



### NOTICE TO PROCEED

Date: August 2, 2021  
Contractor: M.A. Concrete Construction, Inc.  
Project: 2021 Phase A Sewer Replacements – UnawEEP Avenue IFB-4922-21-DH

In accordance with the contract dated July 22, 2021 the Contractor is hereby notified to begin work on the Project on or before August 12, 2021.

The date of final completion as determined is 141 calendar days from the start date of this Notice to Proceed (Note: this timeframe includes both the original 90 calendar days, as per the solicitation documents, and an additional 51 calendar days that will be established through an upcoming change order, due to uncharacteristically extensive materials lead times).

### CITY OF GRAND JUNCTION, COLORADO

DocuSigned by:  
Duane Hoff Jr., Senior Buyer - City of Grand Junction  
9F709E7D50F44BC...  
Duane Hoff Jr., Senior Buyer

Receipt of this Notice to Proceed is hereby acknowledged:

Contractor: M.A. Concrete Construction, Inc.

By: DocuSigned by:  
Andy Azcarraga - M.A. Concrete Construction, Inc.  
E5B238CA743E437...

Print Name: Andy Azcarraga - M.A. Concrete Construction, Inc.

Title: Project Manager

Date: 8/2/2021 | 10:57 MDT



CITY OF GRAND JUNCTION, COLORADO

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CONTRACT

This CONTRACT made and entered into this 22nd day of July, 2021 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 2021 Phase A Sewer Replacements – UnawEEP Avenue IFB-4922-21-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; 2021 Phase A Sewer Replacements – UnawEEP Avenue;
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 Thirty-Eight Thousand Four Hundred Fifty-One and 53/100 Dollars (\$2,138,451.53)**. 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 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:  
 By: Duane Hoff Jr., Senior Buyer- City of Grand Junction 7/22/2021 | 11:44 MDT  
9E789E7D50E14BC...  
 Title: Sr. Buyer      Duane Hoff Jr., Senior Buyer- City of Grand Junction      Date

**M.A. Concrete Construction, Inc.**

DocuSigned by:  
 By: Andy Azcarraga - M.A. Concrete Construction, Inc. 7/22/2021 | 11:41 MDT  
BDB0484798434E5...  
 Andy Azcarraga - M.A. Concrete Construction, Inc.      Project Manager      Date



**NOTICE OF AWARD**

Date: July 22, 2021  
Company: M.A. Concrete Construction, Inc.  
Project: 2021 Phase A Sewer Replacements – UnawEEP Avenue IFB-4922-21-DH

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You have been awarded the City of Grand Junction 2021 Phase A Sewer Replacements – UnawEEP Avenue IFB-4922-21-DH for a total price of **\$2,138,451.50**.

Please notify Anna Purtscher, City of Grand Junction Project Engineer 970-244-1559 for project scheduling, and return to the City Purchasing Division an acknowledged copy of this Notice of Award, signed Contract, Payment & Performance Bonds, and Insurance Certificate, as per the contract documents.

CITY OF GRAND JUNCTION, COLORADO

DocuSigned by:  
*Duane Hoff Jr., Senior Buyer - City of Grand Junction*  
9F709E7D50F414DC...  
Duane Hoff Jr., Senior Buyer

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**SUPPLIER ACKNOWLEDGEMENT**

Receipt of this Notice to Award is hereby acknowledged:

Company: M.A. Concrete Construction, Inc.

By: DocuSigned by:  
*Andy Azcarraga - M.A. Concrete Construction*  
BDB0484788134E5... Andy Azcarraga - M.A. Concrete Construction,

Title: Project Manager

Date: 7/22/2021 | 11:41 MDT



**Purchasing Division**

## **Invitation for Bid**

IFB-4922-21-DH  
2021 Phase A Sewer Replacements – UnawEEP Avenue

### **Responses Due:**

July 6, 2021 prior to 3:00pm

**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)**

**NOTE: All City solicitation openings will continue to be held virtually.**

### **Purchasing Representative:**

Duane Hoff, Senior Buyer

**[duaneh@gjcity.org](mailto: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 required 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**

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Section 2	General Contract Conditions
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Section 4	Contractor's Bid Form
	Price Proposal/Bid Schedule Form
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# **1. Instructions to Bidders**

**NOTE:** It is the Contractor's responsibility to read and review all solicitation documentation in its entirety, and to ensure that they have a clear and complete understanding of not only the scope, specifications, project requirements, etc., but also all other requirements, instructions, rules, regulations, laws, conditions, statements, procurement policies, etc. that are associated with the solicitation process and project/services being solicited.

- 1.1. Purpose:** The City of Grand Junction is soliciting competitive bids from qualified and interested companies for all labor, equipment, and materials required for the 2021 Phase A Sewer Replacements – Unawep Ave. project. All dimensions and scope of work should be verified by Contractors prior to submission of bids.

**IFB Questions:**

Duane Hoff, Senior Buyer  
[duaneh@gjcity.org](mailto:duaneh@gjcity.org)  
970-244-1545

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

- 1.2. Mandatory Pre-Bid Meeting:** Prospective bidders are required to attend a mandatory pre-bid meeting on June 16, 2020 at 10:00am. Meeting location shall be in the City Hall Auditorium, located at 250 N. 5<sup>th</sup> Street, Grand Junction, CO. The purpose of this visit will be to inspect and to clarify the contents of this Invitation for Bids (IFB).

**NOTE:** Bidders that arrive more than 10 minutes late to the meeting shall not be eligible to submit a bid response to this solicitation process for this project.

- 1.3. The Owner:** The Owner is the City of Grand Junction, Colorado and is referred to throughout this Solicitation. The term Owner means the Owner or his authorized representative.
- 1.4. Procurement Process:** Procurement processes shall be governed by the most current version of the City of Grand Junction [Purchasing Policy and Procedure Manual](#).
- 1.5. Submission:** Each bid shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (<https://www.rockymountainbidssystem.com/default.asp>). *This site offers both “free” and “paying” registration options that allow for full access of the Owner’s documents and for electronic submission of proposals. (Note: “free” registration may take up to 24 hours to process. Please Plan accordingly.)* Please view our “**Electronic Vendor Registration**

**Guide”** at <http://www.gjcity.org/business-and-economic-development/bids/> for details. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline. **800-835-4603**)

Please join Solicitation Opening, IFB-4922-21-DH, 2021 Phase A Sewer Replacements - Unawep Avenue on GoToConnect from your computer using the Chrome browser. <https://app.goto.com/meet/442259341>  
You can also dial in using your phone.  
US: (646) 749-3335

Access Code: 442-259-341

- 1.6. **Modification and Withdrawal of Bids Before Opening.** Bids may be modified or withdrawn by an appropriate document stating such, duly executed and submitted to the place where Bids are to be submitted at any time prior to Bid Opening.
- 1.7. **Printed Form for Price Bid:** All Price Bids must be made upon the Price Bid Schedule attached, and should give the amounts both in words and in figures, and must be signed and acknowledged by the bidder.

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

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

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

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

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

All names must be typed or printed below the signature.

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

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

- 1.8. Exclusions:** No oral, telephonic, emailed, or facsimile bid will be considered
- 1.9. Contract Documents:** The complete IFB and bidder's response compose the Contract Documents. Copies of bid documents can be obtained from the City Purchasing website, <http://www.gjcity.org/business-and-economic-development/bids/> .
- 1.10. Additional Documents:** The July 2010 edition of the "City Standard Contract Documents for Capital Improvements Construction", Plans, Specifications and other Bid Documents are available for review or download on the Public Works & Planning/Engineering page at [www.gjcity.org](http://www.gjcity.org). Electronic copies may be obtained on a CD format at the Department of Public Works and Planning at City Hall.
- 1.11. Definitions and Terms:** See Article I, Section 3 of the General Contract Conditions in the *Standard Contract Documents for Capital Improvements Construction*.
- 1.12. Examination of Specifications:** Bidders shall thoroughly examine and be familiar with the project Statement of Work. The failure or omission of any Offeror to receive or examine any form, addendum, or other document shall in no way relieve any Offeror from any obligation with respect to his bid. The submission of a bid shall be taken as evidence of compliance with this section. Prior to submitting a bid, each Offeror shall, at a minimum:
- a. Examine the *Contract Documents* thoroughly;
  - b. Visit the site to familiarize themselves with local conditions that may in any manner affect cost, progress, or performance of the Work;
  - c. Become familiar with federal, state, and local laws, ordinances, rules, and regulations that may in any manner affect cost, progress or performance of the Work;
  - d. Study and carefully correlate Bidder's observations with the *Contract Documents*, and;
  - e. Notify the Purchasing Agent of all conflicts, errors, ambiguities or discrepancies in or among the *Contract Documents* within the designated inquiry period.

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

upon completion of such exploration. The Owner reserves the right to require the Offeror to execute an access agreement with the Owner prior to accessing the site.

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

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

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

- 1.13. **Questions Regarding Statement of Work:** Any information relative to interpretation of Scope of Work or specifications shall be requested of the Purchasing Representative, in writing, in ample time, prior to the inquiry deadline.
- 1.14. **Addenda & Interpretations:** If it becomes necessary to revise any part of this solicitation, a written addendum will be posted electronically on the City's website at <http://www.gjcity.org/business-and-economic-development/bids/>. The Owner is not bound by any oral representations, clarifications, or changes made in the written specifications by Owner, unless such clarification or change is provided in written addendum form from the City Purchasing Representative.
- 1.15. **Taxes:** The Owner is exempt from State retail and Federal tax. The bid price must be net, exclusive of taxes.
- 1.16. **Sales and Use Taxes:** The Contractor and all Subcontractors are required to obtain exemption certificates from the Colorado Department of Revenue for sales and use taxes in accordance with the provisions of the General Contract Conditions. Bids shall reflect this method of accounting for sales and use taxes on materials, fixtures and equipment.
- 1.17. **Offers Binding 60 Days:** Unless additional time is required by the Owner, or otherwise specified, all formal offers submitted shall be binding for sixty (60) calendar days following opening date, unless the Bidder, upon request of the Purchasing Representative, agrees to an extension.
- 1.18. **Exceptions and Substitutions:** Bidders taking exception to the specifications and/or scope of work shall do so at their own risk. The Owner reserves the right to accept or reject any or all substitutions or alternatives. When offering substitutions and/or alternatives, Bidder must state these exceptions in the section pertaining to that area. Exception/substitution, if accepted, must meet or exceed the stated intent and/or specifications and/or scope of work. The absence of such a list shall indicate that the

Bidder has not taken exceptions, and if awarded a contract, shall hold the Bidder responsible to perform in strict accordance with the specifications and/or scope of work contained herein.

- 1.19. Collusion Clause:** Each bidder by submitting a bid certifies that it is not party to any collusive action or any action that may be in violation of the Sherman Antitrust Act. Any and all bids shall be rejected if there is evidence or reason for believing that collusion exists among bidders. The Owner may, or may not, accept future bids for the same services or commodities from participants in such collusion.
- 1.20. Disqualification of Bidders:** A Bid will not be accepted from, nor shall a Contract be awarded to, any person, firm, or corporation that is in arrears to the Owner, upon debt or contract, or that has defaulted, as surety or otherwise, upon any obligation to the Owner, or that is deemed irresponsible or unreliable.

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

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

- a. More than one Bid is submitted for the same Work from an individual, firm, or corporation under the same or different name; and
  - b. Evidence of collusion among Bidders. Any participant in such collusion shall not receive recognition as a Bidder for any future work of the Owner until such participant has been reinstated as a qualified bidder.
- 1.21. Public Disclosure Record:** If the bidder has knowledge of their employee(s) or sub-contractors having an immediate family relationship with a City employee or elected official, the bidder must provide the Purchasing Representative with the name(s) of these individuals. These individuals are required to file an acceptable "Public Disclosure Record", a statement of financial interest, before conducting business with the City.

## **2. General Contract Conditions for Construction Projects**

- 2.1. The Contract:** This Invitation for Bid, submitted documents, and any negotiations, when properly accepted by the City, shall constitute a contract equally binding between the City and Contractor. The contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral. The contract may be amended or modified with Change Orders, Field Orders, or Addendums.
- 2.2. The Work:** The term Work includes all labor necessary to produce the construction required by the Contract Documents, and all materials and equipment incorporated or to be incorporated in such construction.

- 2.3. Execution, Correlation, Intent, and Interpretations:** The Contract Documents shall be signed by the Owner (City) and Contractor. City will provide the contract. By executing the contract, the Contractor represents that he/she has visited the site, familiarized himself with the local conditions under which the Work is to be performed, and correlated his observations with the requirements of the Contract Documents. The Contract Documents are complementary, and what is required by any one, shall be as binding as if required by all. The intention of the documents is to include all labor, materials, equipment and other items necessary for the proper execution and completion of the scope of work as defined in the technical specifications and drawings contained herein. All drawings, specifications and copies furnished by the City are, and shall remain, City property. They are not to be used on any other project, and with the exception of one contract set for each party to the contract, are to be returned to the owner on request at the completion of the work.
- 2.4. The Owner:** The Owner is the City of Grand Junction, Colorado and is referred to throughout the Contract Documents. The term Owner means the Owner or his authorized representative. The Owner shall, at all times, have access to the work wherever it is in preparation and progress. The Contractor shall provide facilities for such access. The Owner will make periodic visits to the site to familiarize himself generally with the progress and quality of work and to determine, in general, if the work is proceeding in accordance with the contract documents. Based on such observations and the Contractor's Application for Payment, the Owner will determine the amounts owing to the Contractor and will issue Certificates for Payment in such amounts, as provided in the contract. The Owner will have authority to reject work which does not conform to the Contract documents. Whenever, in his reasonable opinion, he considers it necessary or advisable to insure the proper implementation of the intent of the Contract Documents, he will have authority to require the Contractor to stop the work or any portion, or to require special inspection or testing of the work, whether or not such work can be then be fabricated, installed, or completed. The Owner will not be responsible for the acts or omissions of the Contractor, and sub-Contractor, or any of their agents or employees, or any other persons performing any of the work.
- 2.5. Contractor:** The Contractor is the person or organization identified as such in the Agreement and is referred to throughout the Contract Documents. The term Contractor means the Contractor or his authorized representative. The Contractor shall carefully study and compare the General Contract Conditions of the Contract, Specification and Drawings, Scope of Work, Addenda and Modifications and shall at once report to the Owner any error, inconsistency or omission he may discover. Contractor shall not be liable to the Owner for any damage resulting from such errors, inconsistencies or omissions. The Contractor shall not commence work without clarifying Drawings, Specifications, or Interpretations.
- 2.6. Sub-Contractors:** A sub-contractor is a person or organization who has a direct contract with the Contractor to perform any of the work at the site. The term sub-contractor is referred to throughout the contract documents and means a sub-contractor or his authorized representative.
- 2.7. Award of Sub-Contractors & Other Contracts for Portions of the Work:** Contractor shall submit with their bid response to the Owner, in writing for acceptance, a list of the

names of the sub-contractors or other persons or organizations proposed for such portions of the work as may be designated in the proposal requirements, or, if none is so designated, the names of the sub-contractors proposed for the principal portions of the work. Prior to the award of the contract, the Owner shall notify the successful Contractor in writing if, after due investigation, has reasonable objection to any person or organization on such list. If, prior to the award of the contract, the Owner has a reasonable and substantial objection to any person or organization on such list, and refuses in writing to accept such person or organization, the successful Contractor may, prior to the award, withdraw their proposal without forfeiture of proposal security. If the successful Contractor submits an acceptable substitute with an increase in the proposed price to cover the difference in cost occasioned by the substitution, the Owner may, at their discretion, accept the increased proposal or may disqualify the Contractor. If, after the award, the Owner refuses to accept any person or organization on such list, the Contractor shall submit an acceptable substitute and the contract sum shall be increased or decreased by the difference in cost occasioned by such substitution and an appropriate Change Order shall be issued. However, no increase in the contract sum shall be allowed for any such substitution unless the Contractor has acted promptly and responsively in submitting a name with respect thereto prior to the award.

- 2.8. Quantities of Work and Unit Price:** Materials or quantities stated as unit price items in the Bid are supplied only to give an indication of the general scope of the Work, and are as such, estimates only. The Owner does not expressly or by implication agree that the actual amount of Work or material will correspond therewith, and reserves the right after award to increase or decrease the quantity of any unit item of the Work without a change in the unit price except as set forth in Article VIII, Section 70 of the *General Contract Conditions*. The City also reserves the right to make changes in the Work (including the right to delete any bid item in its entirety or add additional bid items) as set forth in Article VIII, Sections 69 through 71 of the *General Contract Conditions*.
- 2.9. Substitutions:** The materials, products and equipment described in the *Solicitation Documents* shall be regarded as establishing a standard of required performance, function, dimension, appearance, or quality to be met by any proposed substitution. No substitution will be considered prior to receipt of Bids unless the Offeror submits a written request for approval to the City Purchasing Division at least ten (10) days prior to the date for receipt of Bids. Such requests for approval shall include the name of the material or equipment for which substitution is sought and a complete description of the proposed substitution including drawings, performance and test data, and other information necessary for evaluation, including samples if requested. The Offeror shall set forth changes in other materials, equipment, or other portions of the Work including changes of the work of other contracts, which incorporation of the proposed substitution would require to be included. The Owner's decision of approval or disapproval of a proposed substitution shall be final. If the Owner approves a proposed substitution before receipt of Bids, such approval will be set forth in an Addendum. Offerors shall not rely upon approvals made in any other manner.
- 2.10. Supervision and Construction Procedures:** The Contractor shall supervise and direct the work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract.

- 2.11. Warranty:** The Contractor warrants to the Owner that all materials and equipment furnished under this contract will be new unless otherwise specified, and that all work will be of good quality, free from faults and defects and in conformance with the Contract Documents. All work not so conforming to these standards may be considered defective. If required by Owner, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. If within ten (10) days after written notice to the Contractor requesting such repairs or replacement, the Contractor should neglect to make or undertake with due diligence to the same, the City may make such repairs or replacements. All indirect and direct costs of such correction or removal or replacement shall be at the Contractor's expense. The Contractor will also bear the expenses of making good all work of others destroyed or damaged by the correction, removal or replacement of his defective work.
- 2.12. Permits, Fees, & Notices:** The Contractor shall secure and pay for all permits, governmental fees and licenses necessary for the proper execution and completion of the work. The Contractor shall give all notices and comply with all laws, ordinances, rules, regulations and orders of any public authority bearing on the performance of the work. If the Contractor observes that any of the Contract Documents are at variance in any respect, he shall promptly notify the Owner in writing, and any necessary changes shall be adjusted by approximate modification. If the Contractor performs any work knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the Owner, he shall assume full responsibility and shall bear all costs attributable.
- 2.13. Responsibility for Those Performing the Work:** The Contractor shall be responsible to the Owner for the acts and omissions of all his employees and all sub-contractors, their agents and employees, and all other persons performing any of the work under a contract with the Contractor.
- 2.14. Use of the Site:** The Contractor shall confine operations at the site to areas permitted by law, ordinances, permits and the Contract Documents, and shall not unreasonably encumber the site with any materials or equipment.
- 2.15. Cleanup:** The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of work he shall remove all his waste materials and rubbish from and about the project, as well as all his tools, construction equipment, machinery and surplus materials.
- 2.16. Insurance:** The Contractor shall secure and maintain such insurance policies as will provide the coverage and contain other provisions specified in the General Contract Conditions, or as modified in the Special Contract Conditions.

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



- 2.17. Indemnification:** The Contractor shall defend, indemnify and save harmless the Owner, and all its officers, employees, insurers, and self-insurance pool, from and against all liability, suits, actions, or other claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of any negligent act or fault of the Contractor, or of any Contractor's agent, employee, sub-contractor or supplier in the execution of, or performance under, any contract which may result from proposal award. Contractor shall pay any judgment with cost which may be obtained against the Owner growing out of such injury or damages.
- 2.18. Miscellaneous Conditions: Material Availability:** Contractors must accept responsibility for verification of material availability, production schedules, and other pertinent data prior to submission of bid. It is the responsibility of the bidder to notify the Owner immediately if materials specified are discontinued, replaced, or not available for an extended period of time. **OSHA Standards:** All bidders agree and warrant that services performed in response to this invitation shall conform to the standards declared by the US Department of Labor under the Occupational Safety and Health Act of 1970 (OSHA). In the event the services do not conform to OSHA standards, the Owner may require the services to be redone at no additional expense to the Owner.
- 2.19. Time:** Time is of the essence with respect to the time of completion of the Project and any other milestones or deadline which are part of the Contract. It will be necessary for each Bidder to satisfy the City of its ability to complete the Work within the Contract Time set forth in the Contract Documents. The Contract Time is the period of time allotted in the Contract Documents for completion of the work. The date of commencement of the work is the date established in a Notice to Proceed. If there is no Notice to Proceed, it shall be the date of the Contract or such other date as may be established therein, or as established as entered on the Bid Form. The Date of Final Completion of the work is the date certified by the Owner when all construction, and all other work associated to include, but not be limited to: testing, QA/QC, receipt of required reports and/or forms, grant requirements (if applicable), punch list items, clean-up, receipt of drawings and/or as-builts, etc., is fully complete, and in accordance with the Contract Documents.
- 2.20. Progress & Completion:** The Contractor shall begin work on the date of commencement as defined in the Contract, and shall carry the work forward expeditiously with adequate forces and shall complete it within the contract time.
- 2.21. Payment & Completion:** The Contract Sum is stated in the Contract and is the total amount payable by the Owner to the Contractor for the performance of the work under the Contract Documents. Upon receipt of written notice that the work is ready for final inspection and acceptance and upon receipt of application for payment, the Owner's Project Manager will promptly make such inspection and, when he finds the work acceptable under the Contract Documents and the Contract fully performed, the Owner shall make payment in the manner provided in the Contract Documents.
- 2.22. Bid Bond:** Each Bid shall as a guaranty of good faith on the part of the Bidder be accompanied by a Bid Guaranty consisting of: a certified or cashier's check drawn on an approved national bank or trust company in the state of Colorado, and made payable without condition to the City; or a **Bid Bond** written by an approved corporate surety in

favor of the City. The amount of the Bid Guaranty shall not be less than 5% of the total Bid amount. Once a Bid is accepted and a Contract is awarded, the apparent successful bidder has ten calendar days to enter into a contract in the form prescribed and to furnish the bonds with a legally responsible and approved surety. Failure to do so will result in forfeiture of the Bid Guaranty to the City as Liquidated Damages.

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

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

elsewhere, this provision does not apply for delays caused by the City. The date for Final Completion may be extended in writing by the Owner.

The Contractor agrees that as a part of the consideration for the City's awarding of this Contract liquidated damages in the daily amount of **\$1,000.00** 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 fully complete. Final Completion date is the date by which the Contractor shall have fully completed all clean-up, and all items that were identified by the City in the inspection for final completion. Unless otherwise stated in the Special Conditions, for purposes of this liquidated damages clause, the Work shall not be finished and the Contract time shall continue to accrue until the City gives its written Final Acceptance.

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

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

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

**2.27. Contingency/Force Account/Minor Contract Revisions:** Contingency/Force Account/Minor Contract Revisions 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/Minor Contract Revisions Authorization will be directed by the Owner through an approved form. Contingency/Force Account/Minor Contract Revisions funds are the property of the Owner and any Contingency/Force Account/Minor Contract Revisions funds, not required for project completion, shall remain the property of the Owner. Contractor is not entitled to any Contingency/Force Account/Minor Contract Revisions funds, that are not authorized by Owner or Owner's Project Manager.

- 2.28. Protection of Persons & Property:** The Contractor shall comply with all applicable laws, ordinances, rules, regulations and orders of any public authority having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. Contractor shall erect and maintain, as required by existing safeguards for safety and protection, and all reasonable precautions, including posting danger signs or other warnings against hazards promulgating safety regulations and notifying owners and users of adjacent utilities. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct by the Contractor in the execution of the work, or in consequence of the non-execution thereof by the Contractor, he shall restore, at his own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding, or otherwise restoring as may be directed, or it shall make good such damage or injury in an acceptable manner.
- 2.29. Changes in the Work:** The Owner, without invalidating the contract, may order changes in the work within the general scope of the contract consisting of additions, deletions or other revisions, the contract sum and the contract time being adjusted accordingly. All such changes in the work shall be authorized by Change Order and shall be executed under the applicable conditions of the contract documents. A Change Order is a written order to the Contractor signed by the Owner issued after the execution of the contract, authorizing a change in the work or an adjustment in the contract sum or the contract time. The contract sum and the contract time may be changed only by Change Order.
- 2.30. Claims for Additional Cost or Time:** If the Contractor wishes to make a claim for an increase in the contract sum or an extension in the contract time, he shall give the Owner written notice thereof within a reasonable time after the occurrence of the event giving rise to such claim. This notice shall be given by the Contractor before proceeding to execute the work, except in an emergency endangering life or property in which case the Contractor shall precede in accordance with the regulations on safety. No such claim shall be valid unless so made. Any change in the contract sum or contract time resulting from such claim shall be authorized by Change Order.
- 2.31. Minor Changes in the Work:** The Owner shall have authority to order minor changes in the work not involving an adjustment in the contract sum or an extension of the contract time and not inconsistent with the intent of the contract documents.
- 2.32. Field Orders:** The Owner may issue written Field Orders which interpret the Contract Documents in accordance with the specifications, or which order minor changes in the work in accordance with the agreement, without change in the contract sum or time. The Contractor shall carry out such Field Orders promptly.

- 2.33. Uncovering & Correction of Work:** The Contractor shall promptly correct all work rejected by the Owner as defective or as failing to conform to the contract documents whether observed before or after substantial completion and whether or not fabricated installed or completed. The Contractor shall bear all costs of correcting such rejected work, including the cost of the Owner's additional services thereby made necessary. If within one (1) year after the date of completion or within such longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the contract documents, any of the work found to be defective or not in accordance with the contract documents, the Contractor shall correct it promptly after receipt of a written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discover of condition. All such defective or non-conforming work under the above paragraphs shall be removed from the site where necessary and the work shall be corrected to comply with the contract documents without cost to the Owner. The Contractor shall bear the cost of making good all work of separate Contractors destroyed or damaged by such removal or correction. If the Owner prefers to accept defective or non-conforming work, he may do so instead of requiring its removal and correction, in which case a Change Order will be issued to reflect an appropriate reduction in the payment or contract sum, or, if the amount is determined after final payment, it shall be paid by the Contractor.
- 2.34. 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.
- 2.35. 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.
- 2.36. 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.
- 2.37. 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.
- 2.38. Conflict of Interest:** No public official and/or City/County employee shall have interest in any contract resulting from this IFB.
- 2.39. 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.
- 2.40. Employment Discrimination:** During the performance of any services per agreement with the Owner, the Contractor, by submitting a Bid, agrees to the following conditions:

- 2.40.1.** 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.
- 2.40.2.** 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.
- 2.40.3.** 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.
- 2.41. Affirmative Action:** In executing a Contract with the City, the Contractor agrees to comply with Affirmative Action and Equal Employment Opportunity regulations presented in the General Contract Conditions.
- 2.42. 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).
- 2.43. 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.
- 2.44. 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.
- 2.45. 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.
- 2.46. 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.
- 2.47. 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.

**2.48. Nonconforming Terms and Conditions:** A bid that includes terms and conditions that do not conform to the terms and conditions of this Invitation for Bid is subject to rejection as non-responsive. The Owner reserves the right to permit the Contractor to withdraw nonconforming terms and conditions from its bid prior to a determination by the Owner of non-responsiveness based on the submission of nonconforming terms and conditions.

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

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

**2.49. Evaluation of Bids and Offerors:** The Owner reserves the right to:

- reject any and all Bids,
- waive any and all informalities,
- take into account any prompt payment discounts offered by Bidder,
- negotiate final terms with the Successful Bidder,
- take into consideration past performance of previous awards/contracts with the Owner of any Contractor, Vendor, Firm, Supplier, or Service Provider in determining final award. and
- disregard any and all nonconforming, nonresponsive or conditional Bids.

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

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

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

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

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

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

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

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

- 2.50. Award of Contract:** Unless otherwise indicated, a single award will be made for all the bid items in an individual bid schedule. In the event that the Work is contained in more than one Bid Schedule, the City may award Schedules individually or in combination. In the case of two Bid Schedules which are alternative to each other, only one of such alternative Schedules will be awarded. Within forty-five (45) Calendar Days of Bid Opening, the City will issue a Notice of Award to the Successful Bidder which will be accompanied by four (4) unsigned copies of the Contract and the Performance and Payment Bond forms. Within ten (10) Calendar Days thereafter, the Successful Bidder



shall sign and deliver four (4) copies of the Contract, Performance Bond, Payment Bond and Certificates of Insurance to the City. Within ten (10) Calendar Days thereafter, the City will deliver two (2) fully executed counterparts of the Contract to the Contractor. No contract shall exist between the Successful Bidder and the City and the Successful Bidder shall have no rights at law or in equity until the Contract has been duly executed by the City.

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

- 2.51. Ownership:** All plans, prints, designs, concepts, etc., shall become the property of the Owner.
- 2.52. 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.
- 2.53. 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.
- 2.54. Remedies:** The Contractor and Owner agree that both parties have all rights, duties, and remedies available as stated in the Uniform Commercial Code.
- 2.55. 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.
- 2.56. Expenses:** Expenses incurred in preparation, submission and presentation of this IFB are the responsibility of the company and cannot be charged to the Owner.
- 2.57. 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.
- 2.58. 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 law 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.

**2.59. 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.

**2.60. 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).

**2.60.1.** "Public project" is defined as:

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

### **3. Statement of Work**

**3.1. GENERAL:** The City of Grand Junction is soliciting competitive bids from qualified and interested companies for all labor, equipment, and materials required for the **2021 Phase A Sewer Replacements – Unaweep Avenue**. All dimensions and scope of work should be verified by Contractors prior to submission of bids.

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

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

**3.2. PROJECT DESCRIPTION:** The Project generally consists of: 2,406 L.F. of SDR-35 PVC sewer pipe (sizes 4" – 18"); 3,175 L.F. of 8" Certa-Flo, SDR-21 PVC sewer pipe (pipe burst); 29 - 48" I.D. sanitary sewer manholes, 1 – 60" I.D. sanitary sewer manholes, interior manhole protective coating, installation of sewer fittings, restoration of disturbed areas including, gravel and asphalt road surfaces, driveways, and concrete replacement. Work will also include restoration of disturbed landscape areas. This project will also include approximately 26,783 SY of asphalt removal (planing), 3,920 tons of 64-22, SX-75, 2" HMA overlay, and various concrete removals and replacements.

**3.3. SPECIAL CONDITIONS & PROVISIONS:**

**3.3.1 Mandatory Pre-Bid Meeting:** Prospective bidders are required to attend a mandatory pre-bid meeting on June 16, 2020 at 10:00am. Meeting location shall be in the City Hall Auditorium, located at 250 N. 5<sup>th</sup> Street, Grand Junction, CO. The purpose of this visit will be to inspect and to clarify the contents of this Invitation for Bids (IFB).

NOTE: Bidders that arrive more than 10 minutes late to the meeting shall not be eligible to submit a bid response to this solicitation process for this project.

**3.3.2 QUESTIONS REGARDING SOLICIATION PROCESS/SCOPE OF WORK:**

Duane Hoff, Senior Buyer  
City of Grand Junction  
[duaneh@gjcity.org](mailto:duaneh@gjcity.org)  
970-244-1545

**3.3.3 Project Manager:** The Project Manager for the Project is Anna Purtscher, Engineering Specialist, who can be reached at (970) 244-1559. During Construction, all notices, letters, submittals, and other communications directed to the City shall be addressed and mailed or delivered to:

City of Grand Junction  
Department of Public Works and Planning  
Attn: Anna Purtscher, Project Manager  
250 North Fifth Street  
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 90 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 Working Days and Hours:** The working days and hours shall be as stated in the General Contract Conditions or as mutually agreed upon in the preconstruction meeting with the following exception:

All work shall be performed Monday – Friday between the hours of 7:00 AM to 5:00 PM.

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

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

- CDOT Special Use/Utility Permit: Permit needed for asphalt overlay tie-in to Hwy 50 at west end of UnawEEP Ave.

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

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

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

- Door-hangers
- AutoCAD drawings for survey stake-out
- Variable message boards for upcoming construction locations

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

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

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

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

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

**3.3.17 Traffic Control:** The Contractor shall provide and maintain traffic control in accordance with the approved Traffic Control Plan and the *Manual on Uniform Traffic Control Devices (MUTCD)*. The traffic control plans shall be presented to the Project Engineer at or prior to the pre-construction meeting for review and approval. The following requirements and limitations shall apply to the traffic control:

No personal driveway and/or access point to a property shall be left inaccessible at the end of each work day or over a weekend; and no construction equipment shall be parked in front of a driveway and/or access point during Contractor's non-working hours. When a driveway and/or access point has to be closed off due to construction activity, the Contractor shall provide advanced notification to the affected resident(s) at least two-days prior to closure and arrange an alternative access point to the property. Refer to General Contract Condition 26 – Maintenance of Access and Services.

Special conditions for traffic control:

1. All trenches shall be backfilled or protected at the end of each working day and access restored to all driveways. If trenches are left open at night, the trenches will be limited to 30 feet in length. The entire perimeter of the excavation shall be barricaded with construction equipment and/or temporary construction fence.
2. At all times during the project, the contractor must ensure access is available for the U.S. Postal Service, trash collection trucks, school buses, emergency vehicles, etc., per the General Contract Conditions.
3. The Contractor shall adhere to all traffic control requirements when working within City and CDOT right-of-way.
4. Detours shall be provided when a section of road is closed to through traffic for water and sewer construction. Residents, employees, property owners shall have access to their respected properties during construction.

Access to residents and/or businesses shall always be provided during construction.

**3.3.18 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.

**3.3.19 Quality Control Testing:** Supplier shall perform Quality Control (QC) testing on the Asphalt. The Contractor shall provide QC throughout the Contract, with the use of their own QC Technicians or the use of a certified laboratory. In accordance with Section 401.06.3 of the City of Grand Junction Standard Specifications for Road and Bridge Construction, results of all QC tests shall be submitted to the Project Engineer and the City's Quality Assurance (QA) Technician within 4 hours of the time of sampling. Failure to do so may require that paving be suspended until all sampling results have been received, reviewed, and approved. The Contractor shall supply QC Lab personnel for night work(as required) for comparison of test data. If lab personnel is

not supplied paving operations will be suspended until one is available. QC Field personnel shall remain on site during the duration of the paving operation or until in-place density are met.

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

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

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

- Traffic Control Plans
- Construction Schedule submitted at or prior to the pre-construction meeting
- Hourly rate table for labor and equipment to be used on this project
- Sewer Pipe – SDR-35 PVC
- Domestic Water Pipe (C-900, SDR-18 PVC)
- Certa-Flo Restrained Joint PVC Sewer Pipe
- Pipe Bursting Means and Methods
- Sewer Fittings (wyes, elbows, caps, etc.)
- Manholes
- Drop Manholes
- Manhole Corrosion Protection
- Manhole Ring & Covers
- Bedding Gradation, Type A
- Imported Trench Backfill gradation (Class 3)
- Granular Stabilization Material (Type B)
- Flow-Fill Material
- Base Course Gradation & Proctor Curve (Class 6)
- Hot Bituminous Pavement Mix Design
- Non-woven Geotextile Fabric
- Concrete Mix Designs
- Tack Coat
- Emulsified Asphalt

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

**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 Excess Material:** All excess materials shall be disposed in accordance with General Contract Condition Section 50. All asphalt millings shall be delivered to the City

Storage Yard located adjacent to the City Cemetery at 2620 Legacy Way and become the property of the City of Grand Junction.

**3.3.24 Existing Utilities and Structures:** Utilities were not potholed during design of this project. The location of existing utilities and structures shown on the Plans is approximate with the information gathered during design. It is the responsibility of the Contractor to pothole/locate and protect all structures and utilities in accordance with General Contract Condition Section 37. Conflicts between water and gas lines and/or storm drain pipe may be encountered. At such conflicts, the Contractor shall relocate the water and/or gas lines. Payment for utility relocations due to a conflict with the new sewer will be paid for using the Minor Contract Revision line item assigned to the Project.

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

**3.3.25 Existing Property Pins and Survey Monuments:** The City of Grand Junction did not perform an exhaustive search for existing property pins when compiling survey data for this Project. Property pins and survey monuments have been shown on the construction drawings that were found in the field. The Contractor shall be responsible for locating, protecting and resetting property pins when and where necessary, including those shown on the plans, and including those not shown but found in the field during the course of the work. The cost of locating, protecting, referencing and resetting of property pins is incidental to the Construction Surveying pay item. The cost of referencing and resetting of survey monuments shall be paid for as described in Section 629 – Survey Monumentation within the July 2010 Standard Contract Documents.

**3.3.26 Interruption of Utilities and Services:** The Contractor shall notify all property owners affected by the interruption of utilities and other services caused by the Contractor's operations associated with this Project. Such notice shall be given at least 48 hours prior to the interruption. Notice shall be given for, but not limited to, the interruption of domestic water, sanitary sewer, trash pickup, mail delivery and changes in access to the property. Notice can be given via a newsletter and/or a door hanger. When an interruption will occur but was not stated in a newsletter, the Contractor shall, at a minimum, provide written notice and deliver to the resident/occupant; when the resident/occupant is not home at delivery time, the notice shall be attached to the door. Such notices shall provide contact information for the Contractor, the City Inspector and the City Project Engineer.

The Contractor will be required to notify property owners/tenants and City of Grand Junction Sanitation Division, 970-244-1570, when the alley will be blocked due to construction and direct them to move trash containers to the street for pickup. When alley construction is complete and the alley is open to traffic, the Contractor shall notify property owners/tenants to move their trash containers back to the alley for pickup. The Contractor should use door hangers and notify the property/owner tenant at least 24 hours in advance of their trash pickup to move their containers to



the street. The door hanger should note the date that trash pickup will be moved to the street from the alley.

**3.3.27 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.

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

- None

**3.3.29 Existing Concrete Sidewalks, Pans, Fillets, Curbs and Gutters:** The existing sidewalks, pans, fillets, curb and gutter are in good serviceable condition. In most instances the installation of new sidewalk and pavement will be adjacent to existing concrete. The Contractor will need to protect all concrete adjacent to construction. If the concrete is damaged during construction the Contractor will be responsible for its replacement at no cost to the City. The Contractor, the City Project Inspector, and/or the City Project Manager will walk and record any concrete that is deemed to be damaged before construction has started.

**3.3.30 ACI Concrete and Flatwork Finisher and Technician:** Hand finishing concrete will be permitted only when performed under the direct supervision of a craftsman holding the following certificate: ACI Concrete Flatwork Finisher and Technician (ACICFFT) or other Flatwork Finisher certification program approved by the City Engineering Manager.

**3.3.31 Confined Space Entry:** The Contractor is responsible for providing any and all confined space entry safety equipment; including, but not limited to: air testing equipment, fresh air blowers, tripods, harnesses, and SCBA equipment. The Contractor's air monitoring devices shall be calibrated and certified. The cost for all confined space entry equipment shall be incidental to the project cost, and will not be paid for separately.

**3.3.32 Construction Dewatering:** All construction dewatering must meet the requirements specified in the CDPHE Dewatering Permit. Construction dewatering will be considered incidental and will not be measured and paid for separately.

**3.3.33 Temporary Steel Plating:** If the Contractor chooses to use steel plates to protect an open trench section, the cost for supplying and securely placing the steel plates will not be paid for separately but shall be included in the work.

**3.3.34 Payment for Damage to Private Property beyond Easement Limits/ROW Limits:** Easement and Right-of-Way (ROW) lines are indicated on the Construction Plans. Any and all damage to improvements outside of easements and ROW, and/or outside the Construction Limit lines shall be repaired at the Contractor's expense. There will be no additional payment made for restoration of sod, landscaping, gravel, concrete or asphalt driveways, irrigation systems, decorative borders, fences, etc. beyond the property line or the construction easements as shown on the plan set.

**3.3.35 Sanitary Sewer Service Locations:** The location of sewer services shown on the

construction drawings are based on TV inspection videos of the existing sanitary sewer main. The Contractor shall determine which services are active and which are inactive by using dye, tracing the line with a snake and locator, or smoking the service. The Contractor shall notify and obtain permission from the property owner prior to placing dye or smoke in the service. The Construction drawings show approximate locations of services within the ROW.

**3.3.36 Project Location Work Schedule:** Due to the time of year this Project is Bidding, the Contractor shall coordinate with the City and with the school to minimize disruption to school traffic.

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

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

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

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

**3.3.38 As-Built Manhole Survey Shots:** All manhole invert as-built survey shots taken on the installed manholes and drop manholes shall be taken before the Contractor installs the manhole cone sections. This way the surveyor is able to shoot the manhole inverts with the survey rod in a vertical (plumb) position. Invert elevations

on the 'shallow' sewer and the 'deep' sewer lines need to be provided to the Project Engineer.

**3.3.39 Manhole Grade Rings:** Concrete grade rings, shims and non-shrink grout shall not be used on the sewer manhole sections. Approved grade rings for this project shall be either HDPE Adjusting Rings by LadTech, Inc., or Expanded Polypropylene grade rings by Cretex Pro-Ring.

Grade rings shall be installed per the manufacturer's recommendations and directions. Caulk and sealants shall be approved by the manufacturer and shall be applied per the manufacturer's recommendation. The top grade ring shall match as close as possible the cross-slope of the existing roadway surface. Both manufacturers of grade rings provide grade rings that can accommodate the existing roadway cross-slope.

**3.3.40 Manhole Ring and Cover:** Manhole ring and covers for this project shall be Castings model MH-310-24 CI.

**3.3.41 References for Manhole Corrosion Protection:** The Contractor applying the interior manhole corrosion protection shall provide a minimum of 3 references of projects for completed restoration and corrosion barrier liner installation of similar scope and size using the protective coating specified and/or approved equal by the City Project Engineer. References shall include project name and location; contact information of Owner/Engineer; and description of project, what the substrate was, and the application procedures.

**3.3.42 Special Equipment:** Auger extensions shall be used when the screed is extended to a width greater than two feet beyond the auger. The auger extensions shall be installed to ensure a constant head of material.

Asphalt Material Transfer Vehicle: The contractor shall use a materials transfer vehicle in conjunction with belly dumps to reduce irregularities in the paving on the following street sections:

- Unawweep Avenue

**3.3.43 Arterial, Collector and Local Streets:** All paving shall be completed a maximum of 7 calendar days after the milling for asphalt overlays at ALL locations.

**3.3.44 Asphalt Paper Joints:** The Contractor shall install asphalt paper joints at all locations where milling the roadway creates a vertical edge greater than 1" in height in the direction of travel. The paper joints shall be installed immediately following milling operations. In the event the paper joints are not installed immediately following milling operations, the Contractor shall be subjected to a \$500/day penalty at each unprotected joint location. The asphalt used in the paper joint shall be removed prior to placing the overlay. The cost of the paper joints shall be included in the unit price for the asphalt items and will not be measured or paid for separately.

**3.3.45 Tack Coat:** Tack Coat will be required between the existing asphalt and the leveling

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

**3.3.46 Milling at Drainage Inlets:** When milling adjacent to inlets that have a concrete edge protruding into the street, it shall be the Contractor's responsibility to provide an approved marker or barricade to protect vehicle tires from damage until the overlay is placed. **It shall be the Contractors responsibility to ensure millings, tack coat and/or HMA do not enter the storm drain system.**

**3.3.47 Painted Lane Lines:** The Contractor shall be responsible for recording the location of all existing striping and shall place longitudinal paving joints on or immediately adjacent to said striping. Any locations where striping will differ from existing locations are indicated on the project plans, and longitudinal paving joints shall be placed on or immediately adjacent to proposed striping locations.

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

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

**3.3.50 Pavement Cross Slope:** Each paving machine shall be equipped with a 4' carpenters level. On those occasions when the paving foreman determines that an existing street has little or no cross slope, the Contractor shall advise the Engineer of his observations rather than overlaying the street as is. The Engineer or his representative will then determine how best to correct the inadequate cross slope.

**3.3.51 Incentive/Disincentive Payment for Hot Mix Asphalt:** Section 401.07.1 of the City of Grand Junction Standard Specifications for Road and Bridge Construction will be used to determine Pay Factors for calculating the basis of payment for mainline (excluding minor patches) Hot Bituminous Pavement with the following modifications:

The pay factor (PF) should be calculated for mat density (excluding joint density), air voids, and VMA daily. An average daily pay factor (DPF) should then be calculated/weighted in the following proportion:

- Mat Density (excluding joint density) – 50%
- Air Voids – 25%
- VMA – 25%

The incentive/disincentive payment will then be based on a weighted average project pay factor (PPF). The PPF shall be calculated/weighted per the DPFs and accepted quantities placed for each day's production of each pay item. This PPF will then be applied to the total accepted quantities for each pay item, as applicable.

**3.3.52 Manholes and Water Valves:** It shall be the contractors' responsibility to accurately record and adjust all manholes, valve boxes and survey monuments to final grade. In the event that a utility is paved over it shall be the contractors' responsibility to expose and adjust to final grade within 2 days. In all other cases utilities shall be raised to final grade within 7 days after completion of paving each street segment, and it shall be the contractors' responsibility to expose the affected utility during the event of an emergency.

**3.3.53 Materials:** In the event that excavation of the manholes grade rings are disturbed or removed and replaced due to damage the Contractor is instructed to follow these guidelines:

The annular area beneath the bottom of the uppermost grade ring shall either be filled with a self-consolidating material, i.e. ¾" screened rock or engineer approved equal or shall be completely filled with Quikrete's Rapid Road Repair or Engineer approved equal. No other means will be considered.

**3.3.54 Work By Others / Coordination:** It is not anticipated that work by others will be necessary prior to or during construction at this time.

**3.4. SCOPE OF WORK:** The Project generally consists of: 2,406 L.F. of SDR-35 PVC sewer pipe (sizes 4" – 18"); 3,175 L.F. of 8" Certa-Flo, SDR-21 PVC sewer pipe (pipe burst); 29 - 48" I.D. sanitary sewer manholes, 1 – 60" I.D. sanitary sewer manholes, interior manhole protective coating, installation of sewer fittings, restoration of disturbed areas including, gravel and asphalt road surfaces, driveways, and concrete replacement. Work will also include restoration of disturbed landscape areas. This project will also include approximately 26,783 SY of asphalt removal (planing), 3,920 tons of 64-22, SX-75, 2" HMA overlay, and various concrete removals and replacements.

**3.5. Attachments: (Click Links)**

Appendix A: [Project Submittal Form](#)

Appendix B: [Project Special Provisions](#)

Appendix C: [Construction Drawings](#)

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

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

**3.7. IFB TENTATIVE TIME SCHEDULE:**

Invitation For Bids available	June 7, 2021
Mandatory Pre-Bid Meeting	June 16, 2021
Inquiry deadline, no questions after this date	June 23, 2021
Addendum Posted	June 25, 2021
Submittal deadline for proposals	July 6, 2021
City Council Approval	July 21, 2021
Notice of Award & Contract execution	July 22, 2021
Bonding & Insurance Cert due	July 26, 2021
Preconstruction meeting	July 27, 2021
Work begins no later than Proceed	Upon Receipt of Notice to Proceed
Final Completion to Proceed	90 Calendar Days from Notice to Proceed
Holidays:	Labor Day September 6, 2021

## 4. Contractor's Bid Form

**Bid Date:** \_\_\_\_\_

**Project:** IFB-4922-21-DH "2021 Phase A Sewer Replacements – Unawep Avenue"

**Bidding Company:** \_\_\_\_\_

**Name of Authorized Agent:** \_\_\_\_\_

**Email** \_\_\_\_\_

**Telephone** \_\_\_\_\_ **Address** \_\_\_\_\_

**City** \_\_\_\_\_ **State** \_\_\_\_\_ **Zip** \_\_\_\_\_

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

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

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

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

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

- Prices in this bid proposal have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.
- No attempt has been made nor will be to induce any other person or firm to submit a bid proposal for the purpose of restricting competition.
- The individual signing this bid proposal certifies they are a legal agent of the offeror, authorized to represent the offeror and is legally responsible for the offer with regard to supporting documentation and prices provided.
- Direct purchases by the City of Grand Junction are tax exempt from Colorado Sales or Use Tax. Tax exempt No. 98-03544. The undersigned certifies that no Federal, State, County or Municipal tax will be added to the above quoted prices.
- City of Grand Junction payment terms shall be Net 30 days.
- Prompt payment discount of \_\_\_\_\_ percent of the net dollar will be offered to the Owner if the invoice is paid within \_\_\_\_\_ days after the receipt of the invoice. The Owner reserves the right to take into account any such discounts when determining the bid award that are no less than Net 10 days.

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: 2021 Sewer Replacements - Phase A - Unawweep Ave

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	102.11	Connect Manhole to existing sanitary sewer (Various Pipe Sizes listed on Plans). Contractor shall use a cast-in-place base to form invert around the existing pipe. "O" ring gaskets or other water stops are to be placed around the inlet and outlet pipes to ensure a water tight seal provided at the MH base. Care should be taken so that the existing line does not sag or float during construction of the base. The top of the existing pipe shall be cut and removed to provide for the new invert in. Contractor shall control sewer flow and not allow debris to enter the pipe.	2.	EA	\$ _____	\$ _____
2	108.2	4" Sewer Service Pipe (SDR-35 PVC) (Includes Type A Bedding and Haunching Material, Backfill of Trench with Native Materials meeting	1,085.	LF	\$ _____	\$ _____
3	108.2	6" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	20.	LF	\$ _____	\$ _____
4	108.2	8" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	90.	LF	\$ _____	\$ _____
5	108.2	10" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	385.	LF	\$ _____	\$ _____



# Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
6	108.2	12" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	385.	LF	\$ _____	\$ _____
7	108.2	15" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	380.8	LF	\$ _____	\$ _____
8	108.2	18" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	60.	LF	\$ _____	\$ _____
9	108.2	8" Gravity Sewer Pipe (Certa-Flo Pipe)(Certa-Flo PVC Gravity Sewer Pipe)(SDR-21) (ASTM D-2241) (20-ft Joints)(Joint Type: Certa-Lok Restrained Joint Integral Bell) (Includes all necessary Pipe-Bursting Installation Equipment) ( Pipe Bursting)	3,175.	LF	\$ _____	\$ _____
10	108.2	Connect existing 18" VCP pipe to proposed 18" SDR-35 Pipe using Fernco adapter or equal	1.	EA	\$ _____	\$ _____
11	108.3	8" x 4" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	81.	EA	\$ _____	\$ _____
12	108.5	Sanitary Sewer Basic Manhole (48" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. (See City Std. Detail SS-02)	29.	EA	\$ _____	\$ _____

# Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
13	108.5	Manhole Barrel Section (D>5') (48" I.D.)	268.	Vert. Ft.	\$ _____	\$ _____
14	108.5	Sanitary Sewer Basic Manhole (60" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. (See City Std. Detail SS-02)	1.	EA	\$ _____	\$ _____
15	108.5	Manhole Barrel Section (D>5') (60" I.D.)	9.	Vert. Ft.	\$ _____	\$ _____
16	108.5	Manhole Protective Coating (Castagra Ecodur 201 Coating or Approved Equal) (40 mils Thickness, min.)	267.	Vert. Ft.	\$ _____	\$ _____
17	202	Removal of Existing Pipe (Size & type as shown on plans)	3,109.	LF	\$ _____	\$ _____
18	202	Removal of Manhole (Price to include plugging existing abandoned pipes and removal and disposal of concrete sections)	27.	EA	\$ _____	\$ _____
19	202	Removal of Manhole (Remove Manhole Cone Section, Ring, and Cover and deliver to City Shops. Contractor shall fill remaining barrel sections with flow fill material)	2.	EA	\$ _____	\$ _____
20	202	Abandon Pipe (Abandon pipe by plugging ends with concrete)	1.	EA	\$ _____	\$ _____
21	202	Removal of Existing Surface Material	634.	SY	\$ _____	\$ _____
22	202	Removal of Asphalt Mat (Full Depth)	1,099.	SY	\$ _____	\$ _____
23	202	Removal of Asphalt Mat (Planing)(2" Thick for T-Top Section)	30.	SY	\$ _____	\$ _____

# Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
24	202	Removal of Concrete (Includes, but not limited to, curb, gutter, sidewalk, driveway, slabs, V-pans, curb ramps, intersection corners, aprons, landscape borders, and concrete walls)	169.	SY	\$ _____	\$ _____
25	202	Removal of Sod	3,121.	SF	\$ _____	\$ _____
26	202	Asphalt Removal (Planing)(Thickness Varies)	25,654.	SY	\$ _____	\$ _____
27	208	Storm Drain Inlet Protection (Silt-Sack Style or Approved Equal) (Includes Maintenance & Removal of Debris,& Removal of Inlet Protection)	2.	EA	\$ _____	\$ _____
28	208	Erosion Control Log	160.	LF	\$ _____	\$ _____
29	210	Reset Fence (Height and Material Shown on Plan)	236.	LF	\$ _____	\$ _____
30	212	Re-Sod Area as Shown (1st Street)(Includes 6" Thick Imported Topsoil placed prior to sod placement)	3,121.	SF	\$ _____	\$ _____
31	304	Aggregate Base Course (Class 6) (12" thick)	961.	SY	\$ _____	\$ _____
32	304	Aggregate Base Course (Class 6) (6" thick)	1,127.	SY	\$ _____	\$ _____
33	304	Aggregate Base Course (Class 6) - Shoulder Edging Gravel	200.	Tons	\$ _____	\$ _____
34	401	Hot Bituminous Pavement (4" Thick) (Grading SX, Binder Grade PG 64-22)(GYR.=75) (Two 2" Lifts)	956.	SY	\$ _____	\$ _____
35	401	Hot Bituminous Pavement (Patching)(2" Thick) (Grading SX, Binder Grade PG 64-22, GYR.=75) (One 2" Lift Top Mat) (T-Top Patch) (See City Std. Detail GU-03)	956.	SY	\$ _____	\$ _____
36	401	Hot Mix Asphalt (2" thick) (Grading SX, Binder Grade 64-22)	3,920.	Tons	\$ _____	\$ _____
37	608	Concrete Curb and Gutter (2' Wide)	9.	LF	\$ _____	\$ _____
38	608.06	Concrete Driveway Section (6" Thick) (Residential)	3.	SY	\$ _____	\$ _____

# Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
39	608.06	Concrete Intersection Corner	17.	SY	\$ _____	\$ _____
40	608.06	Concrete Drainage Pan (6' Wide)	13.	SY	\$ _____	\$ _____
41	608/304	Monolithic Vertical Curb, Gutter, and Sidewalk (7-ft wide)	224.	LF	\$ _____	\$ _____
42	627-30410	Preformed Plastic Pavement Marking (Symbol)	447.	SF	\$ _____	\$ _____
43	630	Flagging	3,400.	HR	\$ _____	\$ _____
44	Overlay	24" X 48" MetaDome Surface Applied Tile, Non-Flanged Brick Red	32.	Each	\$ _____	\$ _____
45	Pump	Bypass Sewage Pumping (As deemed necessary by City or Contractor)	1.	Lump Sum	\$ _____	\$ _____
46	210	Reset/Repair Sprinkler System (Complete in Place)	1.	Lump Sum	\$ _____	\$ _____
47	210	Reset Irrigation Pipe (PVC Irrigation Pipe) (Includes pipe, fittings, equipment, materials, and labor to relocate irrigation pipe)	1.	Lump Sum	\$ _____	\$ _____
48	620	Portable Sanitary Facility	1.	Lump Sum	\$ _____	\$ _____
49	625	Construction Surveying (Includes As-Built Drawings)	1.	Lump Sum	\$ _____	\$ _____
50	626	Mobilization	1.	Lump Sum	\$ _____	\$ _____
51	630	Traffic Control (Complete in Place)	1.	Lump Sum	\$ _____	\$ _____
INC		Incentive HMA 64-22	---	---	---	\$ 15,000.00
MCR		Minor Contract Revisions	---	---	---	\$ 150,000.00

**Bid Amount:** \$ \_\_\_\_\_

**Bid Amount:** \_\_\_\_\_

**dollars**

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

<u>Name &amp; 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.



