be set on flat lids on existing manholes. What is your need for setting the inlets? Rubber neck and grout or something more?

A. A water tight interface. Generally as described above.
3. Q. Will all of the flat lids need to have 24" concentric holes?

A. Yes.
4. Q. On plan sheet 08, Bedding, Haunching and Backfill per City Standard Page GU-03, where is that reference?

A. City of Grand Junction Standard Contract Documents for Capital Improvement Projects. <http://www.gjcity.org/siteassets/residents/public-works/2010-scd-manual-final>
5. Q. I can only find (6) Large Splice Boxes for TRAFFIC and the Bid Schedule Item 85 calls for (7)?

A. 6 is the correct quantity. One additional is add in the event our Traffic Engineer would like to add for future expansion.

6. Q. I find (9) Broadband pull boxes, no size, and the Bid Schedule Item 83 and 84 call for (8) each?
- A. The smaller boxes are to be installed opposite the alley locations.
7. Q. How is business owner approval for construction, prior to construction, going to work? Who will be responsible for acquiring it, and how will it affect the calendar working days?
- A. As discussed in the Pre-Bid Meeting the City will hold an open house with the contractor and the Business/Property owners prior to start of construction. This opportunity will be for the contractor to understand the needs of the property owner and develop their plan. This is a time critical project as seen by all of the businesses along this corridor. Additional time will not be granted due to for this step in the process. The contractor will be the responsible party for developing the plan following the guidelines in the IFB and the comments of the Business/property owner.
8. Q. What about ADA requirements along the 1st Street corridor?
- A. The ADA corridor is along the east side of 1st Street. The Contractor is to make every effort to maintain a pathway that is conducive to individuals with special needs.
9. Q. Stormwater Management Sweeper, why do we need to use this? Would contractor be responsible for paying for/providing additional car wash services to the business along the corridor?
- A. The vacuum sweeper is specified in an order to maintain dust particulates. This corridor is primarily made up of car lots and we are trying to minimize dust.
10. Q. the Storm Drain has some conflicting specs for flow fill, could you please clarify?
- A. Flow-fill will not be a requirement for this project.
11. Q. Can the Owner provide any staging area(s) along the corridor for the contractor?
- A. The contractor has the option to coordinate with property owners for staging areas all agreements shall be in writing and presented to the City representative prior to staging. The primary staging areas are on the side streets only with the City's Right-of-way and none obstructing to the local residents or businesses.
12. Q. Biaxle and/or Triaxle?
- A. The minimum requirement for the Geogrid will be Biaxial
13. Q. Are thermals inlayed?
- A. No all are surface applied
14. Q. Radioactive material, will there be an inspector on-site?
- A. The City of Grand Junction will have representation for verification of radioactive material.

15.Q. Can contractor use their own trucks for hauling radioactive material?

A. The contractor may utilize their own equipment. However, the equipment shall be decontaminated prior to returning to service.

16. Additional line items have been added to the solicitation Bid Schedule. For Contractor's convenience, this Revised Bid Schedule is being provided in both a fillable and non-fillable form. Contractor may utilize either form in submitting their bid response. Contractor shall utilize this Revised Bid Schedule when submitting their bid response to this solicitation process (non-fillable see attached, fillable posted as a separate document on City website and Rocky Mountain E-Purchasing website).

17.Q. Will the long line that is called out on the striping plans be done by others?

A. The painting of the lane delineation along the corridor will be completed on the top mat by City crews. Any temporary markings or paint applied for lane delineation will be considered incidental to the project and will not be measured or paid for separately.

18.Q. The bid schedule states the use of Quasite box for the splice boxes are other brands acceptable?

A. Provided they meet the minimum certifications and construction requirements other brands will be considered as approved by the engineer.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,



Duane Hoff Jr.