**Purchasing Division**

**ADDENDUM NO. 1**

**DATE: June 25, 2021**  
**FROM: City of Grand Junction Purchasing Division**  
**TO: All Interested Parties**  
**RE: 2021 Phase A Sewer Replacements – Unawep Avenue IFB-4922-21-DH**

Bidders 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:

1. The Responses Due Date and Time have been modified/update follows:  
**Responses Due: July 16, 2021 prior to 10:00am**

Please join Solicitation Opening, IFB-4922-21-DH, 2021 Phase A Sewer Replacements - Unawep Avenue on GoToConnect from your computer using the Chrome browser.  
<https://app.goto.com/meet/442259341>  
You can also dial in using your phone.  
US: (646) 749-3335

**Access Code: 442-259-341**

2. Section 3.7 IFB Tentative Time Schedule has been modified/updated as follows:

Invitation For Bids available	June 7, 2021
Mandatory Pre-Bid Meeting	June 16, 2021
Inquiry deadline, no questions after this date	July 7, 2021
Addendum Posted	July 9, 2021
Submittal deadline for proposals	July 16, 2021
City Council Approval	July 21, 2021
Notice of Award & Contract execution	July 22, 2021
Bonding & Insurance Cert due	July 26, 2021
Preconstruction meeting	July 27, 2021
Work begins no later than	Upon Receipt of Notice to Proceed
Final Completion	90 Calendar Days from Notice to Proceed
Holidays:	Labor Day September 6, 2021

3. Contractors will be required to hold/maintain bid pricing for, and offer may not be withdrawn for, a period of seven (7) calendar days after closing time. The Contractor's Bid Form has been updated to reflect this change, for this project. **Contractor shall utilize the attached updated Addendum 1 Contractor's Bid Form when submitting their bid response.**

4. Q. Manhole Lining Question: would you consider accepting the McNeil Technologies RAM 240 Series (cured-in-place fiberglass manhole liner) as equal for lining the manholes on this project?

A. No, this product is not accepted as equal for the Manhole Interior Corrosion Protection because the project specifies a coating rather than a liner.

5. Q. It is not the contractors responsibility to find sewer service during a pipe burst operation. All services need to be accounted for and verified prior to any work. If the City would like for contractor to pothole, die and/or smoke the service, a line item for that operation should be included in the bid tab.

A. Sewer service locations for the pipe bursting sections of the operation will be identified in an addendum.

6. Q. Please define width for typical edge mill taper.

A. The width for a typical edge mill taper as defined for this project is 14 feet.

7. Q. Does the City anticipate any groundwater during excavation?

A. There is high groundwater in the project area, and it is anticipated that groundwater will be encountered during excavation. Thus, bypass pumping has been included as a lump sum line item in the contract.

8. Q. The 2021 sewer project calls for 3,200ish feet of 8" Certa-Flo. Per the email/comment below from NAPCO, they will not quote any pipe which also means that pipe is not available and no time table for when it will be available. Please let me/all know how the project will continue forward. "Over the last 60+ days, NAPCO has worked very hard to provide stability, and some sense of normalcy, for our customers, our markets and the greater PVC pipe community. While things have not always gone as planned, NAPCO has honored valid quotes and continues to process orders, within terms, through these never before seen market conditions.

Despite NAPCO's best efforts to shoulder the incredible volume of orders that this approach to doing business has generated, NAPCO simply must pause, before the current market limitations prevent NAPCO from making good on the overwhelming number of commitments it has already made to its valued customers."

A. As noted on the Construction Plans, an Engineer Approved Equal will be accepted in lieu of Certa-Flo pipe.

9. Q. Is HDPE pipe an acceptable substitute? Are any other acceptable substitutes/

A. HDPE SDR-17 fused pipe is accepted as an Engineer Approved Equal for Certa-Flo pipe, with the stipulation that HDPE SDR-17 fused pipe must have the fused joints deburred, and Inserta-Tees must be used for sewer service connections instead of tapping saddles.

10. Q. Do you need to know DR specs?

A. Yes, please include the DR/any specifications for any substitute that you request to be an Engineer Approved Equal.

11. Q. What is ground water level/table?

A. A geotechnical study has not been conducted for this project, so it is not possible to give an elevation for the ground water level/table. However, from available data it looks like ground water level is approximately 3 to 8 ft below surface grades in the project area.

12. Q. Can the Contractor be allowed some flexibility in the start date of the project?

A. The project must be completed this fiscal year, including the overlay paving. Paving specifications will not be waived due to inclement weather.

13. Additional questions/clarifications/information will be posted in the upcoming Addendum 2.

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

All other conditions of subject remain the same.

Respectfully,



Duane Hoff, Jr., Senior Buyer  
City of Grand Junction, Colorado



## **4. Contractor's Bid Form (Addendum 1)**

**Bid Date:** \_\_\_\_\_

**Project:** IFB-4922-21-DH "2021 Phase A Sewer Replacements – Unaweeep Avenue"

**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 seven (7) calendar days after closing time.

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

- Prices in this bid proposal have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.
- No attempt has been made nor will be to induce any other person or firm to submit a bid proposal for the purpose of restricting competition.
- The individual signing this bid proposal certifies they are a legal agent of the offeror, authorized to represent the offeror and is legally responsible for the offer with regard to supporting documentation and prices provided.
- Direct purchases by the City of Grand Junction are tax exempt from Colorado Sales or Use Tax. Tax exempt No. 98-03544. The undersigned certifies that no Federal, State, County or Municipal tax will be added to the above quoted prices.
- City of Grand Junction payment terms shall be Net 30 days.
- Prompt payment discount of \_\_\_\_\_ percent of the net dollar will be offered to the Owner if the invoice is paid within \_\_\_\_\_ days after the receipt of the invoice. The Owner reserves the right to take into account any such discounts when determining the bid award that are no less than Net 10 days.

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:** \_\_\_\_\_



Purchasing Division

## **ADDENDUM NO. 2**

**DATE: July 1, 2021**  
**FROM: City of Grand Junction Purchasing Division**  
**TO: All Interested Parties**  
**RE: 2021 Phase A Sewer Replacements – UnawEEP Avenue IFB-4922-21-DH**

Bidders 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:

1. Q. In regards to bid item 39 (Concrete Intersection Corner), I am not able to find any call outs in the constructions notes, or illustrations on the plans as to where these items are located, nor the limits to replace. Could the City provide a tabulations by station or page, or some sort of direction of where to find these items within the bid plan set?

A. Please see the updated Construction Plans - the 17 SY of Concrete Intersection Corner is located on the Northeast corner of UnawEEP Ave. and Palisade St., called out on Sheet 29.

2. Q. In regards to bid item 41 (7' Mono Curb Gutter & Sidewalk), I am able to find 193 LF on sheets 6, 7, & 9, but am still ~30 LF shy of the quantity on the bid tab. I see on sheet 15 this item is called out in the construction notes, but am not able to find it illustrated on the plan. Could the City provide a tabulation by station or page, or some sort of directions of where to find the remaining ~30 LF of 7' curb gutter & sidewalk?

A. Please see the updated Construction Plans - the remaining amount of Monolithic Vertical Curb, Gutter, and Sidewalk (7-ft wide) is now called out on Sheet 29.

3. Q. There are no line items for the adjustment of water valves and manholes in the bid tabulation please add with an addendum.

A. Please see the updated Bid Schedule - line items for the adjustment of water valves and manholes have been added.

4. Q. The line between manhole C1-261-064 and C1-261-065 is shown to have reverse grade.

A. Please see the updated Construction Plans – we have adjusted the design to abandon this line.

5. Q. Sheet 21 and 21 the station on the plan view does not match the stationing in the profile.

A. Please see the updated Construction Plans – stationing has been corrected on Sheet 21 and Sheet 22.

6. Q. There are several manholes where the notes call out for a precast base yet there are only 2 in the bid tabulation. which is correct?

A. Please see the updated Construction Plans – Construction Note #320 has been edited so that connection to the existing sewer does not include precast bases. There are no precast manholes in the updated Construction Plans or in the updated Bid Schedule.

7. Q. Did the City acquire a temporary construction easement for the installation of manhole C1-262-068? If so where is the access point to install the manhole?

A. The City has a permanent 20' wide construction easement along the existing sewer lines to the South and East of manhole C1-262-068. The access point to install the manhole is from the East of manhole C1-262-068.

8. Q. There are conflicting notes for the size of the pipe on sheet 24. One calls it a 10" the other calls it an 8" which is correct.

A. Please see the updated Construction Plans.

9. Q. Please provide flow data for all sewer lines.

A. The City doesn't have flow records or has recently had flow measuring equipment installed in these exact sewer lines. The City does have a flow monitor downstream of the project boundary, at Manhole C1-261-097. Flow Data from Manhole C1-261-097 will be included in a future addendum if the data can be extracted before Final Addenda must be posted (7/9/2021). Determination of sewer flows will ultimately be the Contractor's responsibility or their bypass pumping subcontractor for determining what the flows are and what size pumps will be needed.

The City's Project Engineer did a best guess estimate on the flows in the manholes identified in Attachment A – Estimated Dry Weather Peak Flows based on measured flow depth in the manholes at the estimated peak loading time for the area (between 7 and 8 AM) during Dry Weather. Estimated Dry Weather flows are listed in Attachment A. The sewer in the project area has significant inflow & infiltration during rain events and can see Wet Weather peak flows as high as 200% of Dry Weather peak flows during a large rain event. Any bypass pumping plans will need to be reviewed by the Project Engineer prior to bypass pumping.

10. Q. The Qty's for concrete removal do not equal the qty's for new concrete to be installed for this project.

A. Please see the updated Construction Plans and the Updated Bid schedule – this error has been rectified.

11. Q. Is dewatering incidental or will there be a specific line item added to the Price Bid Schedule?

A. Please see the updated Bid Schedule – dewatering has been added as a lump sum line item to the Bid Schedule.

12. Q. Is it possible to use other options than pipe bursting?

A. Bid Alternate #1 has been provided to minimize the amount of pipe bursting utilized in this project. The pipe bursting that is included in the Bid Alternate #1 is considered essential to pipe burst in order to utilize trenchless construction and avoid conflicts with utilities, open ditch irrigation lines and to minimize disturbance to private properties.

13. Q. Can you address how you want the tree handled at the 1748 Escalante Drive address?

A. The Tree at 1748 Escalante Drive is not located on top of the Sewer Service for 1748. It is located across the alley from the Sewer Service for 1751 Escalante Drive, and is not expected to interfere with construction.

However, there is a tree at 1756 Escalante drive that is located directly atop the sewer service connection. This tree will need to be removed and replaced with three (3), one-inch caliper trees of the same kind, please see the updated Construction plans and updated Bid Schedule.

14. Q. Can the City provide flow data?

A. Please see the response to Question 9, Addendum 2.

15. Q. I wanted to verify that SpectraShield is included in the approved liners for this project. SpectraShield has been on the approved list for many years and we are currently contracted with the City to line the manholes on the Riverfront Dos Rios Phase 2 project. I did look through the City specifications and couldn't find SpectraShield called out. All I could find is Tnemic and Sherwin Williams for existing manholes although we have coated hundreds of manholes in Grand Junction over the years with SpectraShield.

A. SpectraShield is an approved Manhole Interior Corrosion Protection coating for this project.

16. Contractors shall utilize the attached updated Construction Plans, updated Price Bid Schedule, and the added Bid Alternate Price Schedule for this Addendum 2 when submitting their bid response.

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

All other conditions of subject remain the same.

Respectfully,



Duane Hoff, Jr., Senior Buyer  
City of Grand Junction, Colorado

## Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave - Addendum #2

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	104.2	2-Way Sanitary Sewer Service Cleanout (Includes Cleanout Ring and Cover and Concrete Collar in unpaved areas) (See Std Detail SS-07)	74	EA	\$ _____	\$ _____
2	104.4	Encase Sanitary Sewer Pipe in Concrete per City Specification GU-04 (20' long) (if necessary)	2	EA	\$ _____	\$ _____
3	108.2	4" Sewer Service Pipe (SDR-35 PVC) (Includes Type A Bedding and Haunching Material, Backfill of Trench with Native Materials meeting 103.16 Earth Backfill material and End-of-Service Cap)	1,009	LF	\$ _____	\$ _____
4	108.2	6" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	41.6	LF	\$ _____	\$ _____
5	108.2	8" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	39	LF	\$ _____	\$ _____
6	108.2	10" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	375	LF	\$ _____	\$ _____
7	108.2	15" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	335	LF	\$ _____	\$ _____

## Bid Schedule: 2021 Sewer Replacements - Phase A - UnawEEP Ave - Addendum #2

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
8	108.2	24" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	420	LF	\$ _____	\$ _____
9	108.2	8" Gravity Sewer Pipe (Certa-Flo Pipe)(Certa-Flo PVC Gravity Sewer Pipe)(SDR-21) (ASTM D-2241) (20-ft Joints)(Joint Type: Certa-Lok Restrained Joint Integral Bell) (Includes all necessary Pipe-Bursting Installation Equipment) ( Pipe Bursting)	3,092	LF	\$ _____	\$ _____
10	108.3	8" x 4" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	9	EA	\$ _____	\$ _____
11	108.3	8" x 4" Sewer Service Tap, Tapping Saddle (To be used on the Certa-Flo PVC pipe) (Includes saddle, bedding material, clean-out and all fitting required to align and connect the sewer service pipe to the sewer tap) (Contractor must properly support the tapping saddle with crushed pipe bedding material to avoid saddle rotation during backfilling and compaction)	63	EA	\$ _____	\$ _____
12	108.3	8" x 6" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	2	EA	\$ _____	\$ _____
13	108.5	Sanitary Sewer Basic Manhole (48" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. See City Std. Detail SS-02) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	22	EA	\$ _____	\$ _____
14	108.5	Manhole Barrel Section (D>5') (48" I.D.)	85.6	Vert. Ft.	\$ _____	\$ _____

## Bid Schedule: 2021 Sewer Replacements - Phase A - UnawEEP Ave - Addendum #2

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
15	108.5	Sanitary Sewer Basic Manhole (60" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. See City Std. Detail SS-02) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	7	EA	\$ _____	\$ _____
16	108.5	Manhole Barrel Section (D>5') (60" I.D.)	42.5	Vert. Ft.	\$ _____	\$ _____
17	108.5	Manhole Interior Corrosion Protection (100 mils Dry Film Thickness, min.) (includes manhole surface preparation and filling in bugholes and imperfections prior to coating)	273	Vert. Ft.	\$ _____	\$ _____
18	202	Removal of Existing Pipe (Size & type as shown on plans)	2,018.2	LF	\$ _____	\$ _____
19	202	Removal of Manhole (Price to include plugging existing abandoned pipes and removal and disposal of concrete sections)	12	EA	\$ _____	\$ _____
20	202	Removal of Manhole (Remove Manhole Cone Section, Ring, and Cover and deliver to City Shops. Contractor shall fill remaining barrel sections with flow fill material)	13	EA	\$ _____	\$ _____
21	202	Abandon Pipe (Abandon pipe by plugging ends with concrete)	175	EA	\$ _____	\$ _____
22	202	Removal of Existing Surface Material	488.0	SY	\$ _____	\$ _____
23	202	Removal of Asphalt Mat (Full Depth)	1,319.1	SY	\$ _____	\$ _____
24	202	Asphalt Removal (Planing)(Thickness Varies)	27,451	SY	\$ _____	\$ _____
25	202	Removal of Sod	4,885	SF	\$ _____	\$ _____

## Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave - Addendum #2

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
26	202	Removal of Concrete (Includes, but not limited to, curb, gutter, sidewalk, driveway, slabs, V-pans, curb ramps, intersection corners, aprons, landscape borders, and concrete walls)	225	SY	\$ _____	\$ _____
27	202	Removal of Tree (size shown on plans)	2	EA	\$ _____	\$ _____
28	203	Potholing (as called out on plans)	2	EA	\$ _____	\$ _____
29	208	Storm Drain Inlet Protection (Silt-Sack Style or Approved Equal) (Includes Maintenance & Removal of Debris, & Removal of Inlet Protection)	2	EA	\$ _____	\$ _____
30	208	Erosion Control Log	198	LF	\$ _____	\$ _____
31	210	Reset Fence (Height and Material Shown on Plan)	225.0	LF	\$ _____	\$ _____
32	210	Reset/Repair Sprinkler System (Complete in Place)	1	Lump Sum	\$ _____	\$ _____
33	210	Reset Irrigation Pipe (PVC Irrigation Pipe) (Includes pipe, fittings, equipment, materials, and labor to relocate irrigation pipe)	1	Lump Sum	\$ _____	\$ _____
34	210	Adjust Valve Box (Price to include adjustment of Survey Monuments)	41	EA.	\$ _____	\$ _____
35	210	Adjust Manhole Ring and Cover (Sanitary and Storm Sewer)	17	EA.	\$ _____	\$ _____
36	212	Re-Sod Area as Shown (Includes 6" Thick Imported Topsoil placed prior to sod placement)	4,885	SF	\$ _____	\$ _____
37	214	Deciduous Tree (1 Inch Caliper) (Match in kind)	3	EA	\$ _____	\$ _____
38	304	Aggregate Base Course (Class 6) (12" thick)	1,092.5	SY	\$ _____	\$ _____



## Bid Schedule: 2021 Sewer Replacements - Phase A - UnawEEP Ave - Addendum #2

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
39	304	Aggregate Base Course (Class 6) (6" thick)	666.0	SY	\$ _____	\$ _____
40	304	Aggregate Base Course (Class 6) - Shoulder Edging Gravel	200	Tons	\$ _____	\$ _____
41	401	Cold Mix Asphalt Patching (Temporary Patching) (3" thick) (to be used on UnawEEP Ave, as deemed necessary)	524.1	SY	\$ _____	\$ _____
42	401	Hot Bituminous Pavement (4" Thick) (Grading SX, Binder Grade PG 64-22)(GYR.=75) (Two 2" Lifts)	1,250.1	SY	\$ _____	\$ _____
43	401	Hot Bituminous Pavement (Patching)(2" Thick) (Grading SX, Binder Grade PG 64-22, GYR.=75) (One 2" Lift Top Mat) (T-Top Patch) (See City Std. Detail GU-03)	1,797	SY	\$ _____	\$ _____
44	401	Hot Mix Asphalt (2" thick) (Grading SX, Binder Grade 64-22)	3,920	Tons	\$ _____	\$ _____
45	608	Concrete Curb and Gutter (2' Wide)	2	SY	\$ _____	\$ _____
46	608.06	Concrete Driveway Section (6" Thick) (Residential)	2.6	SY	\$ _____	\$ _____
47	608.06	Concrete Intersection Corner	17	SY	\$ _____	\$ _____
48	608.06	Concrete Drainage Pan (6' Wide)	12.5	SY	\$ _____	\$ _____
49	608/30 4	Monolithic Vertical Curb, Gutter, and Sidewalk (7-ft wide)	190.0	SY	\$ _____	\$ _____
50	627- 30410	Preformed Plastic Pavement Marking (Symbol)	447	SF	\$ _____	\$ _____
51	630	Flagging	3,400	HR	\$ _____	\$ _____
52	Overla y Tile	24" X 48" MetaDome Surface Applied Overlay Tile, Non-Flanged Brick Red	34	Each	\$ _____	\$ _____
53	Pump	Bypass Sewage Pumping (As deemed necessary by City or Contractor)	1	Lump Sum	\$ _____	\$ _____

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unaweeep Ave - Addendum #2**

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
54	211	Dewatering (Includes acquiring a CDPHE Dewatering Permit and adhering to the discharge requirements of the State Permit) (if needed)	1	Lump Sum	\$ _____	\$ _____
55	620	Portable Sanitary Facility	1	Lump Sum	\$ _____	\$ _____
56	625	Construction Surveying (Includes As-Built Drawings)	1	Lump Sum	\$ _____	\$ _____
57	626	Mobilization	1	Lump Sum	\$ _____	\$ _____
58	630	Traffic Control (Complete in Place)	1	Lump Sum	\$ _____	\$ _____
INC		Incentive HMA 64-22	---	---	---	\$ 15,000.00
MCR		Minor Contract Revisions	---	---	---	\$ 100,000.00

**Bid Amount:** \$ \_\_\_\_\_

**Bid Amount:** \_\_\_\_\_ **dollars**

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2 - Bid Alternate #1**

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	104.2	2-Way Sanitary Sewer Service Cleanout (Includes Cleanout Ring and Cover and Concrete Collar in unpaved areas) (See Std Detail SS-07)	74	EA	\$ _____	\$ _____
2	104.4	Encase Sanitary Sewer Pipe in Concrete per City Specification GU-04 (20' long) (if necessary)	2	EA	\$ _____	\$ _____
3	108.2	4" Sewer Service Pipe (SDR-35 PVC) (Includes Type A Bedding and Haunching Material, Backfill of Trench with Native Materials meeting 103.16 Earth Backfill material and End-of-Service Cap)	1,009	LF	\$ _____	\$ _____
4	108.2	6" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	41.6	LF	\$ _____	\$ _____
5A	108.2	8" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	2,462	LF	\$ _____	\$ _____
6	108.2	10" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	375	LF	\$ _____	\$ _____
7	108.2	15" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	335	LF	\$ _____	\$ _____

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2 - Bid Alternate #1**

**CONTRACTOR:** \_\_\_\_\_

Item No.	Ref.	Description	Quantity	Units	Unit Price	Total Price
8	108.2	24" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	420	LF	\$ _____	\$ _____
9A	108.2	8" Gravity Sewer Pipe (Certa-Flo Pipe)(Certa-Flo PVC Gravity Sewer Pipe)(SDR-21) (ASTM D-2241) (20-ft Joints)(Joint Type: Certa-Lok Restrained Joint Integral Bell) (Includes all necessary Pipe-Bursting Installation Equipment) ( Pipe Bursting)	669	LF	\$ _____	\$ _____
10A	108.3	8" x 4" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	61	EA	\$ _____	\$ _____
11A	108.3	8" x 4" Sewer Service Tap, Tapping Saddle (To be used on the Certa-Flo PVC pipe) (Includes saddle, bedding material, clean-out and all fitting required to align and connect the sewer service pipe to the sewer tap) (Contractor must properly support the tapping saddle with crushed pipe bedding material to avoid saddle rotation during backfilling and compaction)	11	EA	\$ _____	\$ _____
12	108.3	8" x 6" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	2	EA	\$ _____	\$ _____
13	108.5	Sanitary Sewer Basic Manhole (48" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. See City Std. Detail SS-02) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	22	EA	\$ _____	\$ _____
14	108.5	Manhole Barrel Section (D>5') (48" I.D.)	85.6	Vert. Ft.	\$ _____	\$ _____

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2 - Bid Alternate #1**

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
15	108.5	Sanitary Sewer Basic Manhole (60" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. See City Std. Detail SS-02) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	7	EA	\$ _____	\$ _____
16	108.5	Manhole Barrel Section (D>5') (60" I.D.)	42.5	Vert. Ft.	\$ _____	\$ _____
17	108.5	Manhole Interior Corrosion Protection (100 mils Dry Film Thickness, min.) (includes manhole surface preparation and filling in bugholes and imperfections prior to coating)	273	Vert. Ft.	\$ _____	\$ _____
18A	202	Removal of Existing Pipe (Size & type as shown on plans)	4,480.2	LF	\$ _____	\$ _____
19	202	Removal of Manhole (Price to include plugging existing abandoned pipes and removal and disposal of concrete sections)	12	EA	\$ _____	\$ _____
20	202	Removal of Manhole (Remove Manhole Cone Section, Ring, and Cover and deliver to City Shops. Contractor shall fill remaining barrel sections with flow fill material)	13	EA	\$ _____	\$ _____
21	202	Abandon Pipe (Abandon pipe by plugging ends with concrete)	175	EA	\$ _____	\$ _____
22A	202	Removal of Existing Surface Material	1,104.9	SY	\$ _____	\$ _____
23A	202	Removal of Asphalt Mat (Full Depth)	1,533.5	SY	\$ _____	\$ _____
24A	202	Asphalt Removal (Planing)(Thickness Varies)	27,749	SY	\$ _____	\$ _____
25A	202	Removal of Sod	8,011	SF	\$ _____	\$ _____

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2 - Bid Alternate #1**

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
26A	202	Removal of Concrete (Includes, but not limited to, curb, gutter, sidewalk, driveway, slabs, V-pans, curb ramps, intersection corners, aprons, landscape borders, and concrete walls)	243	SY	\$ _____	\$ _____
27	202	Removal of Tree (size shown on plans)	1	EA	\$ _____	\$ _____
28	203	Potholing (as called out on plans)	2	EA	\$ _____	\$ _____
29	208	Storm Drain Inlet Protection (Silt-Sack Style or Approved Equal) (Includes Maintenance & Removal of Debris, & Removal of Inlet Protection)	2	EA	\$ _____	\$ _____
30	208	Erosion Control Log	198	LF	\$ _____	\$ _____
31A	210	Reset Fence (Height and Material Shown on Plan)	206.7	LF	\$ _____	\$ _____
32	210	Reset/Repair Sprinkler System (Complete in Place)	1	Lump Sum	\$ _____	\$ _____
33	210	Reset Irrigation Pipe (PVC Irrigation Pipe) (Includes pipe, fittings, equipment, materials, and labor to relocate irrigation pipe)	1	Lump Sum	\$ _____	\$ _____
34	210	Adjust Valve Box (Price to include adjustment of Survey Monuments)	41	EA.	\$ _____	\$ _____
35	210	Adjust Manhole Ring and Cover (Sanitary and Storm Sewer)	17	EA.	\$ _____	\$ _____
36A	212	Re-Sod Area as Shown (Includes 6" Thick Imported Topsoil placed prior to sod placement)	8,011	SF	\$ _____	\$ _____
37	214	Deciduous Tree (1 Inch Caliper) (Match in kind)	3	EA	\$ _____	\$ _____
38A	304	Aggregate Base Course (Class 6) (12" thick)	1,298.1	SY	\$ _____	\$ _____

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2 - Bid Alternate #1**

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
39A	304	Aggregate Base Course (Class 6) (6" thick)	1,282.3	SY	\$ _____	\$ _____
40	304	Aggregate Base Course (Class 6) - Shoulder Edging Gravel	200	Tons	\$ _____	\$ _____
41A	401	Cold Mix Asphalt Patching (Temporary Patching) (3" thick) (to be used on Unawep Ave, as deemed necessary)	559.6	SY	\$ _____	\$ _____
42A	401	Hot Bituminous Pavement (4" Thick) (Grading SX, Binder Grade PG 64-22)(GYR.=75) (Two 2" Lifts)	1,464.5	SY	\$ _____	\$ _____
43A	401	Hot Bituminous Pavement (Patching)(2" Thick) (Grading SX, Binder Grade PG 64-22, GYR.=75) (One 2" Lift Top Mat) (T-Top Patch) (See City Std. Detail GU-03)	2,095	SY	\$ _____	\$ _____
44	401	Hot Mix Asphalt (2" thick) (Grading SX, Binder Grade 64-22)	3,920	Tons	\$ _____	\$ _____
45	608	Concrete Curb and Gutter (2' Wide)	2	SY	\$ _____	\$ _____
46	608.06	Concrete Driveway Section (6" Thick) (Residential)	2.6	SY	\$ _____	\$ _____
47	608.06	Concrete Intersection Corner	17	SY	\$ _____	\$ _____
48	608.06	Concrete Drainage Pan (6' Wide)	12.5	SY	\$ _____	\$ _____
49A	608/30 4	Monolithic Vertical Curb, Gutter, and Sidewalk (7-ft wide)	203.9	SY	\$ _____	\$ _____
50	627- 30410	Preformed Plastic Pavement Marking (Symbol)	447	SF	\$ _____	\$ _____
51	630	Flagging	3,400	HR	\$ _____	\$ _____
52	Overlay	24" X 48" MetaDome Surface Applied Tile Overlay Tile, Non-Flanged Brick Red	34	Each	\$ _____	\$ _____
53A	Pump	Bypass Sewage Pumping (As deemed necessary by City or Contractor)	1	Lump Sum	\$ _____	\$ _____

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2 - Bid Alternate #1**

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
54A	211	Dewatering (Includes acquiring a CDPHE Dewatering Permit and adhering to the discharge requirements of the State Permit) (if needed)		1 Lump Sum	\$ _____	\$ _____
55	620	Portable Sanitary Facility		1 Lump Sum	\$ _____	\$ _____
56	625	Construction Surveying (Includes As-Built Drawings)		1 Lump Sum	\$ _____	\$ _____
57	626	Mobilization		1 Lump Sum	\$ _____	\$ _____
58A	630	Traffic Control (Complete in Place)		1 Lump Sum	\$ _____	\$ _____
INC		Incentive HMA 64-22	---	---	---	\$ 15,000.00
MCR		Minor Contract Revisions	---	---	---	\$ 100,000.00

**Bid Alternate #1 Amount:** \$ \_\_\_\_\_

**Bid Alternate #1 Amount:** \_\_\_\_\_ **dollars**

**NOTE:** Do not include pricing for this Bid Alternate #1 when calculating your Base Bid total price. This Bid Alternate request is for the option of the City to select an alternate method to Items No. 5, 9-11, 18, 22-26, 31, 36, 38-39, 41-43, 49, 53-54, 58 of the Base Bid Price Schedule.

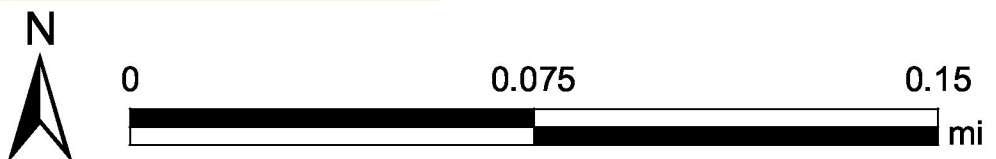
Lowest bidder shall be determined by comparing all Base Bid price proposals received against that of all Bid Alternate #1 price proposals received, and shall be awarded to the overall lowest total bid price.

Bid Alternate #1 Items No. 5A, 9A-11A, 18A, 22A-26A, 31A, 36A, 38A-39A, 41A-43A, 49A, 53A-54A, 58A refer to the Bid Alternate #1 Construction Plans (Sheets 36-49), and if selected would replace Items No. 5, 9-11, 18, 22-26, 31, 36, 38-39, 41-43, 49, 53-54, 58 of the Base Bid Price Schedule.

Bid Alternate #1 includes a minimal amount of pipe bursting and is provided to accommodate Contractors who are confident and experienced in open-trench construction with limited space and overhead/underground utilities to protect in place. Bidders are not required to provide a price for these Bid Alternate #1 line items. However, if so, the Bidder would only be considered for their submitted Base Bid price proposal.



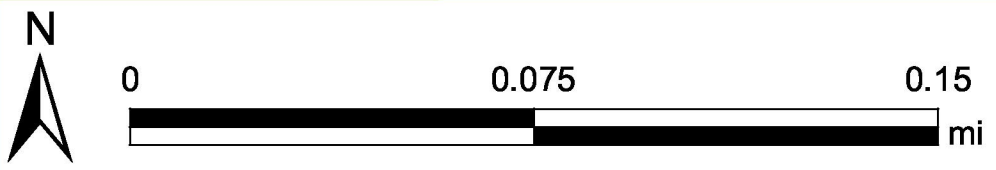
# MH to get Peak Depth



Date: 6/17/2021

1 inch = 188 feet

# MH to get Peak Depth

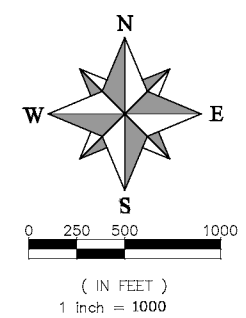
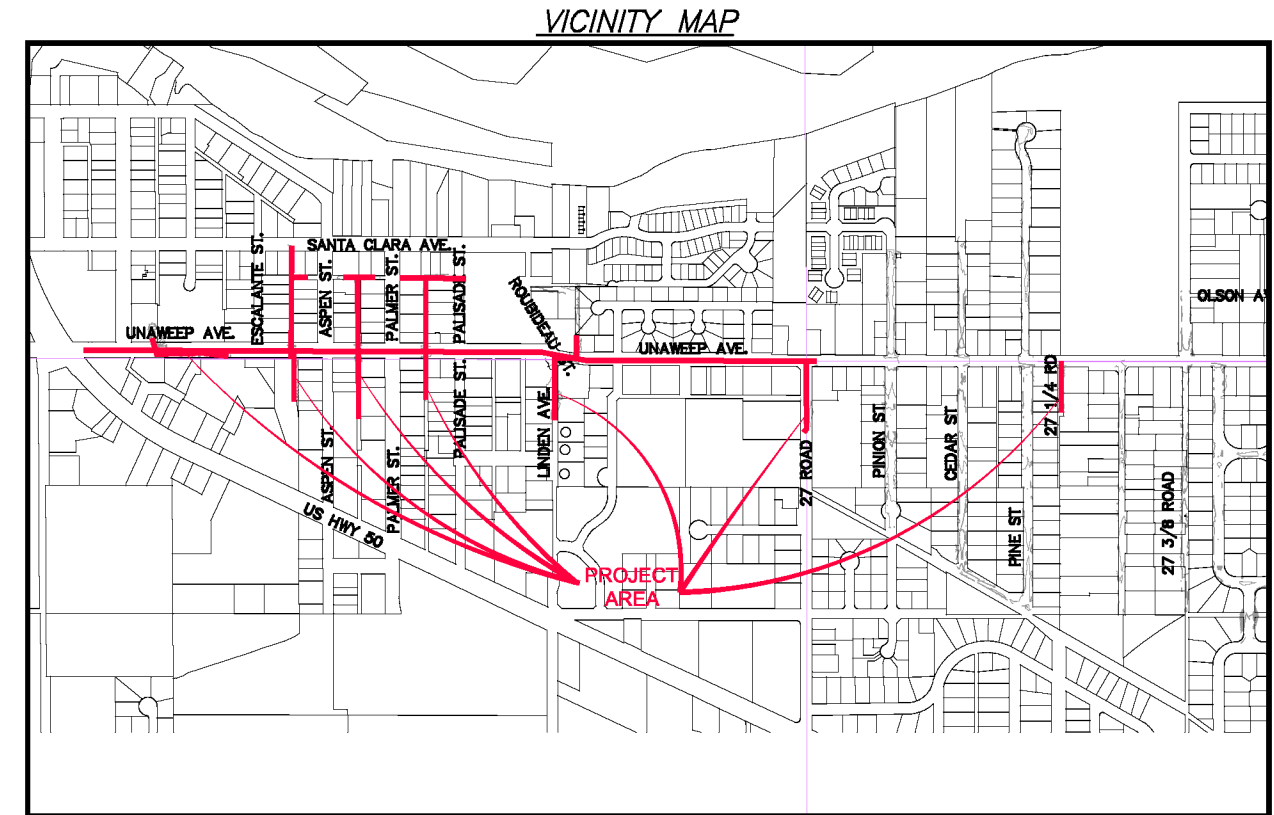


Date: 6/17/2021

1 inch = 188 feet

# 2021 SEWER LINE REPLACEMENT - PHASE A

1 — Cover Sheet	26 — 27 Road P&P	Sta 90+00 — 92+00
2 — Standard Abbreviations, Legend and Symbols	27 — 27 Road P&P	Sta 92+00 — 94+00
3 — Summary of Approximate Quantities	28 — 27 1/4 Road P&P	Sta 10+00 — 12+00
4 — Project Control Map	29 — UnawEEP Ave. Overlay	
5 — Duck Pond P&P	30 — UnawEEP Ave. Overlay	
6 — Duck Pond P&P	31 — Escalante St. Overlay	
7 — Duck Pond P&P	32 — Aspen St. Overlay	
8 — Escalante Alley P&P	33 — Palmer St. Overlay	
9 — Escalante Alley P&P	34 — Palisade St. Overlay	
10 — Escalante Alley P&P	35 — Roubideau St. Overlay	
11 — Escalante Alley P&P	36 — Escalante Alley P&P - ALT 1	Sta 22+00 — 24+00
12 — Escalante Alley P&P	37 — Escalante Alley P&P - ALT 1	Sta 24+00 — 26+00
13 — Aspen Alley P&P	38 — Escalante Alley P&P - ALT 1	Sta 26+00 — 28+17
14 — Aspen Alley P&P	39 — Escalante Alley P&P - ALT 1	Sta 30+00 — 31+20
15 — Aspen Alley P&P	40 — Aspen Alley P&P - ALT 1	Sta 42+00 — 44+00
16 — Aspen Alley P&P	41 — Aspen Alley P&P - ALT 1	Sta 44+00 — 46+00
17 — Aspen Alley P&P	42 — Aspen Alley P&P - ALT 1	Sta 46+00 — 47+63
18 — Palmer Alley P&P	43 — Aspen Alley P&P - ALT 1	Sta 50+00 — 52+30
19 — Palmer Alley P&P	44 — Palmer Alley P&P - ALT 1	Sta 60+00 — 62+20
20 — Palmer Alley P&P	45 — Palmer Alley P&P - ALT 1	Sta 62+20 — 64+40
21 — Palmer Alley P&P	46 — Palmer Alley P&P - ALT 1	Sta 64+40 — 66+60
22 — Palmer Alley P&P	47 — Palmer Alley P&P - ALT 1	Sta 70+00 — 72+00
23 — Linden Ave P&P	48 — Palmer Alley P&P - ALT 1	Sta 72+00 — 73+24
24 — Linden Ave P&P	49 — 27 1/4 Road P&P - ALT 1	Sta 10+00 — 12+00
25 — Linden Ave P&P		



UTILITIES AND AGENCIES								
AGENCY	NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE-WK	FAX
CITY OF GRAND JUNCTION	ERIC MOCKO	PROJECT ENGINEER	PROJECT ENGINEER	333 WEST AVE BLDG C	333 WEST AVE BLDG C	GRAND JCT., CO 81501	(970) 256-4017	(970) 256-4022
CITY OF GRAND JUNCTION	ANNA PURTSCHER	ENGINEERING SPECIALIST	SANITARY SEWER	333 WEST AVE BLDG C	333 WEST AVE BLDG C	GRAND JCT., CO 81501	(970) 244-1559	(970) 256-4022
ORCHARD MESA IRRIGATION	MAX SCHMIDT	MANAGER	IRRIGATION	668 38 RD	668 38 RD	PALISADE, CO 81526	(970) 464-7885	(970) 464-5928
SPECTRUM	JEFF VALDEZ	MANAGER	CABLE TV	2502 FORESIGHT CIRCLE	2502 FORESIGHT CIRCLE	GRAND JCT., CO 81504	(970) 245-8750	(970) 245-6803
CENTURYLINK	CHRIS JOHNSON	ENGINEER	TELEPHONE	2524 BLICHMANN AVE	2524 BLICHMANN AVE	GRAND JCT., CO 81504	(970) 244-4311	(970) 240-4349
UTE WATER	JUSTIN BATES	SUPERVISOR	WATER	PO BOX 460	2190 H 1/4 RD	GRAND JCT., CO 81502	(970) 242-7491	(970) 242-9189
XCEL	STEVE PIBURN	UNIT MANAGER	ELECTRIC	2538 BLICHMANN AVE	2538 BLICHMANN AVE	GRAND JCT., CO 81506	(970) 244-2664	(970) 244-2664
XCEL	SARAH DARRICAU	UNIT MANAGER	GAS	2538 BLICHMANN AVE	2538 BLICHMANN AVE	GRAND JCT., CO 81506	(970) 244-2656	(970) 244-2656

PROJECT NO. F0016-F001641L

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

REVISION	DESCRIPTION	DATE
REVISION $\Delta$ XXX	UPDATES TO PLAN AND PROFILES	06/2021
REVISION $\Delta$ XXX		201X
REVISION $\Delta$ XXX		201X
REVISION $\Delta$ XXX		201X

CITY OF  
**Grand Junction**  
COLORADO

*Public Works*  
**Engineering Division**



DRAWING STATUS:	
●	PROGRESS
○	FINAL CONSTRUCTION DRAWINGS
○	ASBUILT
DESIGNED BY:	
ERIC MOCKO	05/2021
REVIEWED BY:	
KEN HALEY, ENGINEERING MANAGER	06/2021
AUTHORIZED FOR CONSTRUCTION	
KEN HALEY, ENGINEERING MANAGER	06/2021
ACCEPTED AS CONSTRUCTED	
XXX, PROJECT ENGINEER	201X

2021 SEWER LINE REPLACEMENT - PHASE A

### ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT
AP	ANGLE POINT
ASD	ANCHORED STRAW BALES
ASP	ALUMINIZED STEEL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BF	BUTTERFLY VALVE
BOW	BACK OF WALK
BOR	BEGIN CURB RETURN
BOT	BOTTOM
BSWMP	BETTER STORM WATER MANAGEMENT PRACTICES CHORD
CA	CORRUGATED ALUMINUM PIPE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CI	CAST IRON
C.G.& SW	CURB, GUTTER & SIDEWALK
C	CENTER LINE
C	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	CITY SURVEY MONUMENT
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DI	DUCTILE IRON
DWY	DRIVEWAY
E	ELECTRIC
ECR	END CURB RETURN
EG	EDGE OF GUTTER
EL	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FB	FULL BODY
FC	FACE OF CURB
FG	FINISHED GRADE
F	FLOW LINE
FL	FLANGE
FM	FORCE MAIN
FO	FIBER OPTICS
FS	FAR SIDE
FTG	FOOTING
G	GAS
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
IRR	IRRIGATION
L	LENGTH OF ARC
LC	LONG CHORD
LF	LINEAR FEET
LL	LONG ARC
LS	SHORT ARC
LT	LEFT
MB	MAILBOX
MCSM	MESA COUNTY SURVEY MONUMENT
MH	MANHOLE
MJ	MECHANICAL JOINT
MW	MILL WRAP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOP	NO ONE PERSON
NRCP	NON-REINFORCED CONCRETE PIPE
NS	NEAR SIDE
NTS	NOT TO SCALE
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	POLYETHYLENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCR	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RG	RESTRAINED GLANDS
RI	LONG RADIUS
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAIL ROAD
RS	SHORT RADIUS
RT	RIGHT
S	SLOPE
SAN	SANITARY
SC	SHORT CHORD
SCD	STANDARD CONTRACT DOCUMENTS
SCH	SCHEDULE
SF	SILT FENCE
SL	SECTION LINE
SSRB	STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION
SSUU	STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND UTILITIES
STA	STATION
STL	STEEL
STM	STORM
T	TELEPHONE
TAN	LENGTH OF TANGENT
TC	TOP OF CURB
TH	TEST HOLE
TV	TELEVISION
(TYP)	TYPICAL
UU	UNDERGROUND UTILITIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPCC	VERTICAL POINT OF COMPOUND CURVATURE
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
Δ	DELTA ANGLE

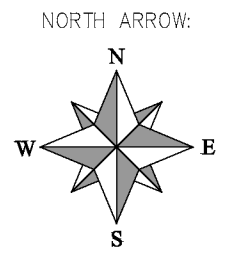
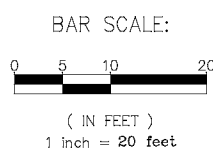
### LEGEND

BSWMP	BSWMP
DRAINAGE BASIN BOUNDARY	
BSWMP	BSWMP
ANCHORED STRAW BALES	
BSWMP	BSWMP
SILT FENCE	
BUILDING	
CONCRETE CURB AND GUTTER	
CONCRETE CURB, GUTTER, & SIDEWALK	
CONCRETE DITCH	
CONCRETE SIDEWALK	
CULVERT	
EARTH DITCH	
EDGE OF GRAVEL	
EDGE OF PAVEMENT	
FENCE (BARBED WIRE)	
FENCE (CHAIN LINK)	
FENCE (IRON)	
FENCE (PLASTIC)	
FENCE (WOOD)	
FENCE (WOVEN WIRE)	
GUARD RAIL	
HATCHING: INDICATES ASPHALT REMOVAL	
HATCHING: INDICATES CONCRETE REMOVAL	
HATCHING: INDICATES STAGING AREA	
LINE (CENTER OF IMPROVEMENTS)	
LINE (CITY LIMITS)	
LINE (CONTROL)	
LINE (EASEMENT)	
LINE (MONUMENT/SECTION)	
LINE (PROPERTY)	
LINE (RIGHT OF WAY)	
MATCH LINE	
PIPE (IRRIGATION)	
PIPE (SIPHON)	

PROPOSED CONCRETE CURB AND GUTTER	
PROPOSED CONCRETE CURB, GUTTER, & SIDEWALK	
PROPOSED CONCRETE SIDEWALK	
PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN)	
ALL PROPOSED FEATURES NOT SHOWN IN LEGEND WILL BE SHOWN THE SAME AS THEIR EXISTING COUNTERPART, BUT INDICATED BY BOLDER LINETYPE	
RAIL ROAD	
RETAINING WALL	
STRIPING (CONTINUOUS WHITE)	
STRIPING (DASHED WHITE)	
STRIPING (CONTINUOUS YELLOW)	
STRIPING (DASHED YELLOW)	
TOP OF SLOPE	
CONTOUR LINES (SHOWN BETWEEN TOP & TOE)	
TOE OF SLOPE	
TRAFFIC DETECTOR LOOP	
UTILITY LINE (ABANDON) (THIS CASE A WATER LINE)	
UTILITY LINE (CABLE TV)	
UTILITY LINE (ELECTRIC)	
UTILITY LINE (FIBER OPTIC)	
UTILITY LINE (GAS)	
UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER)	
UTILITY LINE (OVERHEAD POWER)	
UTILITY LINE (OVERHEAD TELEPHONE)	
UTILITY LINE (SANITARY SEWER)	
UTILITY LINE (SANITARY SEWER FORCE MAIN)	
UTILITY LINE (SANITARY SEWER SERVICE)	
UTILITY LINE (STORM SEWER)	
UTILITY LINE (STORM SEWER, PERFORATED)	
UTILITY LINE (STORM/SANITARY SEWER SEWER COMBINATION)	
UTILITY LINE (TELEPHONE)	
UTILITY LINE (WATER)	

### SYMBOLS

BENCH MARK	
CATCH BASIN	
CLEAN OUT	
CURB STOP	
FIRE HYDRANT	
GUY WIRE ANCHOR	
HEADGATE	
IRRIGATION PUMP	
MAILBOX	
MANHOLE (ELECTRIC)	
MANHOLE (GAS)	
MANHOLE (SANITARY/STORM)	
MANHOLE (TELEPHONE)	
MANHOLE (WATER)	
METER (GAS)	
METER (WATER)	
PEDESTAL (TELEPHONE)	
PEDESTAL (TV)	
PROPERTY PIN	
PULL BOX	
REDUCER FITTING	
SIGN OR POST (SIGN TYPE NOTED)	
SPRINKLER HEAD	
STREET LIGHT	
SURVEY MONUMENT (CITY)	
SURVEY MONUMENT (TYPE NOTED)	
TEST HOLE	
TRAFFIC PAINT MARKING	
TRAFFIC SIGNAL POLE AND MAST ARM	
UTILITY POLE	
VALVE (GAS)	
VALVE (IRRIGATION)	
VALVE (WATER)	
VEGETATION (HEDGE OR BUSH)	
VEGETATION (TREE STUMP)	
VEGETATION (TREE) (CALIPER SIZE NOTED)	
WATER HYDRANT	
WEIR	
YARD LIGHT	
PROPOSED 24"X48" METADOME LOCATION	



REVISION	DESCRIPTION	DATE	PROJECT NO.	SCALE: PLAN & PROFILE
REVISION Δ	ADDITIONAL SYMBOL	06/2021	DRAWN BY JCS DATE 4-02	
REVISION Δ			DESIGNED BY DATE	
REVISION Δ			CHECKED BY DATE	
REVISION Δ			APPROVED BY DATE	



PUBLIC WORKS  
ENGINEERING DIVISION

CITY OF GRAND JUNCTION  
STANDARD ABBREVIATIONS, LEGEND,  
AND SYMBOLS

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Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2					Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2					Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2					Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2 - Bid Alternate #1													
CONTRACTOR: _____					CONTRACTOR: _____					CONTRACTOR: _____					CONTRACTOR: _____													
Item No.	CDOT City Ref.	Description	Quantity	Units	Unit Price	Total Price	Item No.	CDOT City Ref.	Description	Quantity	Units	Unit Price	Total Price	Item No.	CDOT City Ref.	Description	Quantity	Units	Unit Price	Total Price	Item No.	CDOT City Ref.	Description	Quantity	Units	Unit Price	Total Price	
1	104.2	2-Way Sanitary Sewer Service Cleanout (Includes Cleanout Ring and Cover and Concrete Collar in unpaired areas) (See Std Detail SS-07)	74	EA	\$ _____	\$ _____	16	108.5	Manhole Barrel Section (D>5) (60" I.D.)	42.5	Vert. Ft.	\$ _____	\$ _____	43	401	Hot Bituminous Pavement (Patching)(2" Thick) (Grading SX Binder Grade PG 64-22, GYR=75) (One 2" Lift Top Mat) (T-Top Patch) (See City Std. Detail GU-03)	1,797	SY	\$ _____	\$ _____	18A	202	Removal of Existing Pipe (Size & type as shown on plans)	4,480	2 LF	\$ _____	\$ _____	
2	104.4	Encase Sanitary Sewer Pipe in Concrete per City Specification GU-04 (20' long) (if necessary)	2	EA	\$ _____	\$ _____	17	108.5	Manhole Interior Corrosion Protection (100 mils Dry Film Thickness, min.) (includes manhole surface preparation and filling in bugholes and imperfections prior to coating)	273	Vert. Ft.	\$ _____	\$ _____	44	401	Hot Mix Asphalt (2" thick) (Grading SX Binder Grade 64-22)	3,920	Tons	\$ _____	\$ _____	22A	202	Removal of Existing Surface Material	1,104	9 SY	\$ _____	\$ _____	
3	108.2	4" Sewer Service Pipe (SDR-35 PVC) (Includes Type A Bedding and Haunching Material, Backfill of Trench with Native Materials meeting 103.16 Earth Backfill material and End-of-Service Cap)	1,009	LF	\$ _____	\$ _____	18	202	Removal of Existing Pipe (Size & type as shown on plans)	2,016.2	LF	\$ _____	\$ _____	45	608	Concrete Curb and Gutter (2" Wide)	2	SY	\$ _____	\$ _____	23A	202	Removal of Asphalt Mat (Full Depth)	1,533	5 SY	\$ _____	\$ _____	
4	108.2	6" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	41.6	LF	\$ _____	\$ _____	19	202	Removal of Manhole (Price to include plugging existing abandoned pipes and removal and disposal of concrete sections)	12	EA	\$ _____	\$ _____	46	608.06	Concrete Driveway Section (6" Thick) (Residential)	2.6	SY	\$ _____	\$ _____	24A	202	Asphalt Removal (Planing)(Thickness Varies)	27,749	SY	\$ _____	\$ _____	
5	108.2	8" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	39	LF	\$ _____	\$ _____	20	202	Removal of Manhole (Remove Manhole Core Section, Ring, and Cover and deliver to City Shops. Contractor shall fill remaining barrel sections with flow fill material)	13	EA	\$ _____	\$ _____	47	608.06	Concrete Intersection Corner	17	SY	\$ _____	\$ _____	25A	202	Removal of Sod	8,011	SF	\$ _____	\$ _____	
6	108.2	10" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	375	LF	\$ _____	\$ _____	21	202	Abandon Pipe (Abandon pipe by plugging ends with concrete)	175	EA	\$ _____	\$ _____	48	608.06	Concrete Drainage Pan (6" Wide)	12.5	SY	\$ _____	\$ _____	26A	202	Removal of Concrete (Includes, but not limited to, curb, gutter, sidewalk, driveway, slabs, V-pans, curb ramps, intersection corners, aprons, landscape borders, and concrete walls)	243	SY	\$ _____	\$ _____	
7	108.2	15" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	335	LF	\$ _____	\$ _____	22	202	Removal of Existing Surface Material	488.0	SY	\$ _____	\$ _____	49	608/304	Monolithic Vertical Curb, Gutter, and Sidewalk (7-ft wide)	190.0	SY	\$ _____	\$ _____	31A	210	Reset Fence (Height and Material Shown on Plan)	206.7	LF	\$ _____	\$ _____	
8	108.2	24" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	420	LF	\$ _____	\$ _____	23	202	Removal of Asphalt Mat (Full Depth)	1,319.1	SY	\$ _____	\$ _____	50	627-30410	Preformed Plastic Pavement Marking (Symbol)	447	SF	\$ _____	\$ _____	36A	212	Re-Sod Area as Shown (Includes 6" Thick Imported Topsoil placed prior to sod placement)	8,011	SF	\$ _____	\$ _____	
9	108.2	8" Gravity Sewer Pipe (Certa-Flo Pipe)(Certa-Flo PVC Gravity Sewer Pipe)(SDR-21) (ASTM D-2241) (20-ft Joints)(Joint Type: Certa-Lok Restrained Joint Integral Bell) (Includes all necessary Pipe-Bursting Installation Equipment) ( Pipe Bursting)	3,092	LF	\$ _____	\$ _____	24	202	Asphalt Removal (Planing)(Thickness Varies)	27,451	SY	\$ _____	\$ _____	51	630	Flagging	3,400	HR	\$ _____	\$ _____	38A	304	Aggregate Base Course (Class 6) (12" thick)	1,298	1 SY	\$ _____	\$ _____	
10	108.3	8" x 4" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	9	EA	\$ _____	\$ _____	25	202	Removal of Sod	4,885	SF	\$ _____	\$ _____	52	Overlay	24" X 48" MetaDome Surface Applied Overlay Tile, Non-Flanged Brick Red	34	Each	\$ _____	\$ _____	39A	304	Aggregate Base Course (Class 6) (6" thick)	1,282	3 SY	\$ _____	\$ _____	
11	108.3	8" x 4" Sewer Service Tap, Tapping Saddle (To be used on the Certa-Flo PVC pipe) (Includes saddle, bedding material, clean-out and all fitting required to align and connect the sewer service pipe to the sewer tap) (Contractor must properly support the tapping saddle with crushed pipe bedding material to avoid saddle rotation during backfilling and compaction)	63	EA	\$ _____	\$ _____	26	202	Removal of Concrete (Includes, but not limited to, curb, gutter, sidewalk, driveway, slabs, V-pans, curb ramps, intersection corners, aprons, landscape borders, and concrete walls)	225	SY	\$ _____	\$ _____	53	Pump	Bypass Sewage Pumping (As deemed necessary by City or Contractor)	1	Lump Sum	\$ _____	\$ _____	41A	401	Cold Mix Asphalt Patching (Temporary Patching) (3" thick) (to be used on Unawep Ave, as deemed necessary)	559	6 SY	\$ _____	\$ _____	
12	108.3	8" x 6" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	2	EA	\$ _____	\$ _____	27	202	Removal of Tree (size shown on plans)	2	EA	\$ _____	\$ _____	54	211	Dewatering (Includes acquiring a CDPHE Dewatering Permit and adhering to the discharge requirements of the State Permit) (if needed)	1	Lump Sum	\$ _____	\$ _____	42A	401	Hot Bituminous Pavement (4" Thick) (Grading SX Binder Grade PG 64-22)(GYR=75) (Two 2" Lifts)	1,464	5 SY	\$ _____	\$ _____	
13	108.5	Sanitary Sewer Basic Manhole (48" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. See City Std. Detail SS-02) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	22	EA	\$ _____	\$ _____	28	203	Potholing (as called out on plans)	2	EA	\$ _____	\$ _____	55	620	Portable Sanitary Facility	1	Lump Sum	\$ _____	\$ _____	43A	401	Hot Bituminous Pavement (Patching)(2" Thick) (Grading SX Binder Grade PG 64-22, GYR=75) (One 2" Lift Top Mat) (T-Top Patch) (See City Std. Detail GU-03)	2,095	SY	\$ _____	\$ _____	
14	108.5	Manhole Barrel Section (D>5) (48" I.D.)	85.6	Vert. Ft.	\$ _____	\$ _____	29	208	Storm Drain Inlet Protection (Silt-Sack Style or Approved Equal) (Includes Maintenance & Removal of Debris, & Removal of Inlet Protection)	2	EA	\$ _____	\$ _____	56	625	Construction Surveying (Includes As-Built Drawings)	1	Lump Sum	\$ _____	\$ _____	49A	608/304	Monolithic Vertical Curb, Gutter, and Sidewalk (7-ft wide)	203.9	SY	\$ _____	\$ _____	
15	108.5	Sanitary Sewer Basic Manhole (60" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. See City Std. Detail SS-02) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	7	EA	\$ _____	\$ _____	30	208	Erosion Control Log	198	LF	\$ _____	\$ _____	57	626	Mobilization	1	Lump Sum	\$ _____	\$ _____	53A	Pump	Bypass Sewage Pumping (As deemed necessary by City or Contractor)	1	Lump Sum	\$ _____	\$ _____	
							31	210	Reset Fence (Height and Material Shown on Plan)	225.0	LF	\$ _____	\$ _____	58	630	Traffic Control (Complete in Place)	1	Lump Sum	\$ _____	\$ _____	54A	211	Dewatering (Includes acquiring a CDPHE Dewatering Permit and adhering to the discharge requirements of the State Permit) (if needed)	1	Lump Sum	\$ _____	\$ _____	
							32	210	Reset/Repair Sprinkler System (Complete in Place)	1	Lump Sum	\$ _____	\$ _____	INC		Incentive HMA 64-22	---	---	---	\$	15,000.00	58A	630	Traffic Control (Complete in Place)	1	Lump Sum	\$ _____	\$ _____
							33	210	Reset Irrigation Pipe (PVC Irrigation Pipe) (Includes pipe, fittings, equipment, materials and labor to relocate irrigation pipe)	1	Lump Sum	\$ _____	\$ _____	MCR		Minor Contract Revisions	---	---	---	\$	100,000.00*							
							34	210	Adjust Valve Box (Price to include adjustment of Survey Monuments)	41	EA	\$ _____	\$ _____			<b>Bid Amount:</b>				\$								
							35	210	Adjust Manhole Ring and Cover (Sanitary and Storm Sewer)	17	EA	\$ _____	\$ _____			<b>Bid Amount:</b>				\$								
							36	212	Re-Sod Area as Shown (Includes 6" Thick Imported Topsoil placed prior to sod placement)	4,885	SF	\$ _____	\$ _____															
							37	214	Deciduous Tree (1 Inch Caliper) (Match in kind)	3	EA	\$ _____	\$ _____															
							38	304	Aggregate Base Course (Class 6) (12" thick)	1,092.5	SY	\$ _____	\$ _____															
							39	304	Aggregate Base Course (Class 6) (6" thick)	896.0	SY	\$ _____	\$ _____															
							40	304	Aggregate Base Course (Class 6) - Shoulder Edging Gravel	200	Tons	\$ _____	\$ _____															
							41	401	Cold Mix Asphalt Patching (Temporary Patching) (3" thick) (to be used on Unawep Ave, as deemed necessary)	524.1	SY	\$ _____	\$ _____															
							42	401	Hot Bituminous Pavement (4" Thick) (Grading SX Binder Grade PG 64-22)(GYR=75) (Two 2" Lifts)	1,250.1	SY	\$ _____	\$ _____															

**NOTE:** Do not include pricing for this Bid Alternate #1 when calculating your Base Bid total price. This Bid Alternate request is for the option of the City to select an alternate method to Items No. 5, 9-11, 18, 22-26, 31, 36, 38-39, 41-43, 49, 53-54, 58 of the Base Bid Price Schedule.