City of Grand Junction, Colorado

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	108.2	8" Storm Drain Pipe (RCP)	10.	LF	\$ _____	\$ _____
2	108.2	12" Storm Drain Pipe (RCP)	358.	LF	\$ _____	\$ _____
3	108.2	30" Storm Drain Pipe (RCP)	5.	LF	\$ _____	\$ _____
4	108.2	42" Storm Drain Pipe (RCP)	406.	LF	\$ _____	\$ _____
5	108.5	Connect to Existing Manhole	4.	EA	\$ _____	\$ _____
6	108.5	Adjust storm Manhole Rim to Finish Grade (Replace ring and cover with Watertight)	2.	EA	\$ _____	\$ _____
7	108.6	Storm Sewer Basic Manhole (48" I.D.)	1.	EA	\$ _____	\$ _____
8	108.6	Storm Manhole Cast in place Base (48" I.D.)(E1-232-014 total height 11.9 feet and D4252-031 total height 15 feet)(Price to include vertical height of 48" Barrel section manhole)	2.	EA	\$ _____	\$ _____
9	108.6	Storm Manhole Drop (E1-231-014A)(total height 9.95 Feet)	1.	EA	\$ _____	\$ _____
10	108.6	Single Storm Drain Inlet (Large Area Inlet)	9.	EA	\$ _____	\$ _____
11	108.6	Single Storm Drain Inlet (Vertical Curb)	3.	EA	\$ _____	\$ _____
12	202	Removal of Asphalt Mat (Milling)(1"-8")	18,150.	SY	\$ _____	\$ _____
13	202	Removal of concrete. Remove concrete as shown* indicated by cross hatch pattern(includes but not limited to Saw Cutting, curb, gutter, sidewalks, driveways slabs v-pans, curb ramps, intersection corners and aprons)	2,711.	SY	\$ _____	\$ _____
14	202	Remove Tree	9.	EA	\$ _____	\$ _____
15	202	Removal of Bush	43.	EA	\$ _____	\$ _____
16	202	Removal of Sod	4,900.	SF	\$ _____	\$ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
17	202	Removal of Manhole (Storm)	2.	EA	₱ _____	₱ _____
18	202	Removal of Inlet	8.	EA	₱ _____	₱ _____
19	202	Removal of Ground Sign	1.	EA	₱ _____	₱ _____
20	202	Removal of Pipe (12" and Smaller)	305.	LF	₱ _____	₱ _____
21	202	Removal of Pipe (18" and Larger)	75.	LF	₱ _____	₱ _____
22	202	Abandon Pipe by plugging Open end	2.	EA	₱ _____	₱ _____
23	202	Removal of wood boarder	171.	LF	₱ _____	₱ _____
24	202	Removal of Parking Chalks	4.	EA	₱ _____	₱ _____
25	202	Removal of Fence	64.	LF	₱ _____	₱ _____
26	202	Remove post	7.	EA	₱ _____	₱ _____
27	202	Remove buisness sign base (901 and 935 N 1st St and 2582 HWY 6 & 50)	5.	EA	₱ _____	₱ _____
28	202	Remove Pole Foundation	1.	EA	₱ _____	₱ _____
29	202	Remove Light Pole	2.	EA	₱ _____	₱ _____
30	203	Potholing	Lump sum		---	₱ _____
31	203	Unclassified Excavation	13,658.	CY	₱ _____	₱ _____
32	203	Sweeping with Pick-up Broom	70.	HR	₱ _____	₱ _____
33	203	Disposal of Radioactive Materials	250.	CY	₱ _____	₱ _____
34	206	Structural Backfill (Flowfill)(as Required)	100.	CY	₱ _____	₱ _____
35	208	Storm Drain Inlet Protection	14.	EA	₱ _____	₱ _____
36	208	Concrete Washout Facility	4.	EA	₱ _____	₱ _____
37	208	Vehical track Pad	4.	EA	₱ _____	₱ _____
38	208	Erosion Control (Complete In Place)	Lump sum		---	₱ _____
39	209	Dust Abatement	120.	Day	₱ _____	₱ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
40	210	Reset Sprinkler System (Complete in Place)	6.	EA	₱ _____	₱ _____
41	210	Reset Sign Panel	21.	EA	₱ _____	₱ _____
42	210	Adjust Water Valve to Finish Grade	20.	EA	₱ _____	₱ _____
43	210	Reset Fire Hydrant	1.	EA	₱ _____	₱ _____
44	210	Adjust Water meter to Finished Grade	27.	EA	₱ _____	₱ _____
45	210	Rest Backflow Preventor	3.	EA	₱ _____	₱ _____
46	210	Temporary Sidewalk	100.	LF	₱ _____	₱ _____
47	210	Adjust Manhole to Finished Grade	10.	EA	₱ _____	₱ _____
48	210	Adjust SSCO to Finished Grade	23.	EA	₱ _____	₱ _____
49	210	Reset Parking Blocks	6.	EA	₱ _____	₱ _____
50	210	Reset Business (Sign) (Price to include new Base)	2.	EA	₱ _____	₱ _____
51	210	Reference and Reset Monitoring Well Covers(Protect Monitoring Well in Place)	9.	EA	₱ _____	₱ _____
52	212	Sod (Behind BOW to restore sodded areas	2,205.	SF	₱ _____	₱ _____
53	213	Inorganic mulch (behind BOW to restore Xericscape or gravel driveway)(4" Deep)	17.	CY	₱ _____	₱ _____
54	304	Subgrade Stabilization (Class 3 ABC)14" Thick(Road Prism)(1st Street)	10,400.	SY	₱ _____	₱ _____
55	304	Aggregate Base Course (Class 6)(12" Thick)(1st St and North Ave)	10,700.	SY	₱ _____	₱ _____
56	304	Aggregate Base Course (Class 6)(6" thick) (Paving behind BOW to Restore Driveways and parking)(FOR HMA ONLY)	1,150.	SY	₱ _____	₱ _____
57	304	Aggregate Base Course (Class 6)(12" Thick)(Connector Roads)	1,250.	SY	₱ _____	₱ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
58	401	Hot Mix Asphalt (3" Thick)(Gradin SX-75)(Binder 64-22)(Bottom Mat Connector Roads)	10,700.	SY	₹ _____	₹ _____
59	401	Hot Mix Asphalt (2" Thick)(Gradin SX-75)(Binder 76-28)(Top Mat Connector Roads)	10,700.	SY	₹ _____	₹ _____
60	401	Hot Mix Asphalt (3" Thick)(Gradin SX-75)(Binder 64-22)(Bottom Mat Connector Roads)	1,250.	SY	₹ _____	₹ _____
61	401	Hot Mix Asphalt (2" Thick)(Gradin SX-75)(Binder 76-28)(Top Mat Connector Roads)	1,250.	SY	₹ _____	₹ _____
62	401	Hot Mix Asphalt (2" Thick) (Overlay Fuoco DWY)	800.	SY	₹ _____	₹ _____
63	401	Hot Mix Asphalt Grade Transition from Back of Curb to Existing Pavement Grade (Grading SX-75)(Binder 64-22)(Fuoco Driveway)	35.	TON	₹ _____	₹ _____
64	401	Hot Mix Asphalt (4" Thick) (Grading SX-75)(Binder 64-22)(2ea 2"Lifts)(Paving Behind Back of Walk to restore Drives and Parking)	1,150.	SY	₹ _____	₹ _____
65	412	Colored Concrete Pavement (Parking)(Class D)(8" Thick) (Omaha Tan)(Davis Color 5084)(Price to Include 4" Class 6 Aggregate Base Course)	1,190.	SY	₹ _____	₹ _____
66	412	Concrete Pavement (Alley)(Class D)(8" Thick)(Price to Include 4" Class 6 Aggregate Base Course)	250.	SY	₹ _____	₹ _____
67	412	Concrete Pavement (Paving Behind Back of Walk to restore Drives and Parking)(Class D)(6" Thick)(Price to Include 4" Class 6 Aggregate Base Course)	65.	SY	₹ _____	₹ _____
68	420	Geogrid (TriAxial)	1,000.	SY	₹ _____	₹ _____
69	608	Concrete Drainage Pan (1.5' Wide)	5.	LF	₹ _____	₹ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
70	608	Concrete Drainage Pan (3' Wide)	35.	LF	\$ _____	\$ _____
71	608	Concrete Drainage Pan (6' Wide)	180.	LF	\$ _____	\$ _____
72	608	Concrete Curb (6" wide)	2,090.	LF	\$ _____	\$ _____
73	608	Concrete Curb with Spill Gutter (1.5' Wide)	510.	LF	\$ _____	\$ _____
74	608	Concrete Curb and Gutter (2' Wide)	1,350.	LF	\$ _____	\$ _____
75	608	Concrete Curb and Gutter (2.5' Wide)	25.	LF	\$ _____	\$ _____
76	608	Concrete Drive Over Curb and Gutter (3' Wide)	470.	LF	\$ _____	\$ _____
77	608	Concrete Sidewalk (4" Thick)	2,710.	SY	\$ _____	\$ _____
78	608	Monolithic Curb Gutter and Sidewalk (7' Wide)	25.	SY	\$ _____	\$ _____
79	608	Monolithic Curb Gutter and Sidewalk (10' Wide)	300.	SY	\$ _____	\$ _____
80	608	Concrete Curb Ramp (8" thick)	255.	SY	\$ _____	\$ _____
81	608	Concrete Driveway Section (8" Thick)	1,690.	SY	\$ _____	\$ _____
82	608	Concrete Intersection Corner	340.	SY	\$ _____	\$ _____
83	608	Concrete Median Edgeing 1.5' Wide(Sunset Rose)(Davis Color 160)	410.	LF	\$ _____	\$ _____
84	608	Detectable Warning (Wet Set) (2'X2")	65.	EA	\$ _____	\$ _____
85	613	Large Splice Box (Quasite 24X36)(Labled "FIBER")	8.	EA	\$ _____	\$ _____
86	613	Splice Box (Quasite 13X24X15)(Labled "Fiber")	8.	EA	\$ _____	\$ _____
87	613	Large Splice Box (48" Manhole Cone Section on Blocks)(Price to include Manhole Ring and Cover labled "TRAFFIC")	7.	EA	\$ _____	\$ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
88	613	6" Diameter SCH 80 PVC Conduit Duct (With a standard 8KN pull rope pre installed and #10 tracing wire)(to be installed in common trench)	2,500.	LF	\$ _____	\$ _____
89	613	2" Diameter SCH 80 PVC Conduit Duct (With a standard 8KN pull rope pre installed and #10 tracing wire)(to be installed in common trench)	4,300.	LF	\$ _____	\$ _____
90	613	Electrical Utility Trench (24" Wide X 30" Deep) (Including Backfill Material Per Special Provisions)	2,500.	LF	\$ _____	\$ _____
91	620	Sanitary Facility		Lump sum	---	\$ _____
92	625	Construction Surveying		Lump sum	---	\$ _____
93	626	Mobilization		Lump sum	---	\$ _____
94	627	Preformed Thermoplastic Pavement Markings (Word Symbol)	360.	SF	\$ _____	\$ _____
95	627	Preformed Thermoplastic Pavement Markings (X-Walk/Stop Bar)	2,200.	SF	\$ _____	\$ _____
96	629	Reference and Reset Survey Monuments	7.	EA	\$ _____	\$ _____
97	629	Set Property Pin Per Legal Description	19.	EA	\$ _____	\$ _____
98	630	Traffic Control Plan		Lump Sum	---	\$ _____
99	630	Traffic Control (Complete In Place)		Lump Sum	---	\$ _____
100	630	Flagging	1,000.	HR	\$ _____	\$ _____
101		Landscaping (per Summary of Approximate Quantities in Drawing Package)		Lump sum	---	\$ _____
102		Irrigation (per Summary of Approximate Quantities in Drawing Package)		Lump sum	---	\$ _____
103	INC	Incentive (Maximum 30 Days @ \$2500/Day)		---	---	<u>\$ 75,000.00</u>