Lowest bidder shall be determined by comparing all Base Bid price proposals received against that of all Bid Alternate #1 price proposals received, and shall be awarded to the overall lowest total bid price.

Bid Alternate #1 Items No. 5A, 9A-11A, 18A, 22A-26A, 31A, 36A, 38A-39A, 41A-43A, 49A, 53A-54A, 58A refer to the Bid Alternate #1 Construction Plans (Sheets 36-49), and if selected would replace Items No. 5, 9-11, 18, 22-26, 31, 36, 38-39, 41-43, 49, 53-54, 58 of the Base Bid Price Schedule.

Bid Alternate #1 includes a minimal amount of pipe bursting and is provided to accommodate Contractors who are confident and experienced in open-trench construction with limited space and overhead/underground utilities to protect in place. Bidders are not required to provide a price for these Bid Alternate #1 line items. However, if so, the Bidder would only be considered for their submitted Base Bid price proposal.

REVISION $\Delta$ REVISED QUANTITIES	DATE 06/2021	PROJECT NO.	DESCRIPTION
REVISION $\Delta$		DRAWN BY DJM	DATE 05/2021
REVISION $\Delta$		DESIGNED BY DJM	DATE 05/2021
REVISION $\Delta$		CHECKED BY ECM	DATE 05/2021
REVISION $\Delta$		APPROVED BY KH	DATE 05/2021

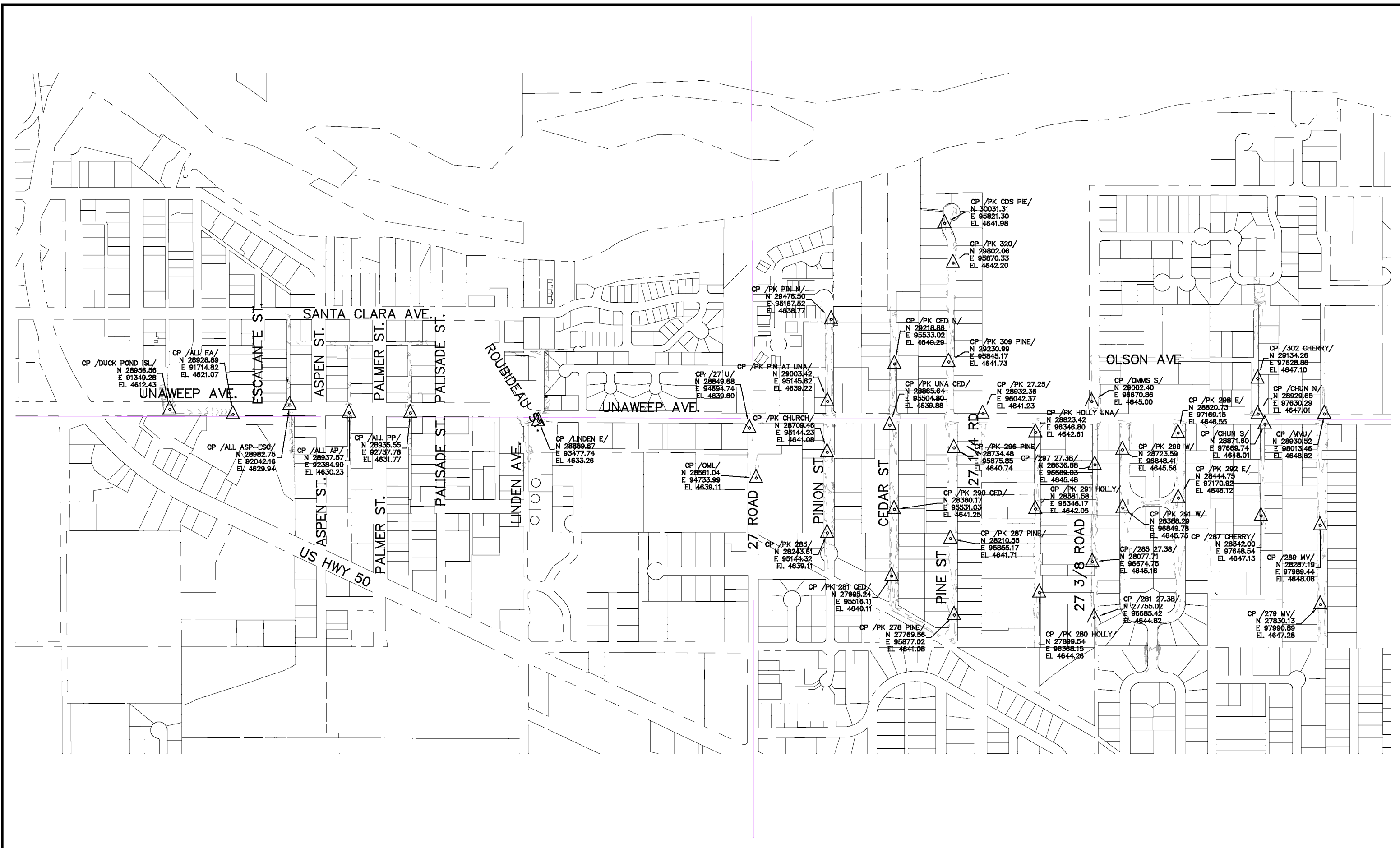
SCALES: PLAN & PROFILE



**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
SUMMARY OF APPROXIMATE QUANTITIES**

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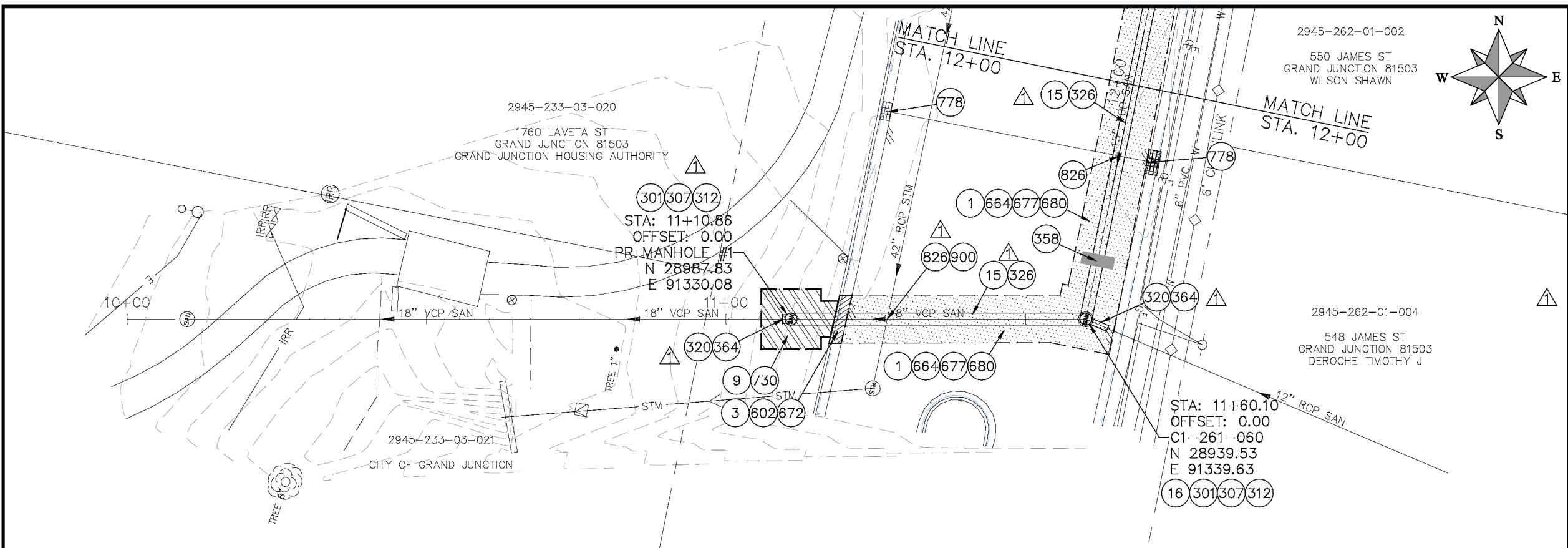


REVISION	DESCRIPTION	DATE	PROJECT NO.	SCALE: PLAN & PROFILE
REVISION Δ			DRAWN BY DJM DATE 05/2021	
REVISION Δ			DESIGNED BY DJM DATE 05/2021	
REVISION Δ			CHECKED BY EGM DATE 05/2021	
REVISION Δ			APPROVED BY KH DATE 05/2021	

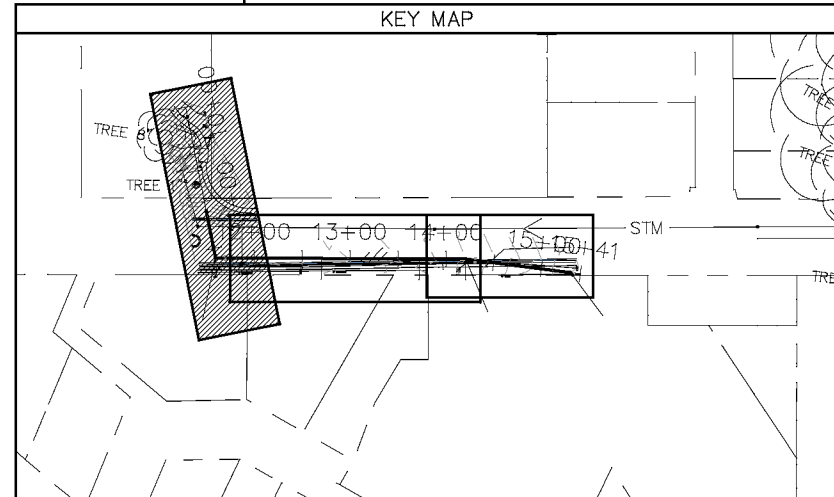
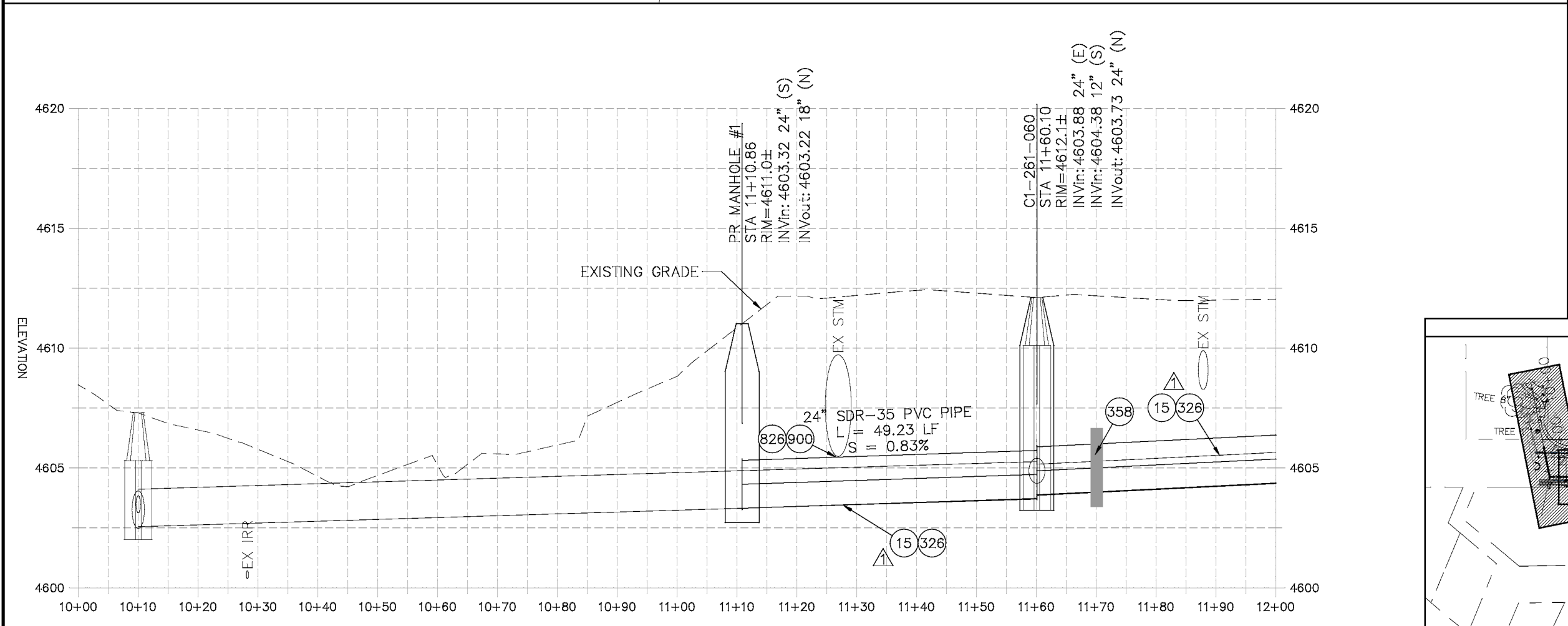


**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT – PHASE A  
PROJECT CONTROL MAP**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 120 210 - RESET/REPAIR SPRINKLER IRRIGATION SYSTEM. (IF NECESSARY)
  - 301 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (60" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 307 102.11/108.5 - MANHOLE BARREL SECTION (D>6") (60" I.D.)
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 328 102.9/108.2 - 24" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPROVED TRENCH BACKFILL MATERIAL.
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 602 608.06 - CONCRETE CURB AND GUTTER (2" WIDE)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 672 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 778 208 - STORM DRAIN INLET PROTECTION (SILT-SACK STYLE OR APPROVED EQUAL) (NO GRAVEL/ROCK BAG FILTERS ARE ALLOWED)
  - 801 PROTECT TREE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
  - 900 CONTRACTOR AND CITY TO VERIFY INVERT ELEVATION OF EXISTING STORM SEWER. CONTRACTOR SHALL ENCASE SANITARY SEWER PIPE (PER CITY SPECIFICATION GU-04). POT HOLING REQUIRED.
- NOTE:  
SEWER SERVICE LOCATIONS ARE UNKNOWN. SEWER SERVICES SHALL BE VERIFIED BY CONTRACTOR AND CITY. REPLACE SEWER SERVICES PER CITY SPECIFICATIONS.



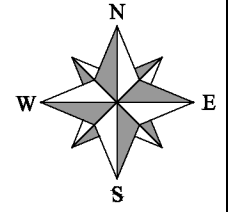
REVISION	DESCRIPTION	DATE	PROJECT NO.	SCALE: PLAN & PROFILE
REVISION Δ UPDATES TO PLAN AND PROFILES		06/2021		HORIZONTAL: 1" = 20'
REVISION Δ XXX		202X	DRAWN BY DJM DATE 05/2021	0 5 10 20
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 5/2021	VERTICAL: 1" = 5'
REVISION Δ XXX		202X	CHECKED BY EM DATE 2021	0 1.25 2.5 5
REVISION Δ XXX		202X	APPROVED BY KH DATE 2021	



**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
DUCK POND AREA PLAN AND PROFILE  
STA 10+00 TO STA 12+00**

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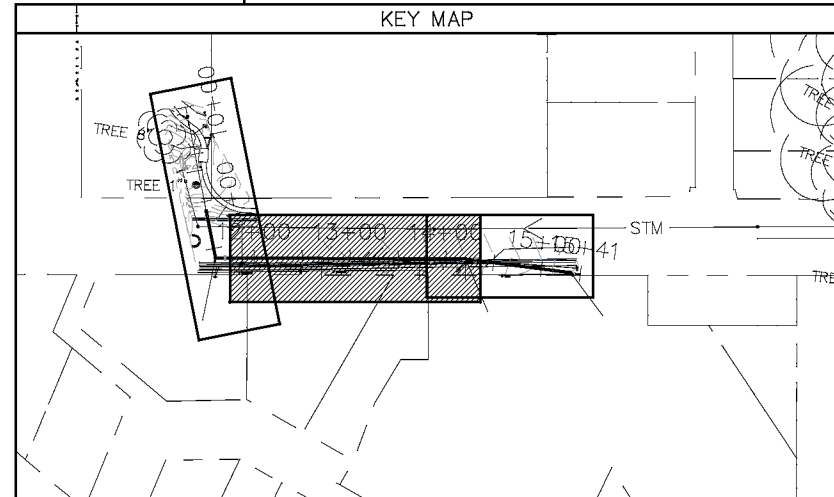
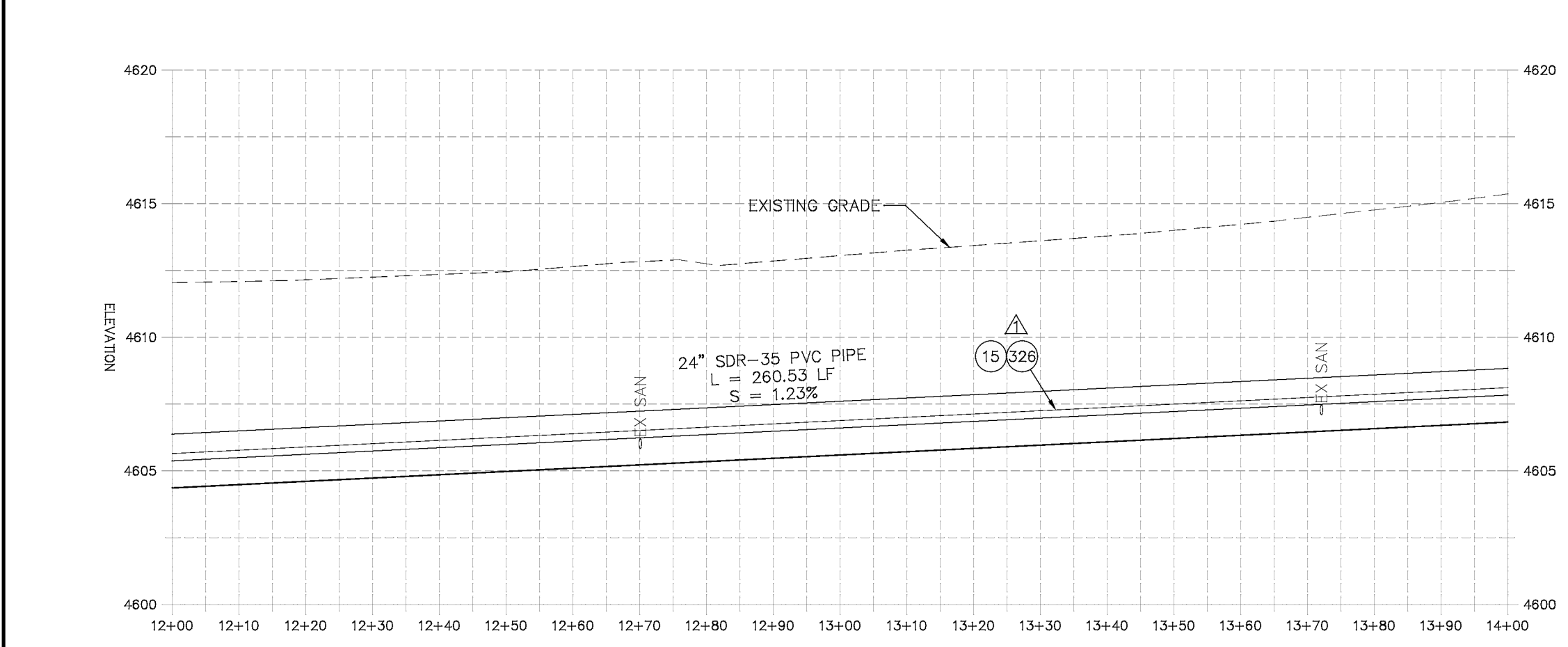
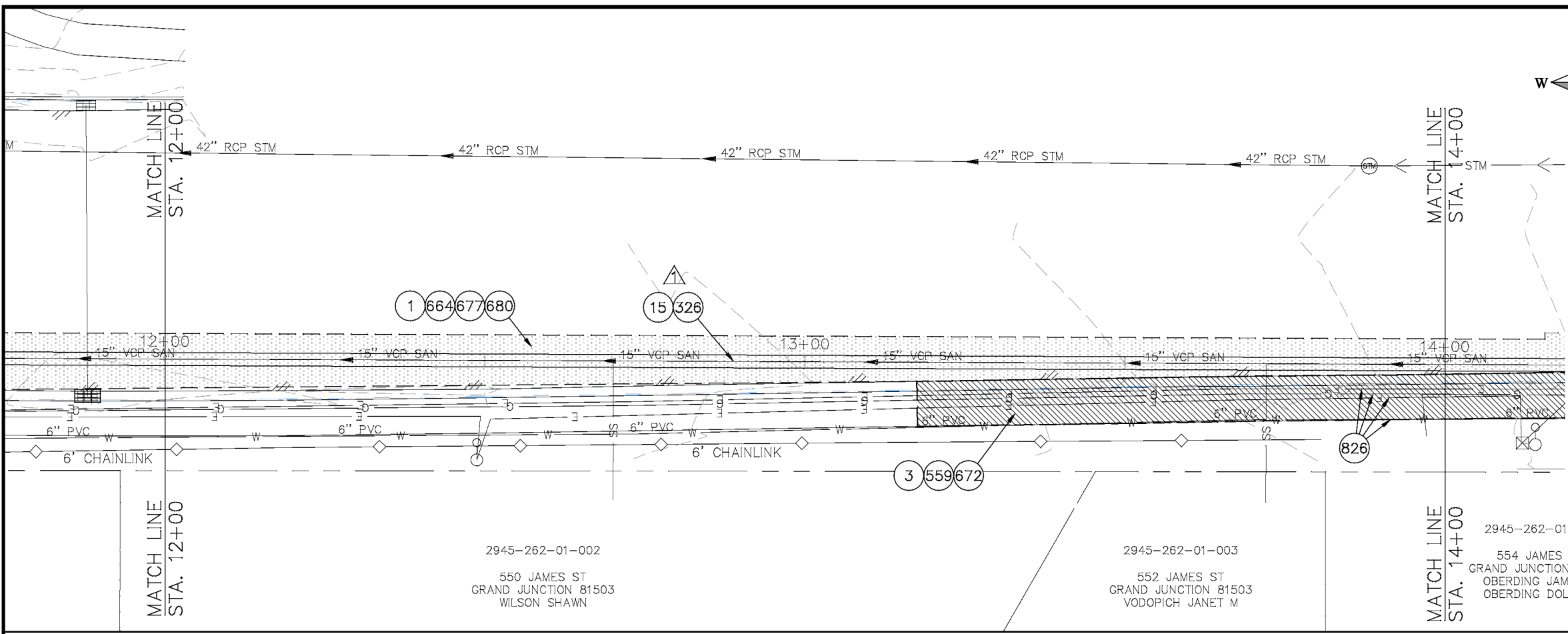


CONSTRUCTION NOTES

- ① 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- ③ 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- ⑮ 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- ③26 102.9/108.2 - 24" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
- ⑤59 608.06 - MONOLITHIC VERTICAL CURB, GUTTER AND SIDEWALK (7" WIDE)
- ⑥64 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
- ⑥72 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- ⑥77 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
- ⑥80 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- ⑧26 PROTECT EXISTING UTILITY LINE IN PLACE.



NOTE:  
 SEWER SERVICE LOCATIONS ARE UNKNOWN. SEWER SERVICES SHALL BE VERIFIED BY CONTRACTOR AND CITY. REPLACE SEWER SERVICES PER CITY SPECIFICATIONS.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION	UPDATES TO PLAN AND PROFILES	06/2021		DJM	05/2021
REVISION		202X		DJM	05/2021
REVISION		202X		EGM	05/2021
REVISION		202X		KH	05/2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	
VERTICAL: 1" = 5'	

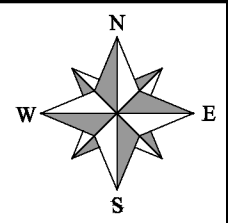
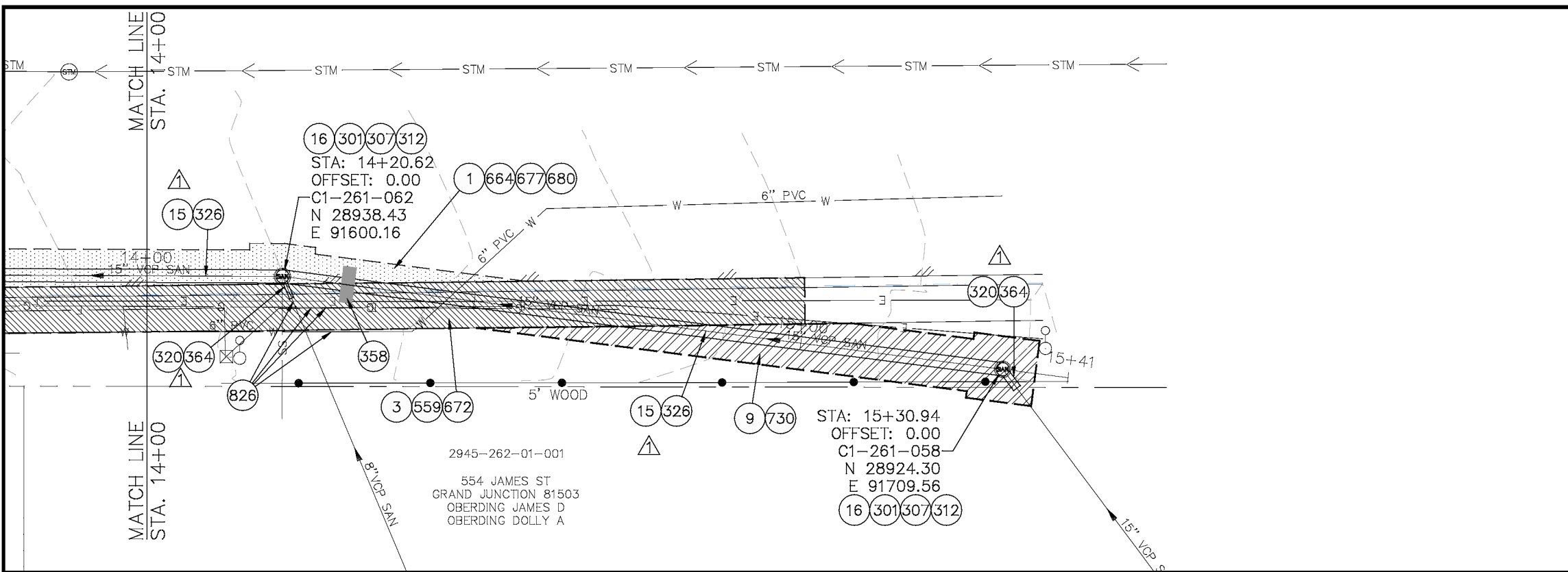


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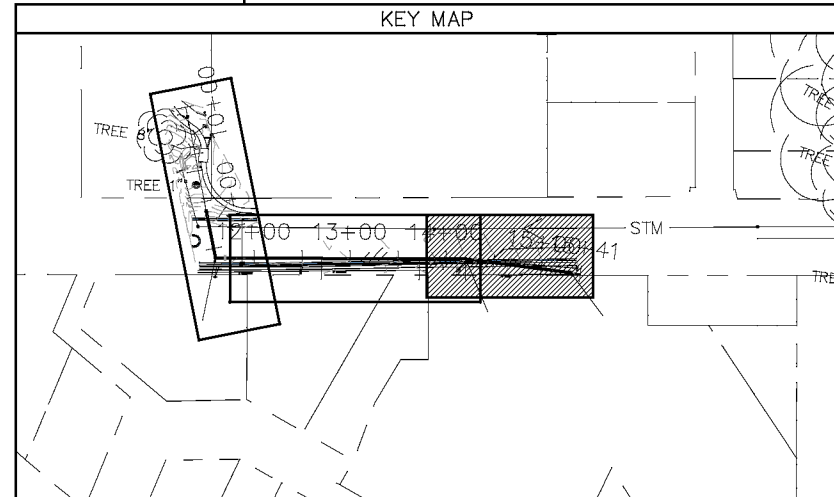
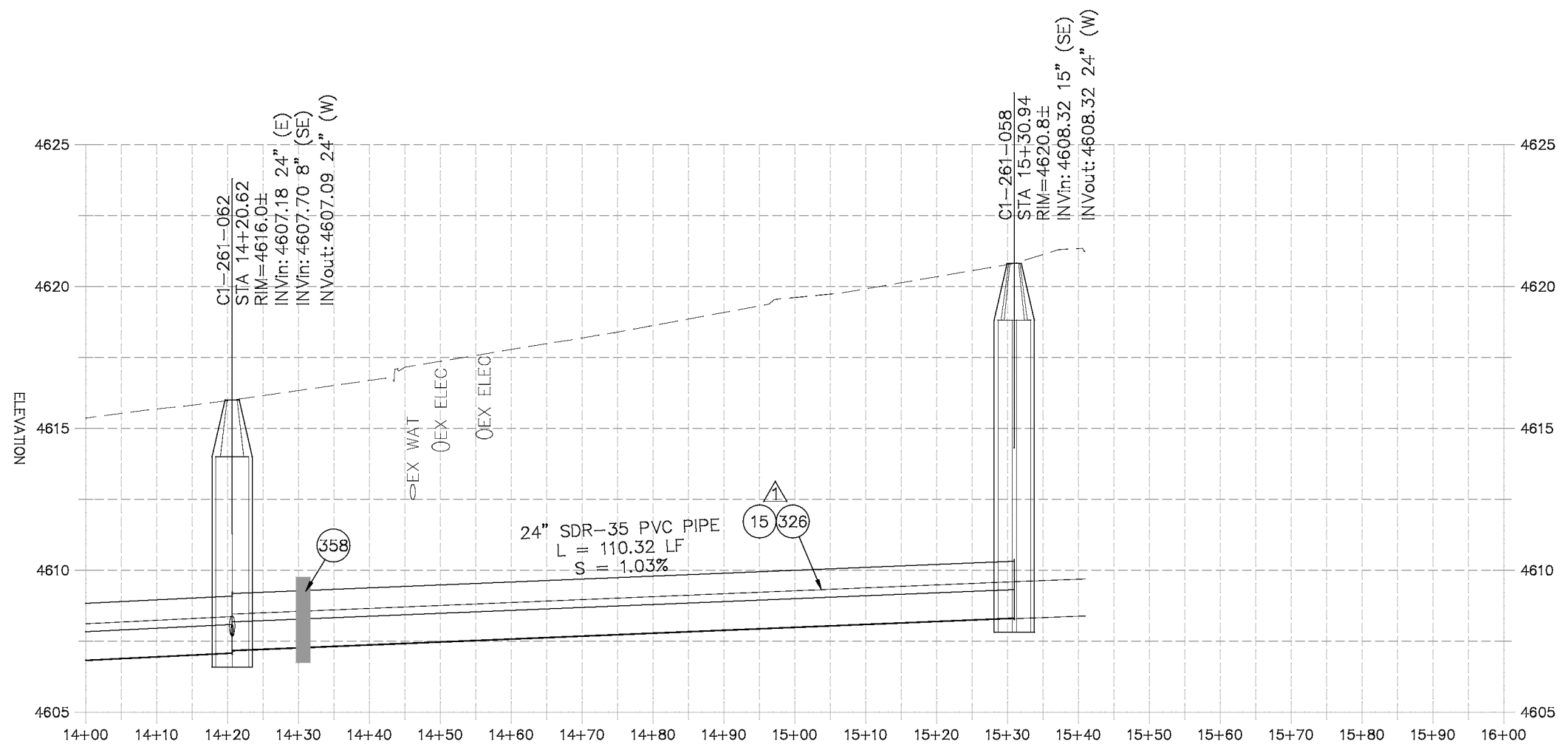
2021 SEWER LINE REPLACEMENT - PHASE A  
DUCK POND AREA PLAN AND PROFILE  
STA 12+00 TO STA 14+00

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- CONSTRUCTION NOTES**
- ① 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - ③ 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - ⑨ 202 - REMOVAL OF SOD.
  - ⑮ 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - ⑯ 202 - REMOVAL OF MANHOLE
  - ⑤01 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (60" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - ⑤07 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (60" I.D.)
  - ⑤12 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL. MINIMUM THICKNESS)
  - ⑤20 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - ⑤26 102.9/108.2 - 24" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - ⑤38 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - ⑤64 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - ⑤59 608.06 - MONOLITHIC VERTICAL CURB, GUTTER AND SIDEWALK (7" WIDE)
  - ⑤64 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - ⑤72 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - ⑤77 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - ⑤80 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 7B) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - ⑦30 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - ⑧26 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE:** SEWER SERVICE LOCATIONS ARE UNKNOWN. SEWER SERVICES SHALL BE VERIFIED BY CONTRACTOR AND CITY. REPLACE SEWER SERVICES PER CITY SPECIFICATIONS.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021		DJM	05/2021
REVISION Δ	XXX	202X		DJM	05/2021
REVISION Δ	XXX	202X		EGM	05/2021
REVISION Δ	XXX	202X		KH	05/2021

SCALES: PLAN & PROFILE	
HORIZONTAL:	1" = 20'
VERTICAL:	1" = 5'

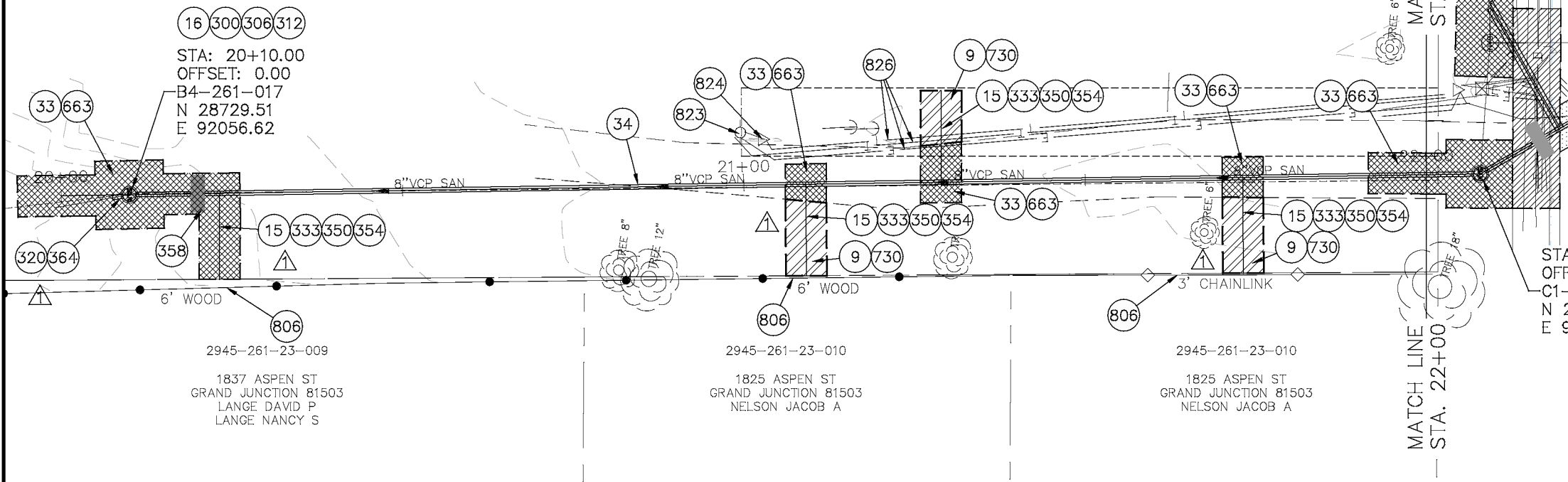


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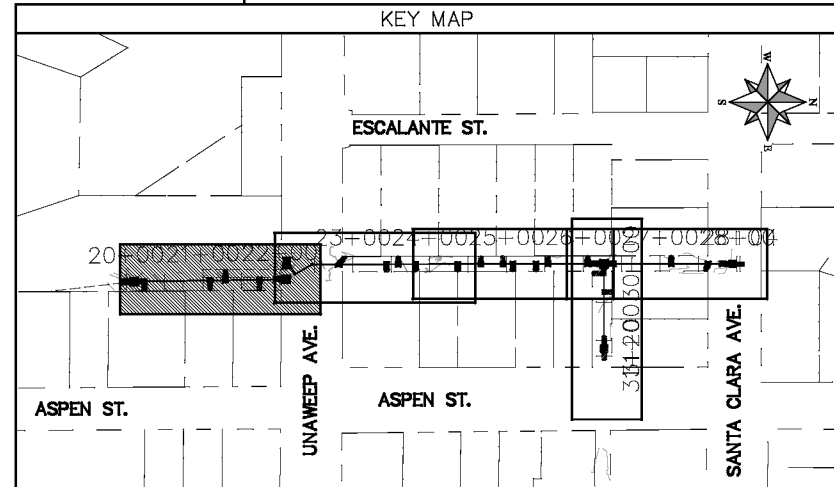
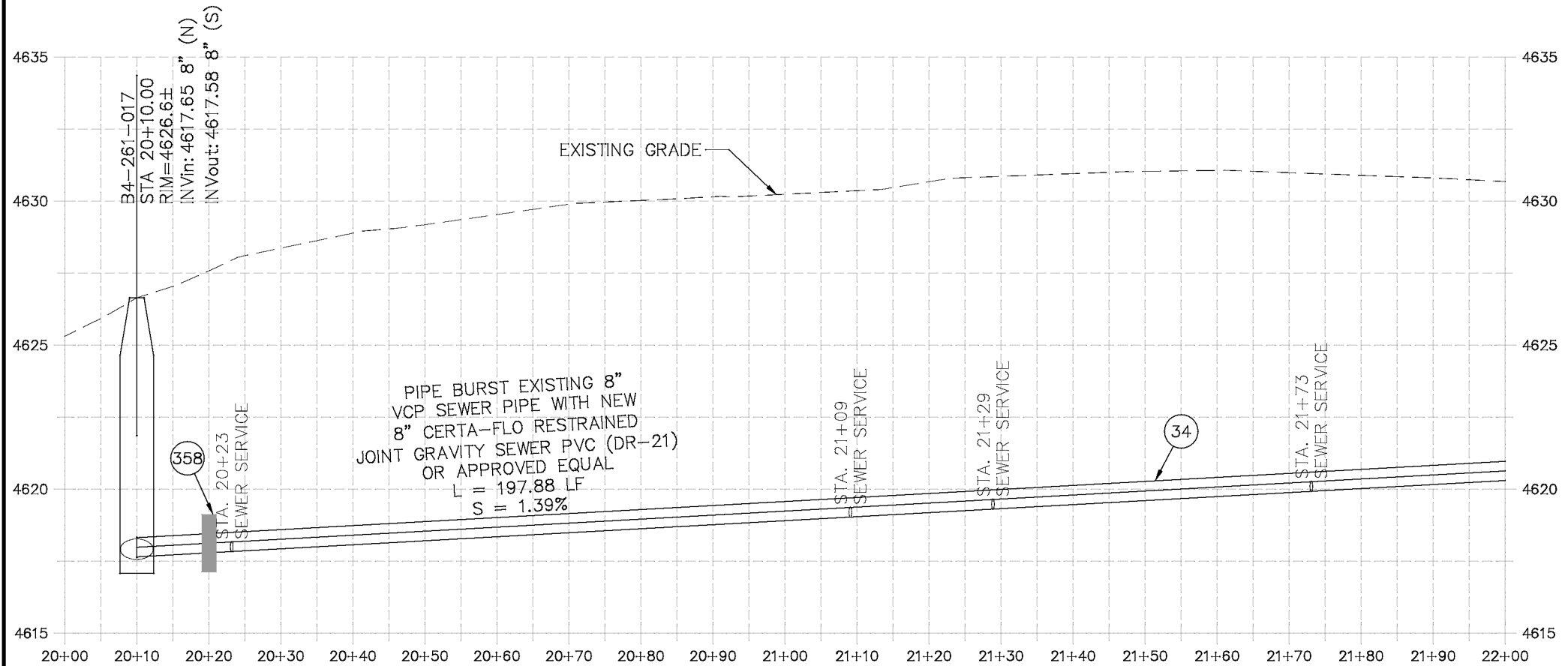
**2021 SEWER LINE REPLACEMENT - PHASE A  
DUCK POND AREA PLAN AND PROFILE  
STA 14+00 TO STA 16+00**

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2945-262-00-016  
 705 UNAWEEP AVE  
 GRAND JUNCTION 81503  
 PACE DARIN  
 PACE AMY



- CONSTRUCTION NOTES**
- 9 202 -- REMOVAL OF SOD.
  - 15 202 -- REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 -- REMOVAL OF MANHOLE
  - 33 202 -- REMOVE EXISTING SURFACE MATERIAL
  - 34 SP -- PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 300 102.11/108.5 -- SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 -- MANHOLE BARREL SECTION (D>6") (48" I.D.).
  - 312 102.11/108.5 -- MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 -- CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 333 102.9/108.2 -- 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 354 104.20 -- INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 -- CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 663 304 -- AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 -- RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 806 PROTECT FENCE
  - 823 PROTECT UTILITY POLE
  - 824 PROTECT UTILITY PEDESTAL
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE



REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION A	UPDATES TO PLAN AND PROFILES	06/2021		DJM	04/2021
REVISION B	XXX	202X		DJM	4/2021
REVISION C	XXX	202X		EM	2021
REVISION D	XXX	202X		KH	2021

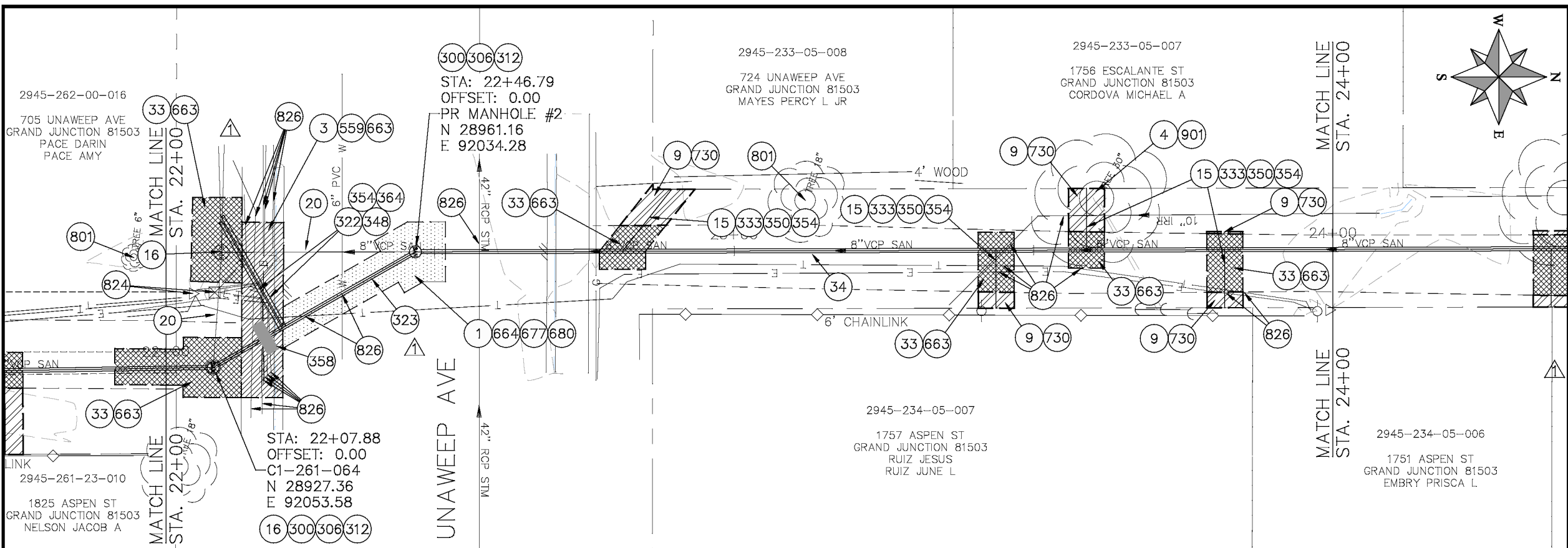
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



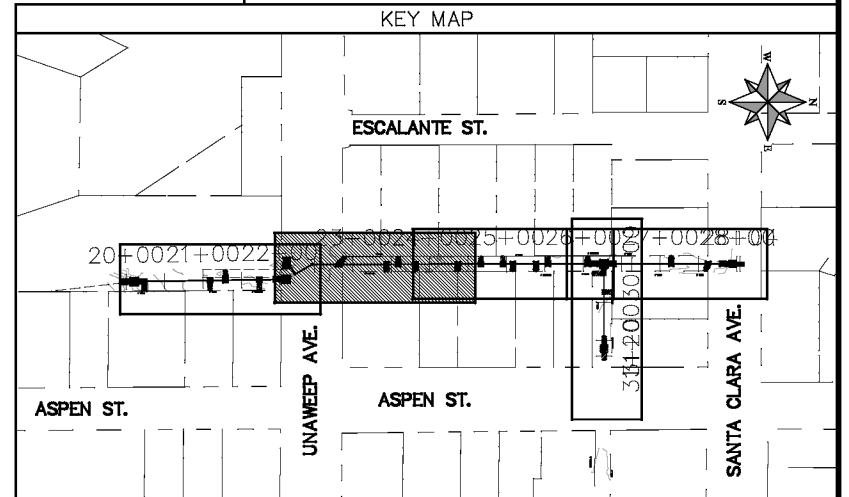
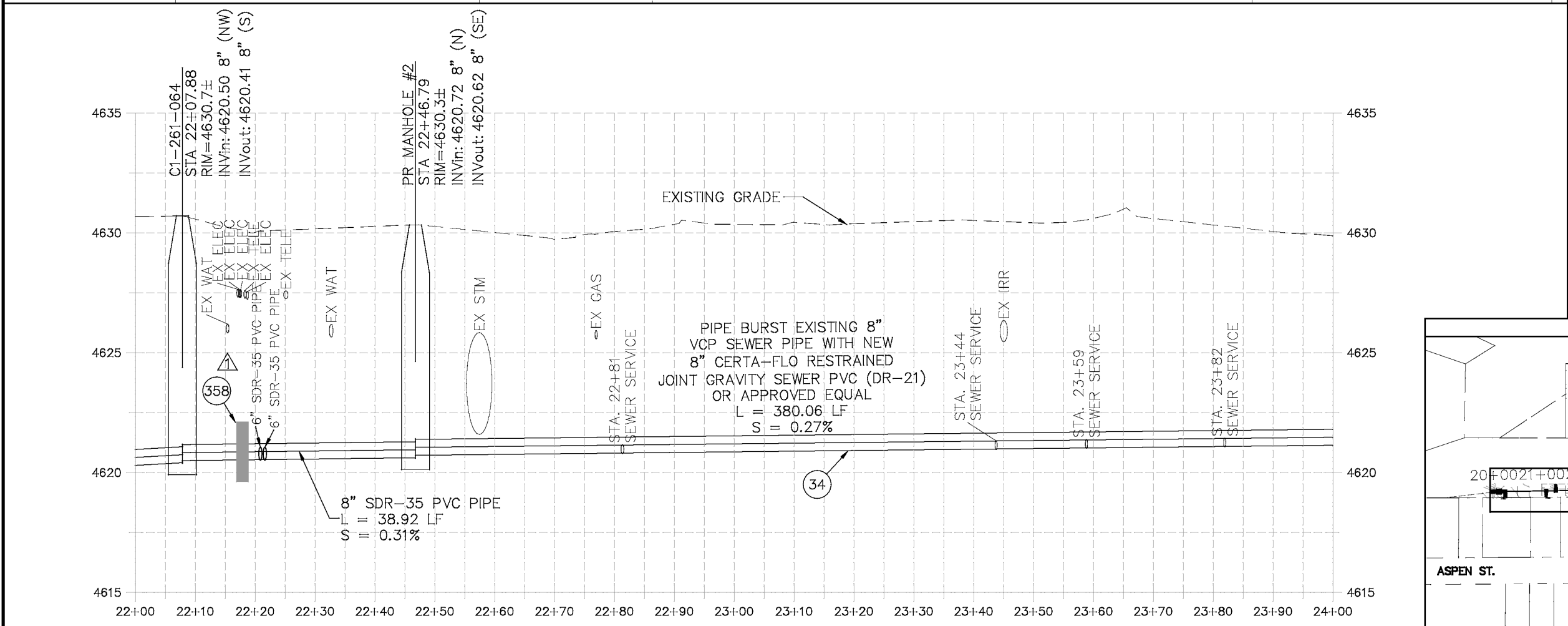
**PUBLIC WORKS  
 ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
 ESCALANTE ST & ASPEN ST ALLEY PLAN AND PROFILE  
 STA 20+00 TO STA 22+00**

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- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 4 202 - REMOVAL OF TREE (SIZE AS SHOWN ON PLAN)
  - 9 202 - REMOVAL OF SOD.
  - 16 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 18 202 - REMOVAL OF MANHOLE
  - 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>8") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODEUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 322 102.9/108.2 - 6" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 348 102.9/108.3 - 8" x 6" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-08).
  - 380 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 384 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 388 103 - CLAY CUT-OFF WALL. (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 384 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 608.06 - MONOLITHIC VERTICAL CURB, GUTTER AND SIDEWALK (7" WIDE)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, 6YR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 801 PROTECT TREE
  - 824 PROTECT UTILITY PEDESTAL
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
  - 801 REPLACE TREE



REVISION	DESCRIPTION	DATE	PROJECT NO.	SCALE: PLAN & PROFILE
REVISION Δ UPDATES TO PLAN AND PROFILES		06/2021		HORIZONTAL: 1" = 20'
REVISION Δ XXX		202X		0 5 10 20
REVISION Δ XXX		202X		VERTICAL: 1" = 5'
REVISION Δ XXX		202X		0 1.25 2.5 5

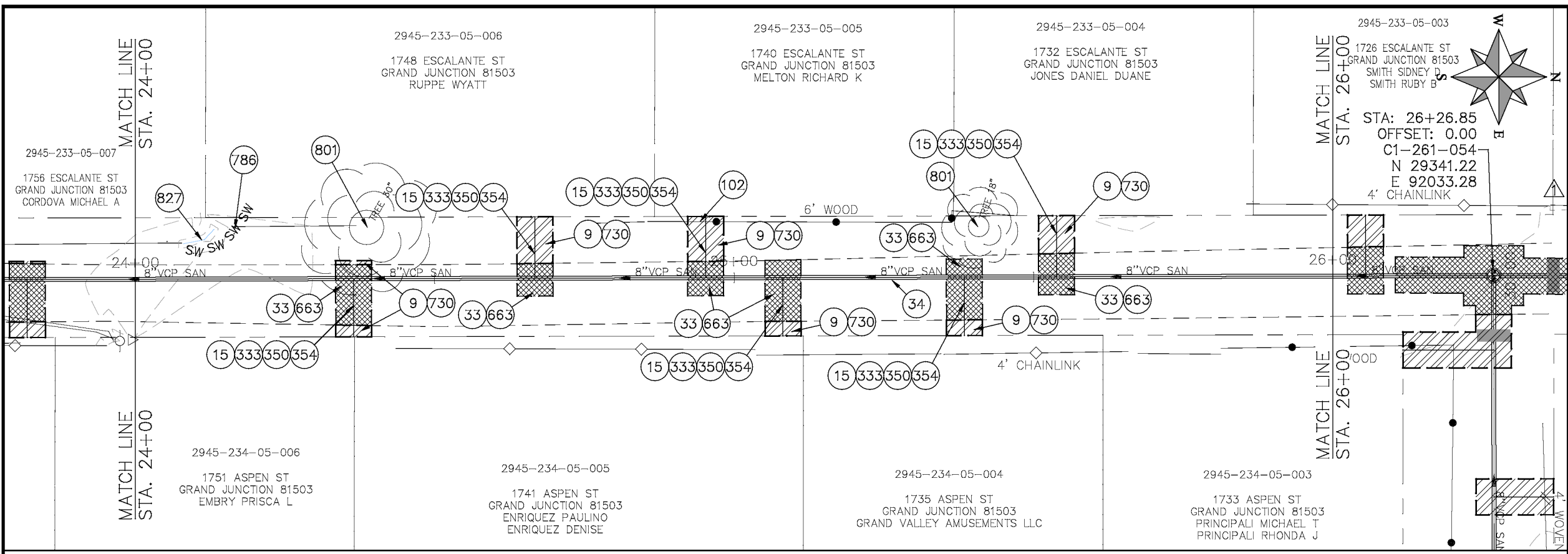
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2021	EM	2021
2021	KH	2021