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
104	QC	Quality Control Testing		Lump Sum	---	\$ _____
105	GCC56	Weekly Newsletter (Approximately 50/ Week)		Lump Sum	---	\$ _____
106	108.2	15" RCP w/ 22 DEG bend	8.	LF	\$ _____	\$ _____
MCR		Minor Contract Revisions	---	---	---	<u>\$ 100,000.00</u>

Bid Amount: **\$** _____

Bid Amount: _____ **dollars**



Purchasing Division

ADDENDUM NO. 4

DATE: January 27, 2017
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: 1st Street Reconstruction (Ouray Ave to North Ave) IFB-4321-17-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Q. I have a couple of questions regarding the BFP's. First, I find 4 resets not 3 as per the bid tab (pages 9,11 and 13). Second, Can we clarification as to size and type of pipe required to accomplish the reset.
 - A. There are only 3 Resets the one shown on sheet 11 is a removal only. Regarding size of the back flow preventers here are the sizes: station 15+50 1 inch, station 18+35 3/4 inch, and station 34+95 2 inch.
2. Q. Would our normal pit run be acceptable in lieu of the class 3?
 - A. Pit Run material will be an acceptable alternative for Class 3 material provided the material meets the requirements as specified with in the limits stated in the City of Grand Junction Standard Specifications.
3. Q. With item 49 do we need to reuse the parking blocks that we remove or do we replace them with new ones?
 - A. This is a reset/reuse item.
4. Q. What are the requirements of the temporary sidewalk?
 - A. The Temporary sidewalk line item is for the accessibility to those stores that are adjacent to the project. the thought was to construct a temporary access to the store fronts while construction was being conducted in this area to allow for access to the stores.
5. Q. The work by others for both the street lights and the signal poles can you elaborate on this who/when?

- A. Xcel Energy will be doing the undergrounding of the existing power and the removal and installation of the new street lights. CDOT will be installing the new signal poles at the intersection of 1st Street and North Avenue as part of the Phase 4 I-70B project that will be released in late March. as part of this project and coordination efforts with CDOT not all of the concrete located on the south side of the intersection may be installed.
6. Contractor shall utilize and submit the attached revised Contractor's Bid Form with their bid response. See attached.
7. Q. Looking for clarification on the manhole sizes required for items 8 and 9 on the bid tab. GJ City spec would require 90" for pipe 42"-48".
- A. The City of Grand Junction reserves the right for alterations on structures. Addendum 3 shows 72" ID structure for the Drop Manhole and cast in place bases over the existing pipe with 48"ID barrel section build out on the other two structures.
8. Q. Bid Item #1 – 8" RCP: Can this be changed to 8" PVC? Also, cannot find it on the plans. The only location we see 8" pipe is MH D4-261-009 on Sheet 34 of the drawings. The detail shows the existing pipe to be PVC but appears to be replaced with 12" RCP.
- A. See line 15 of this addendum.
9. Q. Bid Item #40 – Reset Sprinkler System – Please clarify as to what the scope of this bid item is. i.e.; per sprinkler head, per property location, etc.
- A. All existing working sprinkler systems shall be restored to operate within the remaining area that is classified as landscaping. The City does not have how the systems operate that task shall be coordinated between the Contractor and the Property owner. From the City's survey there are a total of 6 properties that have working sprinkler systems.
10. Q. It appears that there may be a great risk of losing part of the median in North Ave. near 2nd street due to the location of the new storm sewer alignment. This would include the curb and median cover as well as the existing light pole foundation. Will the removal and replacement of these items, should they occur, be paid for or will the cost be incidental to the cost of the storm sewer installation?
- A. Please reference section 103 of the City of Grand Junction Standard Specifications for the Construction of Underground Utilities. In the event that damage occurs outside the proposed limits the contractor will be obligated to replace at their cost unless installation of the pipe cannot be constructed otherwise.
11. Q. How will the pit run backfill material in the storm sewer trench within North Ave. be paid for or will it be incidental to the cost of the storm sewer pipe?
- A. Please see attached Addendum 4. The revised bid schedule has a line item for Import Trench Backfill.
12. Q. Who is responsible for pushing up the asphalt millings at the City yards in Riverside?
- A. City Staff will Push-up the millings pile at the end of day operations.

- 13.Q. How is temporary traffic signal work at North Ave. and 1st Street to be paid for?
- A. The existing signals will remain the new signals and any temporary signals will be included with the work performed by CDOT on the Phase 4 project to be released in late March.
- 14.Q. Would it be possible to acquire the CAD line work prior to bidding in order to better evaluate phasing options?
- A. The City will decline on this request.
- 15.Q. Bid item 1 is for 8" RCP. I do not believe any pre-caster makes an 8" in our area. Is there an optional pipe we can bid?
- A. All Storm Sewer Pipe for this project will be RCP, HP STORM or Engineer approved equal. The location of the 8" pipe is located on sheet 21 it is the lateral from the catch basin located on the NE corner of North Ave and 2nd Street.
- 16.Q. I'm double checking on the pre-qualifications for this project. To our understanding from the City of Grand Junction website:

Pre-Qualification

"The Pre-Qualification process for City of Grand Junction Public Works/Construction projects is hereby suspended until further notice. Due to recent staff reductions, this process can no longer be supported, and thus shall no longer apply to Public Works/Construction projects with the City of Grand Junction. Should this process be reinstated in the future, notice will be posted on this website. This suspension pertains to the City's Pre-Qualification process only. Any and All other bid/project requirements shall be noted in the solicitation documents."

We saw nothing in the spec book (solicitation documents) about pre-qualifications for this project. Are you requiring a pre-qualification packet in the Bid for 1st Street Reconstruction? If you do require pre-qualification where can we find the form? Or could/would City of Grand Junction accept a CDOT Pre-Qualification Letter as substitute for this form? Please let us know what you require.

- A. The City of Grand Junction does not currently have a "pre-qualification" process in service. However, with this question, the City would like to take this opportunity to emphasize that contractor experience with a project of this scope and size is important to the success of this project.

Due to the required interaction with business owners, project phasing, and general complexities of the project, the contractor shall submit a minimum of 3 references, with their bid submittal, of projects of similar scope and size in which the contractor was the General Contractor for those projects.

Please include:

-Project Title and a brief description of the project:

-Company Name;

-Point of Contact information;

-Project Location;

-and Dollar Amount.

These references shall be taken into consideration for selecting the awarded bidder.

17. Q. The bid schedule calls for SCH 80 PVC and section 613 specifications and plan sheet 8 shows SCH 40 PVC. Which one is correct?
- A. All electrical conduit installed as part of the 1st Street shall be schedule 40 PVC pipe.
18. The solicitation Bid Schedule has been further modified. For Contractor's convenience, this Revised Bid Schedule is being provided in both a fillable and non-fillable form. Contractor may utilize either form in submitting their bid response. Contractor shall utilize this Revised Bid Schedule when submitting their bid response to this solicitation process (non-fillable see attached, fillable posted as a separate document on City website and Rocky Mountain E-Purchasing website).
19. Q. The Bid Schedule lists 7 Survey Monuments to be referenced and reset. Are these monuments shown on any plan sheet? Is there a specification for the type of monument and/or monument box required?
- A. The monuments to be reset are shown on the plans. The boxes that have been utilized in the past have the following Castings Inc. part numbers: VBT 10A (for the body), VBL-Survey (For the lid).
20. Q. The Bid Schedule lists 19 Property Pins Per Legal Description to be set. Are these monuments shown on any plan sheet? Who is providing the legal descriptions? Who will be responsible for the preparation and deposit of the plats required by statute as a result of setting these pins? How many properties are represented by these monuments?
- A. Please see Addendum 4a line item for Plat deposit has been added to the bid schedule. There are a total of 7 properties that will require a plat deposit in order to set the new property pins. The City of Grand Junction will provide the legal descriptions for these properties.
21. Q. The trees sizes on page 173 differ from the sizes on plant legend on 174. Which Schedule are we to use?
- A. All canopy trees are to be 2" caliper.
22. Q. On the landscape plan (L9) landscape summary approximate quantities in the call out box, it is listing 13,423 sf of rock and fabric. On the Landscape plan L 10 in the planting notes #9 states "no weed fabric to be used on this project"
- A. There is to be no weed fabric used on this project.
23. Q. Is milling absolutely required or can we mass excavation as an alt?
- A. Milling of the asphalt is a requirement for this project.
24. Q. Can we use our regular pit run in lieu of Class 3?
- A. Answered in previous questions.

25. Q. Is there a geotech report (investigative boring)?

A. Yes.

26. Q. Can we take a full road closure at night?

A. No due to emergency access.

27. Q. Items 58, & item 60 have the same description and a different qty. Please verify that item 60 and 61 is an addition to item 58 and 59. And the same with 59 & 61.

A. The City has set these as separate line items due to efficiencies, main line vs short runs. They are not duplicate quantities.

28.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

A handwritten signature in black ink, appearing to read "Duane Hoff Jr.", written over a light blue horizontal line.

Duane Hoff Jr.

City of Grand Junction, Colorado

4. Contractor's Bid Form

Bid Date: _____

Project: IFB-4321-17-DH "1st Street Reconstruction (Ouray Ave to North Ave.)"

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.

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: 1st Street Reconstruction

Company Name: _____

Addendum #4

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	108.2	8" Storm Drain Pipe (RCP)	10.	LF	₱ _____	₱ _____
2	108.2	12" Storm Drain Pipe (RCP)	358.	LF	₱ _____	₱ _____
3	108.2	30" Storm Drain Pipe (RCP)	5.	LF	₱ _____	₱ _____
4	108.2	42" Storm Drain Pipe (RCP)	406.	LF	₱ _____	₱ _____
5	108.5	Connect to Existing Manhole	4.	EA	₱ _____	₱ _____
6	108.5	Adjust storm Manhole Rim to Finish Grade (Replace ring and cover with Watertight)	2.	EA	₱ _____	₱ _____
7	108.6	Storm Sewer Basic Manhole (48" I.D.)	1.	EA	₱ _____	₱ _____
8	108.6	Storm Manhole Cast in place Base (48" I.D.)(E1-232-014 total height 11.9 feet and D4252-031 total height 15 feet)(Price to include vertical height of 48" Barrel section manhole, Cone and Ring and cover)	2.	EA	₱ _____	₱ _____
9	108.6	Storm Manhole Drop (72" ID) (E1-231-014A)(total height 9.95 Feet)	1.	EA	₱ _____	₱ _____
10	108.6	Single Storm Drain Inlet (Large Area Inlet)	9.	EA	₱ _____	₱ _____
11	108.6	Single Storm Drain Inlet (Vertical Curb)	3.	EA	₱ _____	₱ _____
12	202	Removal of Asphalt Mat (Milling)(1"-8")	18,150.	SY	₱ _____	₱ _____
13	202	Removal of concrete. Remove concrete as shown* indicated by cross hatch pattern(includes but not limited to Saw Cutting, curb, gutter, sidewalks, driveways slabs v-pans, curb ramps, intersection corners and aprons)	2,711.	SY	₱ _____	₱ _____
14	202	Remove Tree	9.	EA	₱ _____	₱ _____
15	202	Removal of Bush	43.	EA	₱ _____	₱ _____
16	202	Removal of Sod	4,900.	SF	₱ _____	₱ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #4

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
17	202	Removal of Manhole (Storm)	2.	EA	\$ _____	\$ _____
18	202	Removal of Inlet	8.	EA	\$ _____	\$ _____
19	202	Removal of Ground Sign	1.	EA	\$ _____	\$ _____
20	202	Removal of Pipe (12" and Smaller)	305.	LF	\$ _____	\$ _____
21	202	Removal of Pipe (18" and Larger)	75.	LF	\$ _____	\$ _____
22	202	Abandon Pipe by plugging Open end	2.	EA	\$ _____	\$ _____
23	202	Removal of wood border	171.	LF	\$ _____	\$ _____
24	202	Removal of Parking Blocks	4.	EA	\$ _____	\$ _____
25	202	Removal of Fence	64.	LF	\$ _____	\$ _____
26	202	Remove post	7.	EA	\$ _____	\$ _____
27	202	Remove business sign base (901 and 935 N 1st St and 2582 HWY 6 & 50)	5.	EA	\$ _____	\$ _____
28	202	Remove Pole Foundation	1.	EA	\$ _____	\$ _____
29	202	Remove Light Pole	2.	EA	\$ _____	\$ _____
30	203	Potholing		Lump sum	---	\$ _____
31	203	Unclassified Excavation	13,658.	CY	\$ _____	\$ _____
32	203	Sweeping with Pick-up Broom	70.	HR	\$ _____	\$ _____
33	203	Disposal of Radioactive Materials	250.	CY	\$ _____	\$ _____
34	206	Structural Backfill (Flow fill)(as Required)	100.	CY	\$ _____	\$ _____
35	208	Storm Drain Inlet Protection	14.	EA	\$ _____	\$ _____
36	208	Concrete Washout Facility	4.	EA	\$ _____	\$ _____
37	208	Vehicle track Pad	4.	EA	\$ _____	\$ _____
38	208	Erosion Control (Complete In Place)		Lump sum	---	\$ _____
39	209	Dust Abatement	120.	Day	\$ _____	\$ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #4