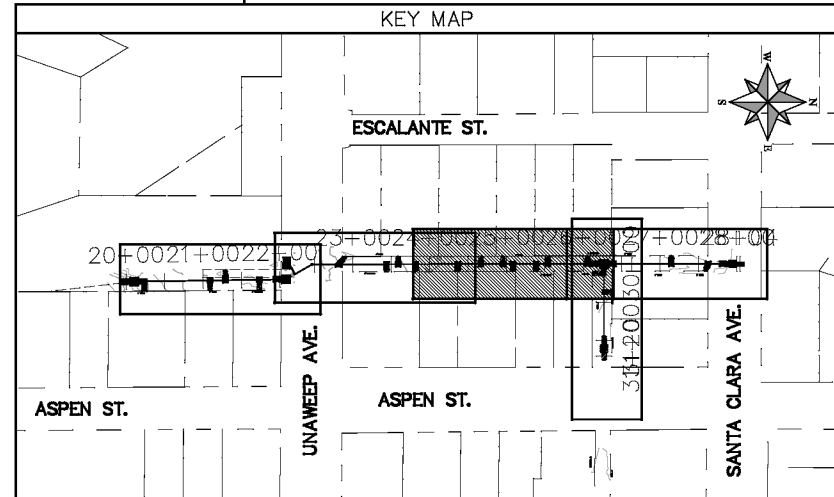
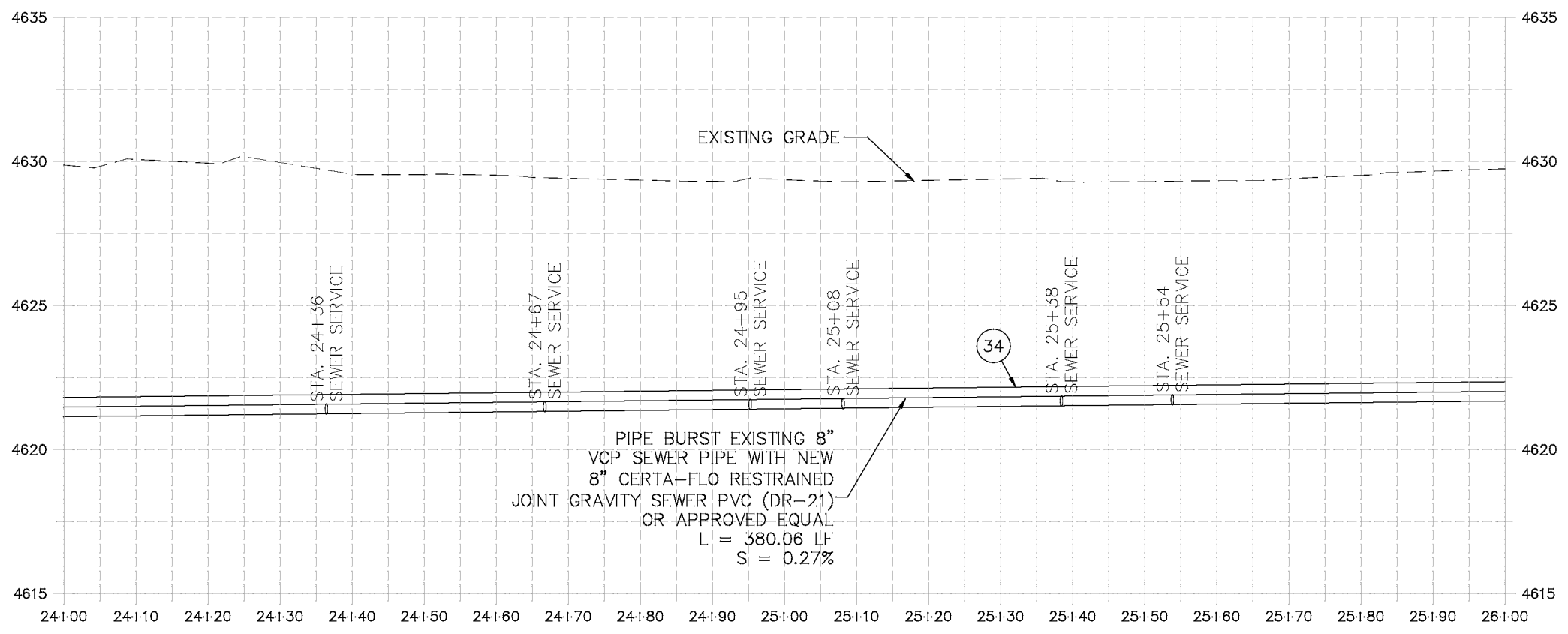
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST & ASPEN ST ALLEY PLAN AND PROFILE  
STA 22+00 TO STA 24+00**

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- CONSTRUCTION NOTES**
- 9 202 -- REMOVAL OF SOD.
  - 15 202 -- REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 33 202 -- REMOVE EXISTING SURFACE MATERIAL
  - 34 SP -- PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 102 210 -- RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 323 102.9/108.2 -- 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 333 102.9/108.2 -- 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 354 104.20 -- INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 663 304 -- AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 -- RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 786 EROSION CONTROL LOG
  - 801 PROTECT TREE
  - 827 PROTECT IRRIGATION DITCH



REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION A	UPDATES TO PLAN AND PROFILES	06/2021		DJM	04/2021
REVISION B	XXX	202X		DJM	4/2021
REVISION C	XXX	202X		EM	2021
REVISION D	XXX	202X		KH	2021

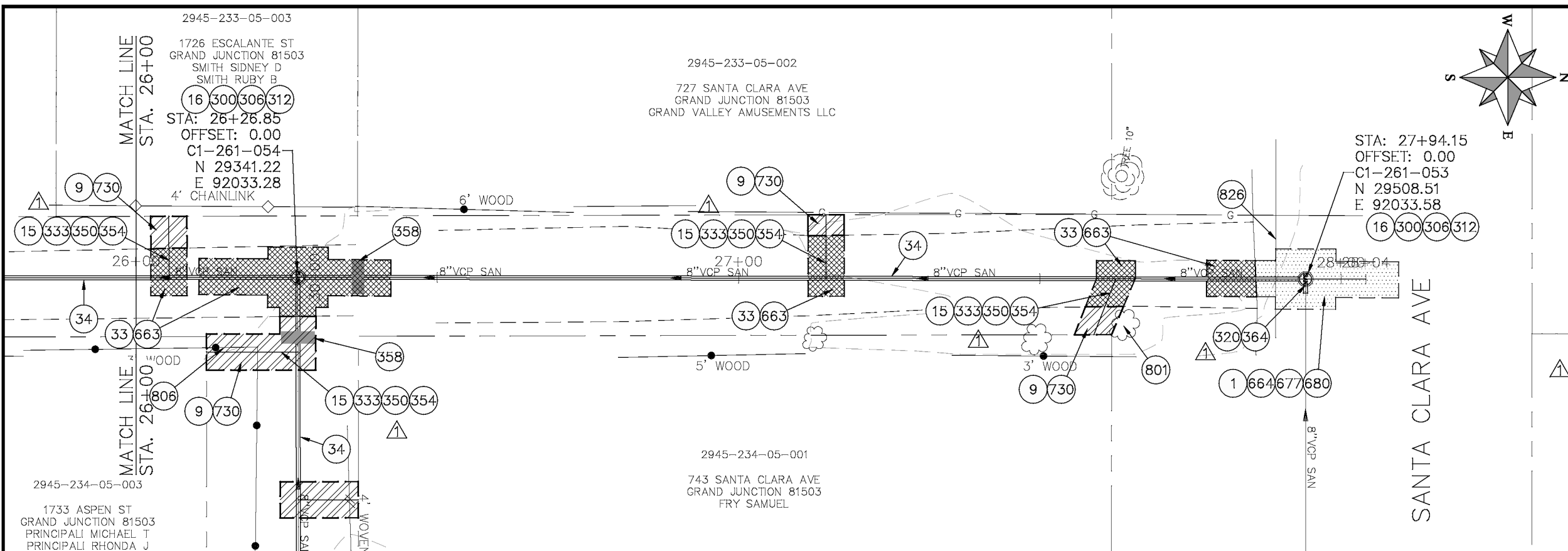
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



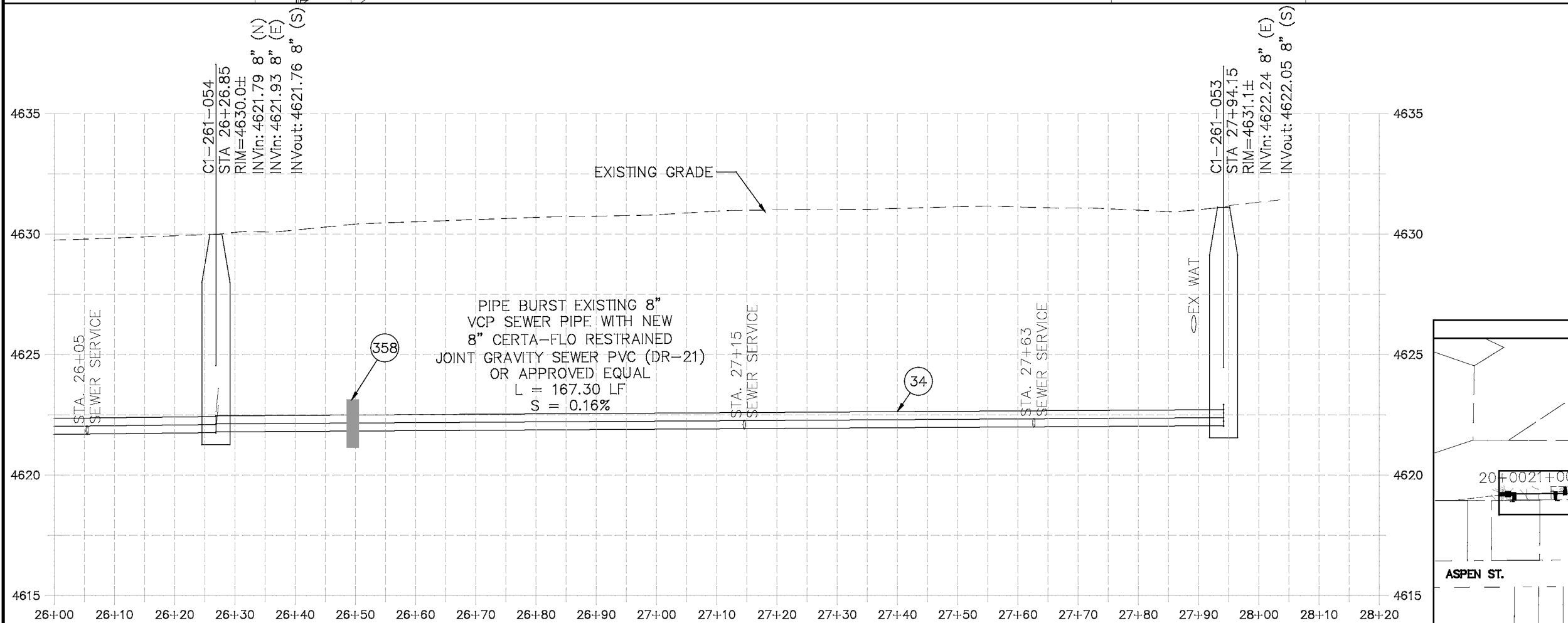
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST & ASPEN ST ALLEY PLAN AND PROFILE  
STA 24+00 TO STA 26+00**

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- CONSTRUCTION NOTES**
- 1 202 -- REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 9 202 -- REMOVAL OF SOD.
  - 15 202 -- REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 -- REMOVAL OF MANHOLE
  - 33 202 -- REMOVE EXISTING SURFACE MATERIAL
  - 34 SP -- PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 300 102.11/108.5 -- SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 -- MANHOLE BARREL SECTION (D>6") (48" I.D.).
  - 312 102.11/108.5 -- MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 -- CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 333 102.9/108.2 -- 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL. TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 354 104.20 -- INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 -- CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 663 304 -- AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 664 304 -- AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 -- HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 -- HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 -- RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 801 PROTECT TREE
  - 806 PROTECT FENCE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



- KEY MAP**
- 

REVISION	DESCRIPTION	DATE	PROJECT NO.	SCALE: PLAN & PROFILE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021		HORIZONTAL: 1" = 20'
REVISION Δ	XXX	202X		VERTICAL: 1" = 5'
REVISION Δ	XXX	202X		
REVISION Δ	XXX	202X		

**CITY OF Grand Junction COLORADO**

**PUBLIC WORKS ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
 ESCALANTE ST & ASPEN ST ALLEY PLAN AND PROFILE  
 STA 26+00 TO STA 28+17**

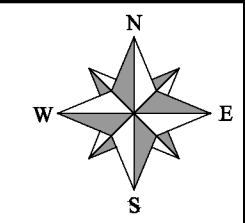
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GRAND JUNCTION 81503  
GRAND VALLEY AMUSEMENTS LLC

2945-234-05-001  
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GRAND JUNCTION 81503  
FRY SAMUEL

2945-234-05-002  
757 SANTA CLARA AVE  
GRAND JUNCTION 81503  
HODGES LINDY  
HODGES GUY L

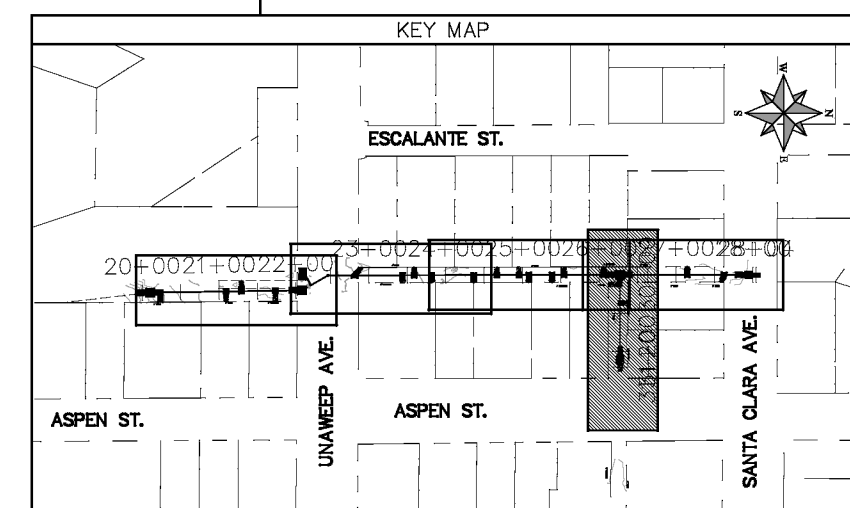
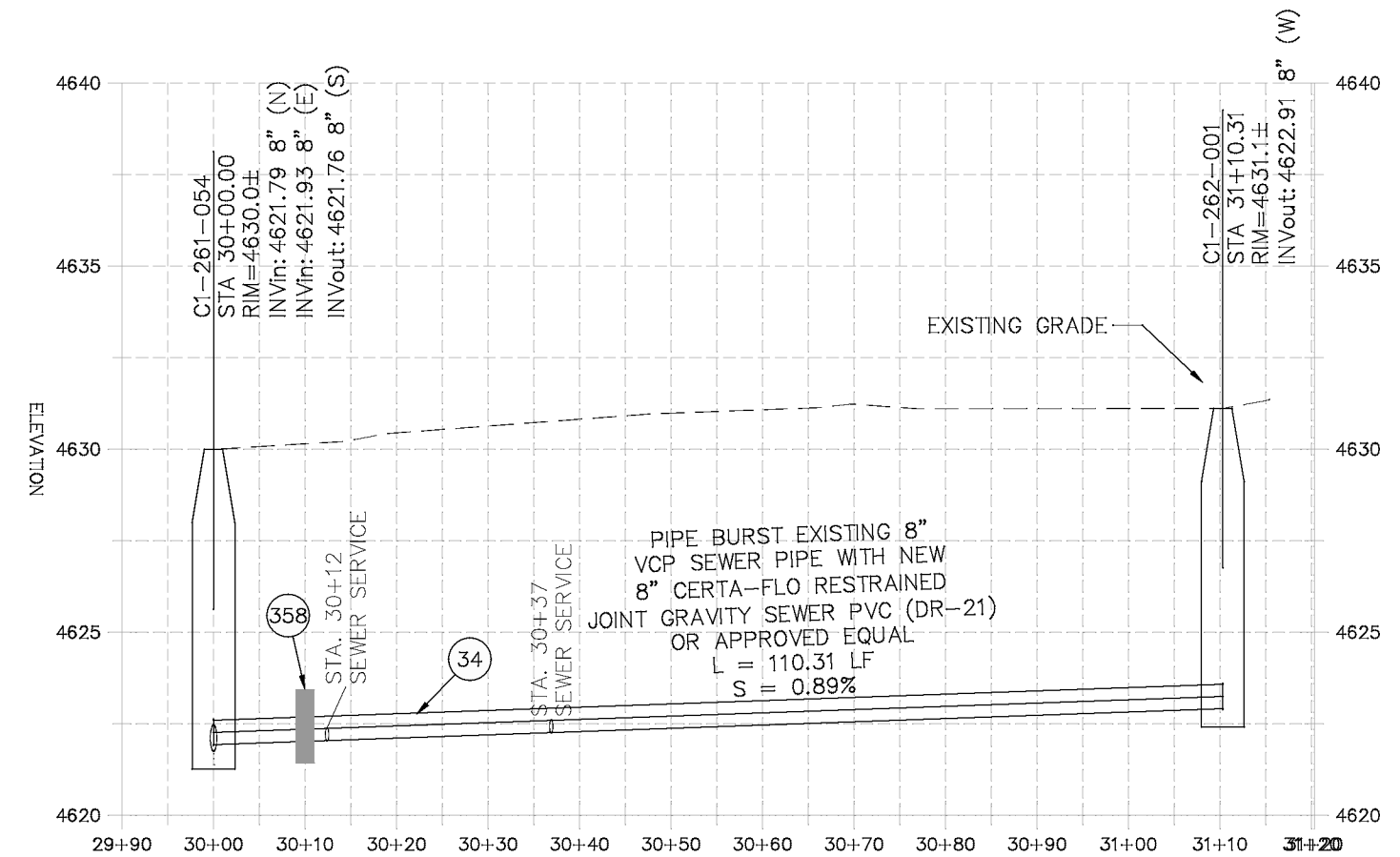
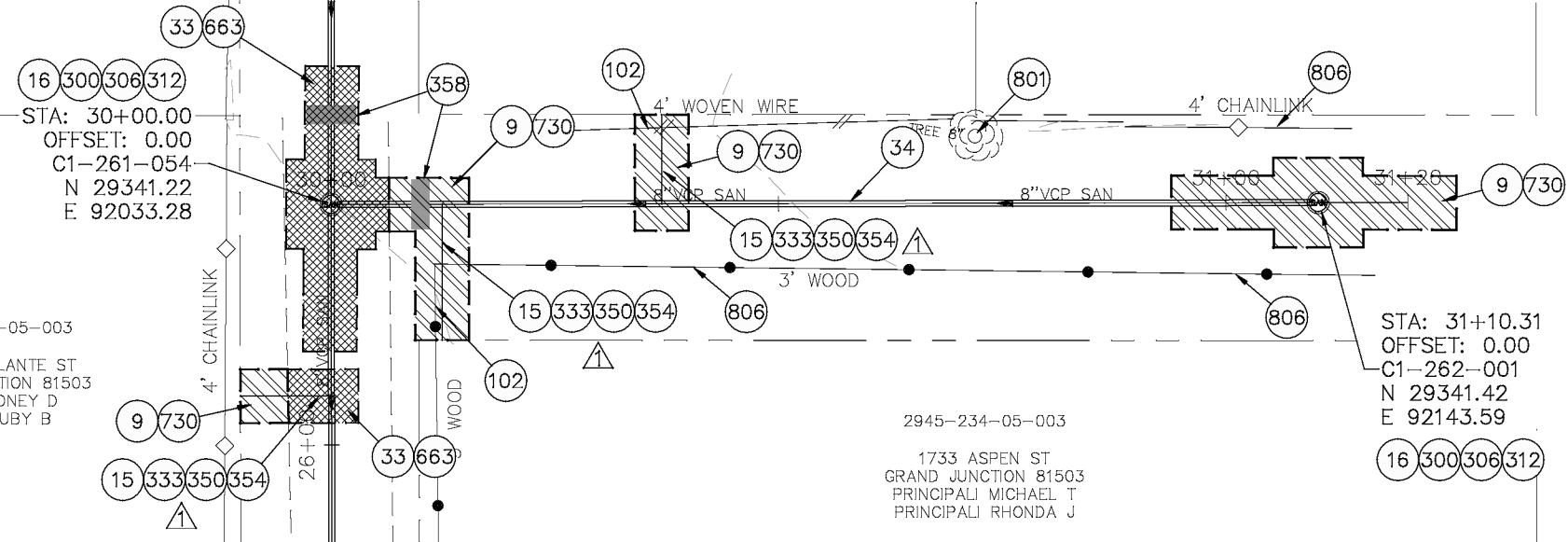
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GRAND JUNCTION 81503  
SMITH SIDNEY D  
SMITH RUBY B

2945-234-05-003  
1733 ASPEN ST  
GRAND JUNCTION 81503  
PRINCIPALI MICHAEL T  
PRINCIPALI RHONDA J



CONSTRUCTION NOTES

- 9 202 -- REMOVAL OF SOD.
- 15 202 -- REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 -- REMOVAL OF MANHOLE
- 33 202 -- REMOVE EXISTING SURFACE MATERIAL
- 34 SP -- PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
- 102 210 -- RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
- 300 102.11/108.5 -- SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 306 102.11/108.5 -- MANHOLE BARREL SECTION (D>6") (48" I.D.).
- 312 102.11/108.5 -- MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
- 333 102.9/108.2 -- 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
- 354 104.20 -- INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 358 103 -- CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 663 304 -- AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 730 212 -- RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
- 806 PROTECT FENCE



REVISION	DESCRIPTION	DATE	PROJECT NO.	SCALE: PLAN & PROFILE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021	DRAWN BY DJM DATE 04/2021	HORIZONTAL: 1" = 20'
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 4/2021	0 5 10 20
REVISION Δ XXX		202X	CHECKED BY EM DATE 2021	VERTICAL: 1" = 5'
REVISION Δ XXX		202X	APPROVED BY KH DATE 2021	0 1.25 2.5 5



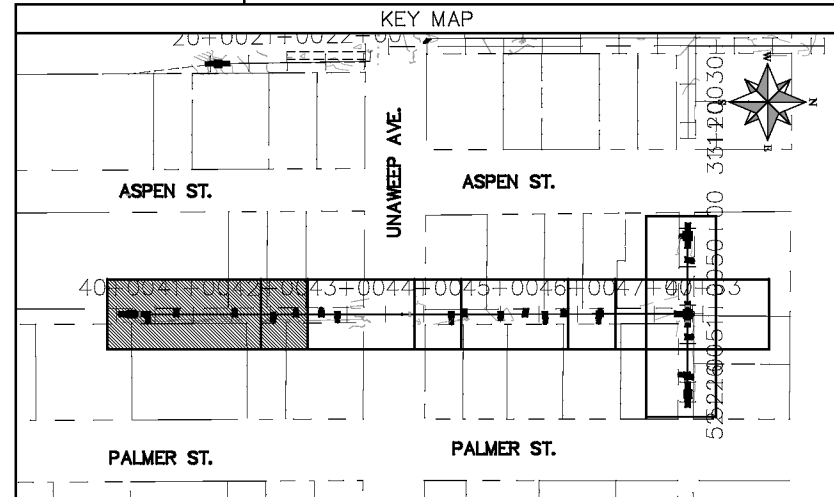
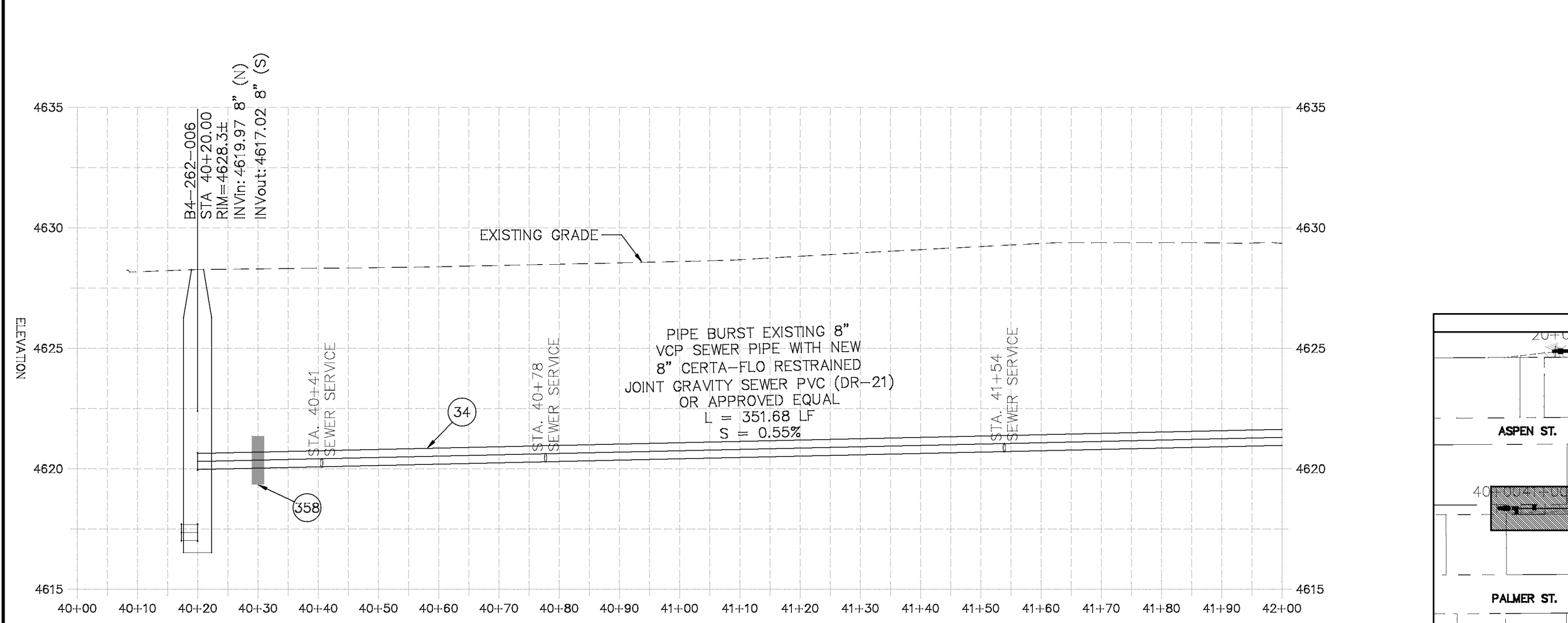
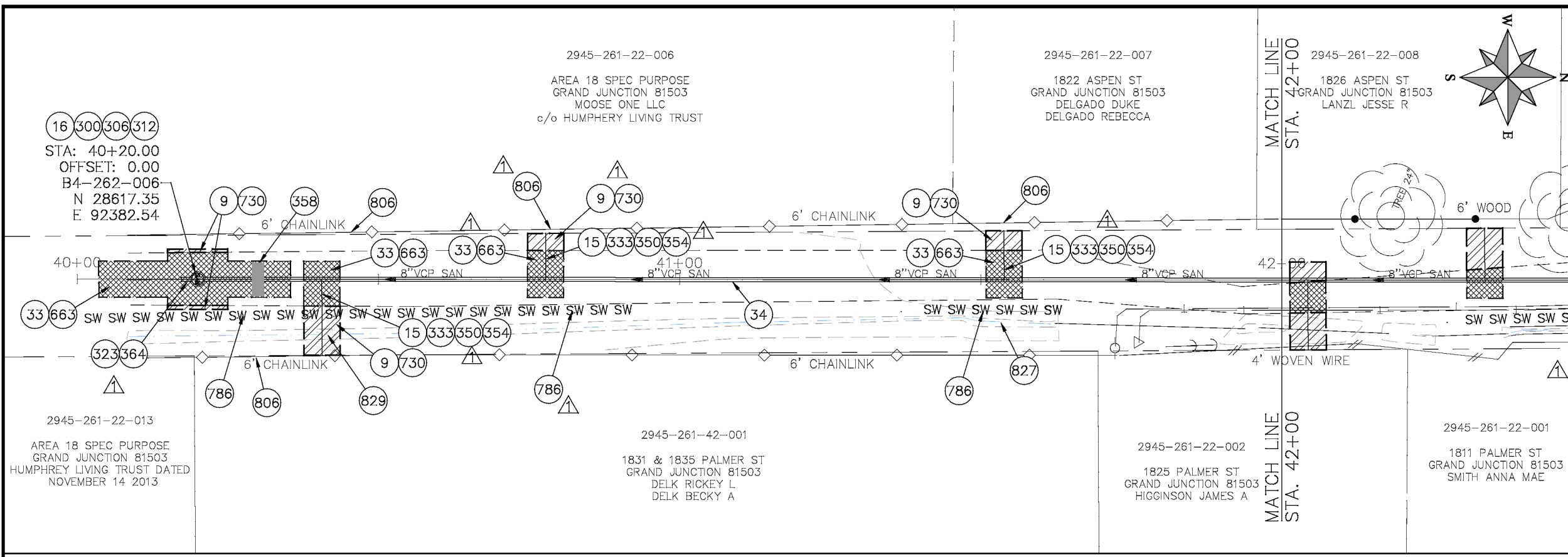
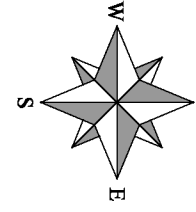
PUBLIC WORKS  
ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST & ASPEN ST ALLEY PLAN AND PROFILE  
STA 30+00 TO STA 31+20

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CONSTRUCTION NOTES

- 9 202 -- REMOVAL OF SOD.
- 15 202 -- REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 -- REMOVAL OF MANHOLE
- 33 202 -- REMOVE EXISTING SURFACE MATERIAL
- 34 SP -- PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (10" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
- 300 102.11/108.5 -- SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 308 102.11/108.5 -- MANHOLE BARREL SECTION (D>6") (48" I.D.).
- 312 102.11/108.5 -- MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
- 323 102.9/108.2 -- 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
- 333 102.9/108.2 -- 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
- 354 104.20 -- INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
- 358 103 -- CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- 663 304 -- AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 730 212 -- RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
- 786 208 -- EROSION CONTROL LOG
- 806 PROTECT FENCE
- 827 PROTECT IRRIGATION DITCH
- 829 PROTECT IRRIGATION DITCH FLOW. COST IS INCIDENTAL TO COST OF CONSTRUCTION.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION Δ XXX	UPDATES TO PLAN AND PROFILES	06/2021		DJM	04/2021
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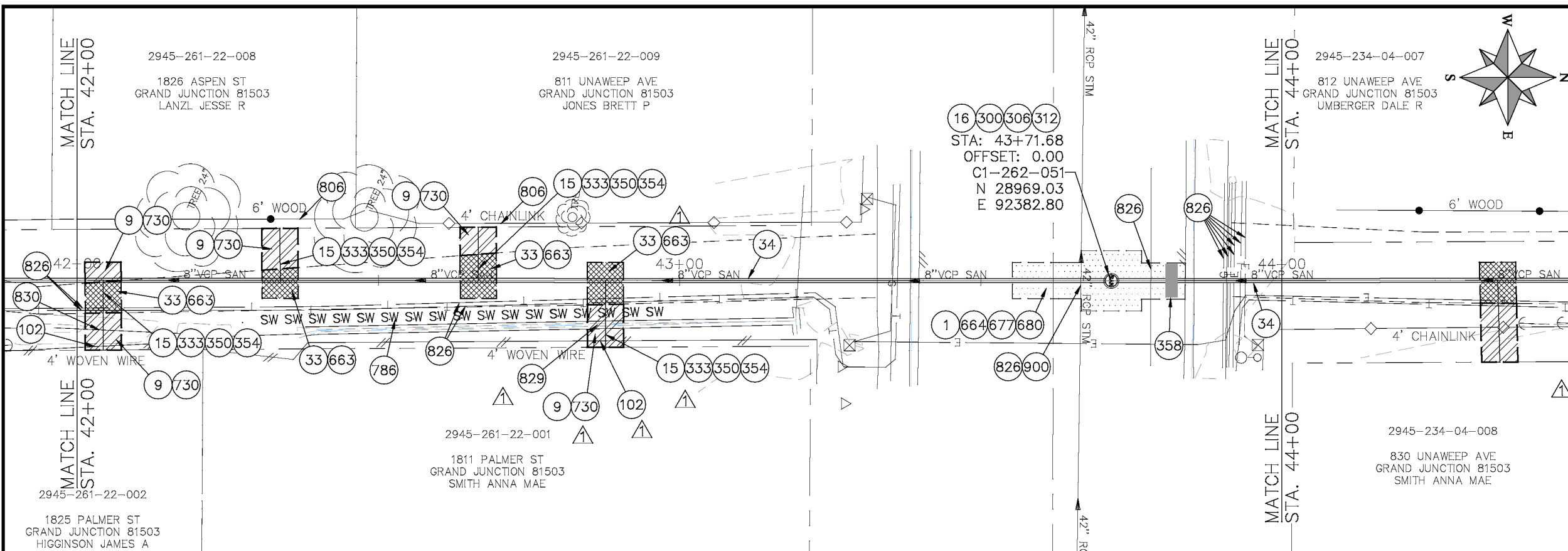
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HORIZONTAL: 1" = 20'	
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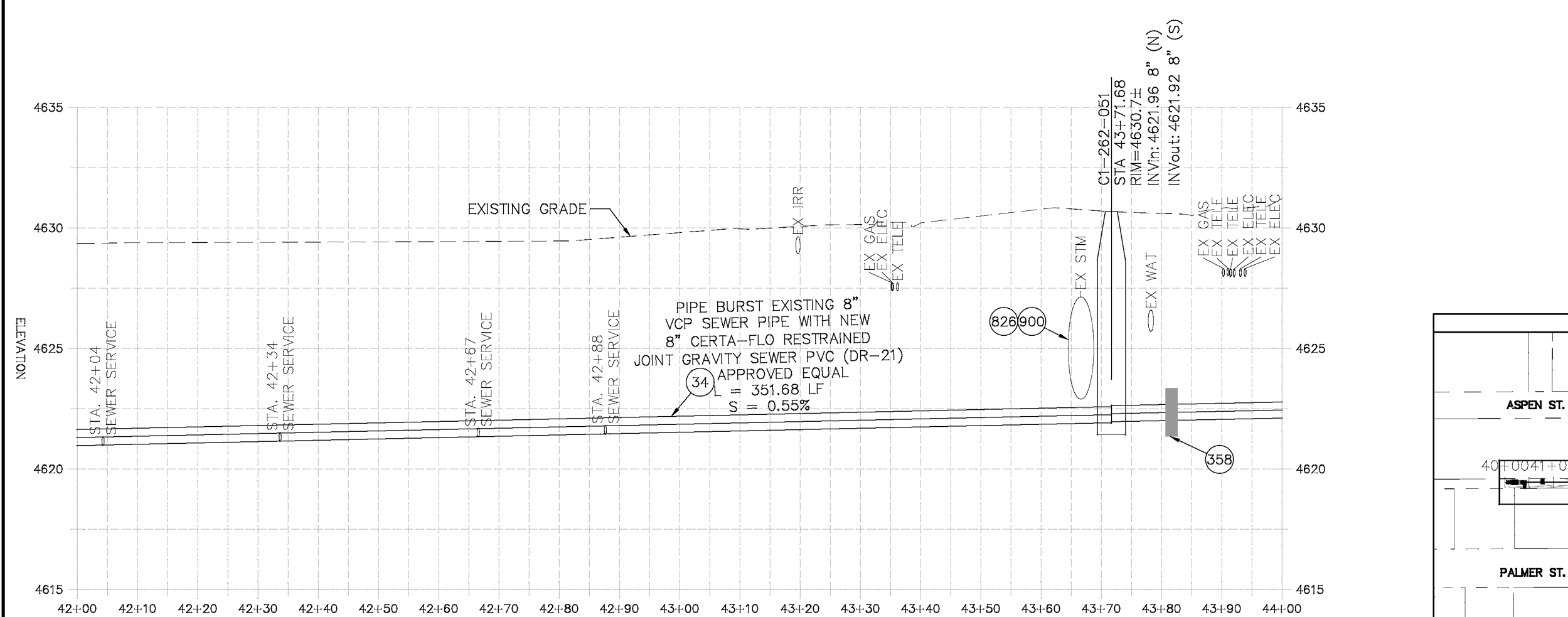
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT – PHASE A  
ASPEN ST & PALMER ST ALLEY PLAN AND PROFILE  
STA 40+00 TO STA 42+00**

N:\Land\proj\2021 Sewer Replacements - Phase A - Unawsep Ave\60CAD\00DESIGN\REVISION 1\Aspen Alley.dwg, 7/1/2021 7:11:53 AM, AutoCAD PDF (General Documentation).pc3



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL. PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECDUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL. MINIMUM THICKNESS)
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL. BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 786 EROSION CONTROL. LOG
  - 806 PROTECT FENCE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
  - 829 PROTECT IRRIGATION CULVERT. COST IS INCIDENTAL TO COST OF CONSTRUCTION.
  - 830 PROTECT GUY WIRE AND POWER POLE.
  - 900 CONTRACTOR AND CITY TO VERIFY INVERT ELEVATION OF EXISTING STORM SEWER. CONTRACTOR SHALL ENCASE SANITARY SEWER PIPE (PER CITY SPECIFICATION GU-04). POT HOLING REQUIRED.



- ### KEY MAP
- 

REVISION	DESCRIPTION	DATE	PROJECT NO.	SCALE: PLAN & PROFILE
REVISION Δ UPDATES TO PLAN AND PROFILES		06/2021		HORIZONTAL: 1" = 20'
REVISION Δ XXX		202X		0 5 10 20
REVISION Δ XXX		202X		VERTICAL: 1" = 5'
REVISION Δ XXX		202X		0 1.25 2.5 5

DRAWN BY DJM DATE 04/2021  
 DESIGNED BY DJM DATE 4/2021  
 CHECKED BY EM DATE 2021  
 APPROVED BY KH DATE 2021

**CITY OF**  
**Grand Junction**  
 COLORADO

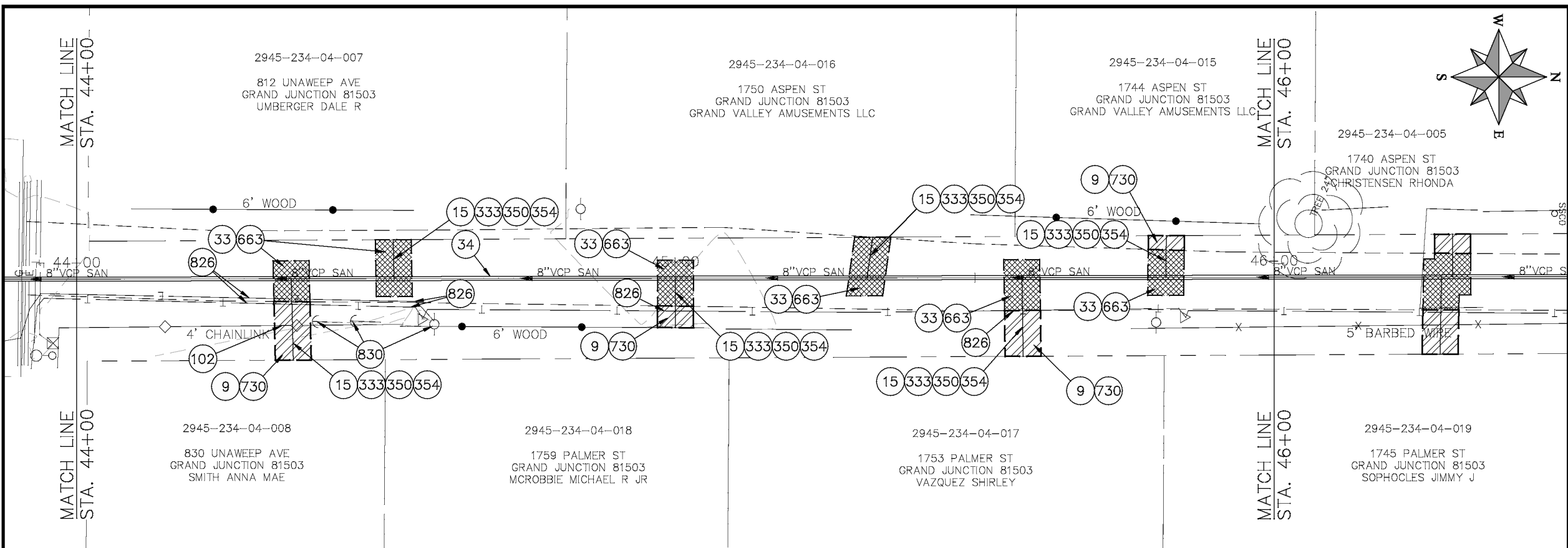
**PUBLIC WORKS**  
**ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A**  
**ASPEN ST & PALMER ST ALLEY PLAN AND PROFILE**  
**STA 42+00 TO STA 44+00**

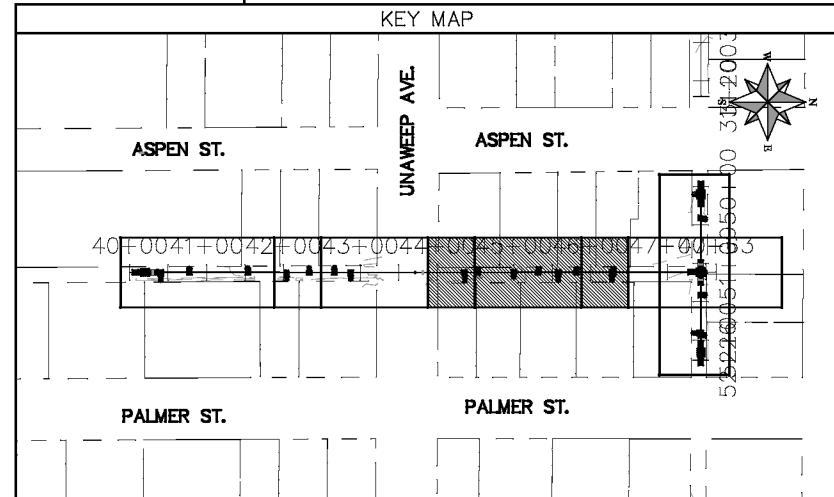
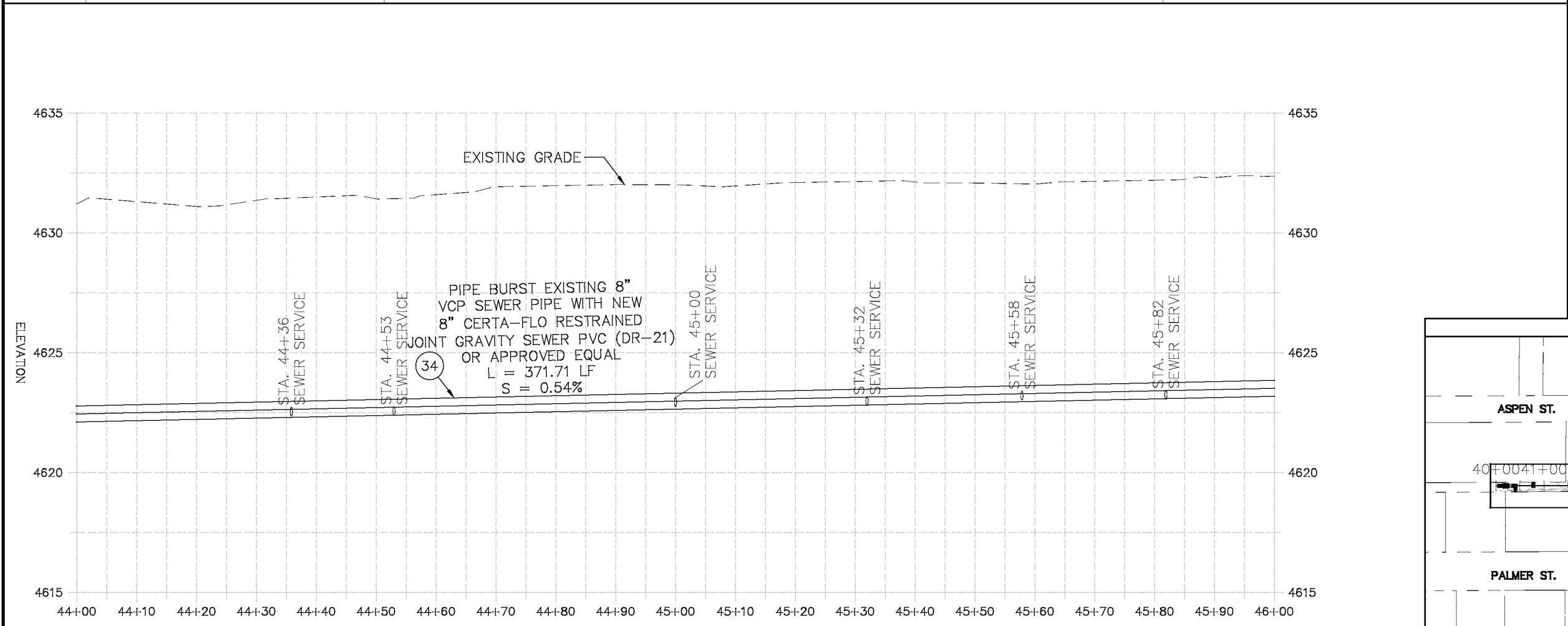
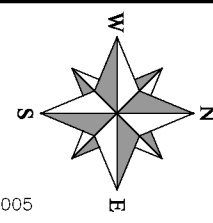
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- CONSTRUCTION NOTES**
- (3) 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - (9) 202 - REMOVAL OF SOD.
  - (15) 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - (33) 202 - REMOVE EXISTING SURFACE MATERIAL.
  - (34) SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (10" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - (102) 210 - RESET FENCE. (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - (333) 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - (350) 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - (354) 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
  - (663) 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - (730) 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - (826) PROTECT EXISTING UTILITY LINE IN PLACE.
  - (830) PROTECT GUY WIRE AND POWER POLE



REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	

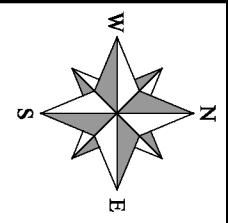
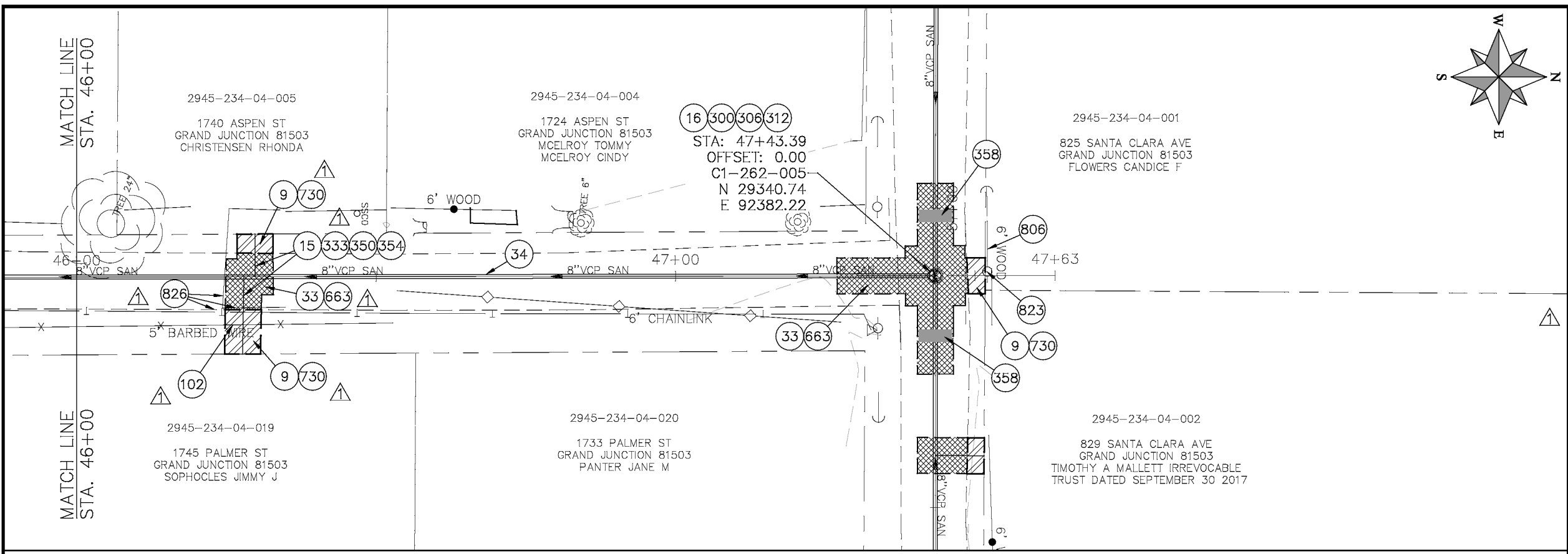
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HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'



**PUBLIC WORKS  
ENGINEERING DIVISION**

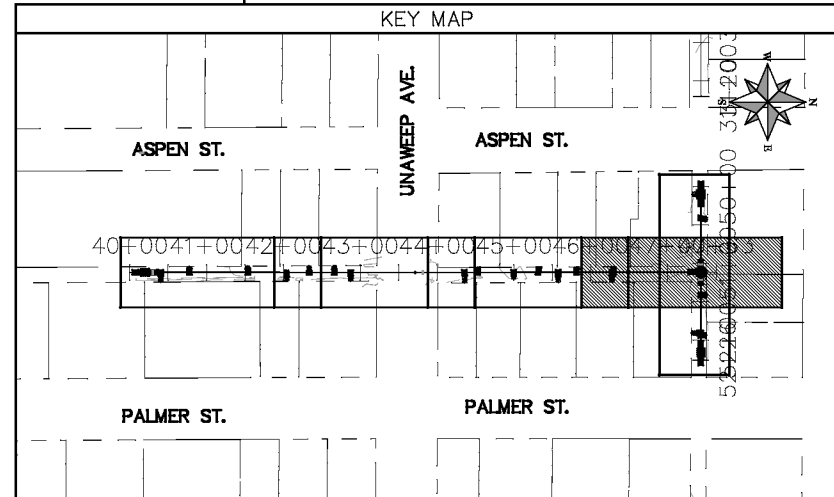
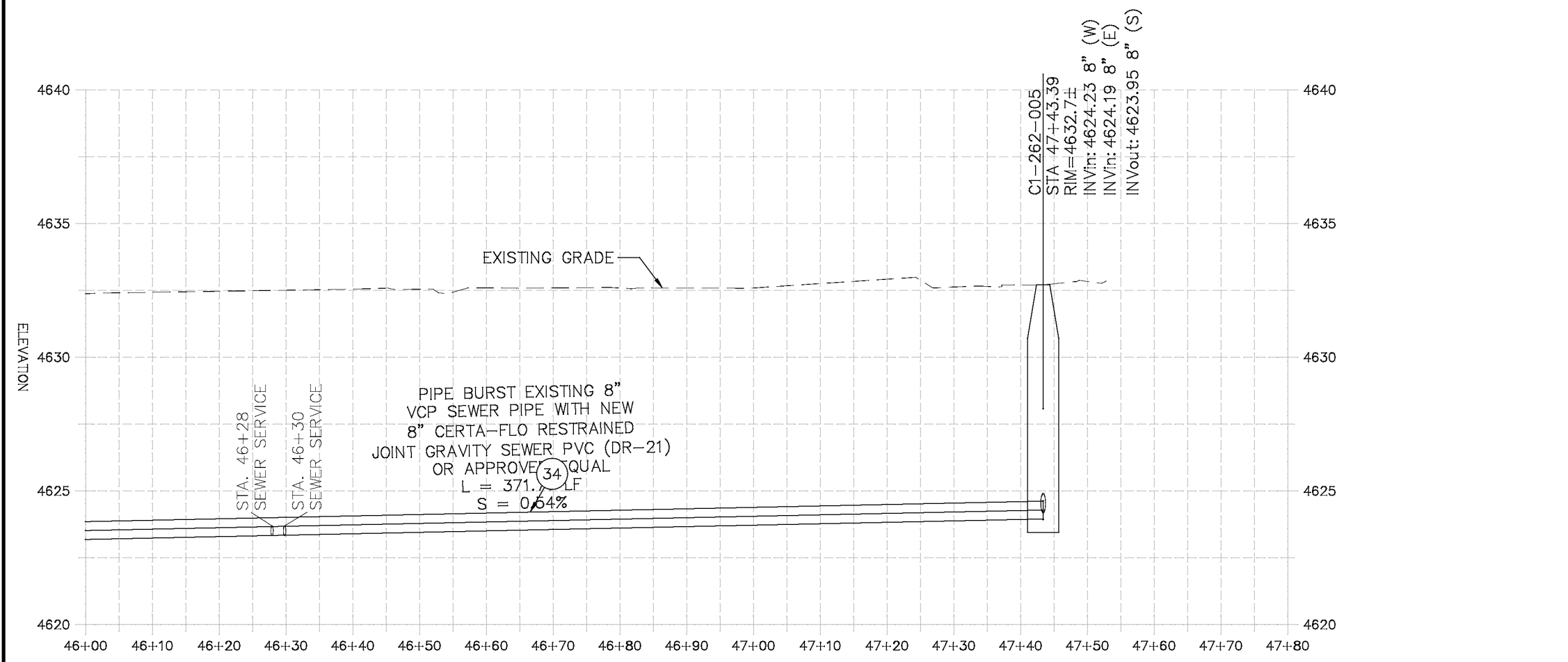
**2021 SEWER LINE REPLACEMENT - PHASE A  
ASPEN ST & PALMER ST ALLEY PLAN AND PROFILE  
STA 44+00 TO STA 46+00**

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**CONSTRUCTION NOTES**

- 9 202 -- REMOVAL OF SOD.
- 15 202 -- REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 -- REMOVAL OF MANHOLE
- 33 202 -- REMOVE EXISTING SURFACE MATERIAL
- 34 SP -- PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
- 102 210 -- RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
- 300 102.11/108.5 -- SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 306 102.11/108.5 -- MANHOLE BARREL SECTION (D>8") (48" I.D.).
- 312 102.11/108.5 -- MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODEUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL. MINIMUM THICKNESS)
- 333 102.9/108.2 -- 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
- 354 104.20 -- INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
- 358 103 -- CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 663 304 -- AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 730 212 -- RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
- 806 PROTECT FENCE
- 823 PROTECT UTILITY POLE
- 826 PROTECT EXISTING UTILITY LINE IN PLACE



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021		04/2021
REVISION Δ	XXX	202X		4/2021
REVISION Δ	XXX	202X		2021
REVISION Δ	XXX	202X		2021

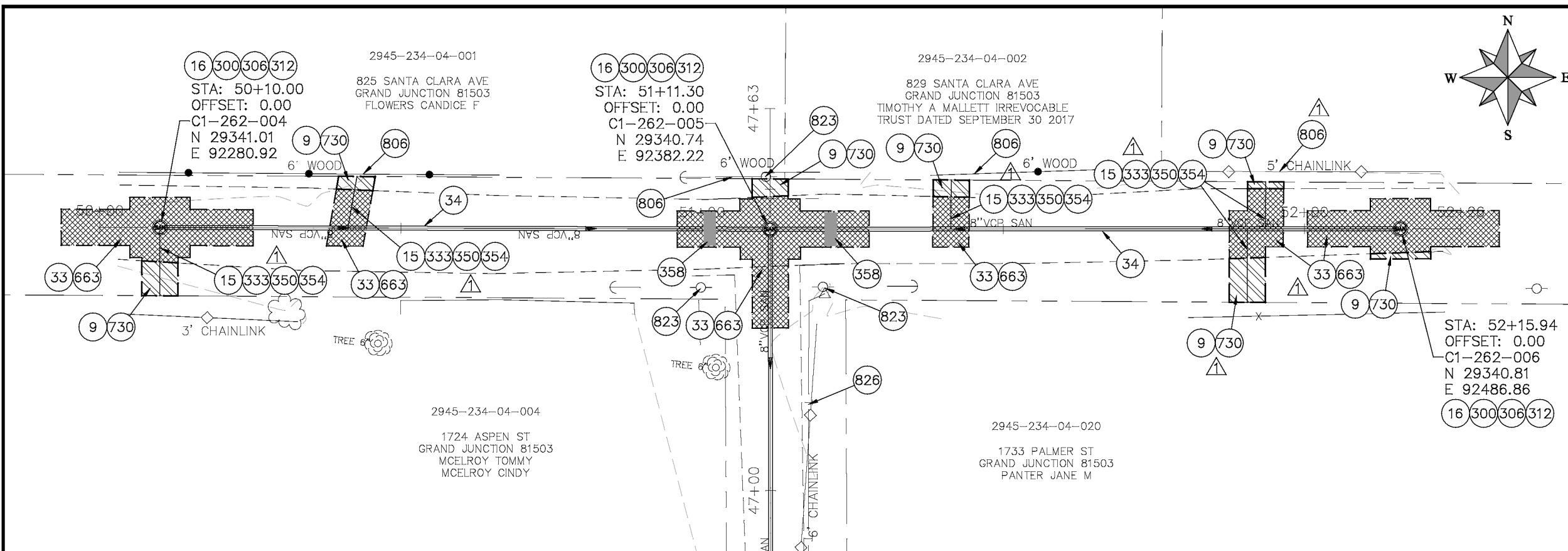
SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'