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
40	210	Reset Sprinkler System (Complete in Place)	6.	EA	₱ _____	₱ _____
41	210	Reset Sign Panel	21.	EA	₱ _____	₱ _____
42	210	Adjust Water Valve to Finish Grade	20.	EA	₱ _____	₱ _____
43	210	Reset Fire Hydrant	1.	EA	₱ _____	₱ _____
44	210	Adjust Water meter to Finished Grade	27.	EA	₱ _____	₱ _____
45	210	Rest Backflow Preventer	3.	EA	₱ _____	₱ _____
46	210	Temporary Sidewalk	100.	LF	₱ _____	₱ _____
47	210	Adjust Manhole to Finished Grade	10.	EA	₱ _____	₱ _____
48	210	Adjust SSCO to Finished Grade	23.	EA	₱ _____	₱ _____
49	210	Reset Parking Blocks	6.	EA	₱ _____	₱ _____
50	210	Reset Business (Sign) (Price to include new Base)	2.	EA	₱ _____	₱ _____
51	210	Reference and Reset Monitoring Well Covers(Protect Monitoring Well in Place)	9.	EA	₱ _____	₱ _____
52	212	Sod (Behind BOW to restore sodded areas	2,205.	SF	₱ _____	₱ _____
53	213	Inorganic mulch (behind BOW to restore Xeriscape or gravel driveway)(4" Deep)	17.	CY	₱ _____	₱ _____
54	304	Subgrade Stabilization (Class 3 ABC)14" Thick(Road Prism)(1st Street)	10,400.	SY	₱ _____	₱ _____
55	304	Aggregate Base Course (Class 6)(12" Thick)(1st St and North Ave)	10,700.	SY	₱ _____	₱ _____
56	304	Aggregate Base Course (Class 6)(6" thick) (Paving behind BOW to Restore Driveways and parking)(FOR HMA ONLY)	1,150.	SY	₱ _____	₱ _____
57	304	Aggregate Base Course (Class 6)(12" Thick)(Connector Roads)	1,250.	SY	₱ _____	₱ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #4

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
58	401	Hot Mix Asphalt (3" Thick)(Grading SX-75)(Binder 64-22)(Bottom Mat Connector Roads)	10,700.	SY	₹ _____	₹ _____
59	401	Hot Mix Asphalt (2" Thick)(Grading SX-75)(Binder 76-28)(Top Mat Connector Roads)	10,700.	SY	₹ _____	₹ _____
60	401	Hot Mix Asphalt (3" Thick)(Grading SX-75)(Binder 64-22)(Bottom Mat Connector Roads)	1,250.	SY	₹ _____	₹ _____
61	401	Hot Mix Asphalt (2" Thick)(Grading SX-75)(Binder 76-28)(Top Mat Connector Roads)	1,250.	SY	₹ _____	₹ _____
62	401	Hot Mix Asphalt (2" Thick) (Overlay Fuoco DWY)	800.	SY	₹ _____	₹ _____
63	401	Hot Mix Asphalt Grade Transition from Back of Curb to Existing Pavement Grade (Grading SX-75)(Binder 64-22)(Fuoco Driveway)	35.	TON	₹ _____	₹ _____
64	401	Hot Mix Asphalt (4" Thick) (Grading SX-75)(Binder 64-22)(2ea 2"Lifts)(Paving Behind Back of Walk to restore Drives and Parking)	1,150.	SY	₹ _____	₹ _____
65	412	Colored Concrete Pavement (Parking)(Class D)(8" Thick) (Omaha Tan)(Davis Color 5084)(Price to Include 4" Class 6 Aggregate Base Course)	1,190.	SY	₹ _____	₹ _____
66	412	Concrete Pavement (Alley)(Class D)(8" Thick)(Price to Include 4" Class 6 Aggregate Base Course)	250.	SY	₹ _____	₹ _____
67	412	Concrete Pavement (Paving Behind Back of Walk to restore Drives and Parking)(Class D)(6" Thick)(Price to Include 4" Class 6 Aggregate Base Course)	65.	SY	₹ _____	₹ _____
68	420	Geogrid (TriAxial)	1,000.	SY	₹ _____	₹ _____
69	608	Concrete Drainage Pan (1.5' Wide)	5.	LF	₹ _____	₹ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #4

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
70	608	Concrete Drainage Pan (3' Wide)	35.	LF	\$ _____	\$ _____
71	608	Concrete Drainage Pan (6' Wide)	180.	LF	\$ _____	\$ _____
72	608	Concrete Curb (6" wide)	2,090.	LF	\$ _____	\$ _____
73	608	Concrete Curb with Spill Gutter (1.5' Wide)	510.	LF	\$ _____	\$ _____
74	608	Concrete Curb and Gutter (2' Wide)	1,350.	LF	\$ _____	\$ _____
75	608	Concrete Curb and Gutter (2.5' Wide)	25.	LF	\$ _____	\$ _____
76	608	Concrete Drive Over Curb and Gutter (3' Wide)	470.	LF	\$ _____	\$ _____
77	608	Concrete Sidewalk (4" Thick)	2,710.	SY	\$ _____	\$ _____
78	608	Monolithic Curb Gutter and Sidewalk (7' Wide)	25.	SY	\$ _____	\$ _____
79	608	Monolithic Curb Gutter and Sidewalk (10' Wide)	300.	SY	\$ _____	\$ _____
80	608	Concrete Curb Ramp (8" thick)	255.	SY	\$ _____	\$ _____
81	608	Concrete Driveway Section (8" Thick)	1,690.	SY	\$ _____	\$ _____
82	608	Concrete Intersection Corner	340.	SY	\$ _____	\$ _____
83	608	Concrete Median Edging 1.5' Wide(Sunset Rose)(Davis Color 160)	410.	LF	\$ _____	\$ _____
84	608	Detectable Warning (Wet Set) (2'X2")	65.	EA	\$ _____	\$ _____
85	613	Large Splice Box (Quasite 24X36)(Labeled "FIBER")	8.	EA	\$ _____	\$ _____
86	613	Splice Box (Quasite 13X24X15)(Labeled "Fiber")	8.	EA	\$ _____	\$ _____
87	613	Large Splice Box (48" Manhole Cone Section on Blocks)(Price to include Manhole Ring and Cover labeled "TRAFFIC")	7.	EA	\$ _____	\$ _____

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #4

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
88	613	6" Diameter SCH 80 PVC Conduit Duct (With a standard 8KN pull rope pre installed and #10 tracing wire)(to be installed in common trench)	2,500.	LF	₹ _____	₹ _____
89	613	2" Diameter SCH 80 PVC Conduit Duct (With a standard 8KN pull rope pre installed and #10 tracing wire)(to be installed in common trench)	4,300.	LF	₹ _____	₹ _____
90	613	Electrical Utility Trench (24" Wide X 30" Deep) (Including Backfill Material Per Special Provisions)	2,500.	LF	₹ _____	₹ _____
91	620	Sanitary Facility		Lump sum	---	₹ _____
92	625	Construction Surveying		Lump sum	---	₹ _____
93	626	Mobilization		Lump sum	---	₹ _____
94	627	Preformed Thermoplastic Pavement Markings (Word Symbol)	360.	SF	₹ _____	₹ _____
95	627	Preformed Thermoplastic Pavement Markings (X-Walk/Stop Bar)	2,200.	SF	₹ _____	₹ _____
96	629	Reference and Reset Survey Monuments	7.	EA	₹ _____	₹ _____
97	629	Set Property Pin Per Legal Description	19.	EA	₹ _____	₹ _____
98	630	Traffic Control Plan		Lump Sum	---	₹ _____
99	630	Traffic Control (Complete In Place)		Lump Sum	---	₹ _____
100	630	Flagging	1,000.	HR	₹ _____	₹ _____
101		Landscaping (per Summary of Approximate Quantities in Drawing Package)		Lump sum	---	₹ _____
102		Irrigation (per Summary of Approximate Quantities in Drawing Package)		Lump sum	---	₹ _____
103	INC	Incentive (Maximum 30 Days @ \$2500/Day)		---	---	<u>\$ 75,000.00</u>

Bid Schedule: 1st Street Reconstruction

Company Name: _____

Addendum #4

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
104	QC	Quality Control Testing		Lump Sum	---	\$ _____
105	GCC56	Weekly Newsletter (Approximately 50/ Week)		Lump Sum	---	\$ _____
106	108.2	15" RCP w/ 22 DEG bend	8.	LF	\$ _____	\$ _____
107	108.2	Import Trench Backfill (Pit Run)(Price to include haul and disposal of unsuitable excavated material)	450.	Tons	\$ _____	\$ _____
108	629	Plat Deposit (Per Property)	7.	EA	\$ _____	\$ _____
MCR		Minor Contract Revisions	---	---	---	\$ <u>100,000.00</u>

Bid Amount: \$ _____

Bid Amount:

_____ **dollars**

BID BOND

KNOW ALL MEN BY THESE PRESENTS,

that we, M.A. Concrete Construction, Inc. (_____ an individual,
_____ a partnership, a corporation incorporated in the State of CO) as Principal,
and Western Surety Company (incorporated in the
State of SD) as Surety, are held and firmly bound unto the City of Grand
Junction, Colorado, (hereinafter called "City") in the penal sum of Five Percent of Amount Bid
_____ dollars (\$ 5%), lawful money of the United States, for the
payment of which sum we bind ourselves, our heirs, executors, administrators, successors, and
assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that WHEREAS the Principal has
submitted the accompanying Bid dated February 1, 2017 for construction of 1st Street
Reconstruction (Ouray Ave. to North Ave.)

_____ (the Project) for the City and

WHEREAS, the City has required as a condition for receiving said Bid that the Principal deposit
with the City either a cashier's check or a certified check equivalent to not less than five percent of
the amount of said Bid or in lieu thereof furnish a Bid Bond for said amount conditioned that in
event of a failure to execute the proposed Contract for such construction and to provide the required
Performance and Payment Bonds and Insurance Certificates if the Contract be awarded to the
Bidder, that said sum be paid immediately to the City as Liquidated Damages and not as a penalty
for the Principal's failure to perform.

NOW, THEREFORE, if the Principal shall, within the period specified therefore, on the attached
prescribed forms presented to the Bidder for signature, enter into a written Contract with the City in
accordance with said Bid as accepted, and give Performance and Payment Bonds with good and
sufficient Surety, or Sureties, as may be required upon the forms prescribed by the City, for the
faithful performance and the proper fulfillment of said Contract, provide Certificates of Insurance
as required by said Contract, and provide all other information and documentation required by the
Contract Documents, then this obligation shall be void and of no effect, otherwise to remain in full
force and effect. In the event suit is brought upon this bond by the City and the City prevails, the
principal and surety shall pay all costs incurred by the City in such suit, including reasonable
attorneys' fees and costs to be fixed by the Court.

IN WITNESS WHEREOF, the above bound parties have executed this instrument under their several seals the name and corporate seal of each corporate party being hereto affixed and duly signed by its undersigned representative pursuant to authority of its governing board.

Dated this 1st day of February, 2017.

Principal: M.A. Concrete Construction, Inc.

Address: 2323 River Road

Grand Junction, CO 81505

Signed: By: *Martin Azcaraga*

Title: President



Surety: Western Surety Company

Address: 333 S. Wabash Ave.

Chicago, IL 60604

Signed: By: *Tina Marie Post*

Title: Tina Marie Post Attorney-in-Fact



INSTRUCTIONS FOR COMPLETING BID BOND

1. The full legal name and residence of each individual executing this Bond as Principal must be inserted in the first paragraph.
2. If the Principal is a partnership, the full name of the partnership and all individuals must be inserted in the first paragraph which must recite that individuals are partners composing the partnership, and all partners must execute the Bond as individuals.
3. The State of incorporation of each corporate Principal or Surety to the Bond must be inserted in the first paragraph and the Bond must be executed under the corporate seal of said party attested by its secretary or other appropriate officer.
4. Attach a copy of the power-of-attorney for the Surety's agent.

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Evan E Moody, Karen A Feggestad, Tina Marie Post, Bradley J Moody, David Dondlinger, Individually

of Denver, CO, its true and lawful Attorney(s) in Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 21st day of November, 2016



WESTERN SURETY COMPANY

Paul T. Bruflat
Paul T. Bruflat, Vice President

State of South Dakota }
County of Minnehaha } ss

On this 21st day of November, 2016, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation, that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires
June 23, 2021



J. Mohr
J. Mohr, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 1st day of February, 2017



WESTERN SURETY COMPANY

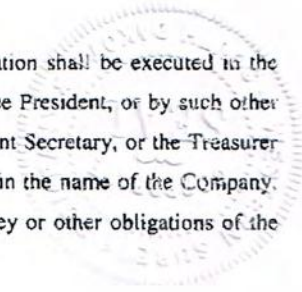
L. Nelson
L. Nelson, Assistant Secretary

Authorizing By-Law

ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

1/26/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Moody-Valley Insurance Agency 760 Horizon Drive, Suite 302 Grand Junction CO 81506		CONTACT NAME: Tina Post PHONE (A/C, No, Ext): (970) 248-8300 E-MAIL ADDRESS: tina.post@moodyins.com FAX (A/C, No): (970) 242-1894	
INSURED M. A. Concrete Construction, Inc. P. O. Box 1968 Grand Junction CO 81502		INSURER(S) AFFORDING COVERAGE INSURER A: BITCO Insurance Companies INSURER B: Continental Insurance Company INSURER C: Pinnacol Assurance INSURER D: INSURER E: INSURER F:	
		NAIC # 35289 41190	

COVERAGES **CERTIFICATE NUMBER:** 16/17 Client portal **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		CLP3646434	12/1/2016	12/1/2017	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Employee Benefits \$ 1,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS		CAP3646432	12/1/2016	12/1/2017	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Medical payments \$ 5,000
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000		CUP2810945	12/1/2016	12/1/2017	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ EACH OCCURRENCE \$ 3,000,000
B	<input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000		FFX6045636010- XS OVER UMB	12/1/2016	12/1/2017	EACH OCCURRENCE \$ 3,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/> N/A	4195192	9/1/2016	9/1/2017	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Bid Bond: 1st Street Reconstruction (Ouray Ave. to North Ave.)

CERTIFICATE HOLDER

City of Grand Junction
 250 N 5th Street
 Grand Junction, CO 81501

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Tina Post/TINPOS

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M.A. Concrete Construction, Inc.
2323 River Road
Grand Junction, CO 81505

Project Title	45.5 Road Improvements Phase III
Project Description	Install new road alignment, including 100' fills and new road section, to make it straighter and safer.
Company/Entity	Mesa County Transportation
Point of Contact	Scott Mai (970) 256-1580
Project Location	45.5 Road
Project Amount	\$ 1,568,687.00
Project Title	22 Road Realignment
Project Description	Realign road including new road section to avoid new diverging diamond on Highway 6 & 50.
Company/Entity	City of Grand Junction
Point of Contact	Lee Cooper (970) 589-4985
Project Location	22 Road & Highway 6 & 50
Project Amount	\$ 3,794,050.00
Project Title	CDOT Horizon Drive Roundabouts
Project Description	Install new roundabouts to help the flow of traffic
Company/Entity	Colorado Department of Transportation
Point of Contact	Eric Peterson (970) 216-1499
Project Location	Horizon Drive & I-70
Project Amount	\$ 5,037,533.00

4. Contractor's Bid Form

Bid Date: 2-1-17

Project: IFB-4321-17-DH "1st Street Reconstruction (Ouray Ave to North Ave.)"

Bidding Company: M.A. Concrete Construction, Inc.