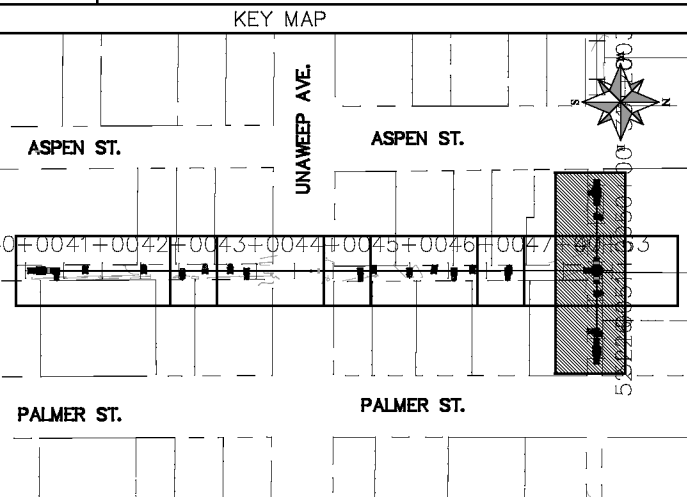
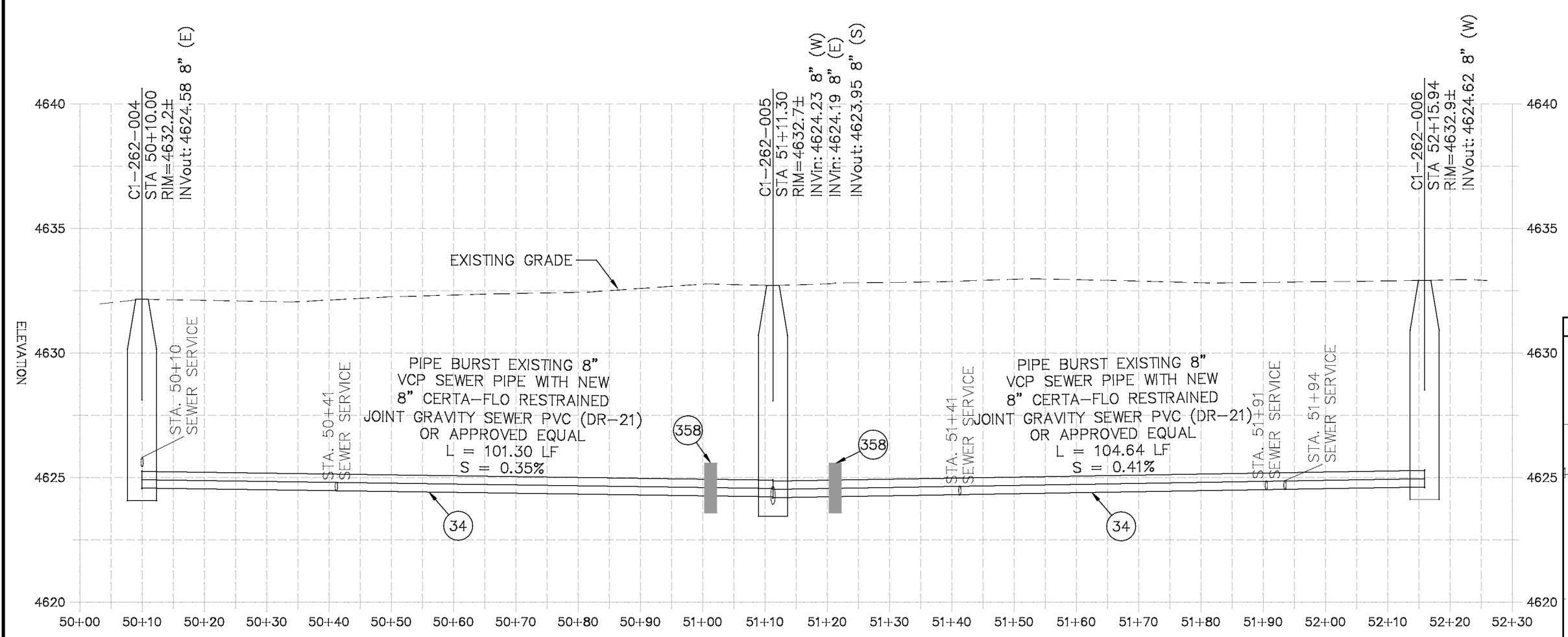
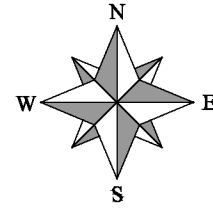
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ASPEN ST & PALMER ST ALLEY PLAN AND PROFILE  
STA 46+00 TO STA 47+63**

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- ### CONSTRUCTION NOTES
- 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE.
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>8") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL. BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 806 PROTECT FENCE
  - 823 PROTECT UTILITY POLE



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ UPDATES TO PLAN AND PROFILES		06/2021		04/2021
REVISION Δ XXX		202X	DESIGNED BY DJM	DATE 4/2021
REVISION Δ XXX		202X	CHECKED BY EM	DATE 2021
REVISION Δ XXX		202X	APPROVED BY KH	DATE 2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

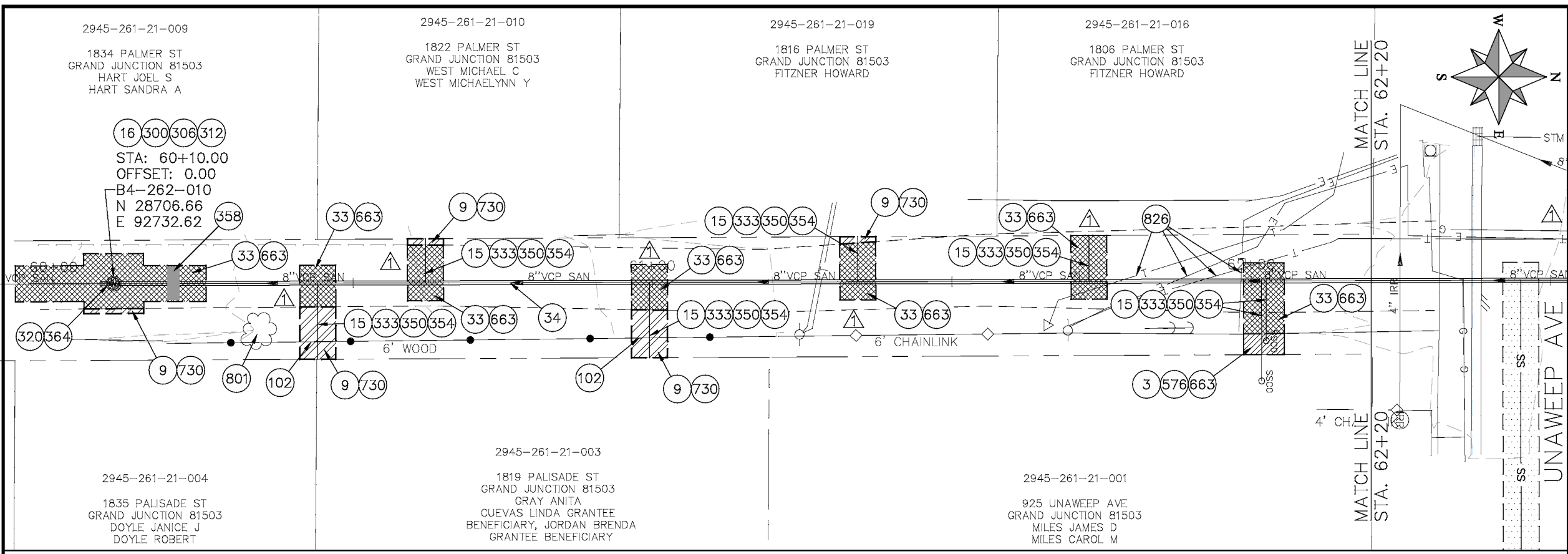


**PUBLIC WORKS  
ENGINEERING DIVISION**

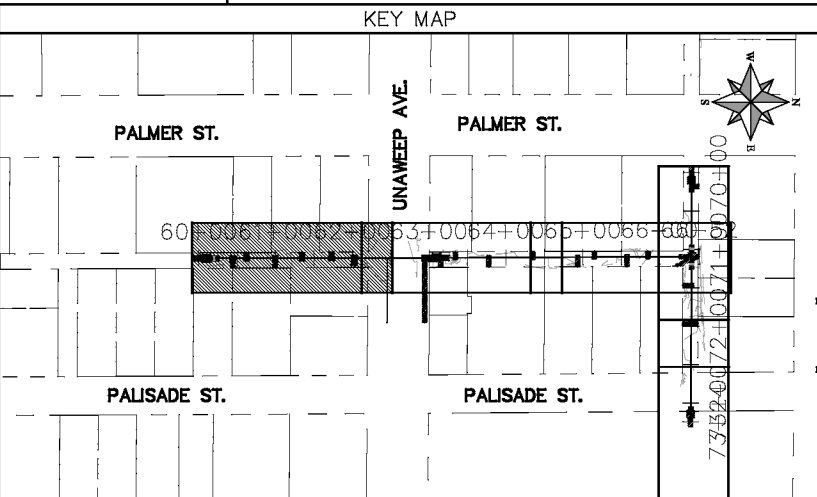
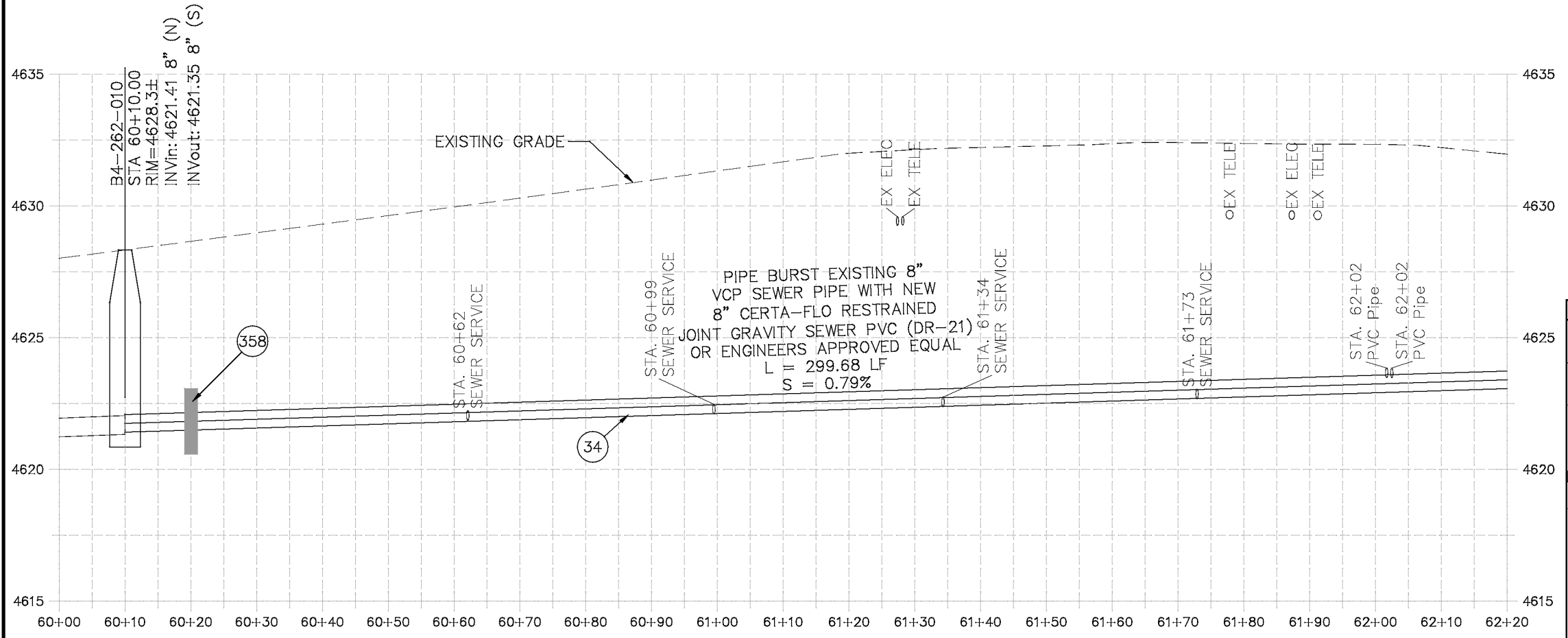
**2021 SEWER LINE REPLACEMENT - PHASE A  
ASPEN ST & PALMER ST ALLEY PLAN AND PROFILE  
STA 50+00 TO STA 52+30**

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- ### CONSTRUCTION NOTES
- (3) 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - (9) 202 - REMOVAL OF SOD.
  - (15) 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - (16) 202 - REMOVAL OF MANHOLE
  - (33) 202 - REMOVE EXISTING SURFACE MATERIAL
  - (34) SP -- PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - (102) 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - (300) 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.), INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - (306) 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
  - (312) 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - (320) 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - (333) 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - (350) 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - (354) 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - (358) 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - (364) CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - (576) 608.06 - CONCRETE DRIVEWAY SECTION (6" THICK) (RESIDENTIAL)
  - (663) 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - (730) 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - (801) PROTECT TREE
  - (826) PROTECT EXISTING UTILITY LINE IN PLACE.



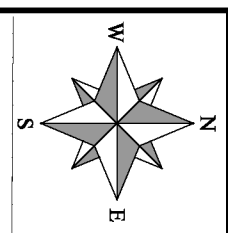
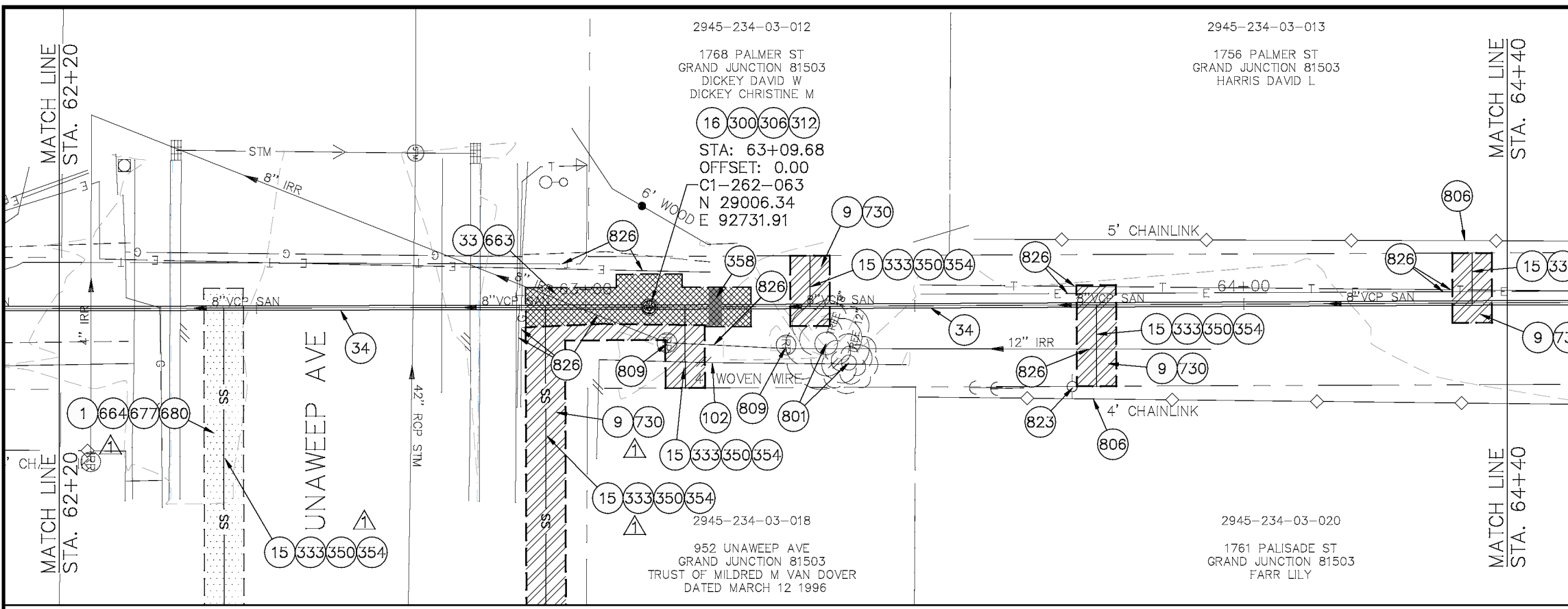
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REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021		DJM	04/2021
REVISION Δ	XXX	202X		DJM	4/2021
REVISION Δ	XXX	202X		EM	2021
REVISION Δ	XXX	202X		KH	2021

SCALES: PLAN & PROFILE	
HORIZONTAL:	1" = 20'
VERTICAL:	1" = 5'

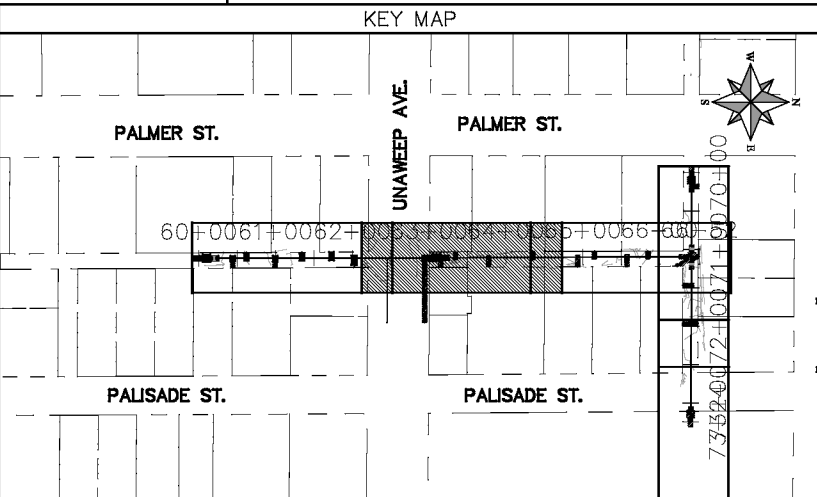
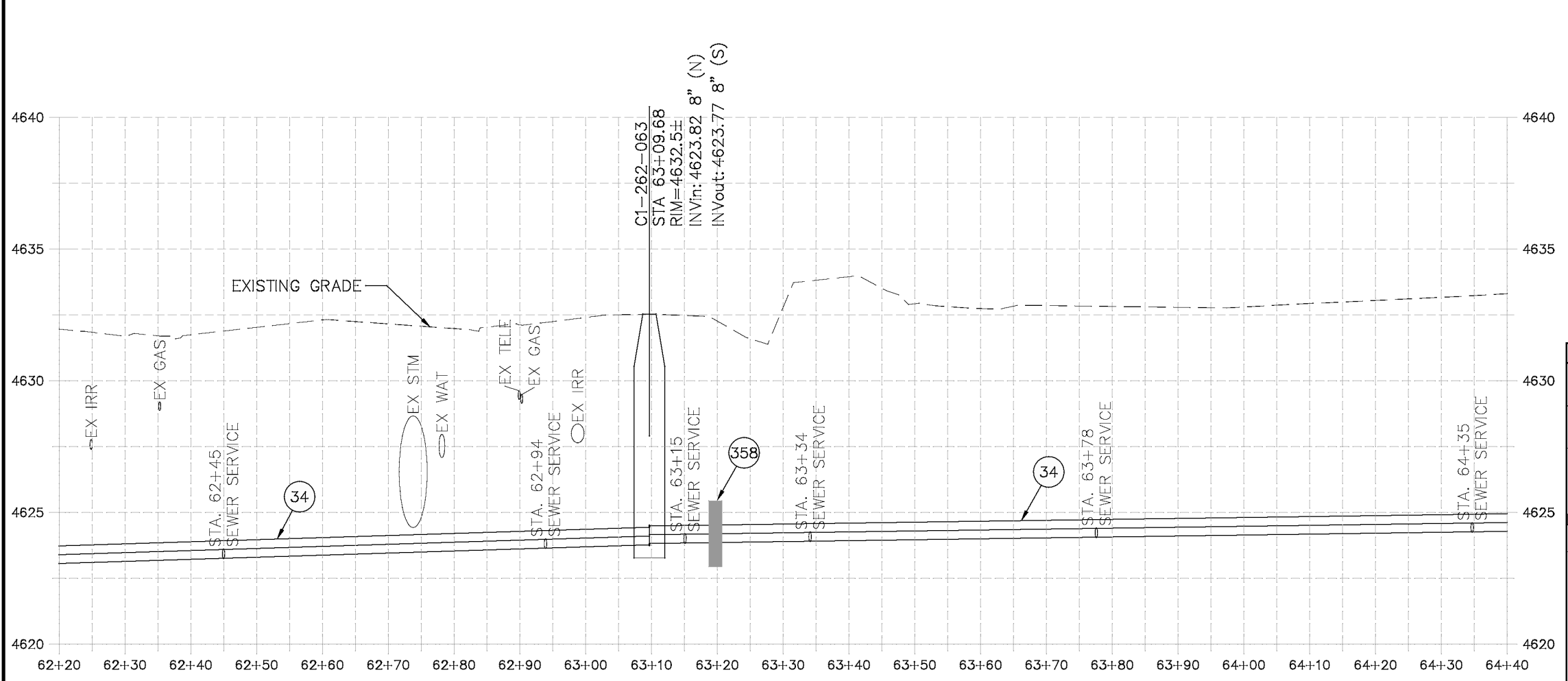


**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST & PALISADE ST ALLEY PLAN AND PROFILE  
STA 60+00 TO STA 62+20**



- CONSTRUCTION NOTES**
- (1) 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN (INDICATED BY DOT HATCH PATTERN)
  - (9) 202 - REMOVAL OF SOD.
  - (15) 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - (16) 202 - REMOVAL OF MANHOLE
  - (33) 202 - REMOVE EXISTING SURFACE MATERIAL
  - (34) SP -- PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL (20' JOINTS). FIELD VERIFY SIZE/MATERIAL. PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - (102) 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - (300) 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - (306) 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
  - (312) 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL. MINIMUM THICKNESS)
  - (333) 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - (350) 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - (354) 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - (358) 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - (663) 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - (664) 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - (677) 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - (680) 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - (730) 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - (801) PROTECT TREE
  - (806) PROTECT FENCE
  - (809) PROTECT MANHOLE
  - (823) PROTECT UTILITY POLE
  - (826) PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021		DJM	04/2021
REVISION Δ	XXX	202X		DJM	4/2021
REVISION Δ	XXX	202X		EM	2021
REVISION Δ	XXX	202X		KH	2021

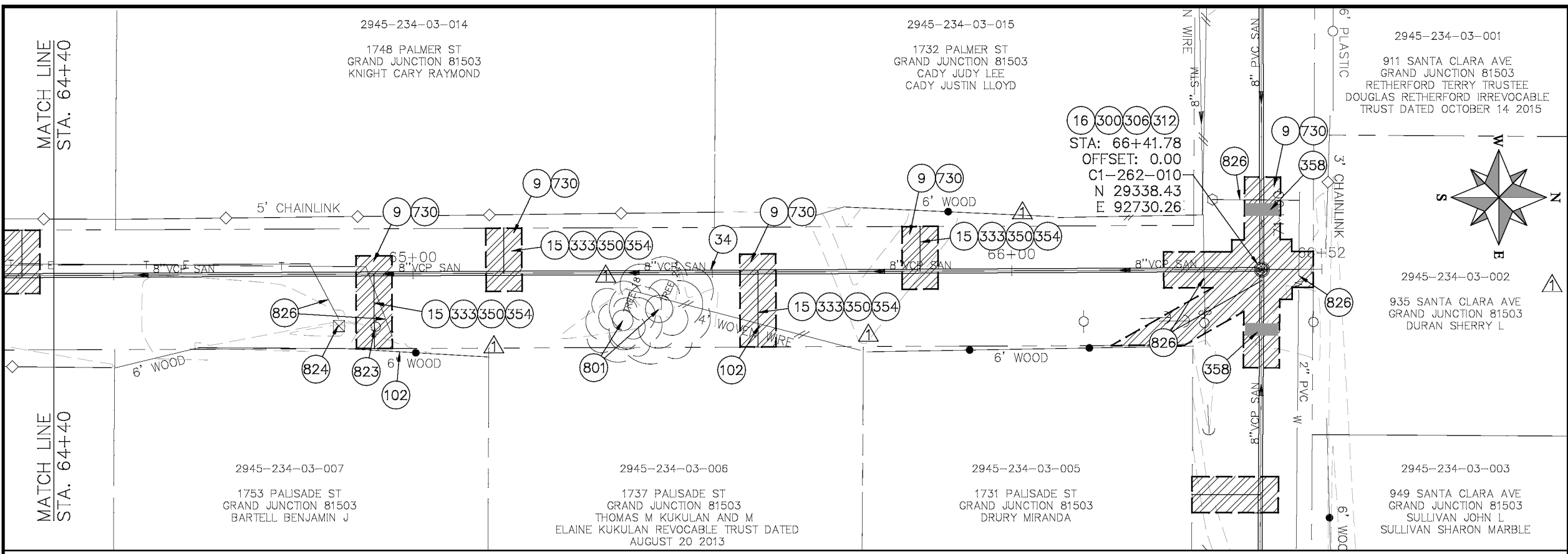
SCALES: PLAN & PROFILE	
HORIZONTAL:	1" = 20'
VERTICAL:	1" = 5'



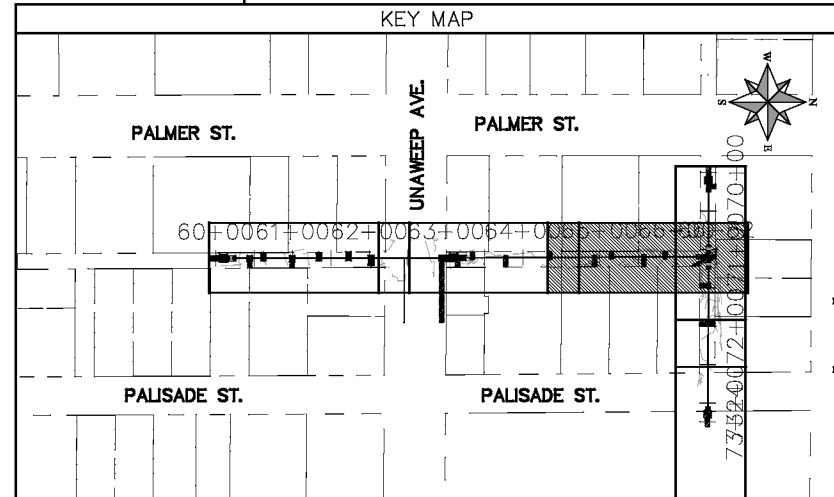
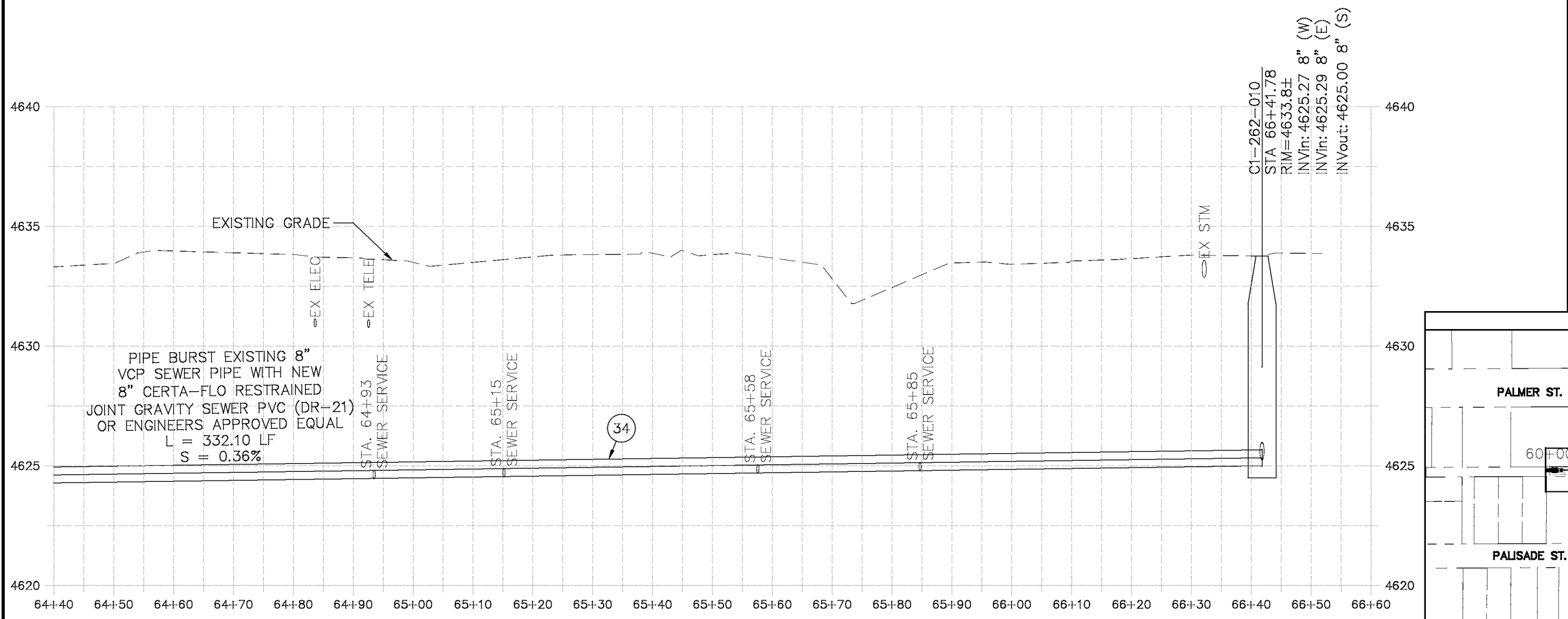
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST & PALISADE ST ALLEY PLAN AND PROFILE  
STA 62+20 TO STA 64+40**

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- CONSTRUCTION NOTES**
- 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 308 102.11/108.5 - MANHOLE BARREL SECTION (D>8") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL. MINIMUM THICKNESS)
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 801 PROTECT TREE
  - 823 PROTECT UTILITY POLE
  - 824 PROTECT UTILITY PEDESTAL
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021		DJM	04/2021
REVISION Δ	XXX	202X		DJM	4/2021
REVISION Δ	XXX	202X		EM	2021
REVISION Δ	XXX	202X		KH	2021

SCALES: PLAN & PROFILE

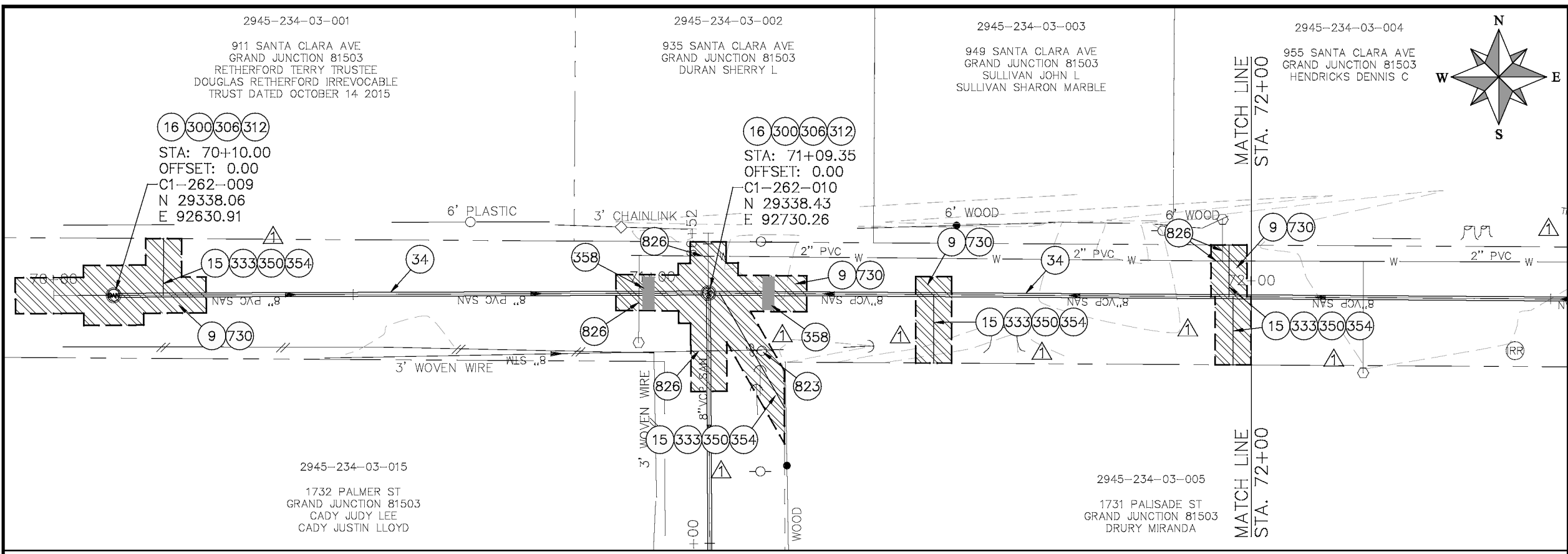
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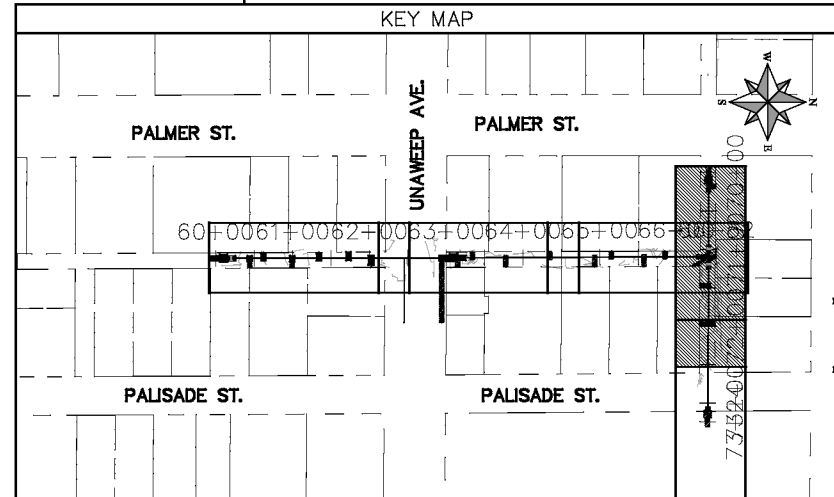
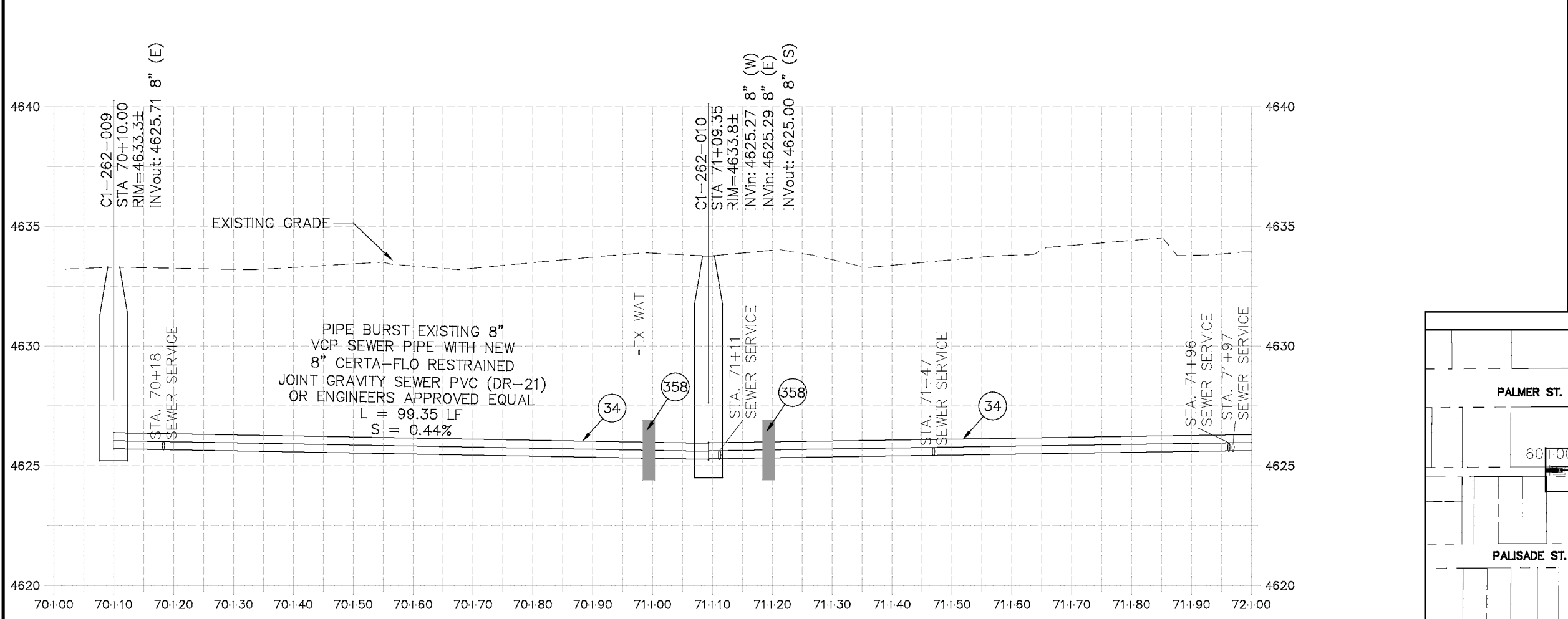
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST & PALISADE ST ALLEY PLAN AND PROFILE  
STA 64+40 TO STA 66+52**

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- CONSTRUCTION NOTES**
- 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 34 SP -- PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 500 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 506 102.11/108.5 - MANHOLE BARREL SECTION (D>6") (48" I.D.).
  - 512 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 533 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL. BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 550 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 554 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 558 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 823 PROTECT UTILITY POLE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021		DJM	04/2021
REVISION Δ	XXX	202X		DJM	4/2021
REVISION Δ	XXX	202X		EM	2021
REVISION Δ	XXX	202X		KH	2021

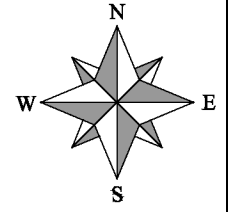
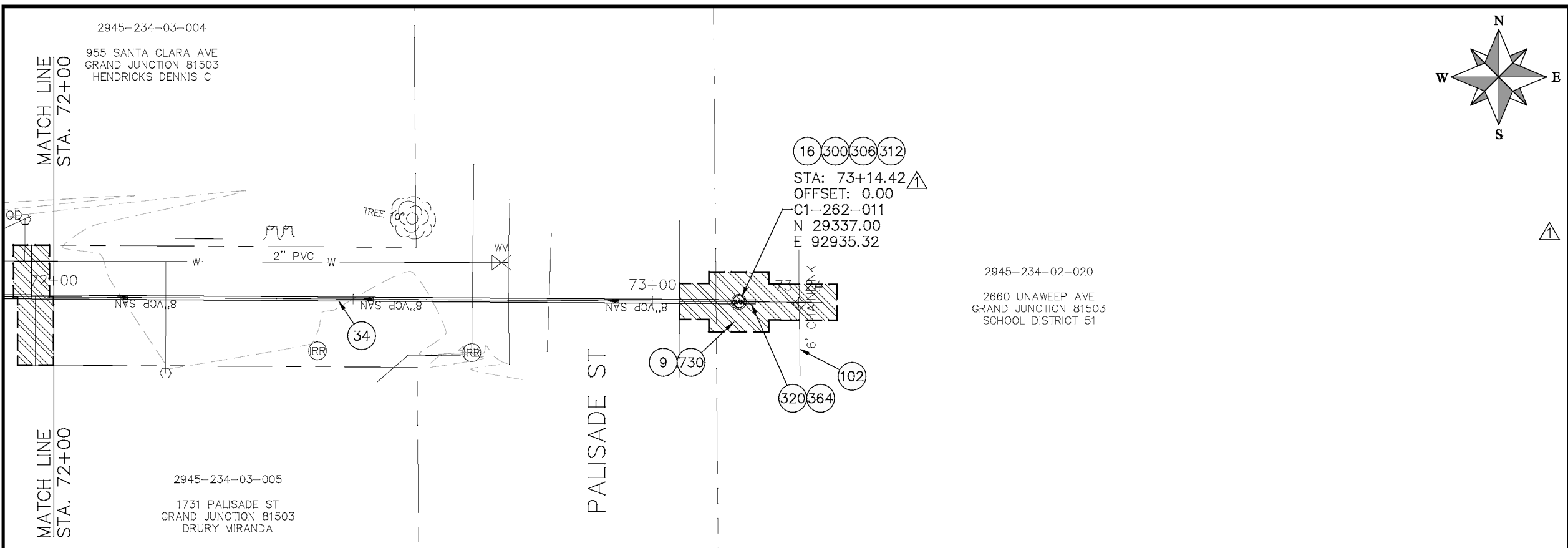
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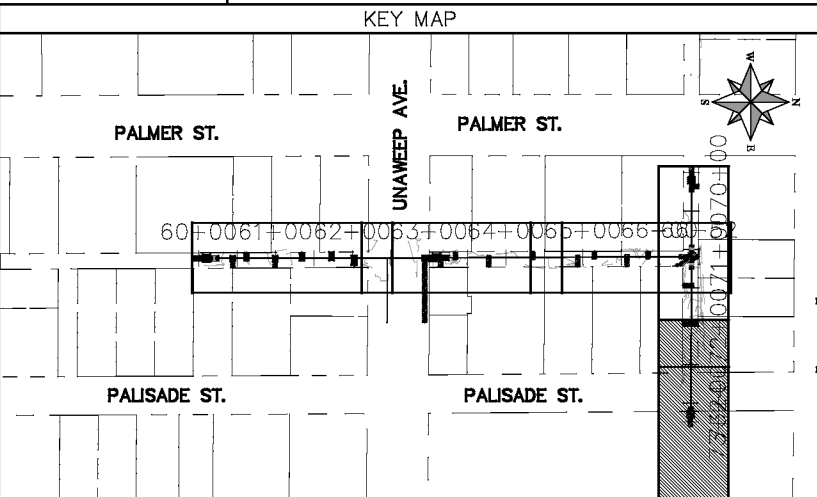
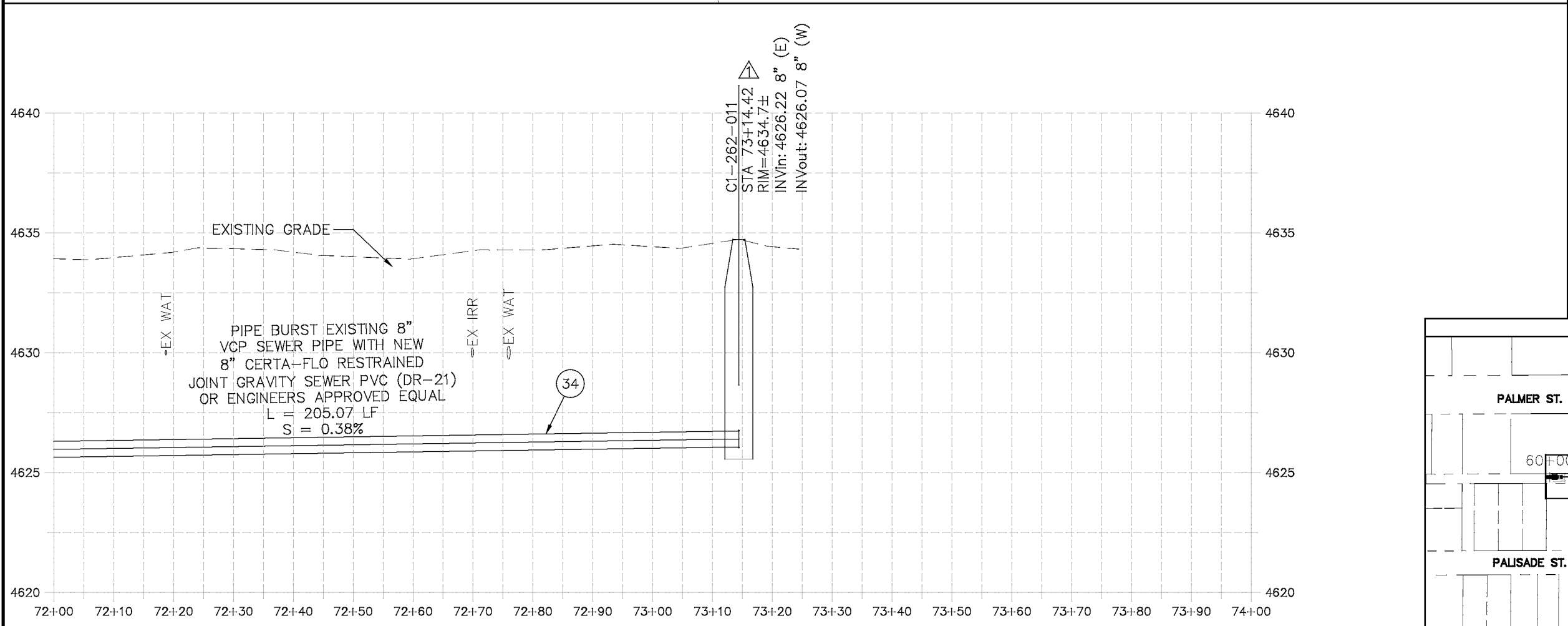
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST & PALISADE ST ALLEY PLAN AND PROFILE  
STA 70+00 TO 72+00**

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- CONSTRUCTION NOTES**
- 9 202 - REMOVAL OF SOD.
  - 16 202 - REMOVAL OF MANHOLE.
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 300 102.11/108.5 -- SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 308 102.11/108.5 -- MANHOLE BARREL SECTION (D>8") (48" I.D.).
  - 312 102.11/108.5 -- MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 -- CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL. IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021	-----	04/2021
REVISION Δ	XXX	202X	DESIGNED BY DJM	DATE 4/2021
REVISION Δ	XXX	202X	CHECKED BY EM	DATE 2021
REVISION Δ	XXX	202X	APPROVED BY KH	DATE 2021

**SCALES: PLAN & PROFILE**

HORIZONTAL: 1" = 20'

VERTICAL: 1" = 5'

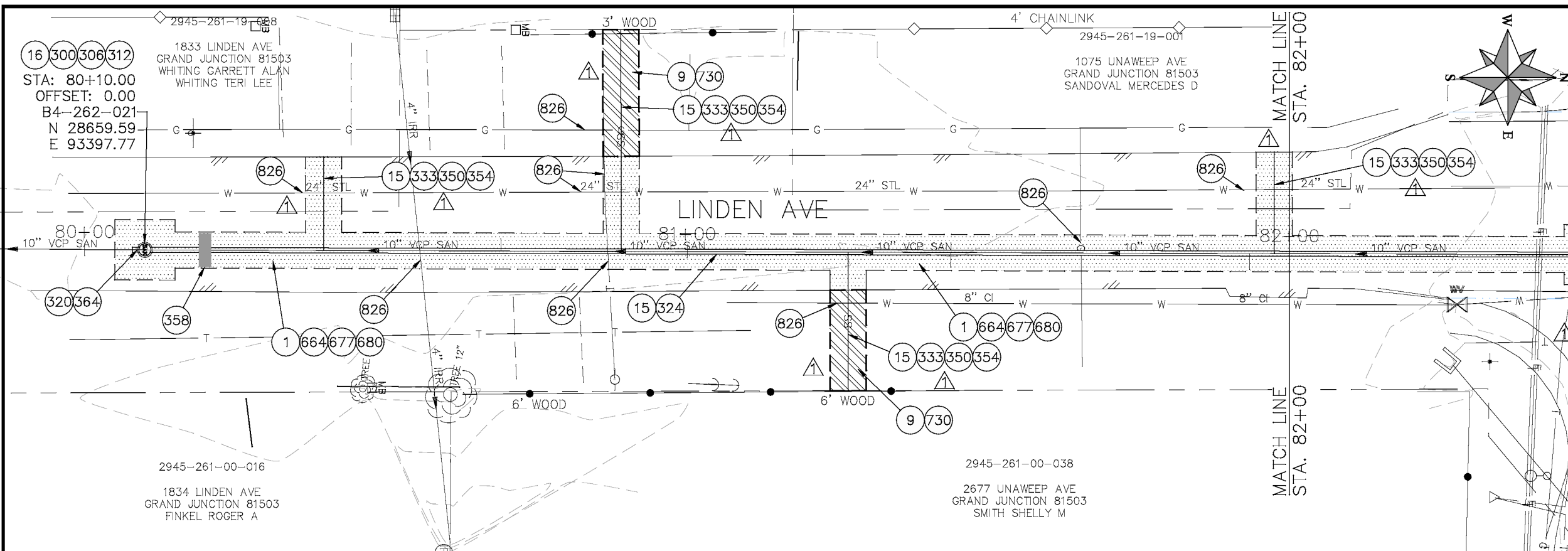


**PUBLIC WORKS  
ENGINEERING DIVISION**

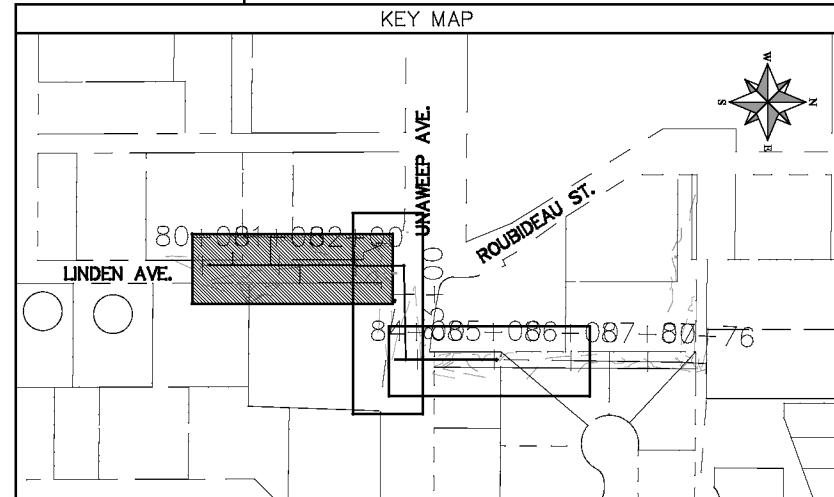
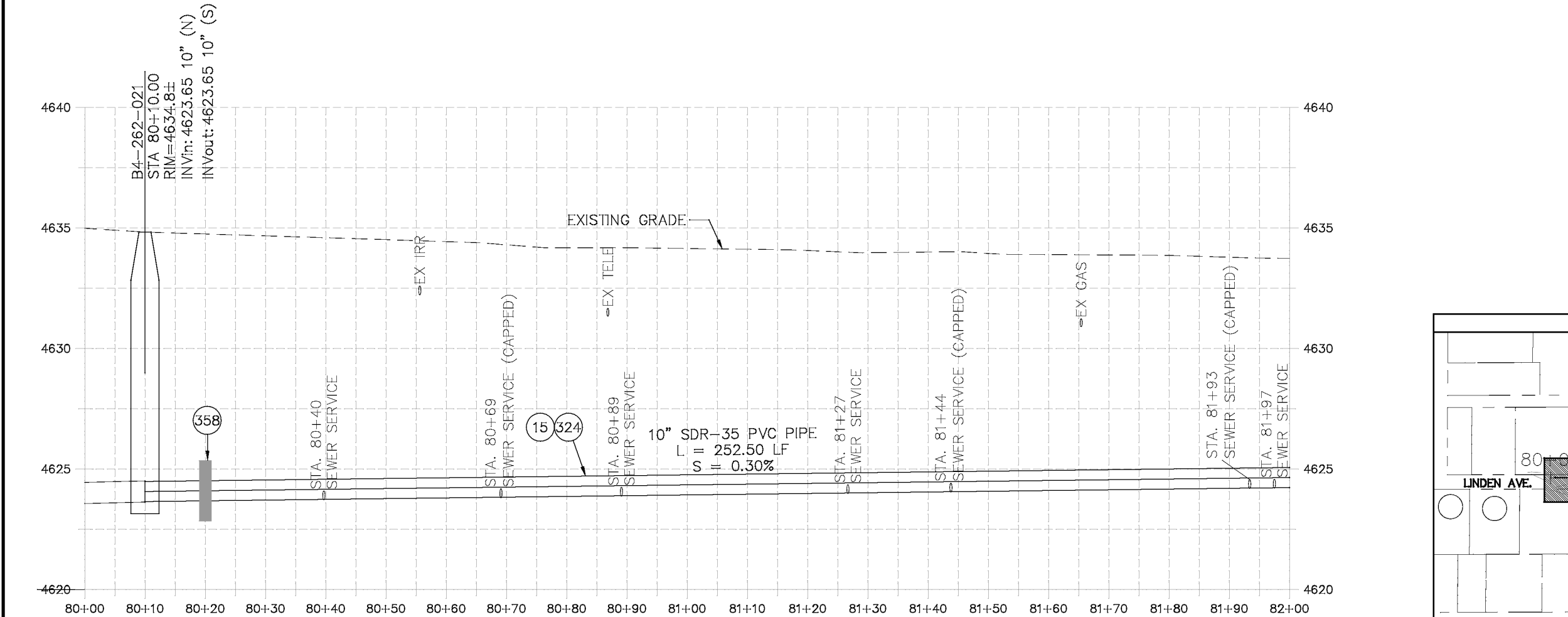
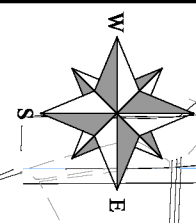
**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST & PALISADE ST ALLEY PLAN AND PROFILE  
STA 72+00 TO STA 73+24**

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- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 9 202 - REMOVAL OF SOD.
  - 15 202 -- REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 -- REMOVAL OF MANHOLE
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>6") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 324 102.9/108.2 - 10" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 368 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021		04/2021
REVISION Δ	XXX	202X		4/2021
REVISION Δ	XXX	202X		2021
REVISION Δ	XXX	202X		2021