Name of Authorized Agent: Martin Azcaraga

Email maconcreteandj@bresnan.net

Telephone 243-3221 Address 2323 River Road

City Grand Junction State CO Zip 81506

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.

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

State number of Addenda received: 1,2,3,4.

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: M.A. Concrete Construction, Inc.

Authorized Signature: Martin Azcaraga

Title: President

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>
<u>Elam Construction 556 Struthers</u>	<u>Asphalt</u>	<u>18</u>
<u>CC Enterprises G.T., CO</u>	<u>Traffic Control</u>	<u>55</u>
<u>Mays Concrete G.T., CO</u>	<u>Concrete</u>	<u>18.75</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.

Bid Schedule: 1st Street Reconstruction

Company Name: M.A. Concrete Construction Inc Addendum

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price
1	108.2	8" Storm Drain Pipe (RCP)	10.	LF	\$ 120.00
2	108.2	12" Storm Drain Pipe (RCP)	358.	LF	\$ 74.75
3	108.2	30" Storm Drain Pipe (RCP)	5.	LF	\$ 269.00
4	108.2	42" Storm Drain Pipe (RCP)	406.	LF	\$ 125.00
5	108.5	Connect to Existing Manhole	4.	EA	\$ 690.00
6	108.5	Adjust storm Manhole Rim to Finish Grade (Replace ring and cover with Watertight)	2.	EA	\$ 450.00
7	108.6	Storm Sewer Basic Manhole (48" I.D.)	1.	EA	\$ 1,800.00
8	108.6	Storm Manhole Cast in place Base (48" I.D.)(E1-232-014 total height 11.9 feet and D4252-031 total height 15 feet)(Price to include vertical height of 48" Barrel section manhole, Cone and Ring and cover)	2.	EA	\$ 3,480.00
9	108.6	Storm Manhole Drop (72" ID) (E1-231-014A)(total height 9.95 Feet)	1.	EA	\$ 5,965.00
10	108.6	Single Storm Drain Inlet (Large Area Inlet)	9.	EA	\$ 2,535.00
11	108.6	Single Storm Drain Inlet (Vertical Curb)	3.	EA	\$ 2,220.00
12	202	Removal of Asphalt Mat (Milling)(1"-8")	18,150.	SY	\$ 1.90

13	202	Removal of concrete. Remove concrete as shown* indicated by cross hatch pattern(includes but not limited to Saw Cutting, curb, gutter, sidewalks, driveways slabs v-pans, curb ramps, intersection corners and aprons)	2,711.	SY	\$	4.35
14	202	Remove Tree	9.	EA	\$	200.00
15	202	Removal of Bush	43.	EA	\$	36.00
16	202	Removal of Sod	4,900.	SF	\$	0.55
17	202	Removal of Manhole (Storm)	2.	EA	\$	690.00
18	202	Removal of Inlet	8.	EA	\$	400.00
19	202	Removal of Ground Sign	1.	EA	\$	80.00
20	202	Removal of Pipe (12" and Smaller)	305.	LF	\$	5.00
21	202	Removal of Pipe (18" and Larger)	75.	LF	\$	10.00
22	202	Abandon Pipe by plugging Open end	2.	EA	\$	290.00
23	202	Removal of wood border	171.	LF	\$	3.50
24	202	Removal of Parking Blocks	4.	EA	\$	80.00
25	202	Removal of Fence	64.	LF	\$	3.00
26	202	Remove post	7.	EA	\$	100.00
27	202	Remove business sign base (901 and 935 N 1st St and 2582 HWY 6 & 50)	5.	EA	\$	1,575.00
28	202	Remove Pole Foundation	1.	EA	\$	840.00
29	202	Remove Light Pole	2.	EA	\$	520.00
30	203	Potholing	Lump sum			
31	203	Unclassified Excavation	13,658.	CY	\$	5.30
32	203	Sweeping with Pick-up Broom	70.	HR	\$	100.00
33	203	Disposal of Radioactive Materials	250.	CY	\$	13.00
34	206	Structural Backfill (Flow fill)(as Required)	100.	CY	\$	75.00
35	208	Storm Drain Inlet Protection	14.	EA	\$	80.00
36	208	Concrete Washout Facility	4.	EA	\$	315.00

37	208	Vehicle track Pad	4.	EA	\$	550.00
38	208	Erosion Control (Complete In Place)	Lump sum			
39	209	Dust Abatement	120.	Day	\$	300.00
40	210	Reset Sprinkler System (Complete in Place)	6.	EA	\$	155.00
41	210	Reset Sign Panel	21.	EA	\$	140.00
42	210	Adjust Water Valve to Finish Grade	20.	EA	\$	36.00
43	210	Reset Fire Hydrant	1.	EA	\$	2,555.00
44	210	Adjust Water meter to Finished Grade	27.	EA	\$	260.00
45	210	Rest Backflow Preventer	3.	EA	\$	350.00
46	210	Temporary Sidewalk	100.	LF	\$	14.50
47	210	Adjust Manhole to Finished Grade	10.	EA	\$	470.00
48	210	Adjust SSCO to Finished Grade	23.	EA	\$	50.00
49	210	Reset Parking Blocks	6.	EA	\$	85.00
50	210	Reset Business (Sign) (Price to include new Base)	2.	EA	\$	4,135.00
51	210	Reference and Reset Monitoring Well Covers(Protect Monitoring Well in Place)	9.	EA	\$	315.00
52	212	Sod (Behind BOW to restore sodded areas	2,205.	SF	\$	0.68
53	213	Inorganic mulch (behind BOW to restore Xeriscape or gravel driveway)(4" Deep)	17.	CY	\$	92.10
54	304	Subgrade Stabilization (Class 3 ABC)14" Thick(Road Prism)(1st Street)	10,400.	SY	\$	10.00
55	304	Aggregate Base Course (Class 6)(12" Thick)(1st St and North Ave)	10,700.	SY	\$	9.25
56	304	Aggregate Base Course (Class 6)(6" thick) (Paving behind BOW to Restore Driveways and parking)(FOR HMA ONLY)	1,150.	SY	\$	6.80
57	304	Aggregate Base Course (Class 6)(12" Thick)(Connector Roads)	1,250.	SY	\$	10.50

58	401	Hot Mix Asphalt (3" Thick)(Grading SX-75)(Binder 64-22)(Bottom Mat Connector Roads)	10,700.	SY	\$	15.30
59	401	Hot Mix Asphalt (2" Thick)(Grading SX-75)(Binder 76-28)(Top Mat Connector Roads)	10,700.	SY	\$	11.00
60	401	Hot Mix Asphalt (3" Thick)(Grading SX-75)(Binder 64-22)(Bottom Mat Connector Roads)	1,250.	SY	\$	19.80
61	401	Hot Mix Asphalt (2" Thick)(Grading SX-75)(Binder 76-28)(Top Mat Connector Roads)	1,250.	SY	\$	14.15
62	401	Hot Mix Asphalt (2" Thick) (Overlay Fuoco DWY)	800.	SY	\$	12.54
63	401	Hot Mix Asphalt Grade Transition from Back of Curb to Existing Pavement Grade (Grading SX-75)(Binder 64-22)(Fuoco Driveway)	35.	TON	\$	176.00
64	401	Hot Mix Asphalt (4" Thick) (Grading SX-75)(Binder 64-22)(2ea 2"Lifts)(Paving Behind Back of Walk to restore Drives and Parking)	1,150.	SY	\$	25.50
65	412	Colored Concrete Pavement (Parking)(Class D)(8" Thick) (Omaha Tan)(Davis Color 5084)(Price to Include 4" Class 6 Aggregate Base Course)	1,190.	SY	\$	63.00
66	412	Concrete Pavement (Alley)(Class D)(8" Thick)(Price to Include 4" Class 6 Aggregate Base Course)	250.	SY	\$	57.50
67	412	Concrete Pavement (Paving Behind Back of Walk to restore Drives and Parking)(Class D)(6" Thick)(Price to Include 4" Class 6 Aggregate Base Course)	65.	SY	\$	65.20
68	420	Geogrid (TriAxial)	1,000.	SY	\$	3.25
69	608	Concrete Drainage Pan (1.5' Wide)	5.	LF	\$	81.25
70	608	Concrete Drainage Pan (3' Wide)	35.	LF	\$	59.65
71	608	Concrete Drainage Pan (6' Wide)	180.	LF	\$	51.80
72	608	Concrete Curb (6" wide)	2,090.	LF	\$	27.25

73	608	Concrete Curb with Spill Gutter (1.5' Wide)	510.	LF	\$	25.25
74	608	Concrete Curb and Gutter (2' Wide)	1,350.	LF	\$	21.75
75	608	Concrete Curb and Gutter (2.5' Wide)	25.	LF	\$	52.50
76	608	Concrete Drive Over Curb and Gutter (3' Wide)	470.	LF	\$	27.25
77	608	Concrete Sidewalk (4" Thick)	2,710.	SY	\$	37.30
78	608	Monolithic Curb Gutter and Sidewalk (7' Wide)	25.	SY	\$	71.00
79	608	Monolithic Curb Gutter and Sidewalk (10' Wide)	300.	SY	\$	42.00
80	608	Concrete Curb Ramp (8" thick)	255.	SY	\$	70.30
81	608	Concrete Driveway Section (8" Thick)	1,690.	SY	\$	58.00
82	608	Concrete Intersection Corner	340.	SY	\$	85.50
83	608	Concrete Median Edging 1.5' Wide(Sunset Rose)(Davis Color 160)	410.	LF	\$	16.40
84	608	Detectable Warning (Wet Set) (2'X2")	65.	EA	\$	115.75
85	613	Large Splice Box (Quasite 24X36)(Labeled "FIBER")	8.	EA	\$	1,255.00
86	613	Splice Box (Quasite 13X24X15)(Labeled "Fiber")	8.	EA	\$	1,165.00
87	613	Large Splice Box (48" Manhole Cone Section on Blocks)(Price to include Manhole Ring and Cover labeled "TRAFFIC")	7.	EA	\$	1,680.00
88	613	6" Diameter SCH 80 PVC Conduit Duct (With a standard 8KN pull rope pre installed and #10 tracing wire)(to be installed in common trench)	2,500.	LF	\$	9.40
89	613	2" Diameter SCH 80 PVC Conduit Duct (With a standard 8KN pull rope pre installed and #10 tracing wire)(to be installed in common trench)	4,300.	LF	\$	3.15
90	613	Electrical Utility Trench (24" Wide X 30" Deep) (Including Backfill Material Per Special Provisions)	2,500.	LF	\$	9.00

91	620	Sanitary Facility	Lump sum			
92	625	Construction Surveying	Lump sum			
93	626	Mobilization	Lump sum			
94	627	Preformed Thermoplastic Pavement Markings (Word Symbol)	360.	SF	\$	12.50
95	627	Preformed Thermoplastic Pavement Markings (X-Walk/Stop Bar)	2,200.	SF	\$	10.50
96	629	Reference and Reset Survey Monuments	7.	EA	\$	315.00
97	629	Set Property Pin Per Legal Description	19.	EA	\$	215.00
98	630	Traffic Control Plan	Lump Sum			
99	630	Traffic Control (Complete In Place)	Lump Sum			
100	630	Flagging	1,000.	HR	\$	26.50
101		Landscaping (per Summary of Approximate Quantities in Drawing Package)	Lump sum			
102		Irrigation (per Summary of Approximate Quantities in Drawing Package)	Lump sum			
103	INC	Incentive (Maximum 30 Days @ \$2500/Day)	---	---		---
104	QC	Quality Control Testing	Lump Sum			
105	GCC56	Weekly Newsletter (Approximately 50/Week)	Lump sum			---
106	108.2	15" RCP w/ 22 DEG bend	8.	LF	\$	220.00
107	108.2	Import Trench Backfill (Pit Run)(Price to include haul and disposal of unsuitable excavated material)	450.	Tons	\$	14.00
108	629	Plat Deposit (Per Property)	7.	EA	\$	10.00
MCR		Minor Contract Revisions	---	---		---

Bid Amount:

\$ 2,102,134.60

Bid Amount:

Two Million One hundred two thousand one hundred thirty four and 60/100.

im #4

Total Price

\$ 1,200.00

\$ 26,760.50

\$ 1,345.00

\$ 50,750.00

\$ 2,760.00

\$ 900.00

\$ 1,800.00

\$ 6,960.00

\$ 5,965.00

\$ 22,815.00

\$ 6,660.00

\$ 34,485.00

\$ 11,792.85

\$ 1,800.00

\$ 1,548.00

\$ 2,695.00

\$ 1,380.00

\$ 3,200.00

\$ 80.00

\$ 1,525.00

\$ 750.00

\$ 580.00

\$ 598.50

\$ 320.00

\$ 192.00

\$ 700.00

\$ 7,875.00

\$ 840.00

\$ 1,040.00

\$ 2,000.00

\$ 72,387.40

\$ 7,000.00

\$ 3,250.00

\$ 7,500.00

\$ 1,120.00

\$ 1,260.00

\$ 2,200.00
\$ 2,500.00
\$ 36,000.00
\$ 930.00

\$ 2,940.00
\$ 720.00
\$ 2,555.00
\$ 7,020.00

\$ 1,050.00
\$ 1,450.00
\$ 4,700.00
\$ 1,150.00
\$ 510.00
\$ 8,270.00
\$ 2,835.00

\$ 1,499.40

\$ 1,565.70

\$ 104,000.00

\$ 98,975.00

\$ 7,820.00

\$ 13,125.00

\$ 163,710.00

\$ 117,700.00

\$ 24,750.00

\$ 17,687.50

\$ 10,032.00

\$ 6,160.00

\$ 29,325.00

\$ 74,970.00

\$ 14,375.00

\$ 4,238.00

\$ 3,250.00

\$ 406.25

\$ 2,087.75

\$ 9,324.00

\$ 56,952.50

\$ 12,877.50

\$ 29,362.50

\$ 1,312.50

\$ 12,807.50

\$ 101,083.00

\$ 1,775.00

\$ 12,600.00

\$ 17,926.50

\$ 98,020.00

\$ 29,070.00

\$ 6,724.00

\$ 7,523.75

\$ 10,040.00

\$ 9,320.00

\$ 11,760.00

\$ 23,500.00

\$ 13,545.00

\$ 22,500.00

\$ 670.00

\$ 24,600.00

\$ 61,500.00

\$ 4,500.00

\$ 23,100.00

\$ 2,205.00

\$ 4,085.00

\$ 630.00

\$ 90,000.00

\$ 26,500.00

\$ 62,850.00

\$ 43,500.00

\$ 75,000.00

\$ 22,000.00

\$ 500.00

\$ 1760.00

\$ 6300.00

\$ 7000

\$ 100,000.00

2,094,004.6

+ 8,130.00

2,102,134.60

dollars