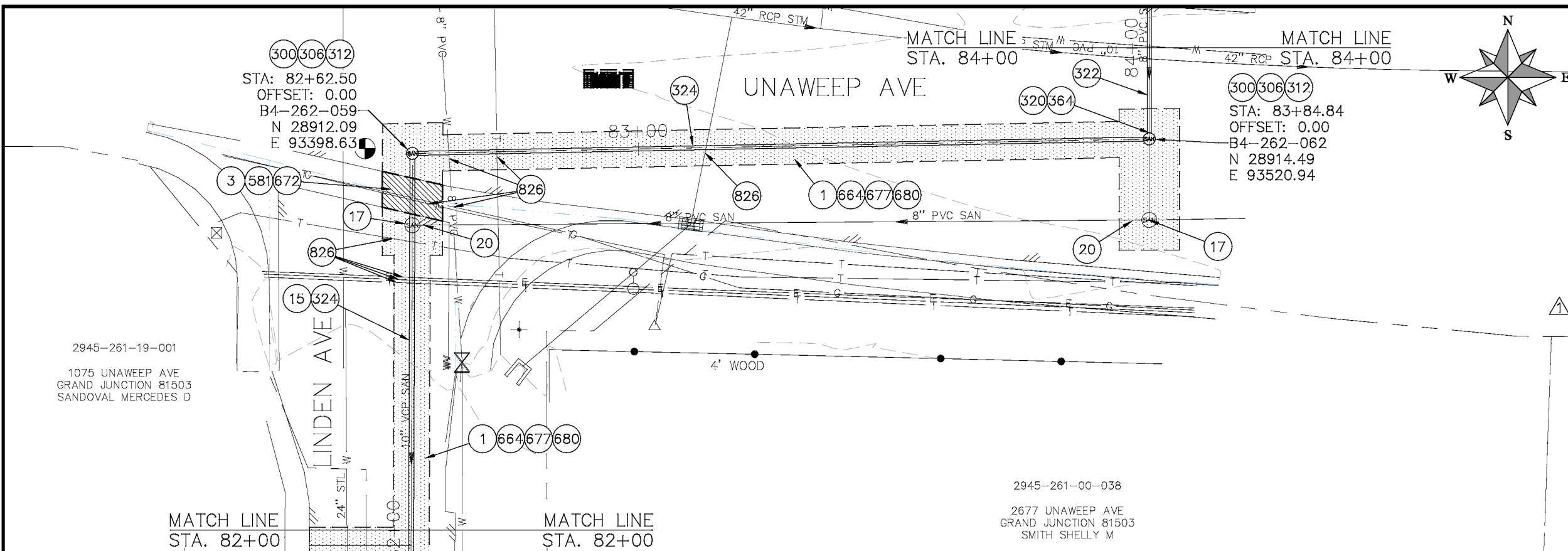
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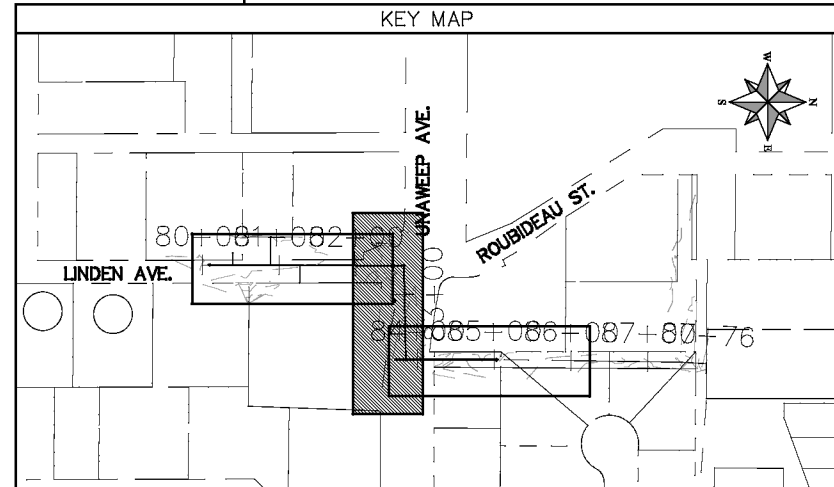
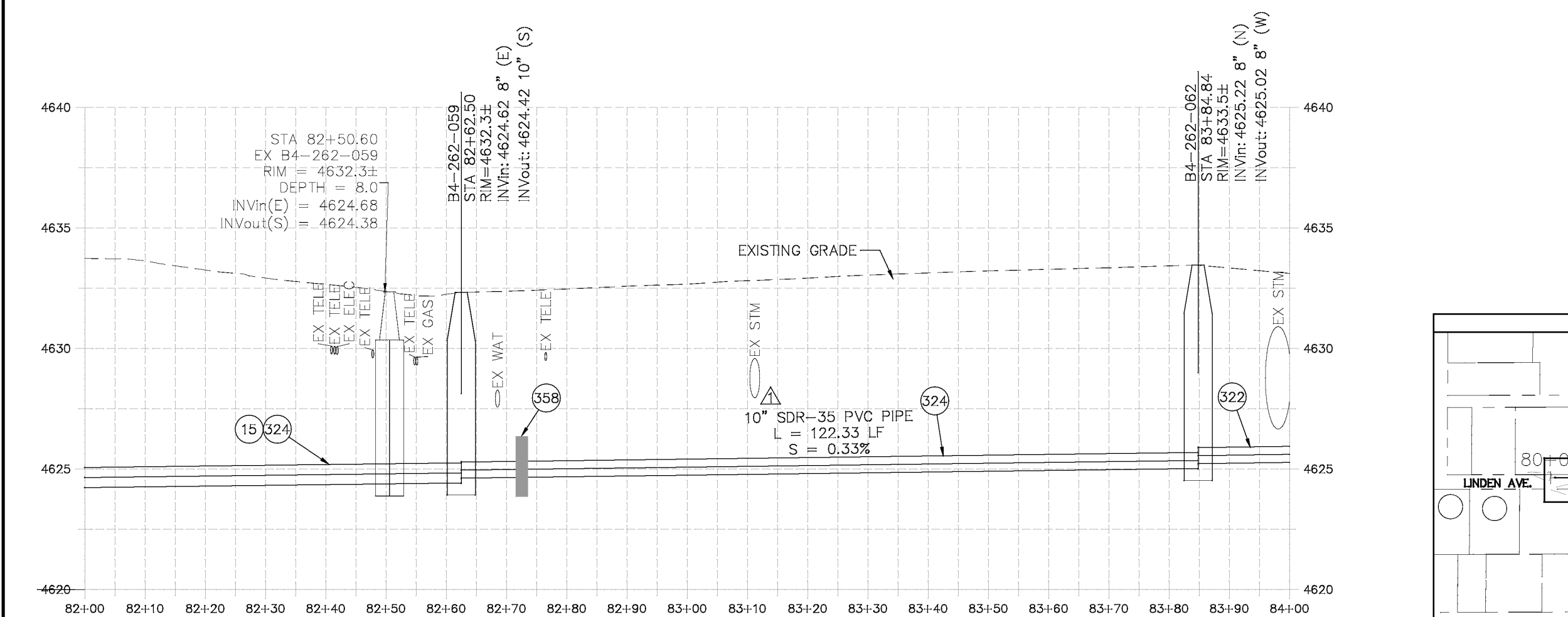
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
LINDEN AVE PLAN AND PROFILE  
STA 80+00 TO STA 82+00**

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- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 17 202 - REMOVE MANHOLE CONE SECTION, RING, AND COVER. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS. CONTRACTOR SHALL FILL REMAINING BARREL SECTIONS WITH FLOW FILL MATERIAL.
  - 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 322 102.9/108.2 - 8" GRAVITY SEWER PIPE (CERTA-FLO PVC GRAVITY SEWER PIPE) (ASTM D2241) (JOINT TYPE: CERTA-LOK RESTRAINED JOINT INTEGRAL BELL) (SDR-21 AND 20-FT PIPE LENGTHS).
  - 324 102.9/108.2 - 10" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 358 103 - CLAY CUT-OFF WALL. (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 581 608.06 - CONCRETE DRAINAGE PAN (6" WIDE)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 672 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION A	UPDATES TO PLAN AND PROFILES	06/2021		DJM	04/2021
REVISION B	XXX	202X		DJM	4/2021
REVISION C	XXX	202X		EM	2021
REVISION D	XXX	202X		KH	2021

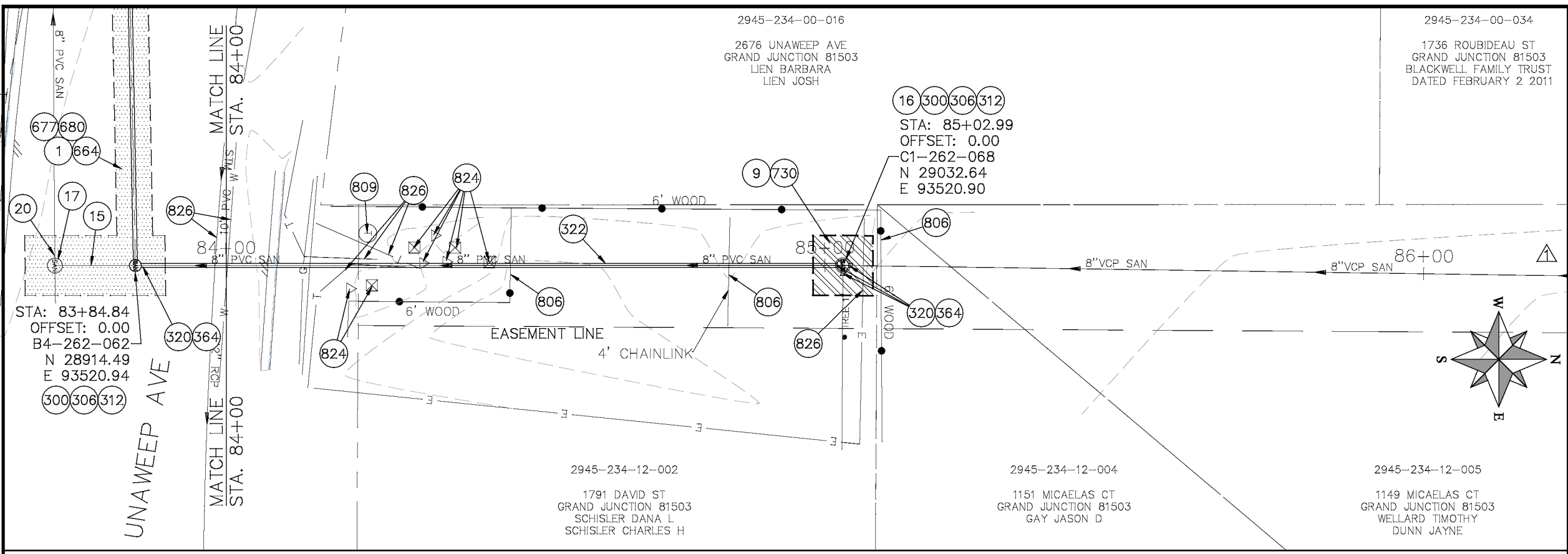
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VERTICAL: 1" = 5'	0 1.25 2.5 5



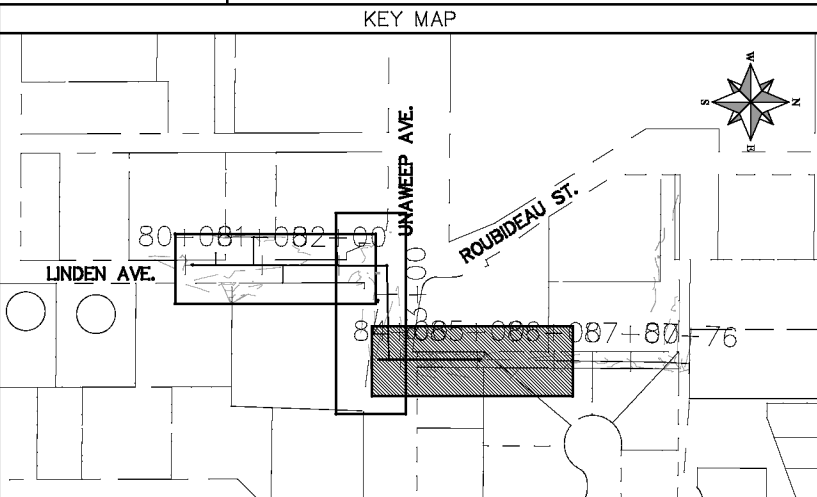
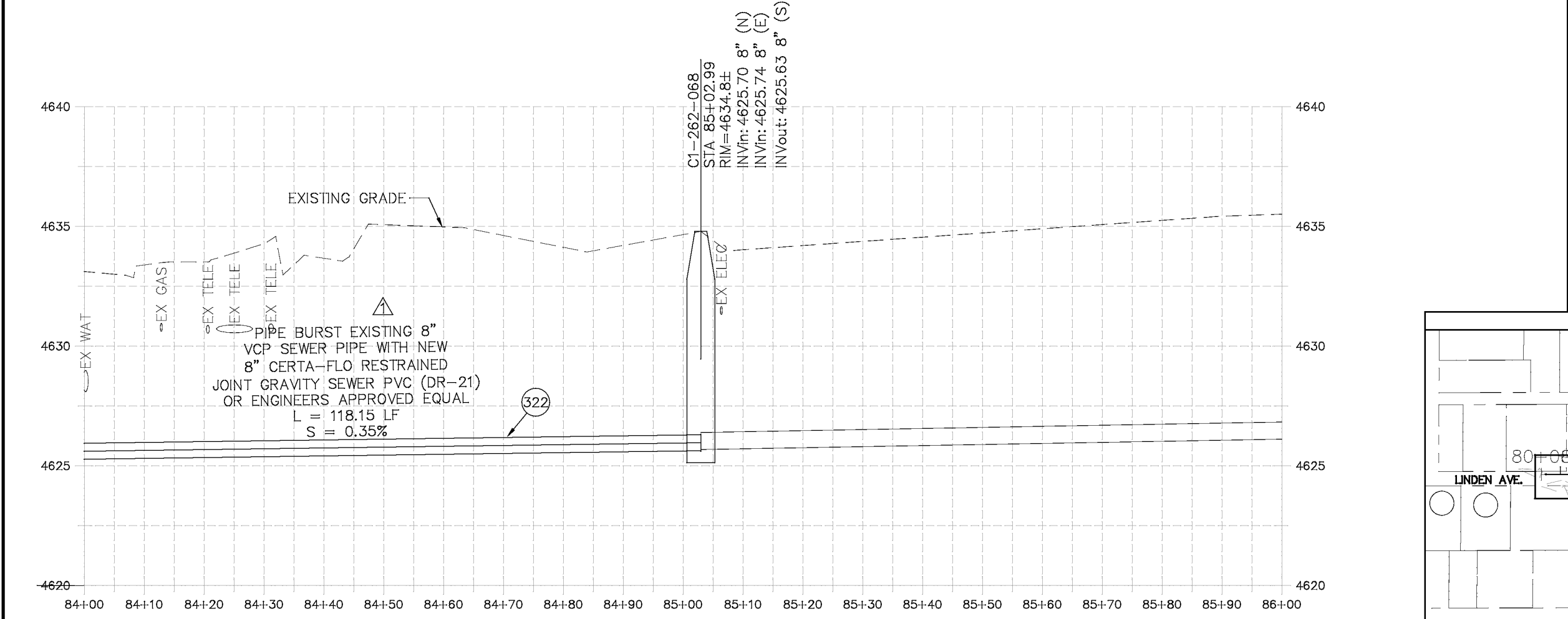
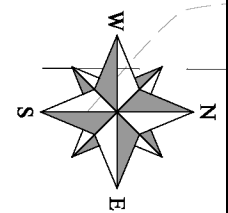
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
LINDEN AVE PLAN AND PROFILE  
STA 82+00 TO STA 84+00**

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- ### CONSTRUCTION NOTES
- 1 202 -- REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 9 202 -- REMOVAL OF SOD
  - 15 202 -- REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 -- REMOVAL OF MANHOLE
  - 17 202 -- REMOVE MANHOLE CONE SECTION, RING, AND COVER. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS. CONTRACTOR SHALL FILL REMAINING BARREL SECTIONS WITH FLOW FILL MATERIAL.
  - 20 202 -- ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
  - 300 102.11/108.5 -- SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 -- MANHOLE BARREL SECTION (D>6") (48" I.D.).
  - 312 102.11/108.5 -- MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 -- CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 322 102.9/108.2 -- 8" GRAVITY SEWER PIPE (CERTA-FLO PVC GRAVITY SEWER PIPE) (ASTM D2241) (JOINT TYPE: CERTA-LOK RESTRAINED JOINT INTEGRAL BELL) (SDR-21 AND 20-FT PIPE LENGTHS).
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 664 304 -- AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 -- HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 -- HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 -- RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 806 PROTECT FENCE
  - 809 PROTECT MANHOLE
  - 824 PROTECT UTILITY PEDESTAL
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION A	UPDATES TO PLAN AND PROFILES	06/2021		DJM	04/2021
REVISION B	XXX	202X		DJM	4/2021
REVISION C	XXX	202X		EM	2021
REVISION D	XXX	202X		KH	2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
LINDEN AVE PLAN AND PROFILE  
STA 84+00 TO STA 86+00**

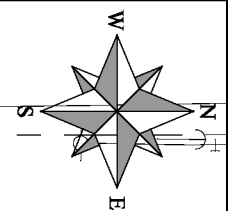
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NADEAU PROPERTIES LLC

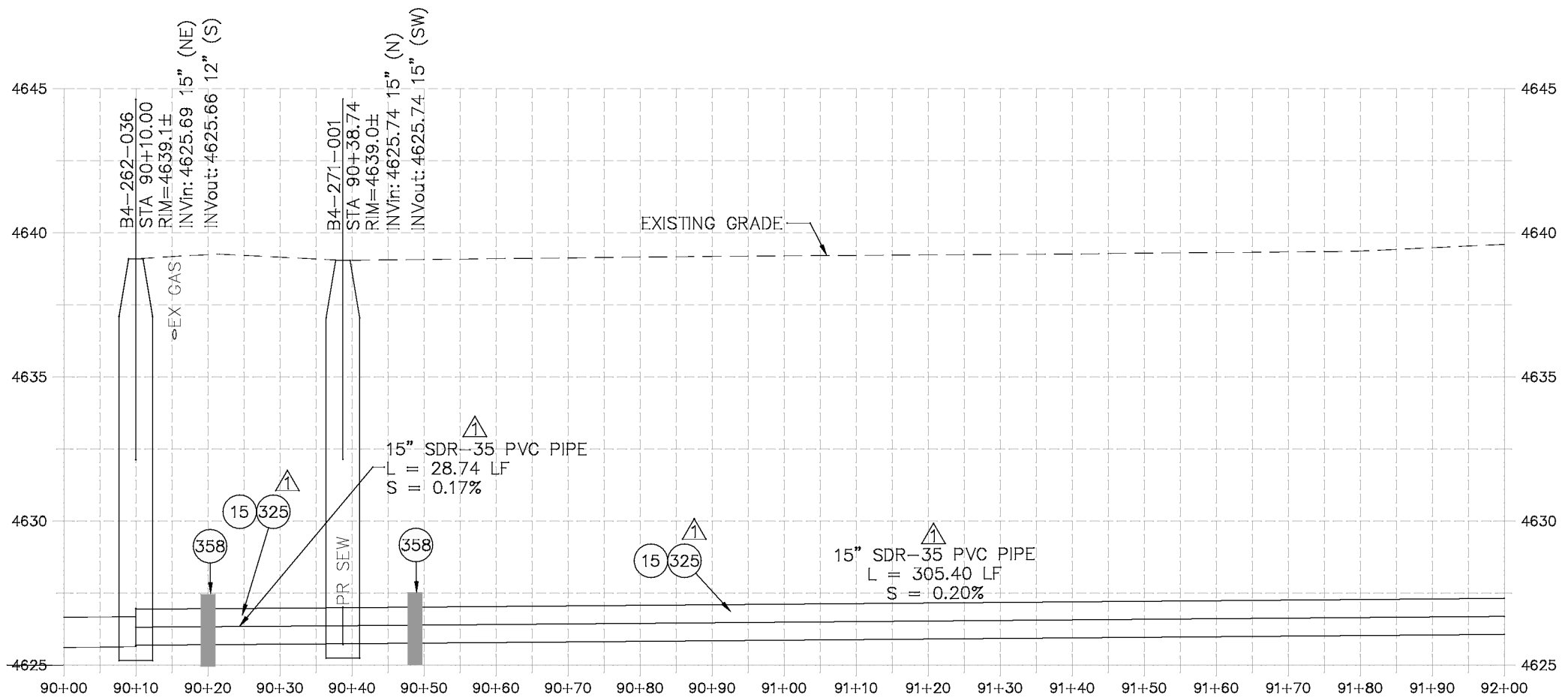
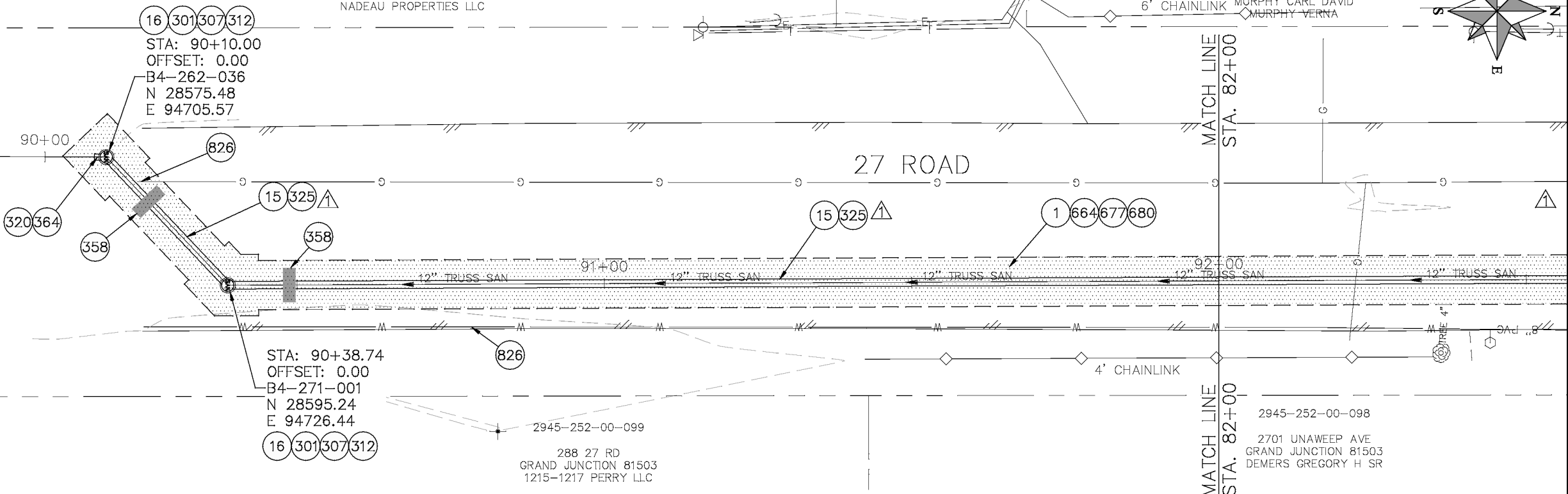
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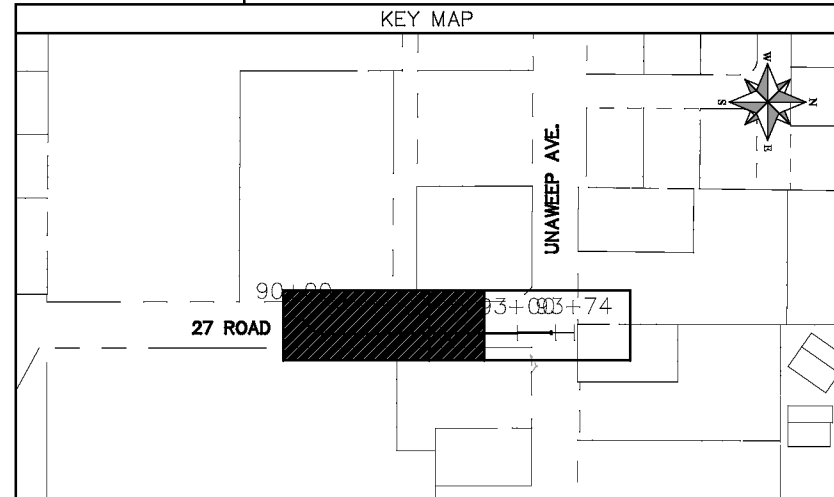


CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE
- 301 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (60" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 307 102.11/108.5 - MANHOLE BARREL SECTION (D>8") (60" I.D.)
- 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
- 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
- 325 102.9/108.2 - 15" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
- 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.



NOTE: SEWER SERVICE LOCATIONS ARE UNKNOWN. SEWER SERVICES SHALL BE VERIFIED BY CONTRACTOR AND CITY. REPLACE SEWER SERVICES PER CITY SPECIFICATIONS.



REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ XXX	UPDATES TO PLAN AND PROFILES	06/2021	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	

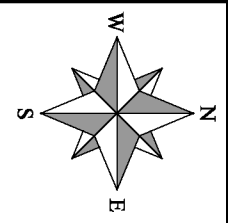
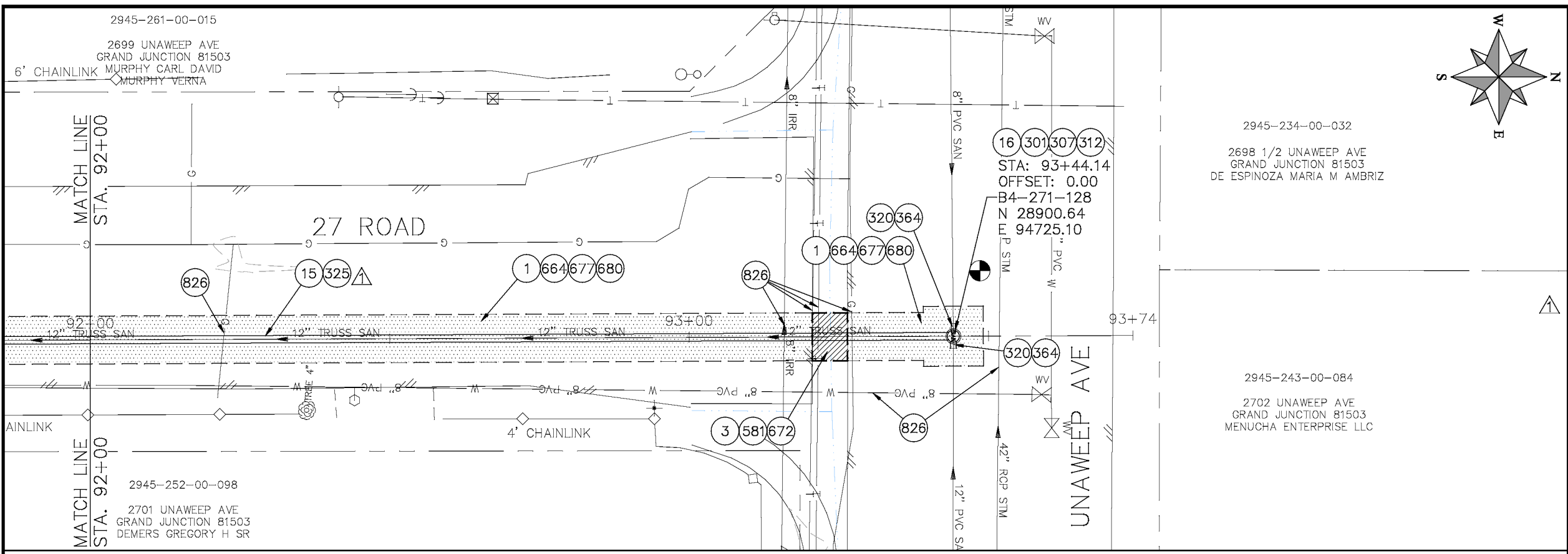
DATE	BY	DATE
04/2021	DJM	04/2021
4/2021	DJM	4/2021
2021	EM	2021
2021	KH	2021

SCALES: PLAN & PROFILE  
 HORIZONTAL: 1" = 20'  
 0 5 10 20  
 VERTICAL: 1" = 5'  
 0 1.25 2.5 5

PUBLIC WORKS  
ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
27 ROAD PLAN AND PROFILE  
STA 90+00 TO STA 92+00

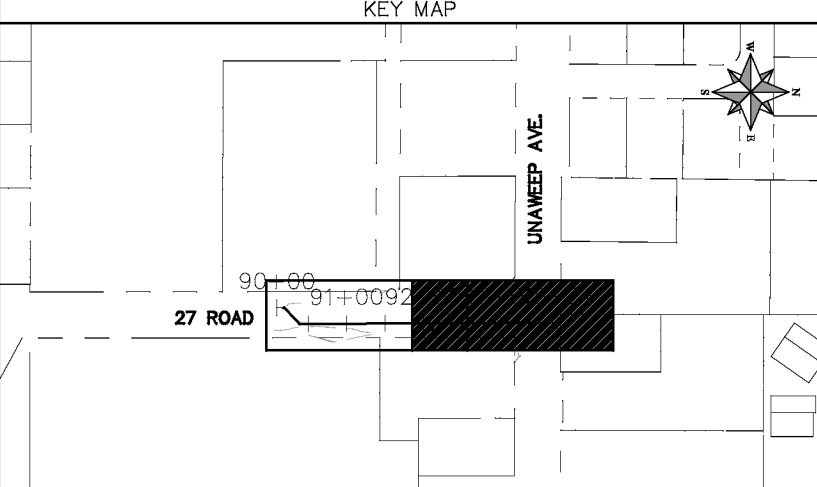
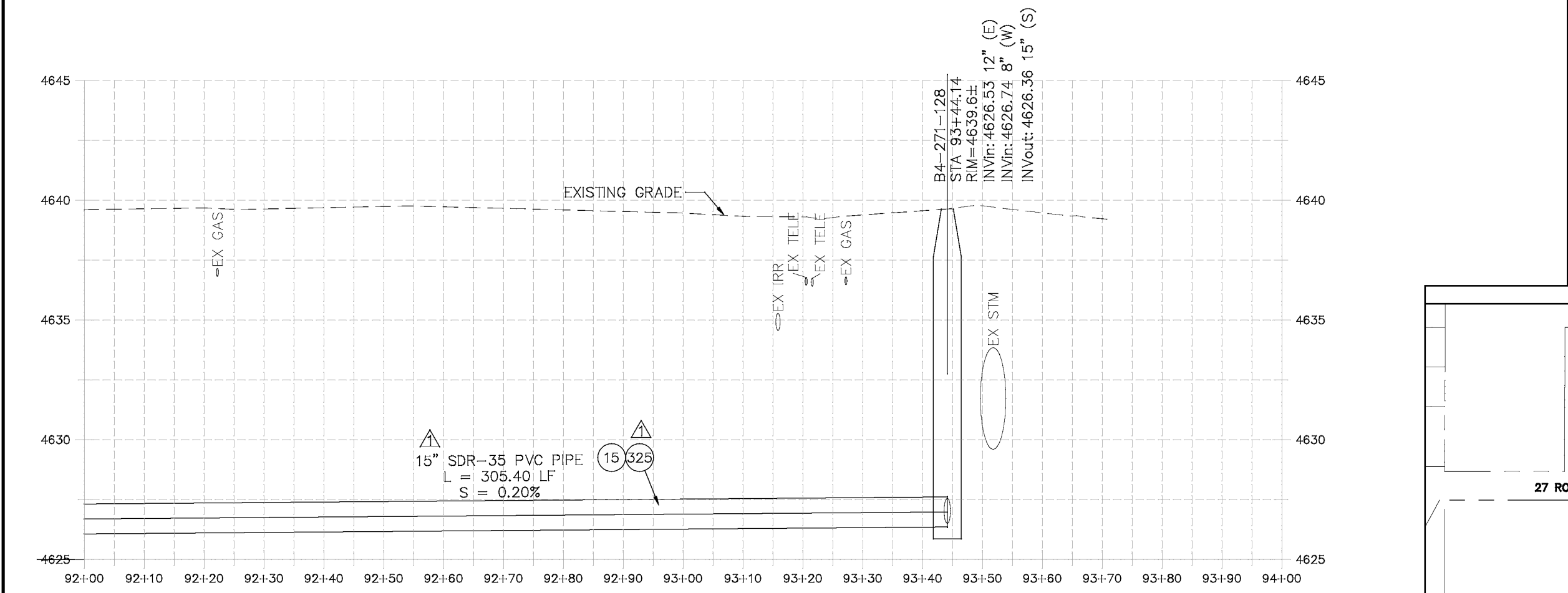
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**CONSTRUCTION NOTES**

- ① 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- ③ 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- ⑮ 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- ⑯ 202 - REMOVAL OF MANHOLE
- ③① 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (60" I.D.), INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- ③⑦ 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (60" I.D.)
- ③② 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
- ③② 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
- ③②⑤ 102.9/108.2 - 15" GRAVITY SEWER PIPE (SDR 35 PVC), INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
- ③⑥⑧ 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- ③④ ③④ CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- ⑤⑧① ⑤⑧① 608.06 - CONCRETE DRAINAGE PAN (6' WIDE)
- ⑤⑧④ ⑤⑧④ 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
- ⑤⑧⑦ ⑤⑧⑦ 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
- ⑤⑧① ⑤⑧① 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- ⑤⑧② ⑤⑧② PROTECT EXISTING UTILITY LINE IN PLACE.

NOTE: SEWER SERVICE LOCATIONS ARE UNKNOWN. SEWER SERVICES SHALL BE VERIFIED BY CONTRACTOR AND CITY. REPLACE SEWER SERVICES PER CITY SPECIFICATIONS.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021		DJM	04/2021
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REVISION Δ	XXX	202X		EM	2021
REVISION Δ	XXX	202X		KH	2021

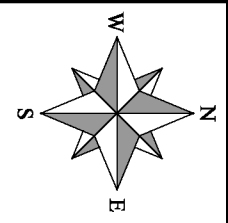
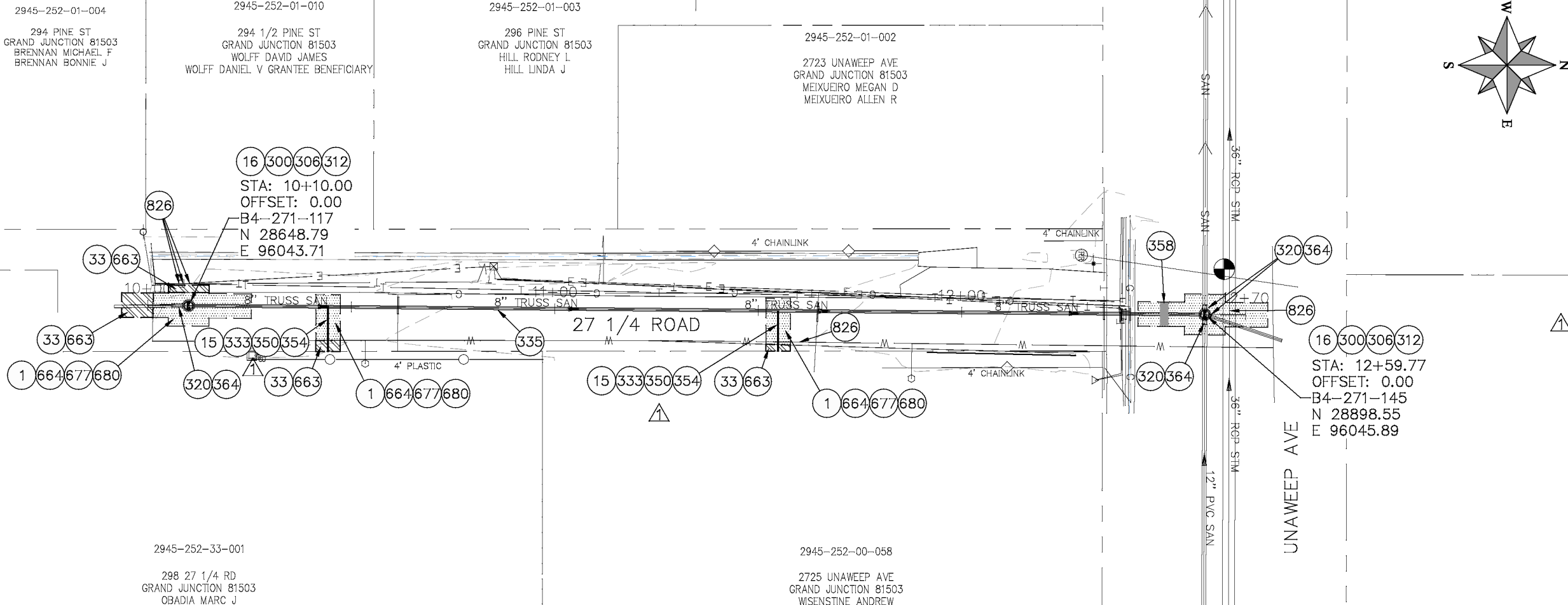
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VERTICAL: 1" = 5'	0 1.25 2.5 5



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ENGINEERING DIVISION**

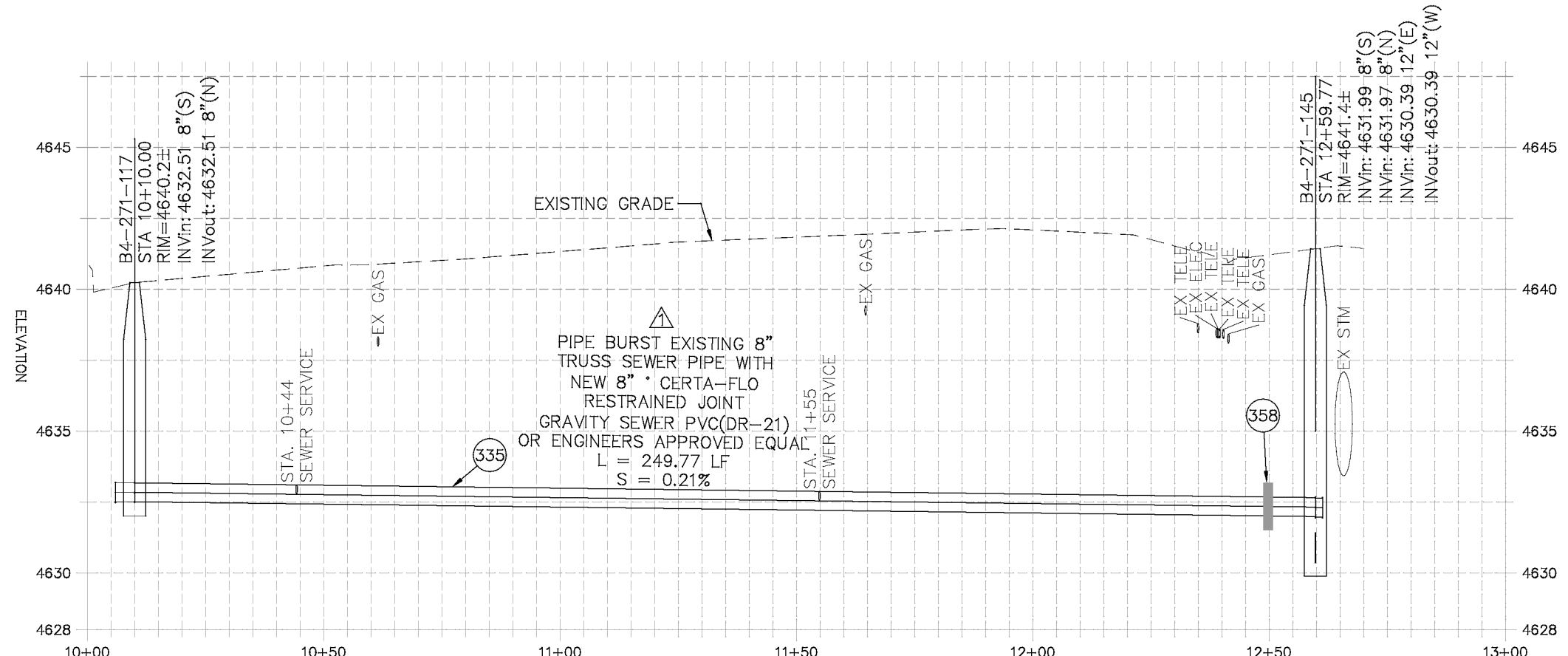
**2021 SEWER LINE REPLACEMENT - PHASE A  
27 ROAD PLAN AND PROFILE  
STA 92+00 TO STA 94+00**

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**CONSTRUCTION NOTES**

- ① 202 -- REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- ⑮ 202 -- REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- ⑮ 202 -- REMOVAL OF MANHOLE
- ⑮ 202 -- REMOVE EXISTING SURFACE MATERIAL
- ③③ 102.11/108.5 -- SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- ③③ 102.11/108.5 -- MANHOLE BARREL SECTION (D>6") (48" I.D.).
- ③③ 102.11/108.5 -- MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
- ③③ 102.11 -- CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
- ③③ 102.9/108.2 -- 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- ③③ 102.9/108.2 -- 8" GRAVITY SEWER PIPE (CERTA-FLO PVC GRAVITY SEWER PIPE)(ASTM D2241) (JOINT TYPE: CERTA-LOK RESTRAINED JOINT INTEGRAL BELL)(SDR-21 AND 20-FT PIPE LENGTHS)
- ③③ 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
- ③③ 104.20 -- INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- ③③ 103 -- CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- ③③ CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- ③③ 304 -- AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- ③③ 304 -- AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
- ③③ 401.08 -- HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
- ③③ 401.08 -- HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- ③③ PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DATE	PROJECT NO.	DESCRIPTION
REVISION Δ	06/2021		UPDATES TO PLAN AND PROFILES
REVISION Δ XXX	202X		
REVISION Δ XXX	202X		
REVISION Δ XXX	202X		

DATE	BY	DESCRIPTION
04/2021	DJM	DRAWN BY
4/2021	DJM	DESIGNED BY
2021	EM	CHECKED BY
2021	KH	APPROVED BY

SCALES: PLAN & PROFILE  
 HORIZONTAL: 1" = 30'  
 0 7.5 15 20  
 VERTICAL: 1" = 5'  
 0 1.25 2.5 5

**CITY OF Grand Junction COLORADO**

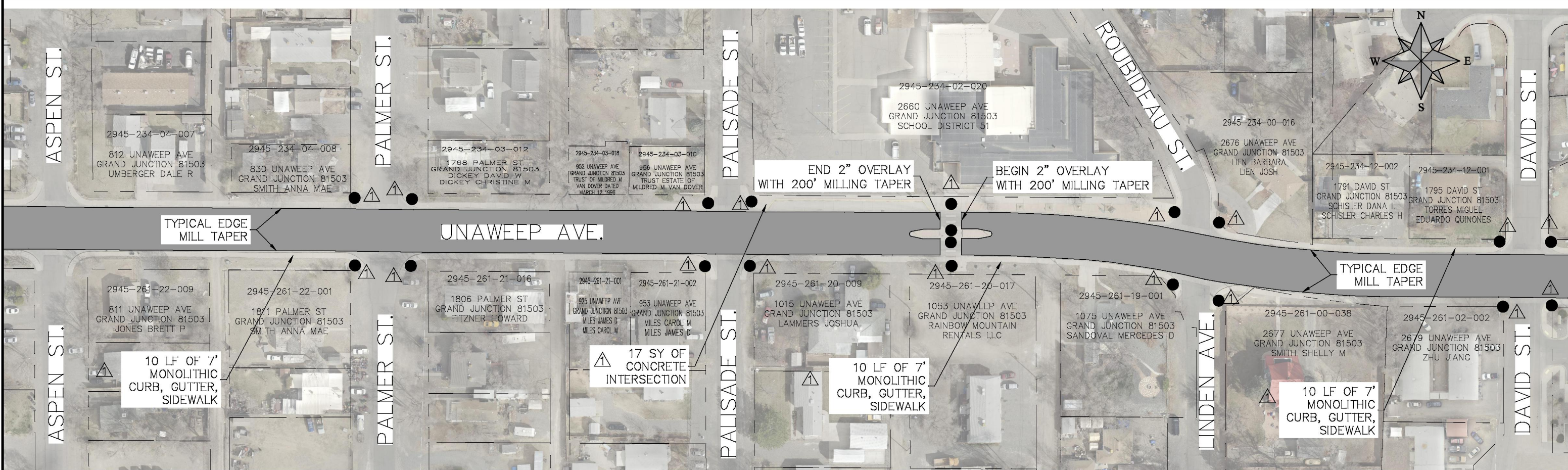
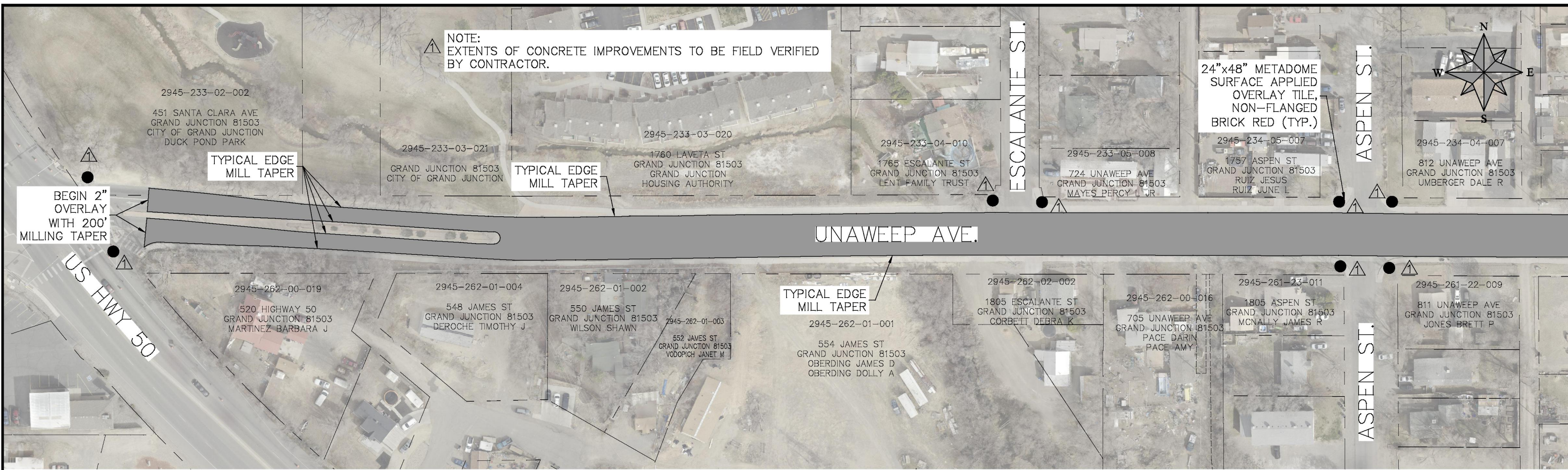
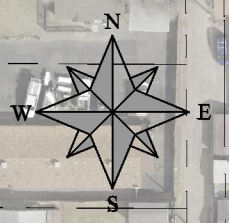
**PUBLIC WORKS ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A**  
**27 1/4 ROAD PLAN AND PROFILE**  
**STA 10+00 TO STA 12+00**

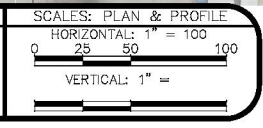
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NOTE:  
EXTENTS OF CONCRETE IMPROVEMENTS TO BE FIELD VERIFIED  
BY CONTRACTOR.

24"x48" METADOME  
SURFACE APPLIED  
OVERLAY TILE,  
NON-FLANGED  
BRICK RED (TYP.)



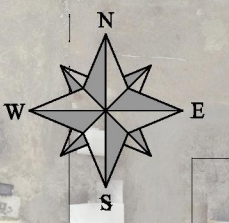
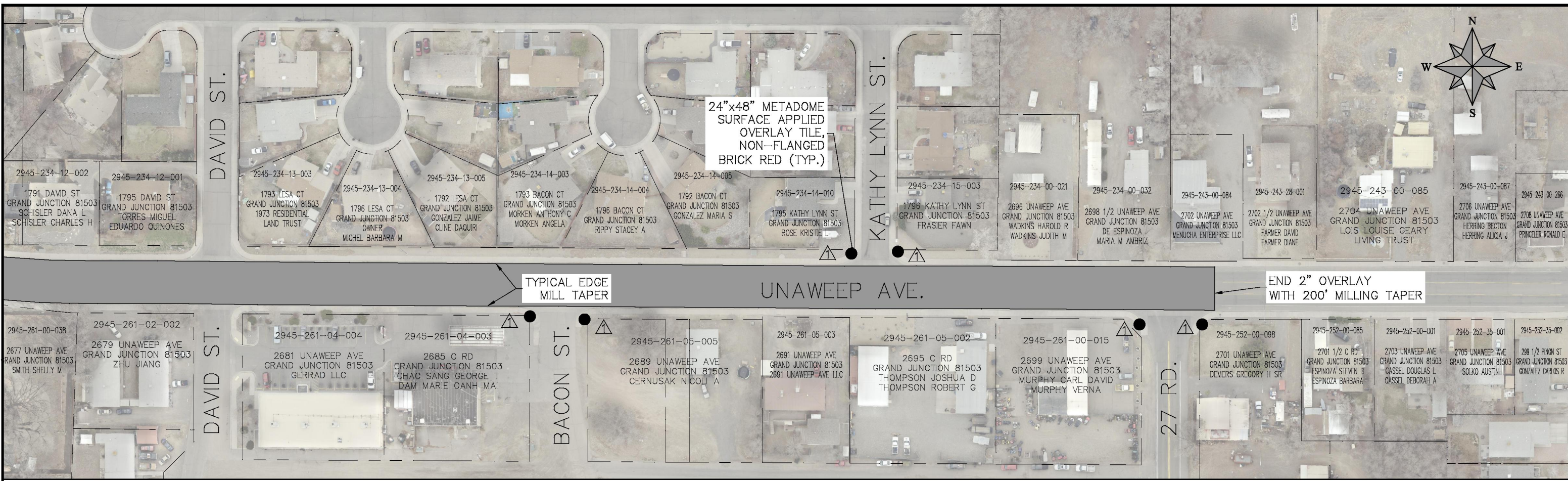
REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION $\Delta$ UPDATES TO DRAWINGS		06/2021		DJM	05/2021
REVISION $\Delta$ XXX		202X		DJM	05/2021
REVISION $\Delta$ XXX		202X		EM	2021
REVISION $\Delta$ XXX		202X		KH	2021



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**2021 SEWER LINE REPLACEMENT – PHASE A  
UNAWEEP AVE. OVERLAY**

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TYPICAL EDGE  
MILL TAPER

END 2" OVERLAY  
WITH 200' MILLING TAPER

NOTE:  
EXTENTS OF CONCRETE IMPROVEMENTS TO BE FIELD VERIFIED  
BY CONTRACTOR.

REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION A	UPDATES TO DRAWING	06/2021		DJM	05/2021
REVISION B	XXX	202X		DJM	05/2021
REVISION C	XXX	202X		EM	2021
REVISION D	XXX	202X		KH	2021

SCALES: PLAN & PROFILE	
HORIZONTAL:	1" = 100'
VERTICAL:	1" = 10'



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ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT – PHASE A  
UNAWEEP AVE. OVERLAY

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24"x48" METADOME  
SURFACE APPLIED  
OVERLAY TILE,  
NON-FLANGED  
BRICK RED (TYP.)

BEGIN 2" OVERLAY  
WITH 200' MILLING TAPER

TIE ASPHALT INTO  
FLOW LINE OF GUTTER

ESCALANTE ST.

END 2" OVERLAY  
WITH 200' MILLING TAPER

UNAWEEP AVE.

SANTA CLARA AVE.

2945-233-04-010  
1765 ESCALANTE ST  
GRAND JUNCTION 81503  
LENT FAMILY TRUST

2945-233-04-009  
1765 ESCALANTE ST  
GRAND JUNCTION 81503  
LENT FAMILY TRUST

2945-233-04-005  
1741 ESCALANTE ST  
GRAND JUNCTION 81503  
MELTON RICHARD

2945-233-04-006  
1731 ESCALANTE ST  
GRAND JUNCTION 81503  
MCCABE WESLEY DANE  
DILLON SAMANTHA B

2945-233-33-002  
1725 ESCALANTE ST  
GRAND JUNCTION 81503  
WYATT CARL

2945-233-33-001  
653 SANTA CLARA AVE  
GRAND JUNCTION 81503  
BACA REYNA V  
GRAY STEPHAN T

2945-233-05-008  
724 UNAWEEP AVE  
GRAND JUNCTION 81503  
MAYES PERCY L JR

2945-233-05-007  
1756 ESCALANTE ST  
GRAND JUNCTION 81503  
CORDOVA MICHAEL A

2945-233-05-006  
1748 ESCALANTE ST  
GRAND JUNCTION 81503  
RUPPE WYATT

2945-233-05-005  
1740 ESCALANTE ST  
GRAND JUNCTION 81503  
MELTON RICHARD K

2945-233-05-004  
1732 ESCALANTE ST  
GRAND JUNCTION 81503  
JONES DANIEL DUANE

2945-233-05-003  
1726 ESCALANTE ST  
GRAND JUNCTION 81503  
SMITH SIDNEY D  
SMITH RUBY B

2945-233-05-001  
713 SANTA CLARA AVE  
GRAND JUNCTION 81503  
JOE L GARCIA TESTAMENTARY TRUST  
GARCIA-TILLMAN JOLYNN CO-TRUSTEE,  
STAGE PATRICIA CABRINI CO-TRUSTEE,  
GARCIA TED ALLEN CO-TRUSTEE

NOTE;  
EDGE MILL TAPER AT ALL CONCRETE  
AND ASPHALT DRIVEWAYS AS NECESSARY.

REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION A	UPDATES TO DRAWING	06/2021		DJM	05/2021
REVISION B	XXX	202X		DJM	05/2021
REVISION C	XXX	202X		EM	2021
REVISION D	XXX	202X		KH	2021

SCALES: PLAN & PROFILE	
HORIZONTAL:	1" = 60'
VERTICAL:	1" = 10'



PUBLIC WORKS  
ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST. OVERLAY

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REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION Δ	UPDATES TO DRAWING	06/2021		DJM	05/2021
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REVISION Δ	XXX	202X		EM	2021
REVISION Δ	XXX	202X		KH	2021

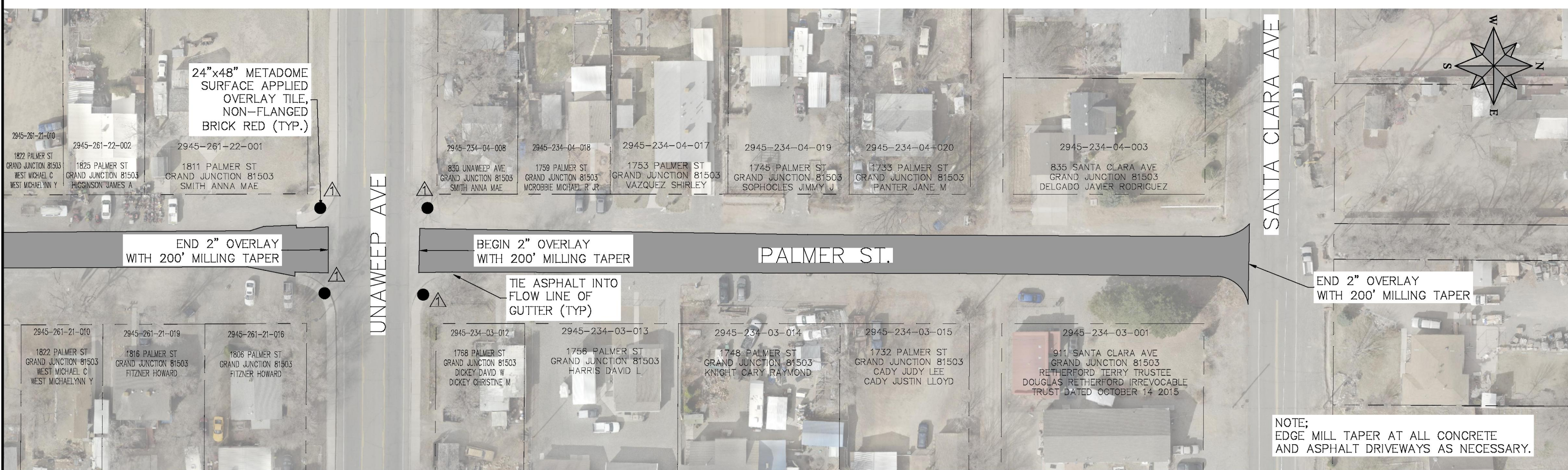
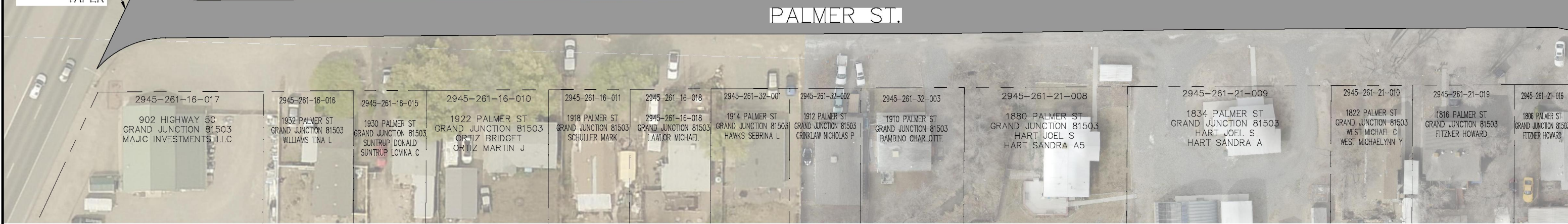
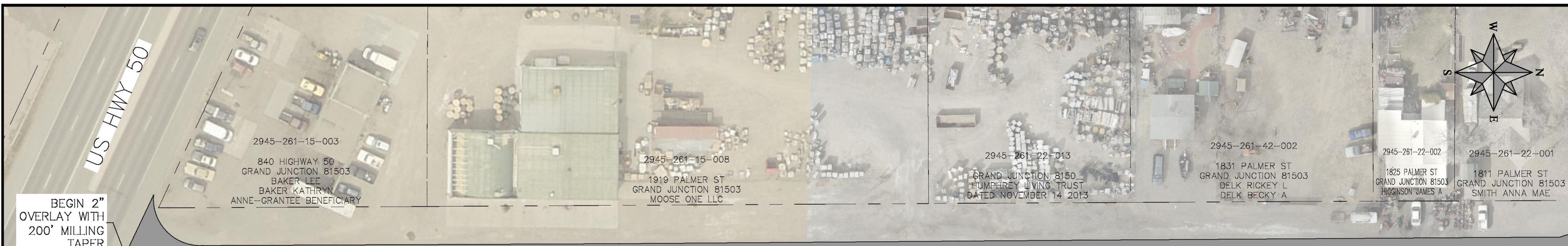
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HORIZONTAL:	1" = 60'
VERTICAL:	1" = 10'



**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT – PHASE A  
ASPEN ST. OVERLAY**

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REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION A	UPDATES TO DRAWING	06/2021		05/2021
REVISION B	XXX	202X		05/2021
REVISION C	XXX	202X		2021
REVISION D	XXX	202X		2021

DESCRIPTION	DATE	PROJECT NO.	DATE
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DESIGNED BY	DJM		05/2021
CHECKED BY	EM		2021
APPROVED BY	KH		2021

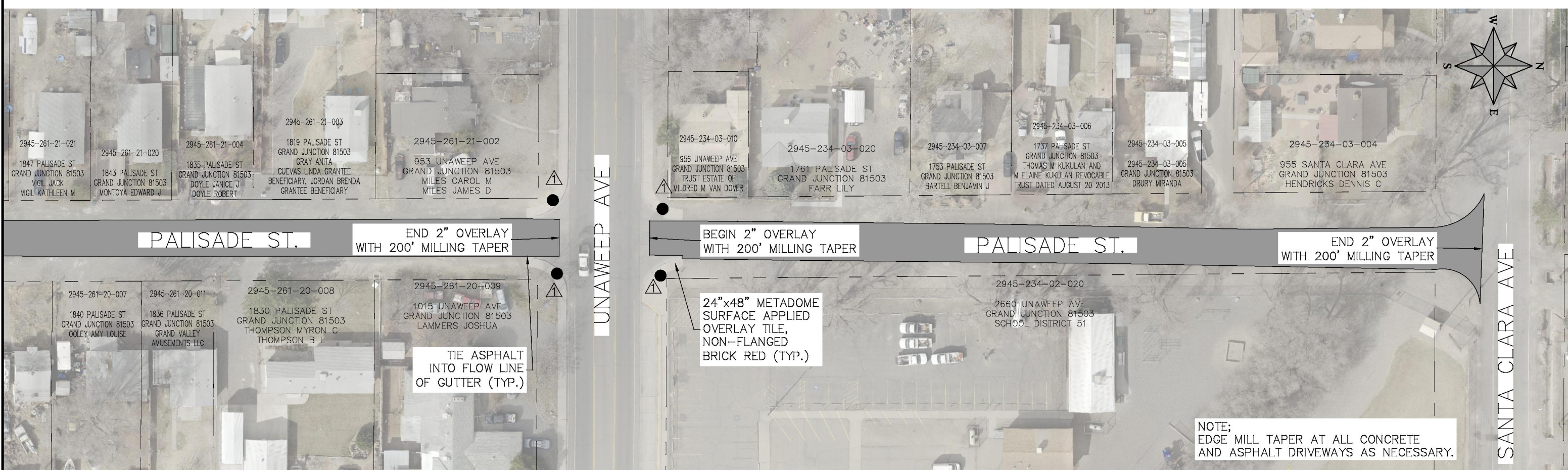
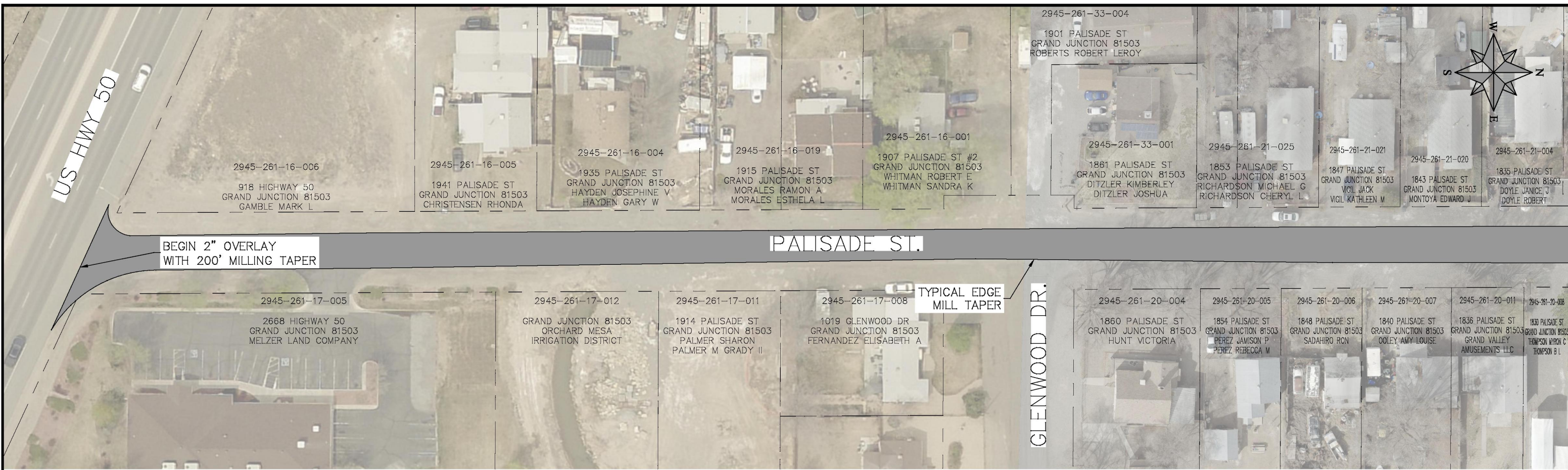
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 HORIZONTAL: 1" = 60'  
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 VERTICAL: 1" =

**CITY OF Grand Junction COLORADO**  
**PUBLIC WORKS ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT – PHASE A PALMER ST. OVERLAY**

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REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION A	UPDATES TO DRAWING	06/2021		DJM	05/2021
REVISION B	XXX	202X		DJM	05/2021
REVISION C	XXX	202X		EM	2021
REVISION D	XXX	202X		KH	2021

SCALES: PLAN & PROFILE	
HORIZONTAL:	1" = 60'
VERTICAL:	1" = 10'



**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT – PHASE A  
PALISADE ST. OVERLAY**



24"x48" METADOME SURFACE APPLIED OVERLAY TILE, NON-FLANGED BRICK RED (TYP.)

BEGIN 2" OVERLAY WITH 200' MILLING TAPER

TIE ASPHALT INTO FLOW LINE OF GUTTER

END 2" OVERLAY WITH 200' MILLING TAPER

SANTA CLARA AVE.

NOTE;  
EDGE MILL TAPER AT ALL CONCRETE AND ASPHALT DRIVEWAYS AS NECESSARY.

REVISION	DESCRIPTION	DATE	PROJECT NO.	DRAWN BY	DATE
REVISION $\Delta$ XXX	UPDATES TO DRAWING	06/2021		DJM	05/2021
REVISION $\Delta$ XXX		202X		DJM	05/2021
REVISION $\Delta$ XXX		202X		EM	2021
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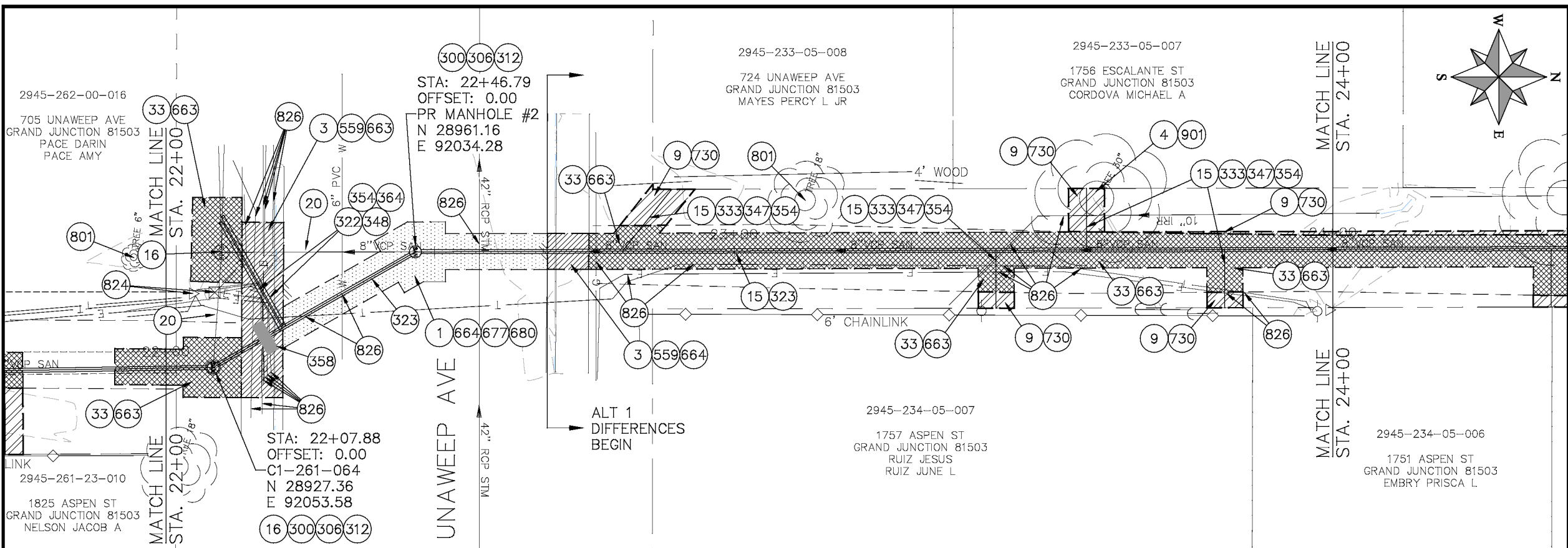
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 60'	0 15 30 60
VERTICAL: 1" = 10'	



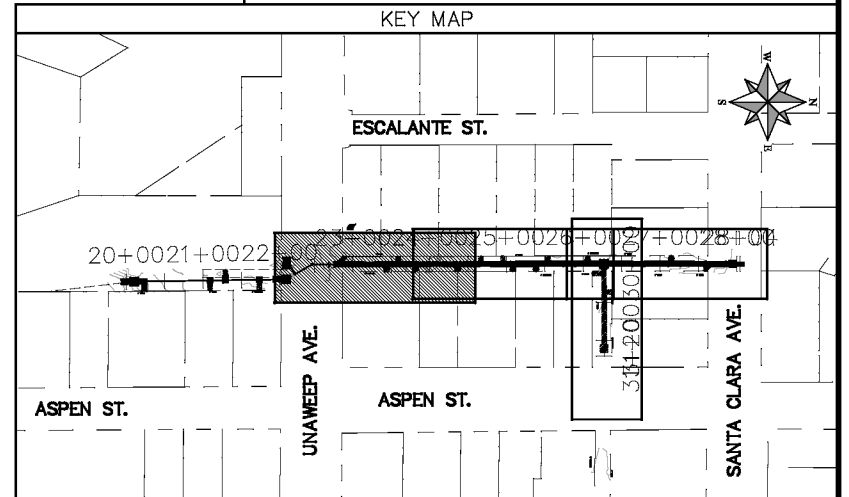
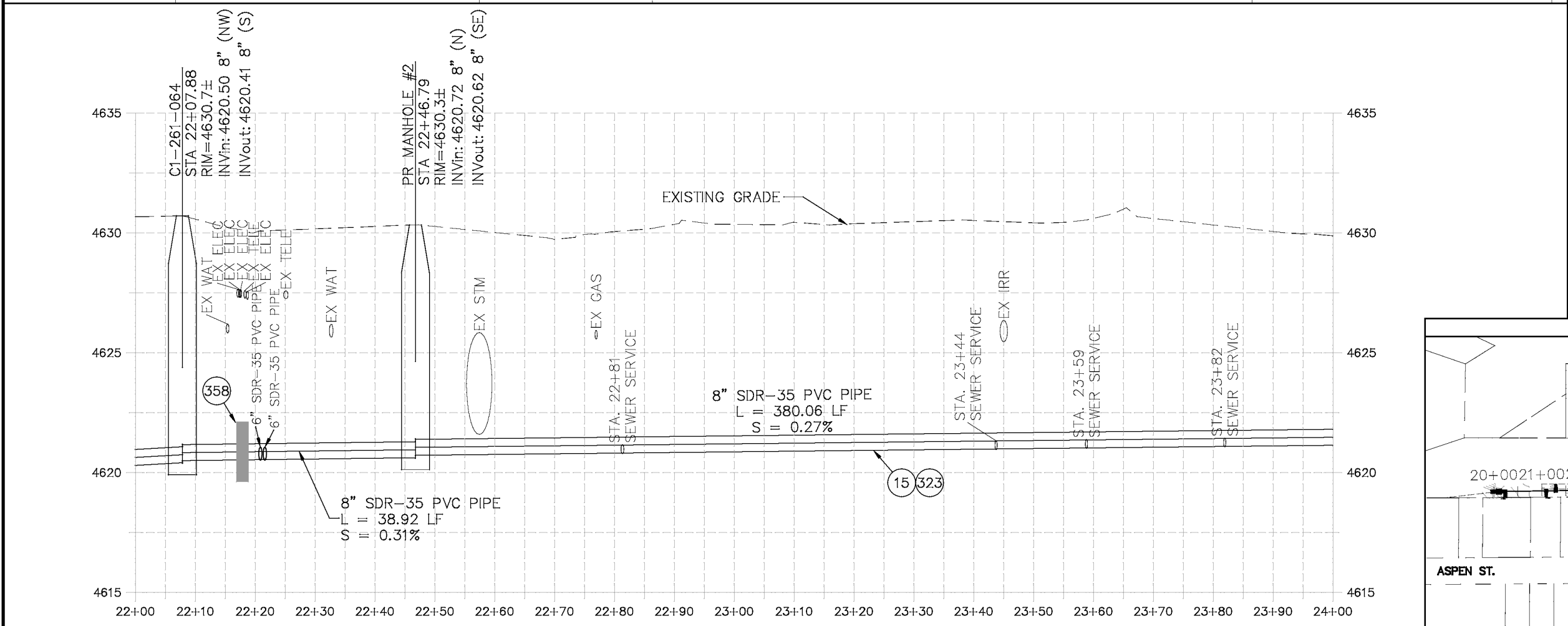
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT – PHASE A  
ROUBIDEAU ST. OVERLAY**

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- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 4 202 - REMOVAL OF TREE (SIZE AS SHOWN ON PLAN)
  - 9 202 - REMOVAL OF SOD.
  - 16 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 20 202 - REMOVAL OF MANHOLE
  - 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL) JOINTS. FIELD VERIFY SIZE MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE. FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>8") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODEUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 322 102.9/108.2 - 6" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 347 347/102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 348 102.9/108.3 - 8" x 6" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 559 608.06 - MONOLITHIC VERTICAL CURB, GUTTER AND SIDEWALK (7" WIDE)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 7B) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 801 PROTECT TREE
  - 824 PROTECT UTILITY PEDESTAL
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
  - 901 REPLACE TREE



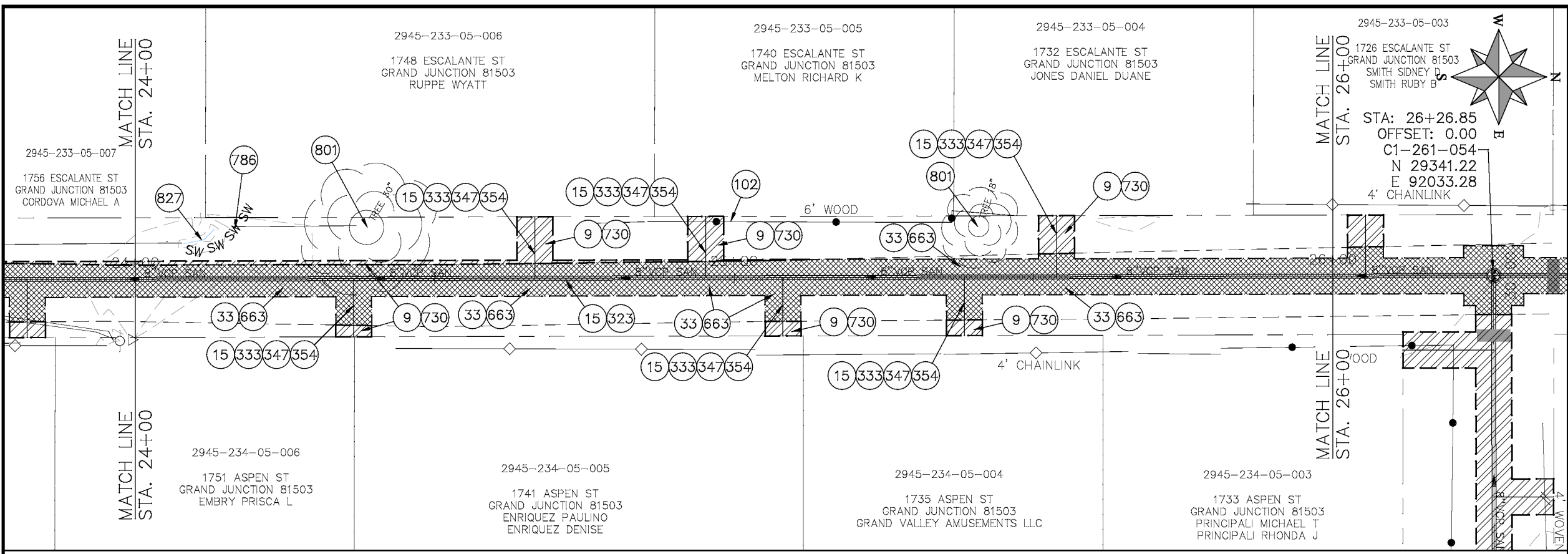
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REVISION Δ XXX	202X	4/2021	DJM
REVISION Δ XXX	202X	2021	EM
REVISION Δ XXX	202X	2021	KH

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

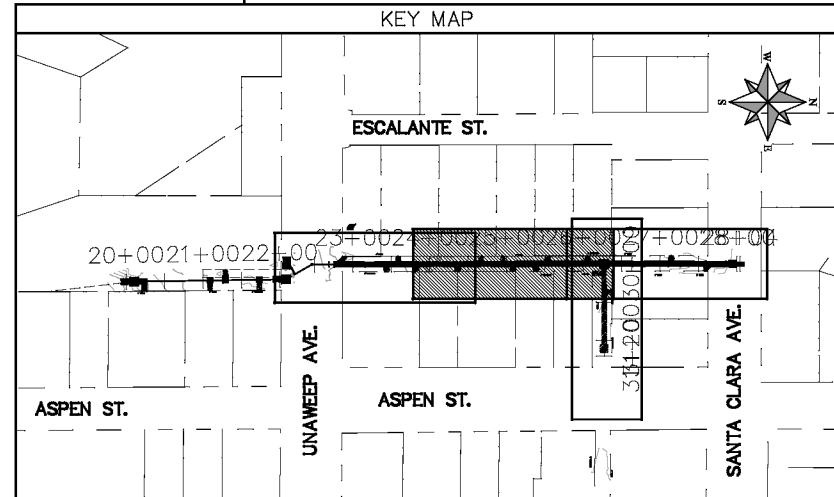
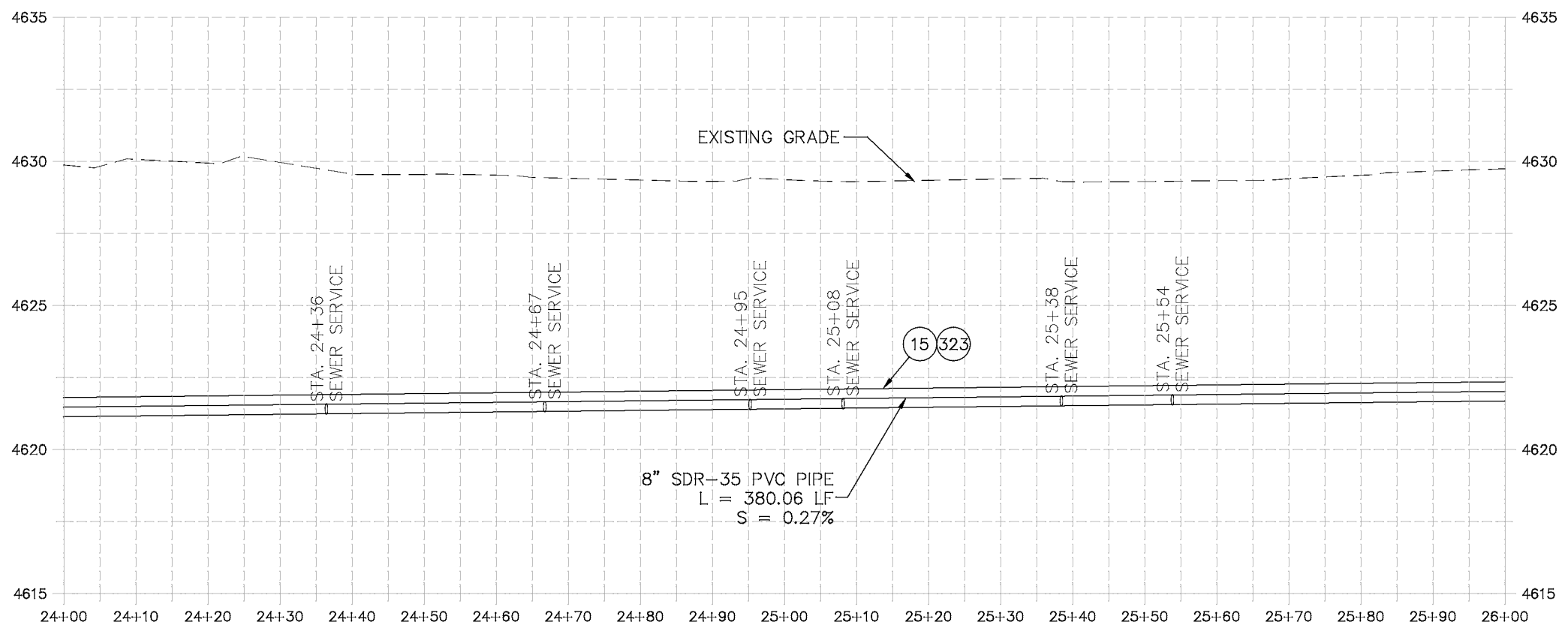


PUBLIC WORKS  
ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST ALLEY PLAN AND PROFILE - ALT 1  
STA 22+00 TO STA 24+00



- CONSTRUCTION NOTES**
- 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP -- PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 102 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOWN ON PLAN)
  - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 347 347102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 786 EROSION CONTROL LOG
  - 801 PROTECT TREE
  - 827 PROTECT IRRIGATION DITCH



REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION A XXX		202X	
REVISION B XXX		202X	
REVISION C XXX		202X	
REVISION D XXX		202X	

DATE	DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY
04/2021	DJM	DJM	EM	KH
4/2021				
2021				
2021				

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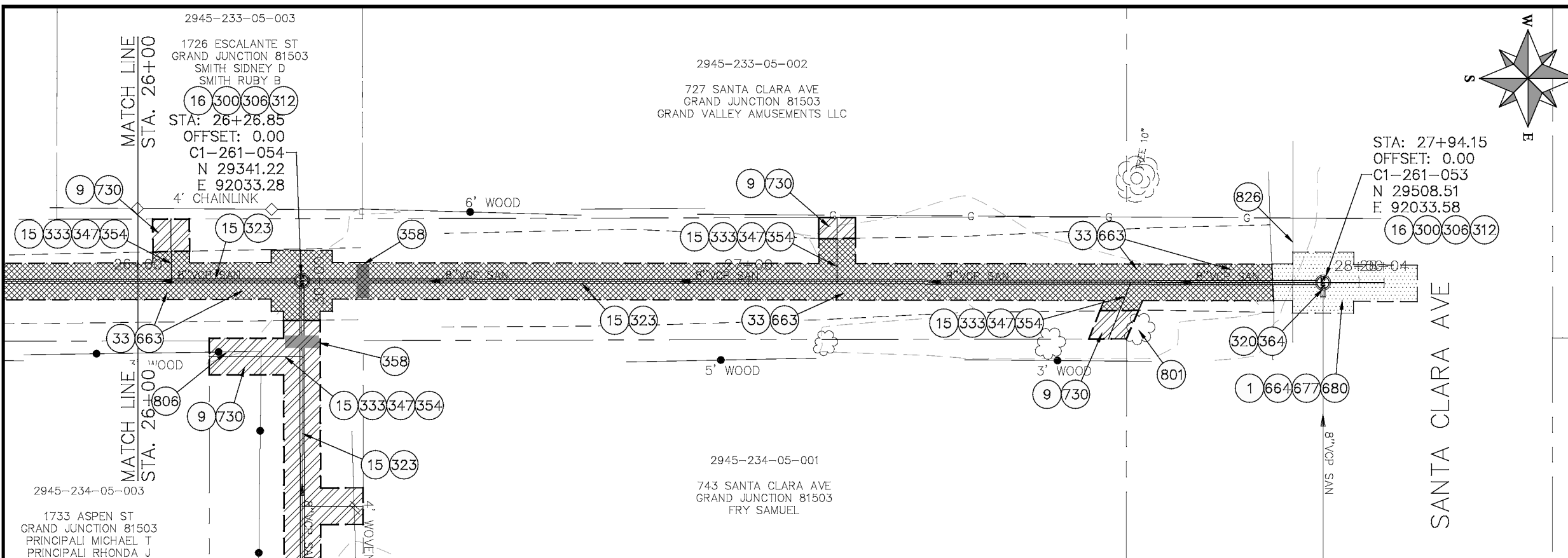


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ENGINEERING DIVISION**

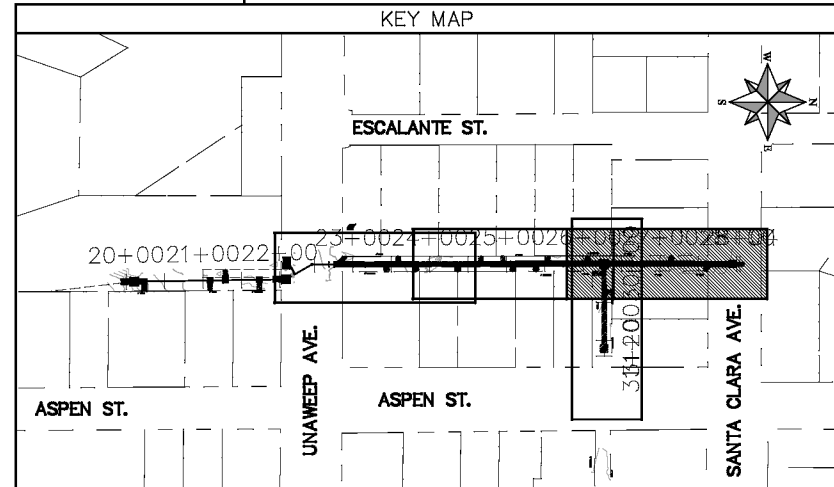
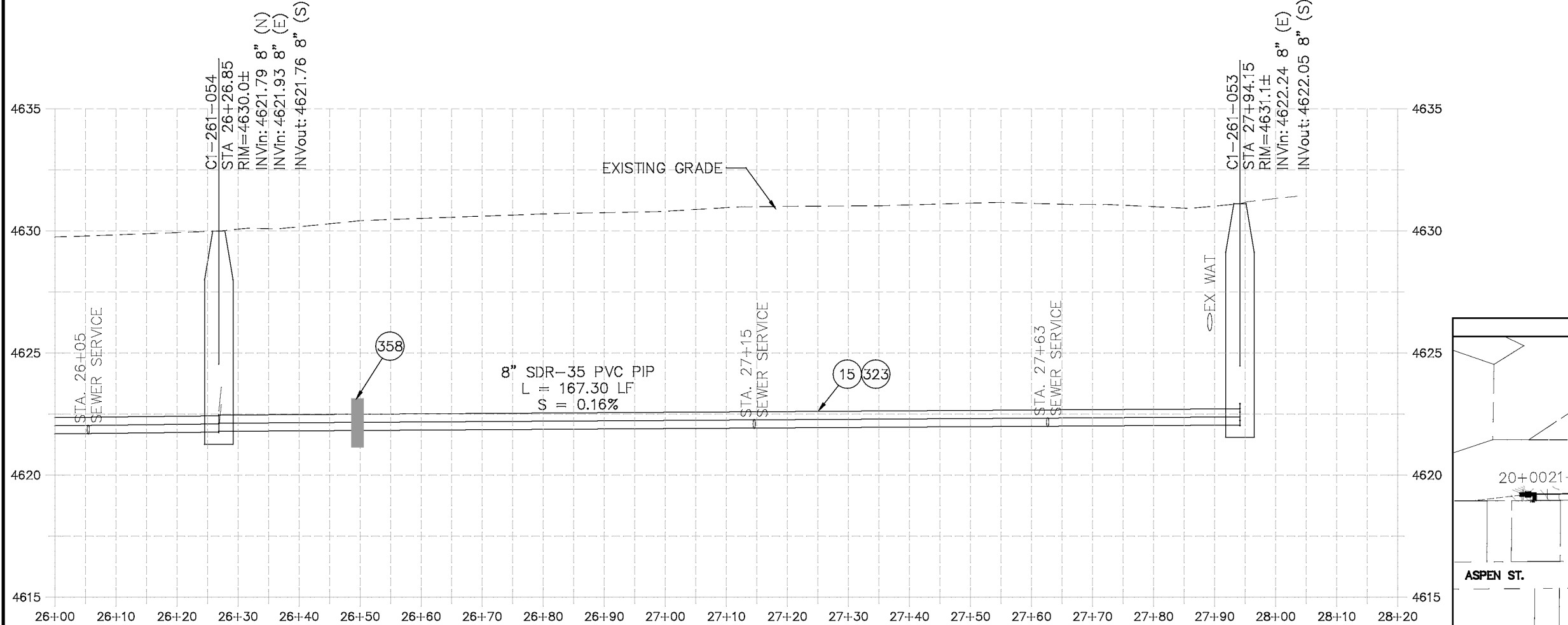
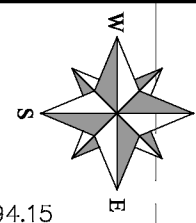
**2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST ALLEY PLAN AND PROFILE - ALT 1  
STA 24+00 TO STA 26+00**

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- ### CONSTRUCTION NOTES
- 1 202 -- REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 9 202 -- REMOVAL OF SOD.
  - 15 202 -- REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 -- REMOVAL OF MANHOLE
  - 33 202 -- REMOVE EXISTING SURFACE MATERIAL
  - 34 SP -- PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 300 102.11/108.5 -- SANITARY SEWER BASIC MANHOLE (48" I.D.), INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 -- MANHOLE BARREL SECTION (D>5") (48" I.D.).
  - 312 102.11/108.5 -- MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL. MINIMUM THICKNESS)
  - 320 102.11 -- CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 323 102.9/108.2 -- 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 333 102.9/108.2 -- 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 347 347102.9/108.3 -- 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 -- INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 -- CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 663 304 -- AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 664 304 -- AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 -- HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 -- HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 -- RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 801 PROTECT TREE
  - 806 PROTECT FENCE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ XXX	202X	DJM	DATE 04/2021
REVISION Δ XXX	202X	DJM	DATE 4/2021
REVISION Δ XXX	202X	EM	DATE 2021
REVISION Δ XXX	202X	KH	DATE 2021

SCALES: PLAN & PROFILE  
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 VERTICAL: 1" = 5'  
 0 1.25 2.5 5

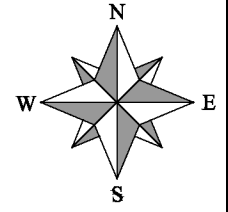
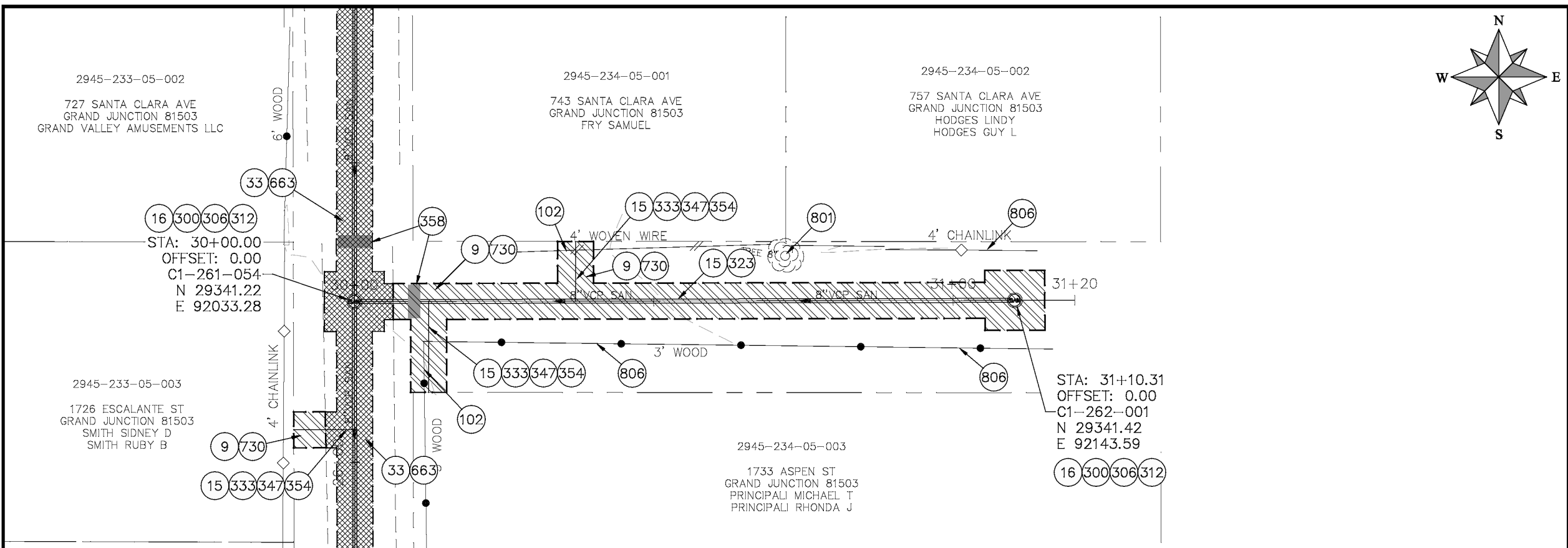


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ENGINEERING DIVISION**

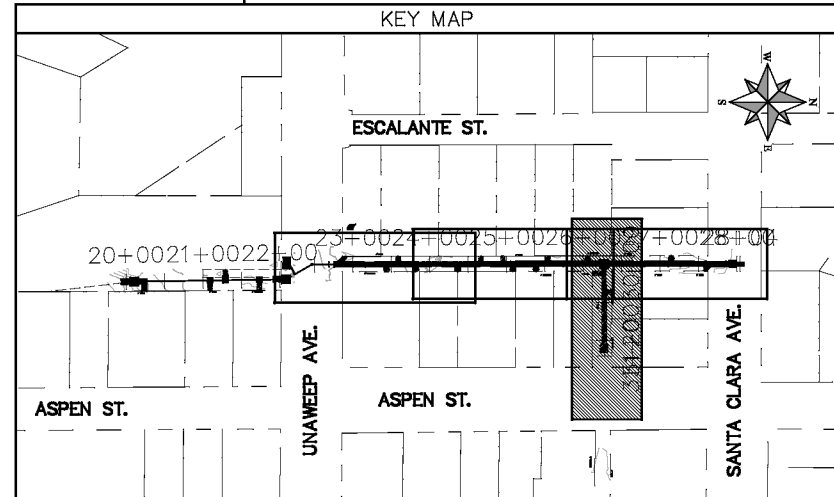
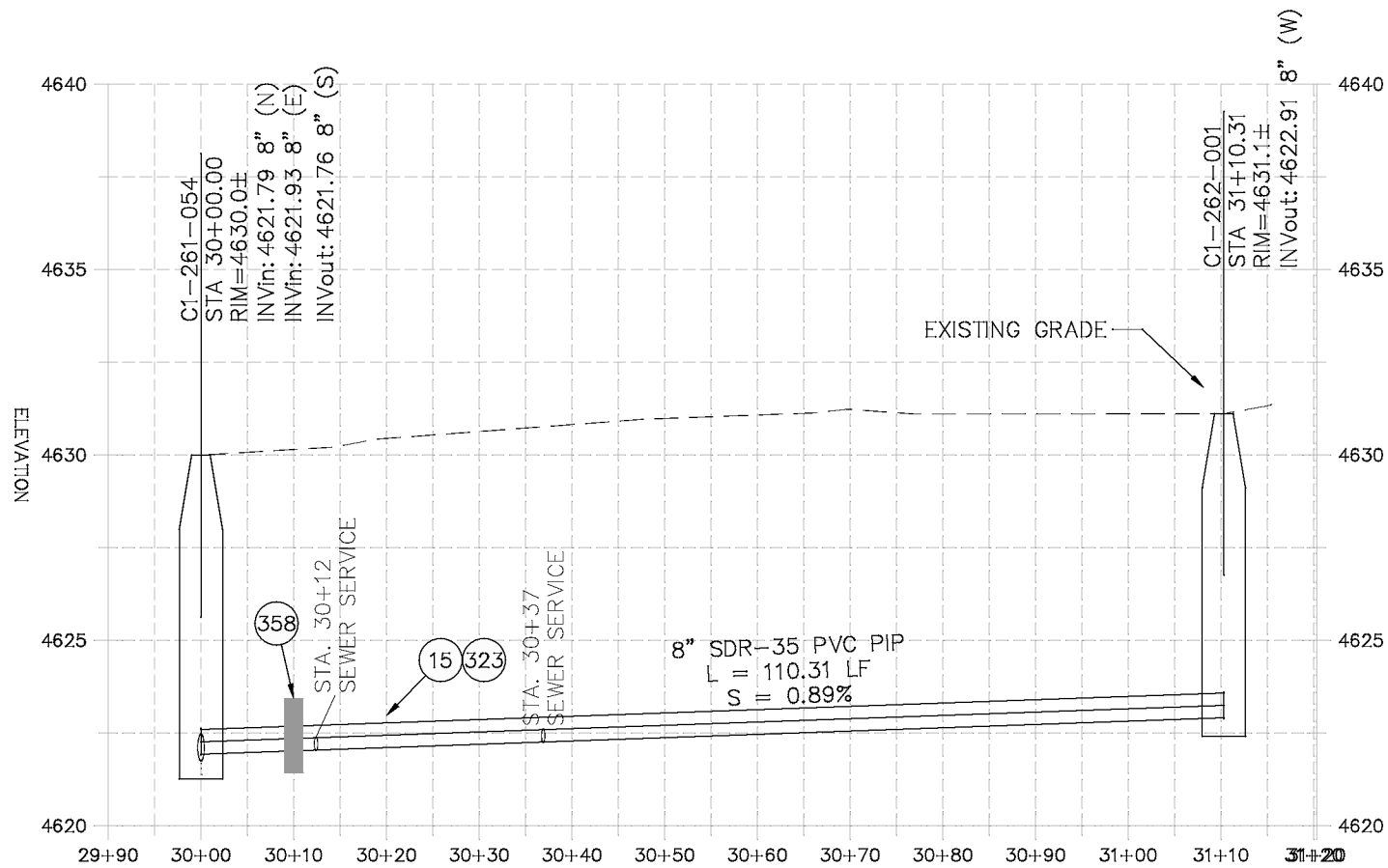
**2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST ALLEY PLAN AND PROFILE - ALT 1  
STA 26+00 TO STA 28+17**



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- CONSTRUCTION NOTES**
- 9 202 -- REMOVAL OF SOD.
  - 15 202 -- REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 -- REMOVAL OF MANHOLE
  - 33 202 -- REMOVE EXISTING SURFACE MATERIAL
  - 34 SP -- PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 102 210 -- RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 300 102.11/108.5 -- SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 -- MANHOLE BARREL SECTION (D>6") (48" I.D.).
  - 312 102.11/108.5 -- MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 323 102.9/108.2 -- 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 333 102.9/108.2 -- 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 347 102.9/108.3 -- 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 384 104.20 -- INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 388 103 -- CLAY CUT-OFF WALL. (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 663 304 -- AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 -- RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 806 PROTECT FENCE



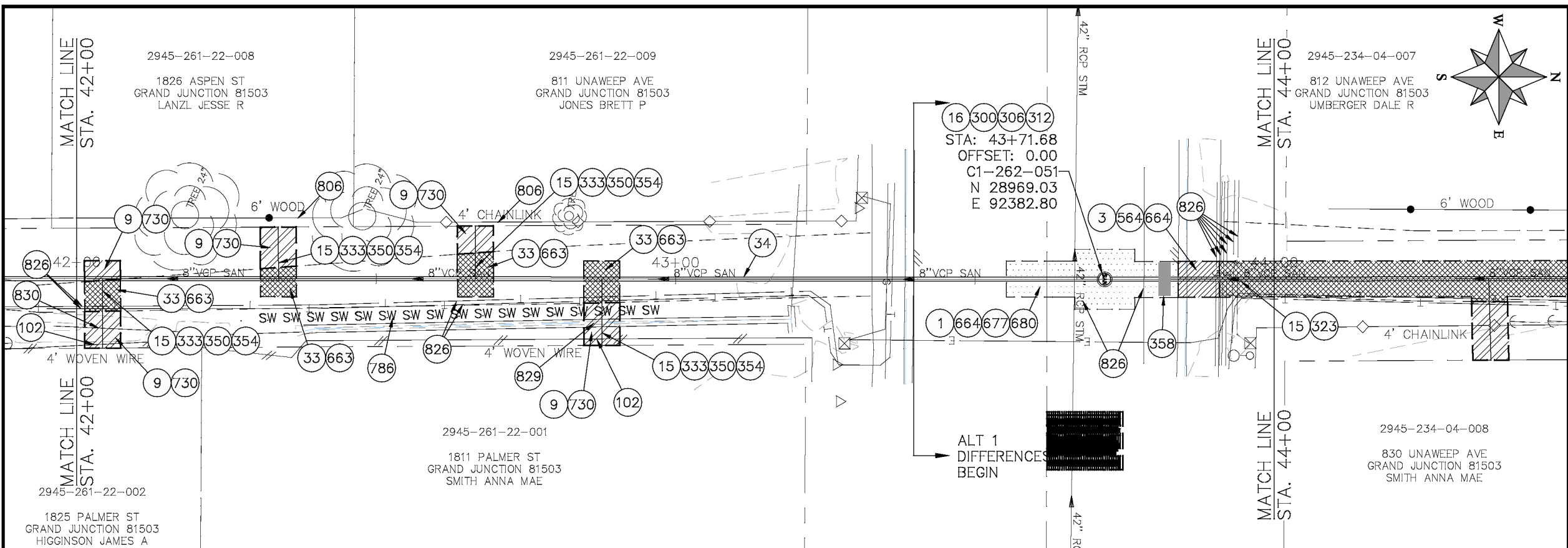
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REVISION Δ XXX	202X	4/2021	DJM
REVISION Δ XXX	202X	2021	EM
REVISION Δ XXX	202X	2021	KH

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

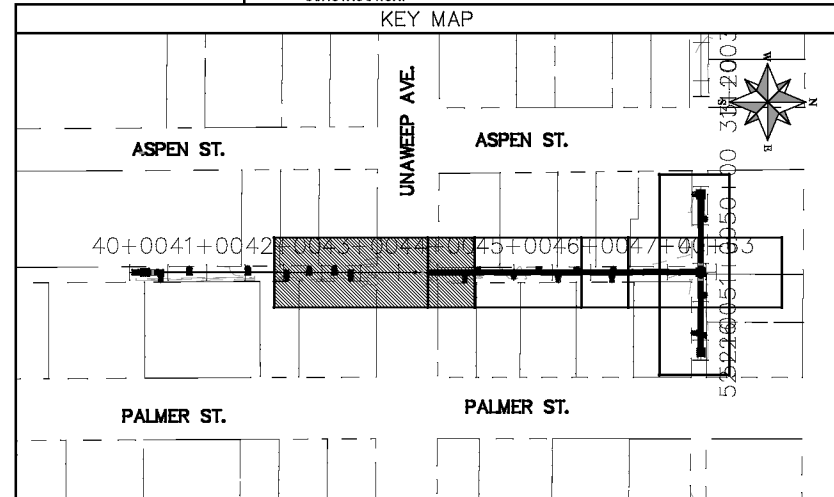
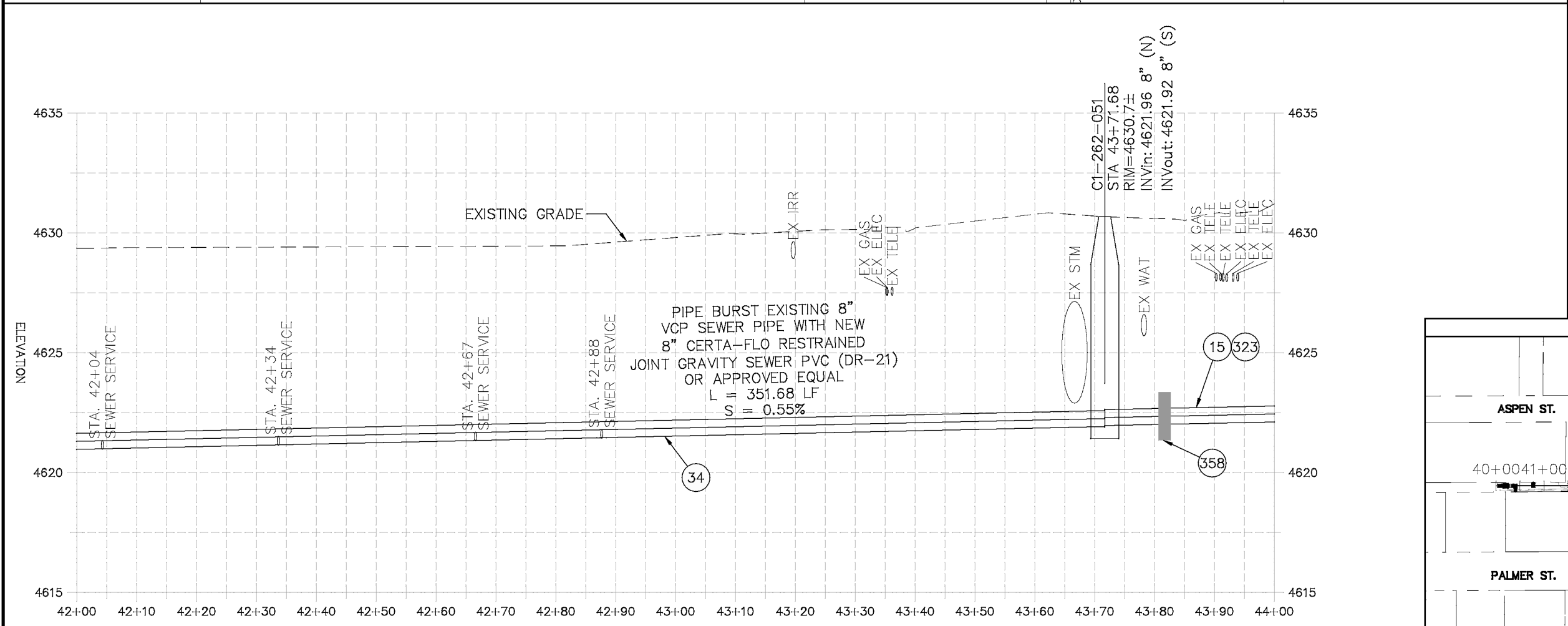


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ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST ALLEY PLAN AND PROFILE - ALT 1  
STA 30+00 TO STA 31+20**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP -- PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>8") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODEUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL. MINIMUM THICKNESS)
  - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL. BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 384 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 564 608.06 - MONOLITHIC DRIVE OVER CURB, GUTTER AND SIDEWALK (7' WIDE)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 786 EROSION CONTROL LOG
  - 806 PROTECT FENCE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
  - 829 PROTECT IRRIGATION CULVERT. COST IS INCIDENTAL TO COST OF CONSTRUCTION.



REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ XXX	202X	04/2021	DRAWN BY DJM
REVISION Δ XXX	202X	4/2021	DESIGNED BY DJM
REVISION Δ XXX	202X	2021	CHECKED BY EM
REVISION Δ XXX	202X	2021	APPROVED BY KH

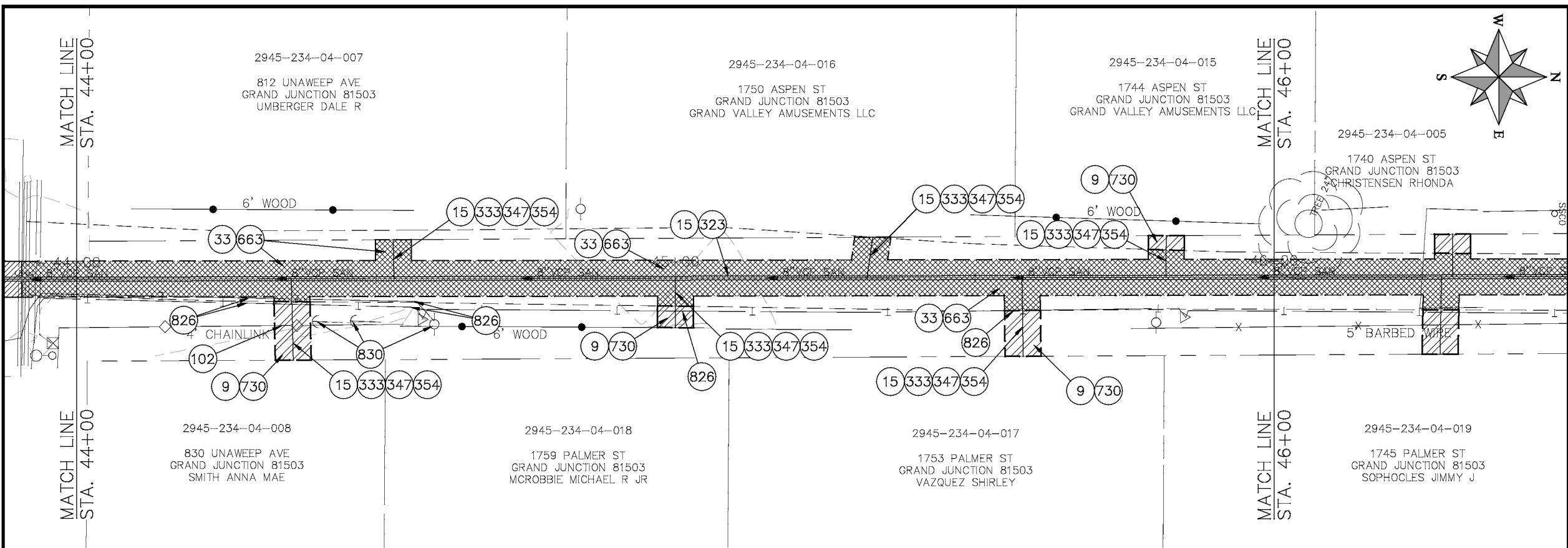
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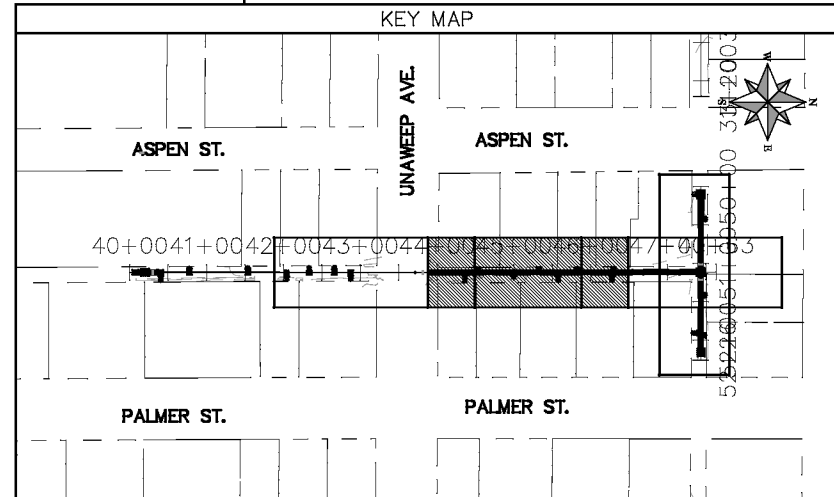
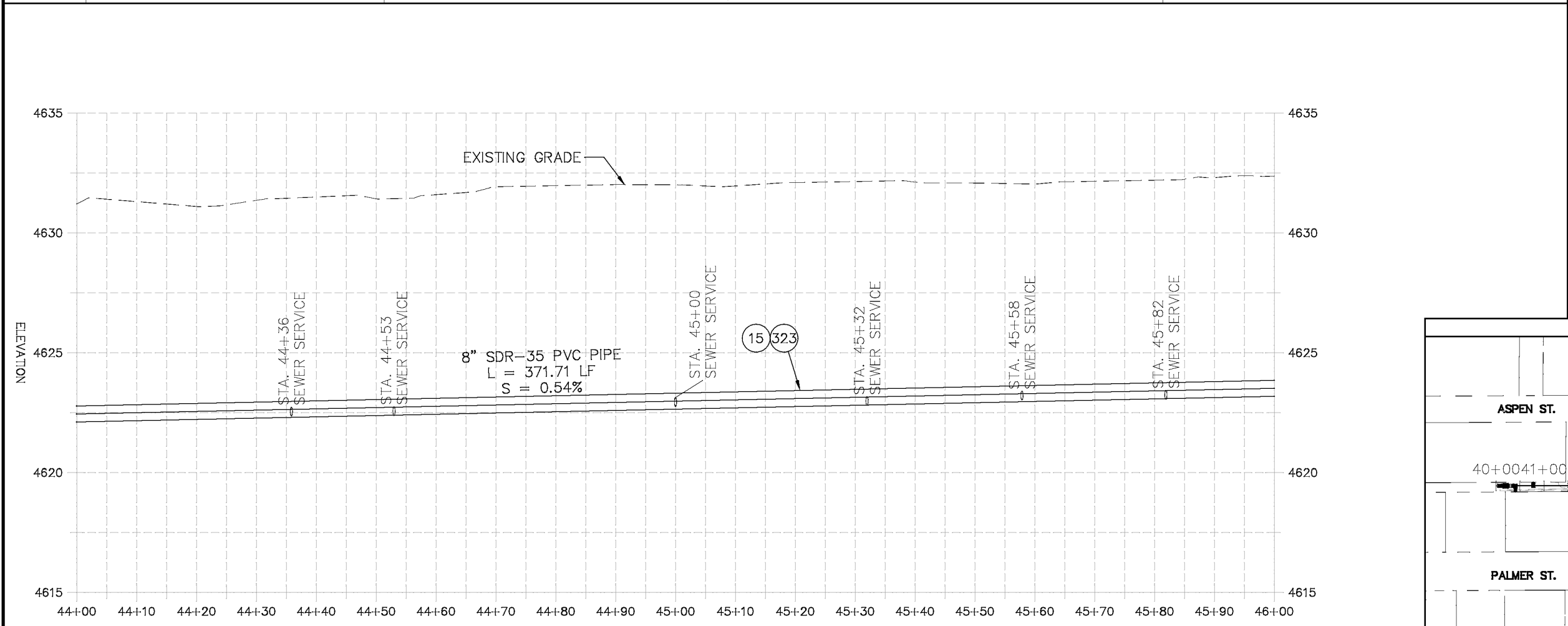
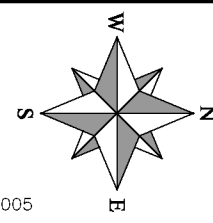
PUBLIC WORKS  
 ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
 ASPEN ST ALLEY PLAN AND PROFILE - ALT 1  
 STA 42+00 TO STA 44+00

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- CONSTRUCTION NOTES**
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
  - 830 PROTECT GUY WIRE AND POWER POLE.



REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	

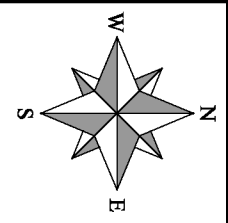
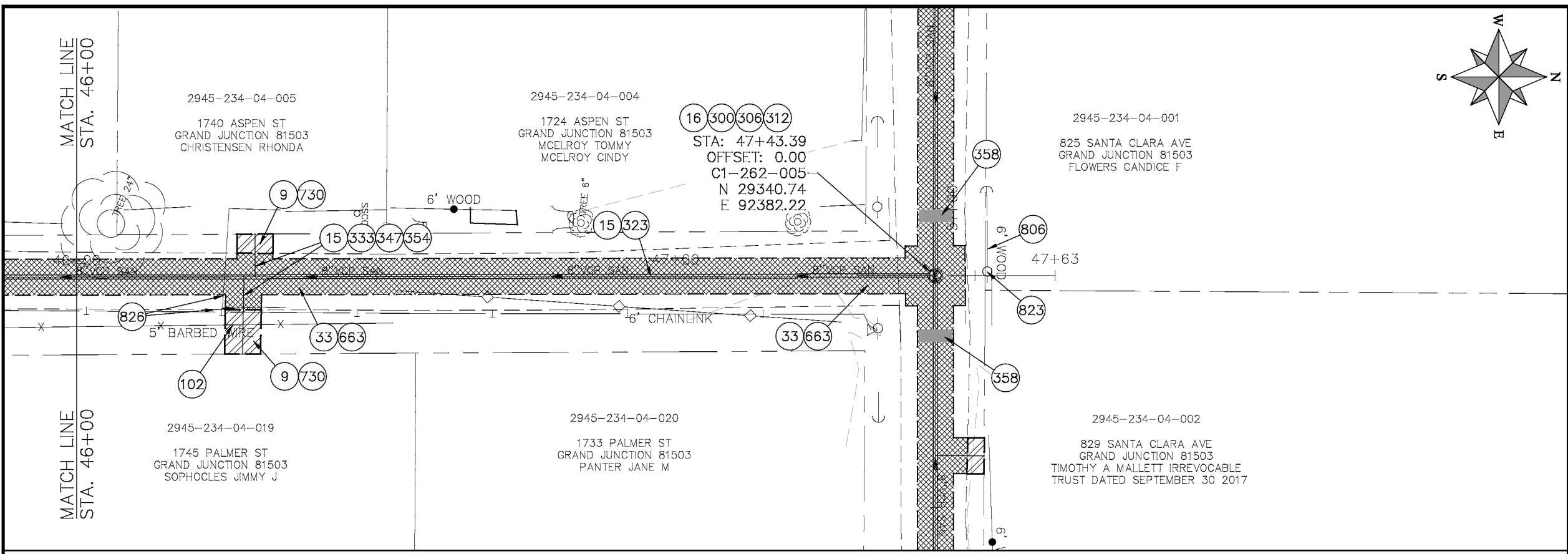
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HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'



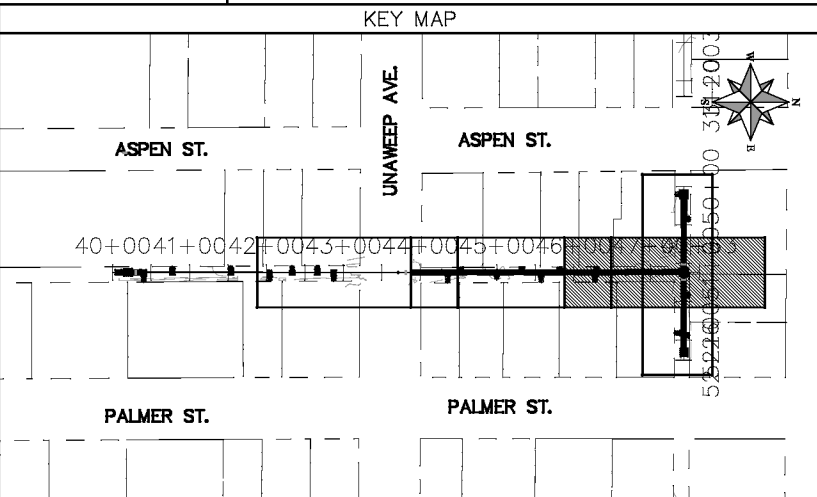
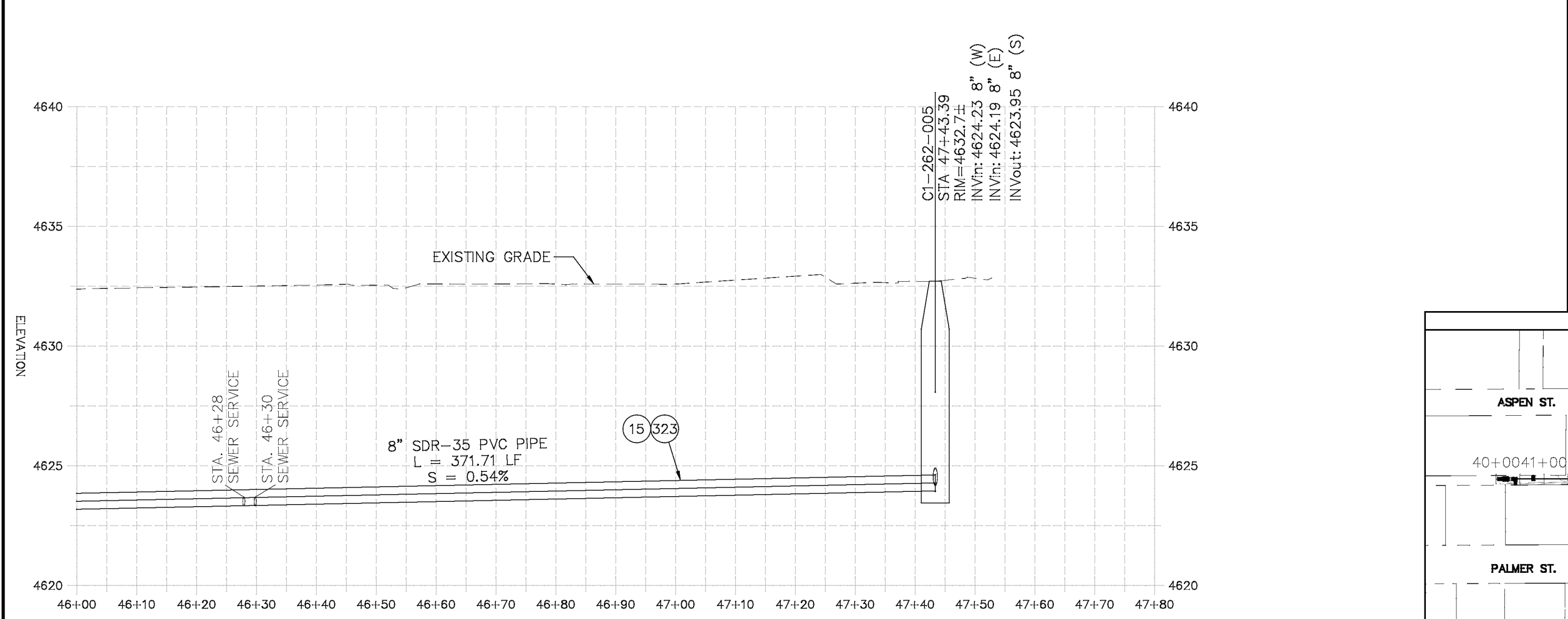
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ASPEN ST ALLEY PLAN AND PROFILE - ALT 1  
STA 44+00 TO STA 46+00**

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- CONSTRUCTION NOTES**
- 9 202 -- REMOVAL OF SOD.
  - 15 202 -- REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 -- REMOVAL OF MANHOLE
  - 33 202 -- REMOVE EXISTING SURFACE MATERIAL
  - 102 210 -- RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 300 102.11/108.5 -- SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 -- MANHOLE BARREL SECTION (D>6") (48" I.D.).
  - 312 102.11/108.5 -- MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 323 102.9/108.2 -- 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 333 102.9/108.2 -- 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL. BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 347 102.9/108.3 -- 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 -- INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
  - 358 103 -- CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 663 304 -- AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 -- RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 806 PROTECT FENCE
  - 823 PROTECT UTILITY POLE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE



REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	

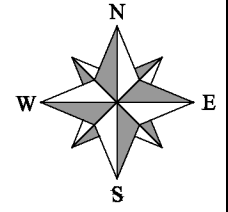
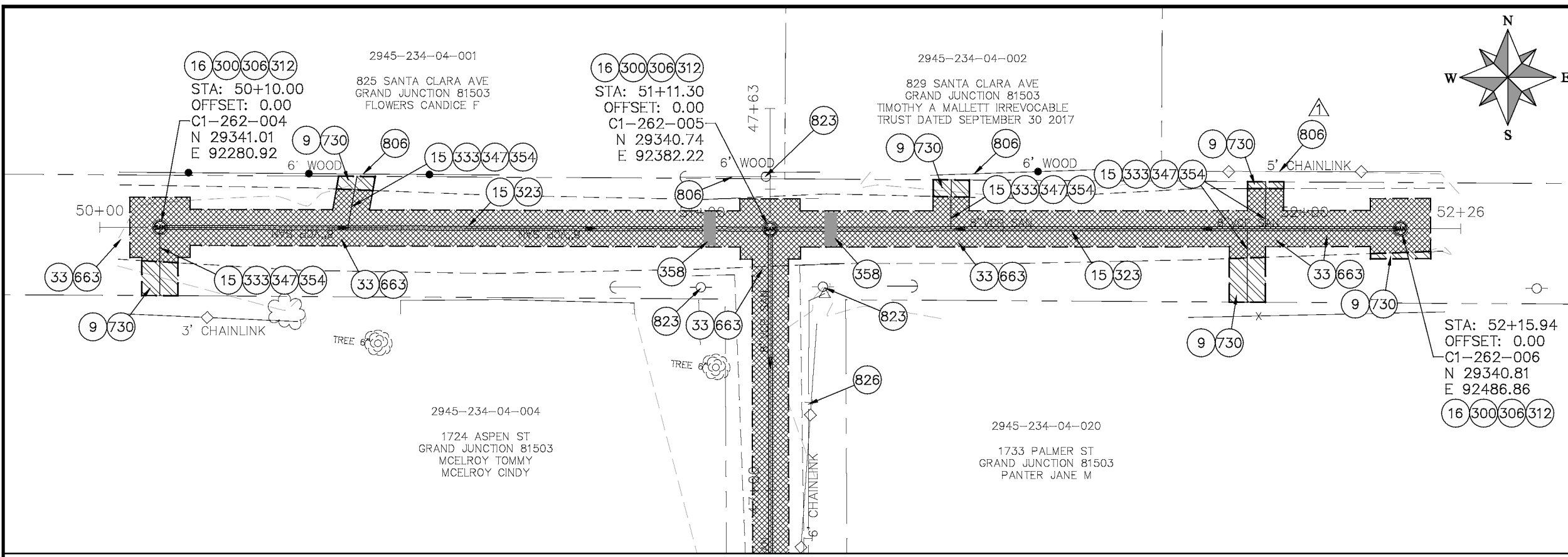
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HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'



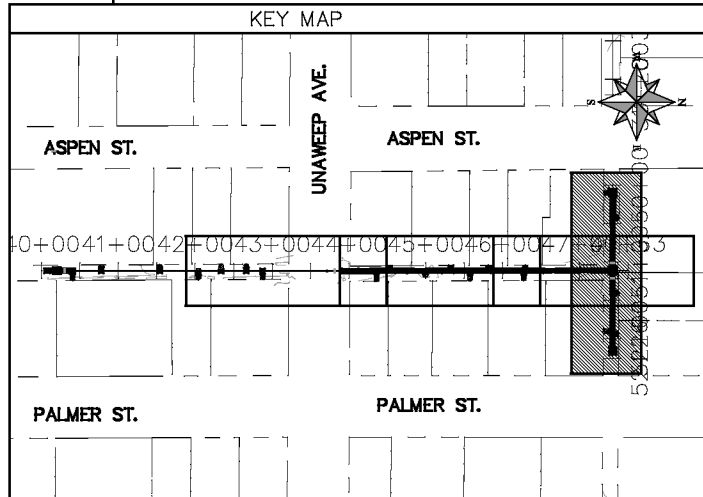
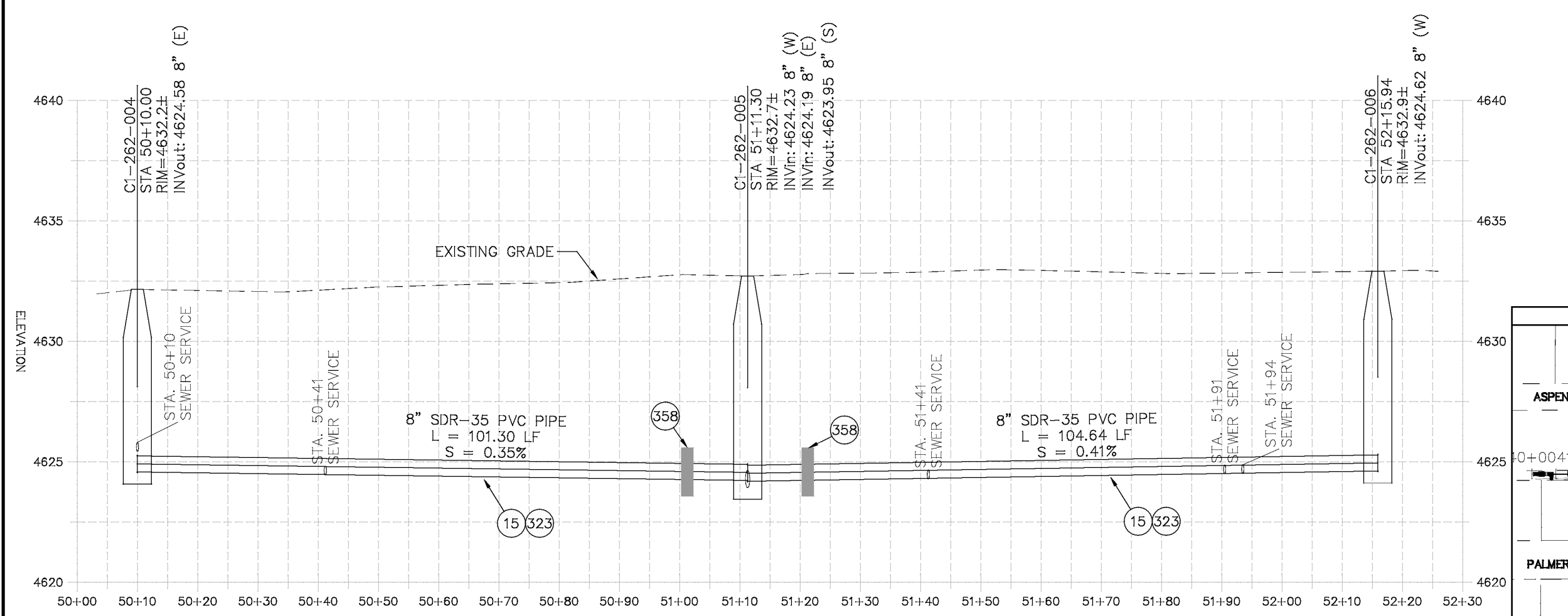
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ASPEN ST ALLEY PLAN AND PROFILE - ALT 1  
STA 46+00 TO STA 47+63**

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- CONSTRUCTION NOTES**
- 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE.
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>8") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL. MINIMUM THICKNESS)
  - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 547 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 806 PROTECT FENCE
  - 823 PROTECT UTILITY POLE



REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	

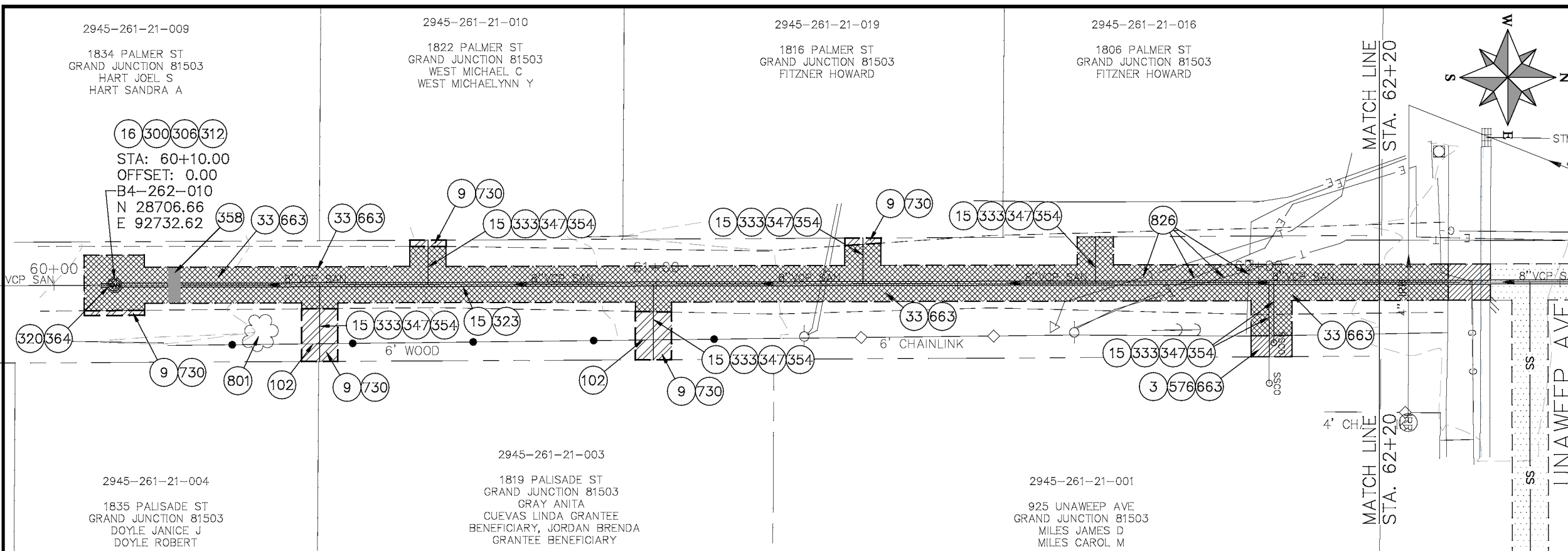
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VERTICAL: 1" = 5'



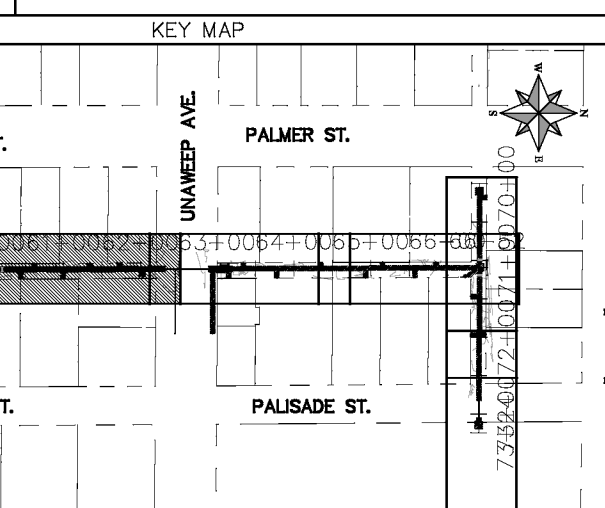
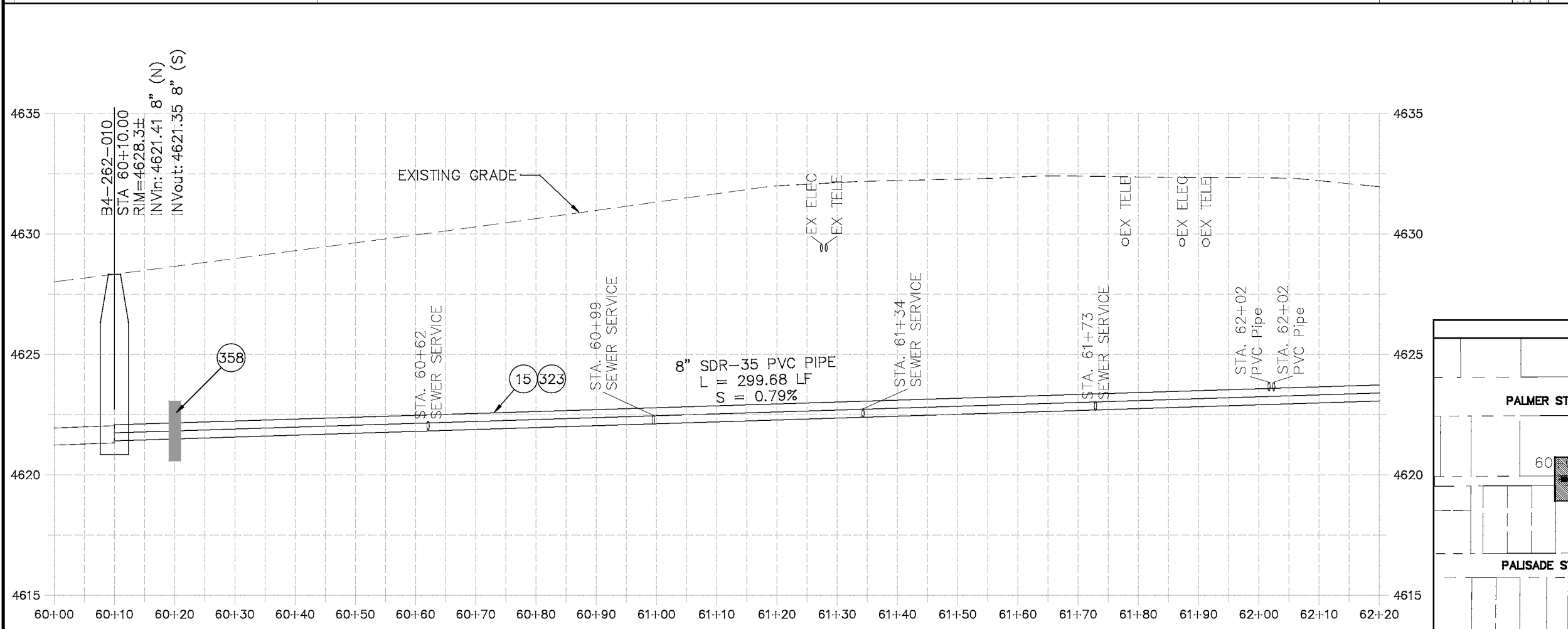
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ASPEN ST ALLEY PLAN AND PROFILE - ALT 1  
STA 50+00 TO STA 52+30**

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- ### CONSTRUCTION NOTES
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 308 102.11/108.5 - MANHOLE BARREL SECTION (D>8") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL. IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 576 608.06 - CONCRETE DRIVEWAY SECTION (6" THICK) (RESIDENTIAL)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 801 PROTECT TREE.
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ XXX		202X	
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DRAWN BY	DATE	DESIGNED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
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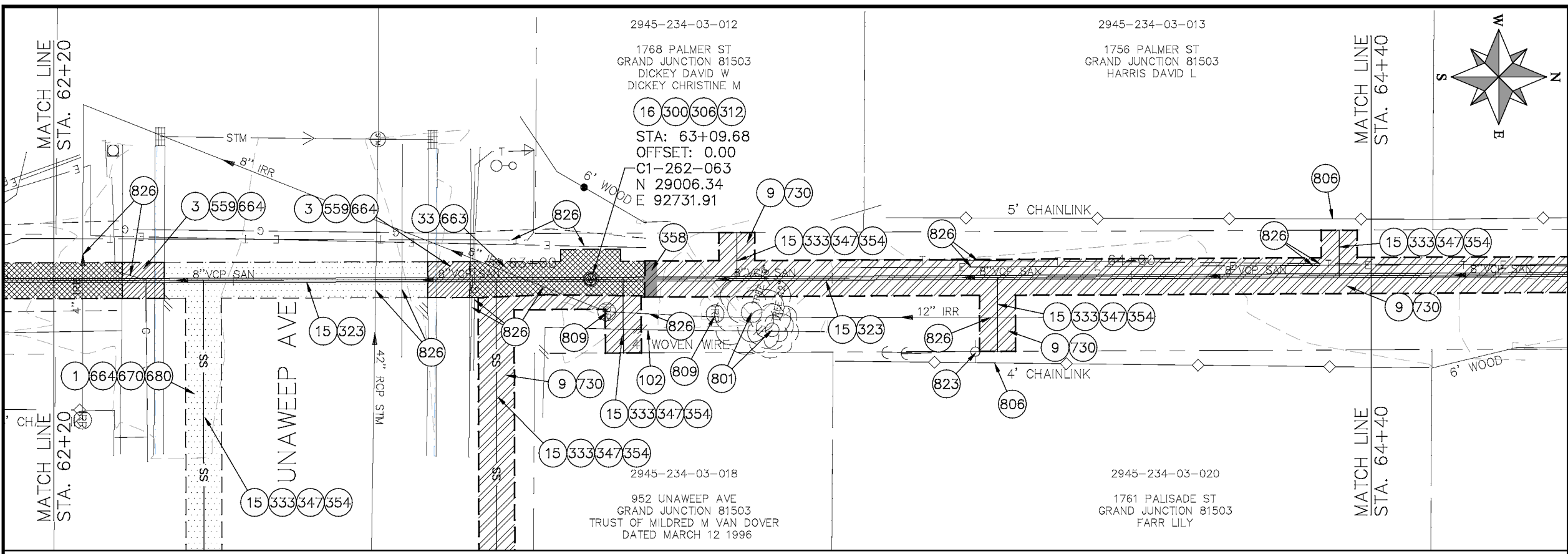
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 HORIZONTAL: 1" = 20'  
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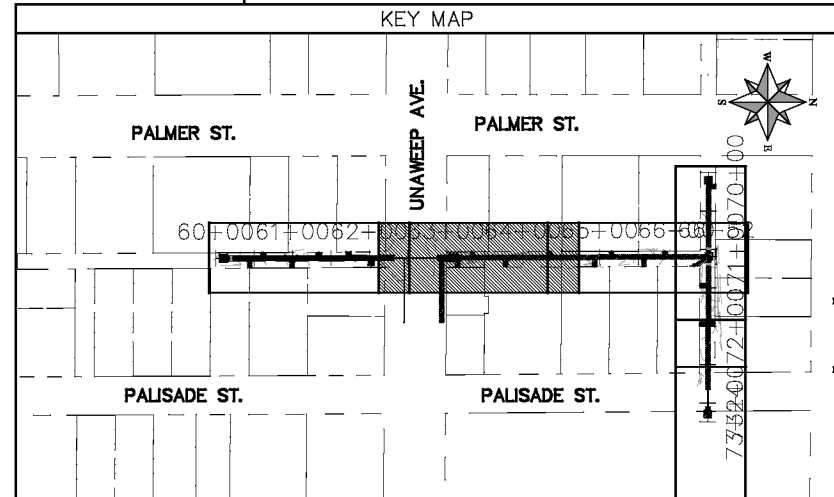
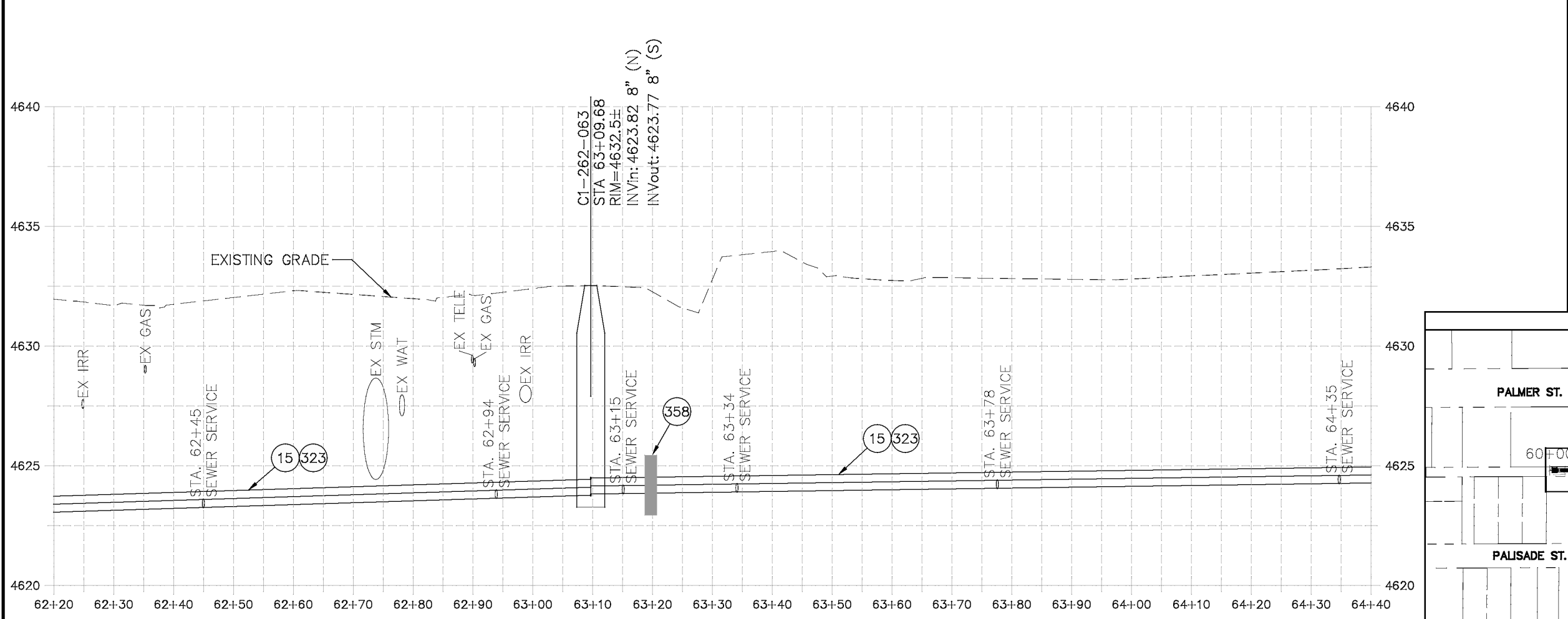
PUBLIC WORKS  
 ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
 PALMER ST ALLEY PLAN AND PROFILE - ALT 1  
 STA 60+00 TO STA 62+20

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- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>6") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 559 608.06 - MONOLITHIC VERTICAL CURB, GUTTER AND SIDEWALK (7" WIDE)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 801 PROTECT TREE
  - 806 PROTECT FENCE
  - 809 PROTECT MANHOLE
  - 823 PROTECT UTILITY POLE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	

DATE	BY	DATE	DATE
04/2021	DJM	DATE	04/2021
4/2021	DJM	DATE	4/2021
2021	EM	DATE	2021
2021	KH	DATE	2021

SCALES: PLAN & PROFILE

HORIZONTAL: 1" = 20'

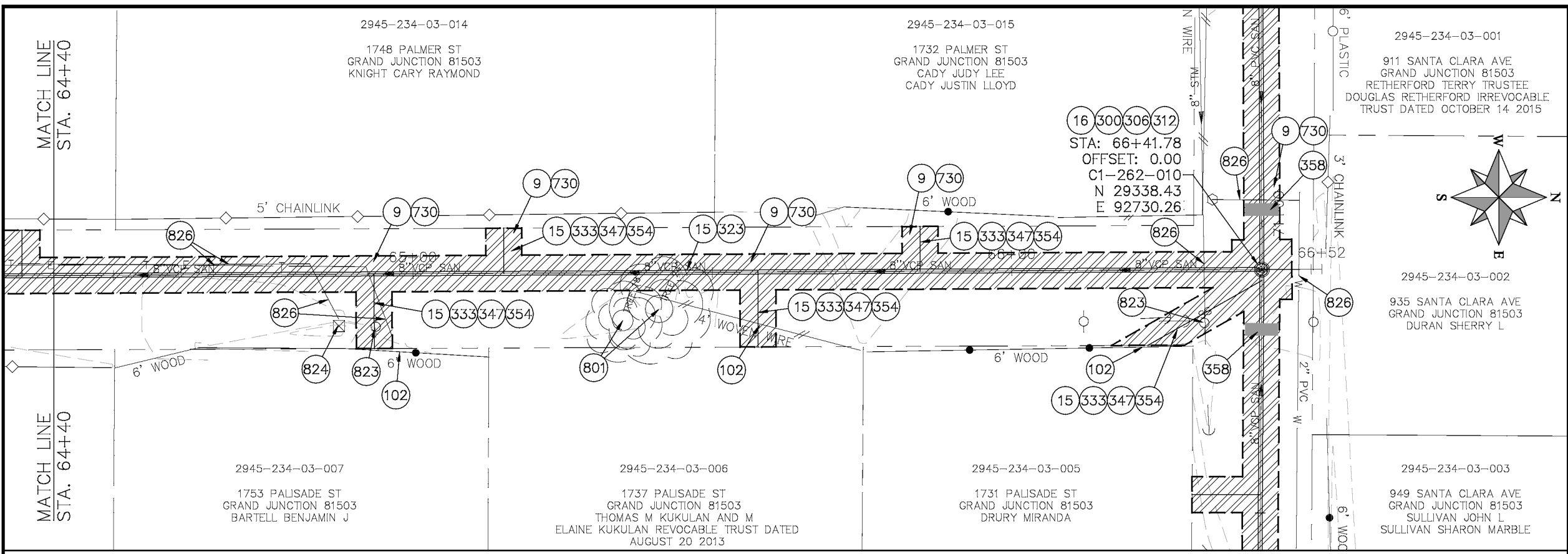
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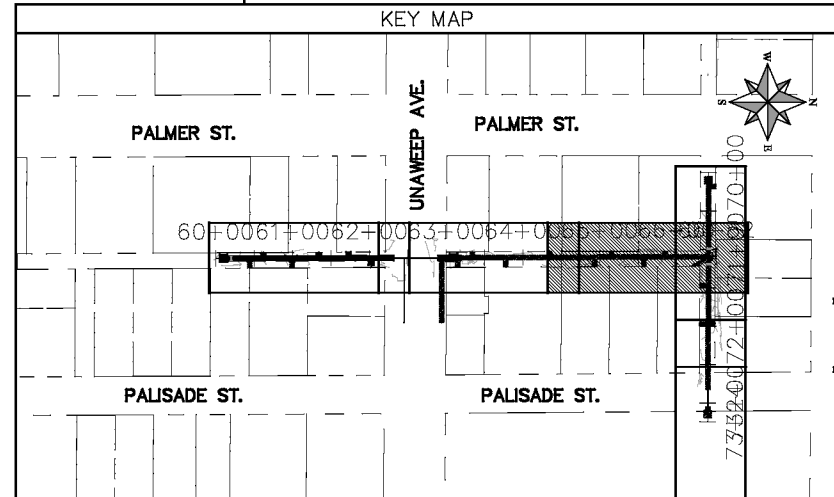
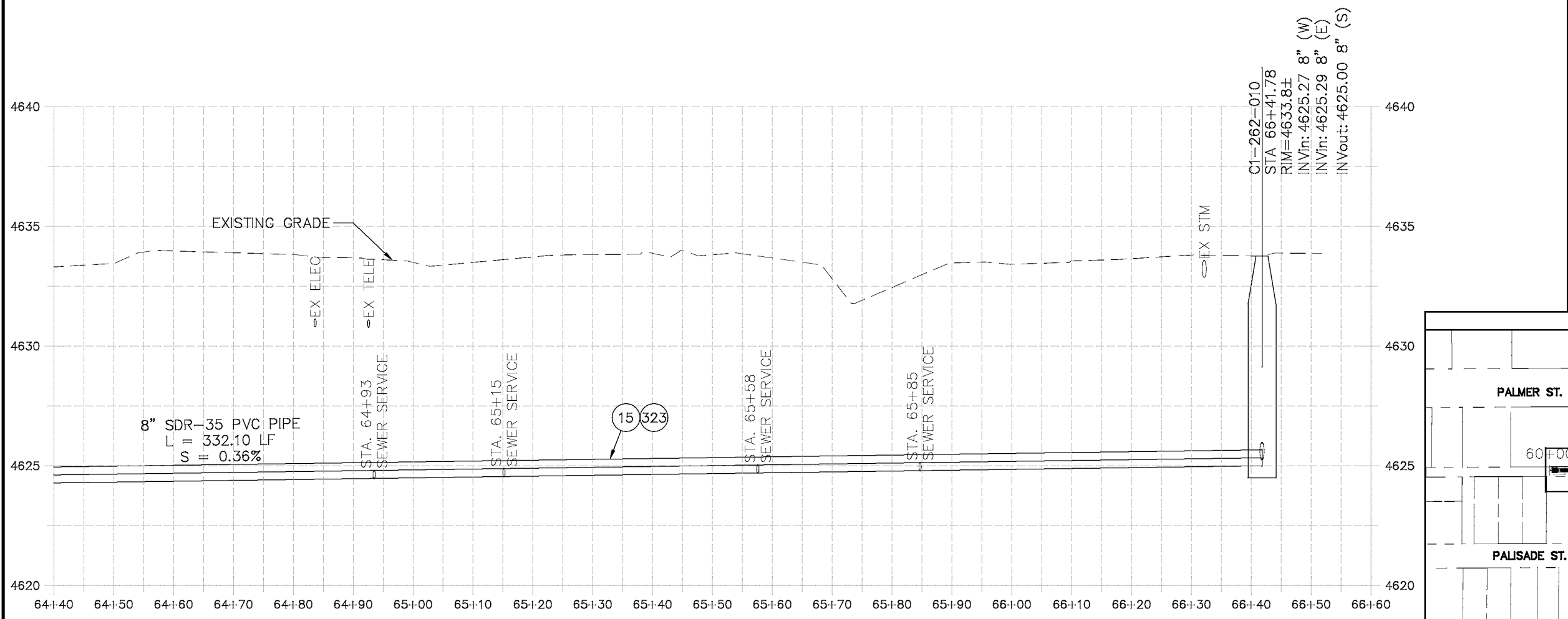
PUBLIC WORKS  
ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST ALLEY PLAN AND PROFILE - ALT 1  
STA 62+20 TO STA 64+40

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- ### CONSTRUCTION NOTES
- 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>8") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL. BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL. PLACEMENT PRIOR TO SOD PLACEMENT)
  - 801 PROTECT TREE
  - 823 PROTECT UTILITY POLE
  - 824 PROTECT UTILITY PEDESTAL
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	

DATE	PROJECT NO.	SCALE: PLAN & PROFILE
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4/2021		VERTICAL: 1" = 5'
2021		
2021		

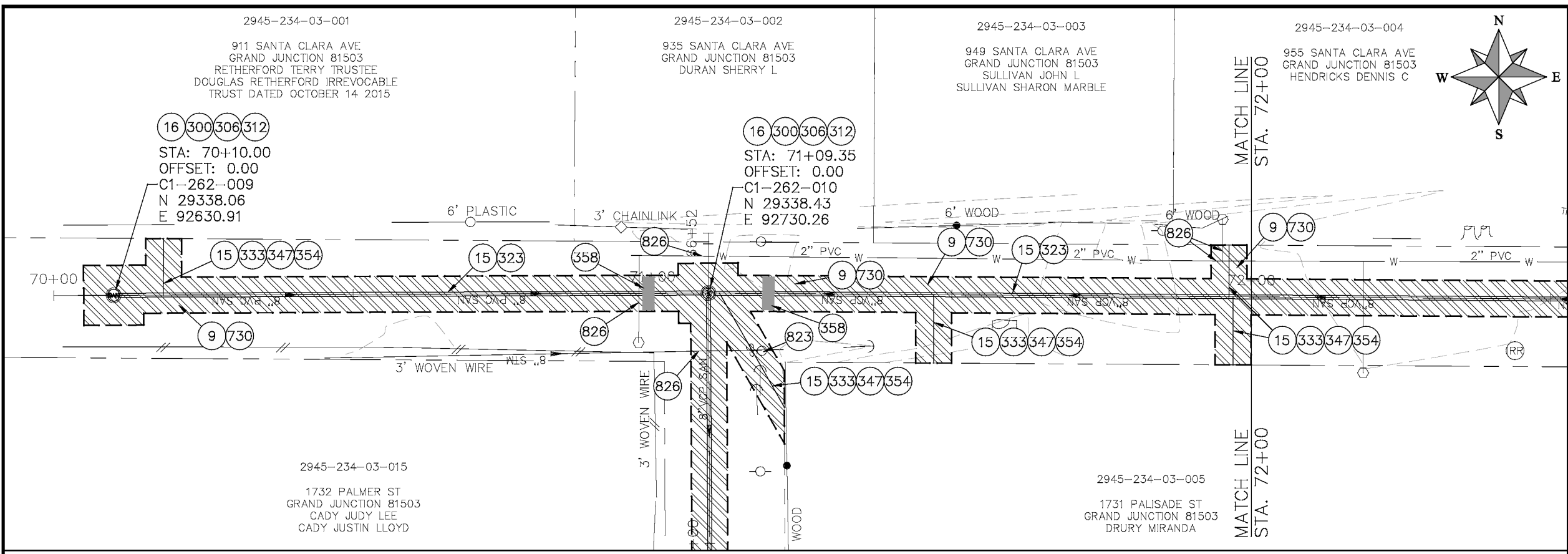
CITY OF  
**Grand Junction**  
COLORADO

**PUBLIC WORKS**  
ENGINEERING DIVISION

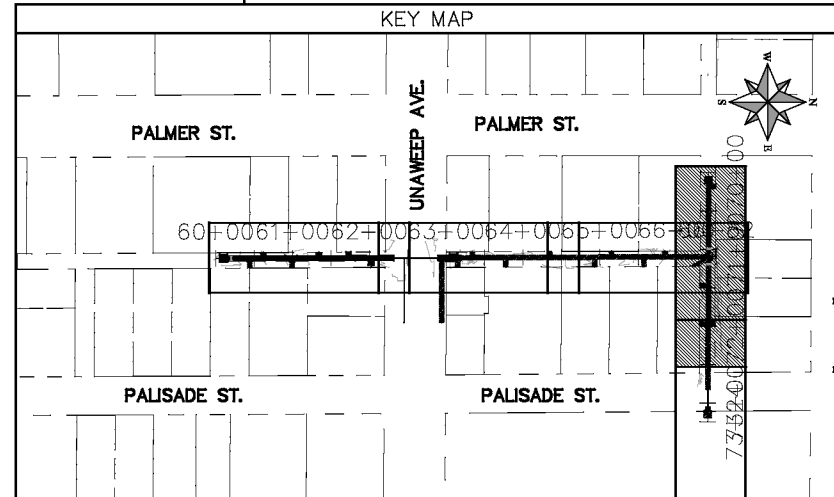
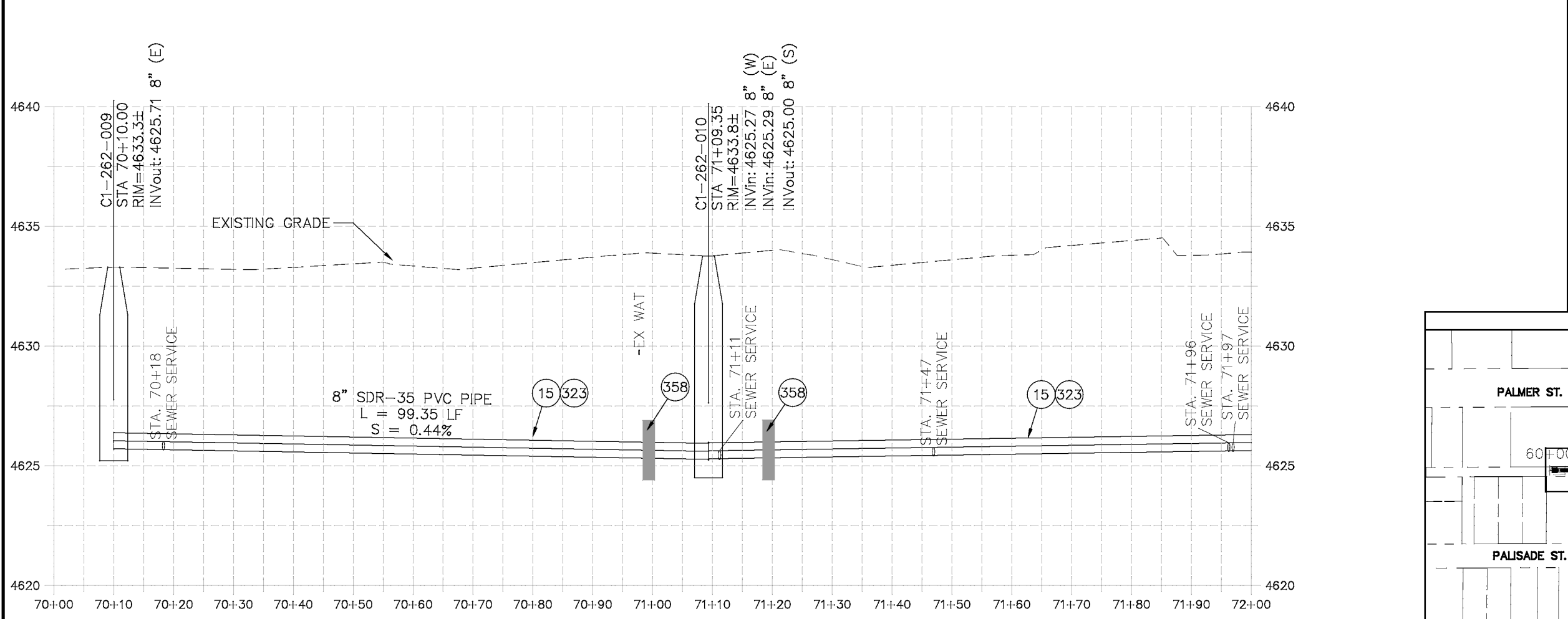
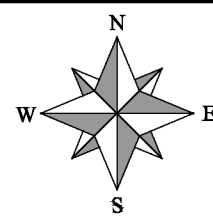
**2021 SEWER LINE REPLACEMENT - PHASE A**  
PALMER ST ALLEY PLAN AND PROFILE - ALT 1  
STA 64+40 TO STA 66+52

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- CONSTRUCTION NOTES**
- 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 500 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 506 102.11/108.5 - MANHOLE BARREL SECTION (D>6") (48" I.D.).
  - 512 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL. MINIMUM THICKNESS)
  - 523 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 533 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 547 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 554 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 558 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 823 PROTECT UTILITY POLE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	

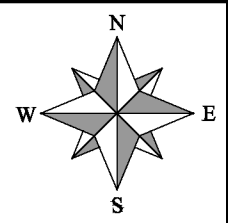
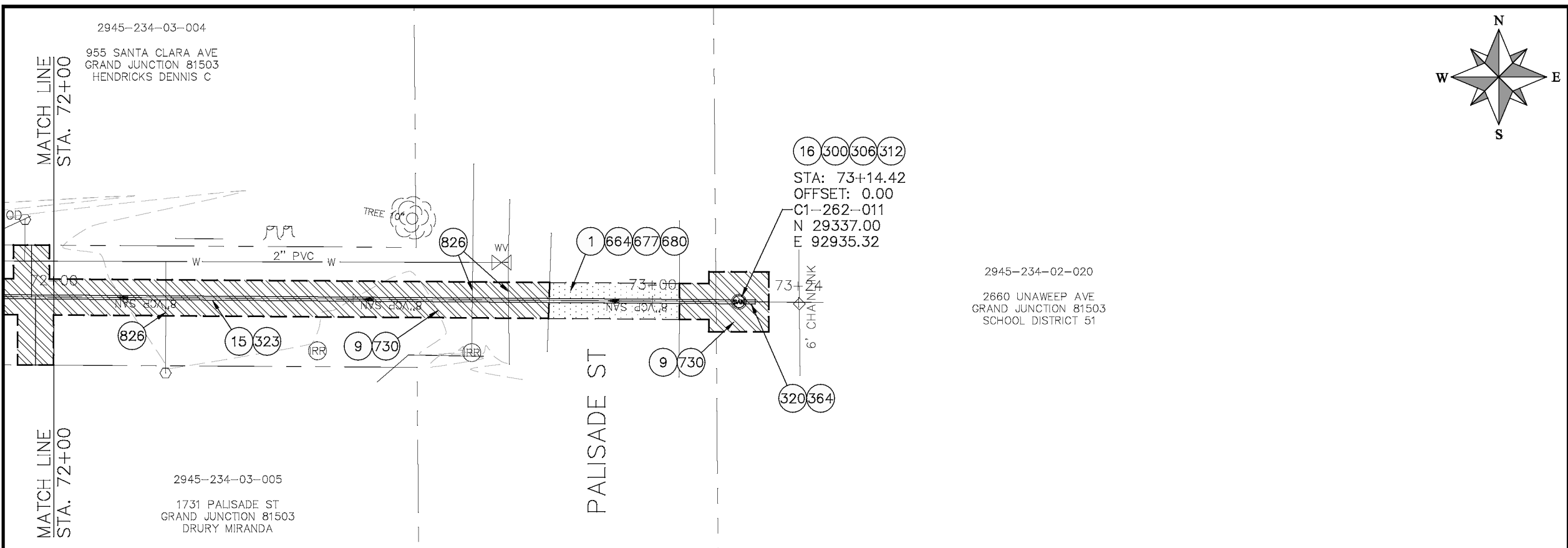
DATE	DRAWN BY	DATE	DESIGNED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
04/2021	DJM	04/2021	DJM	4/2021	EM	2021	KH	2021

**CITY OF Grand Junction COLORADO**

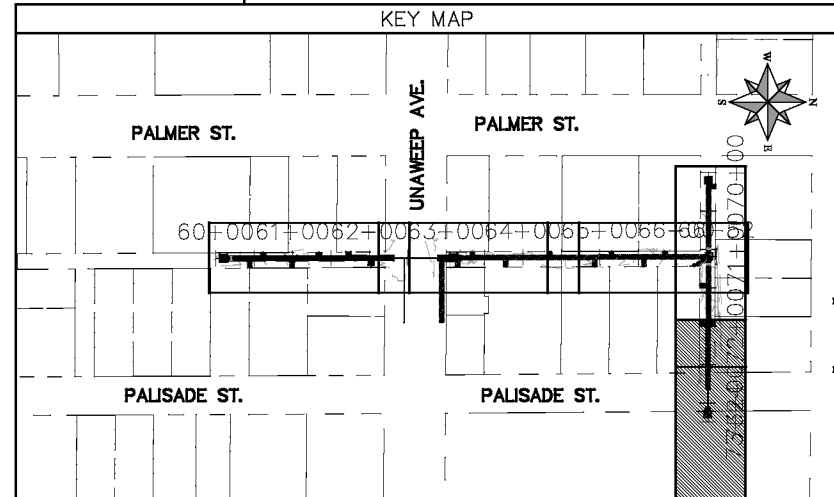
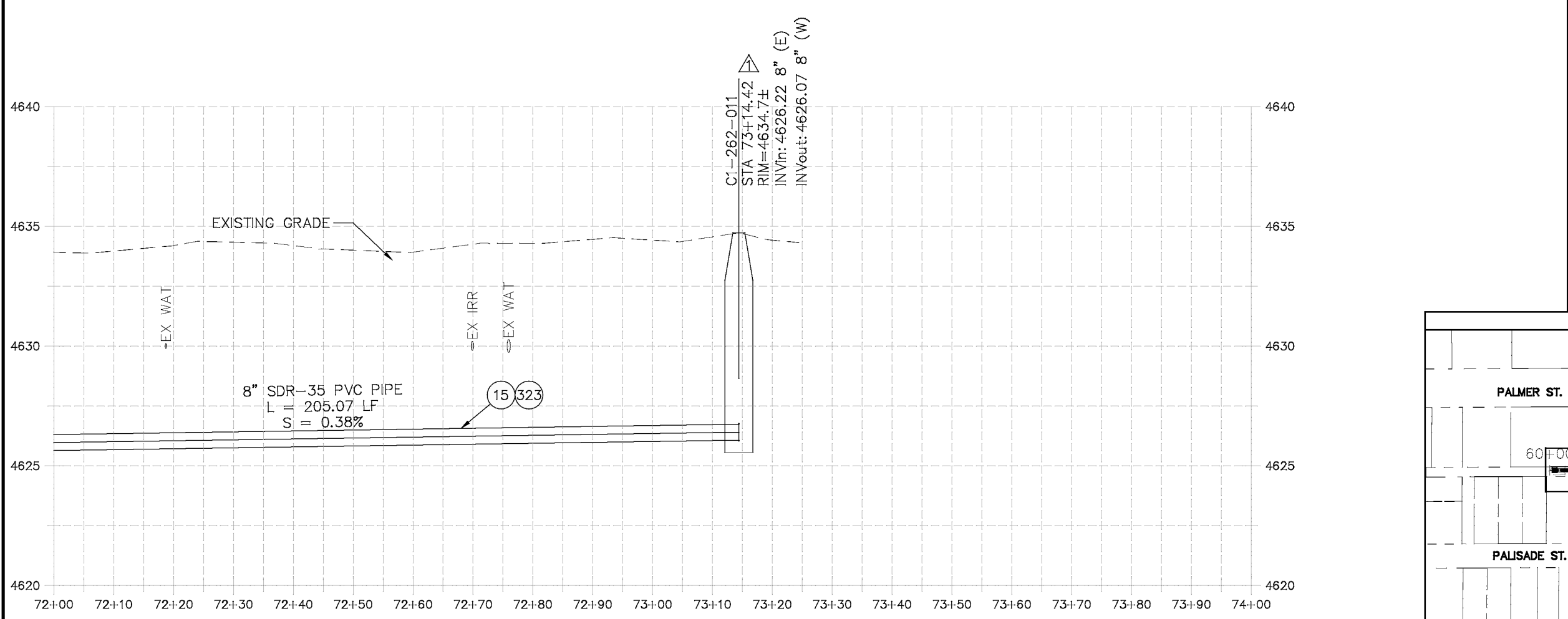
**PUBLIC WORKS ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST ALLEY PLAN AND PROFILE - ALT 1  
STA 70+00 TO 72+00**

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- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 500 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 506 102.11/108.5 - MANHOLE BARREL SECTION (D>6") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL. MINIMUM THICKNESS)
  - 520 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 523 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 547 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	

DATE	BY	DATE
04/2021	DJM	
4/2021	DJM	
2021	EM	
2021	KH	

SCALES: PLAN & PROFILE

HORIZONTAL: 1" = 20'

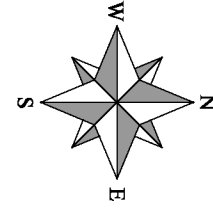
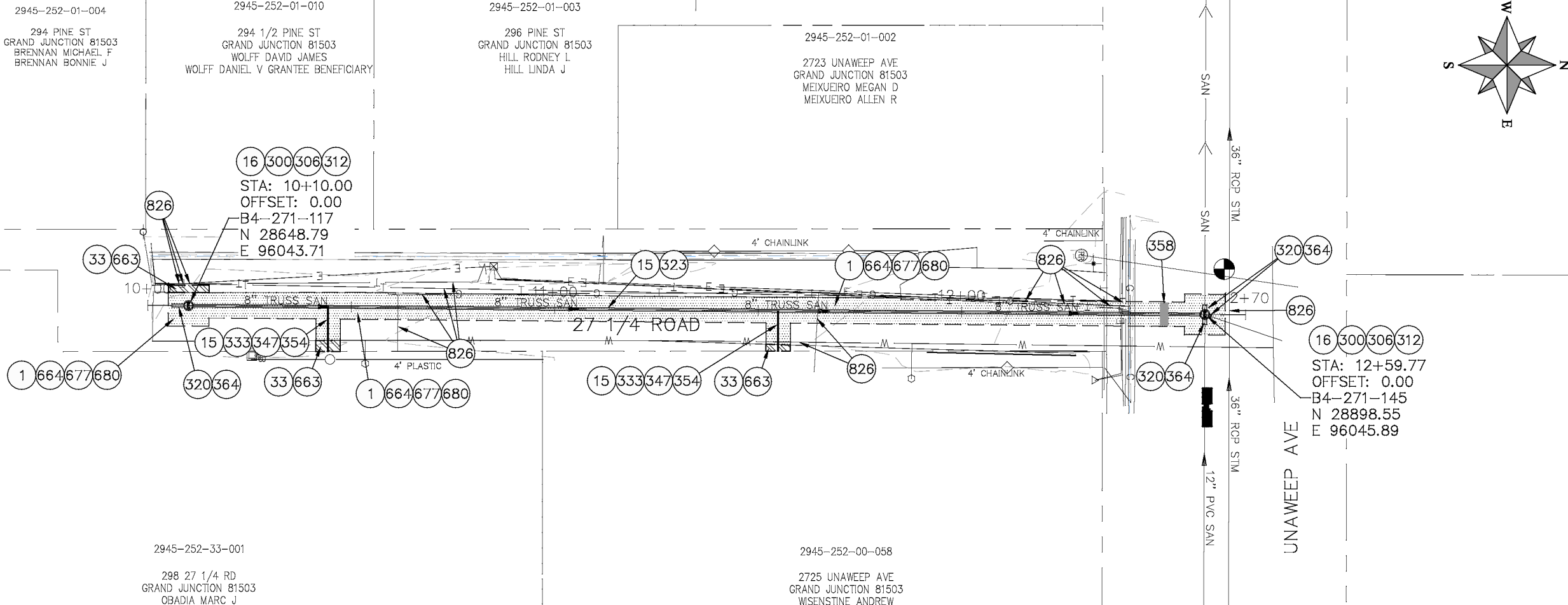
VERTICAL: 1" = 5'

**CITY OF Grand Junction COLORADO**

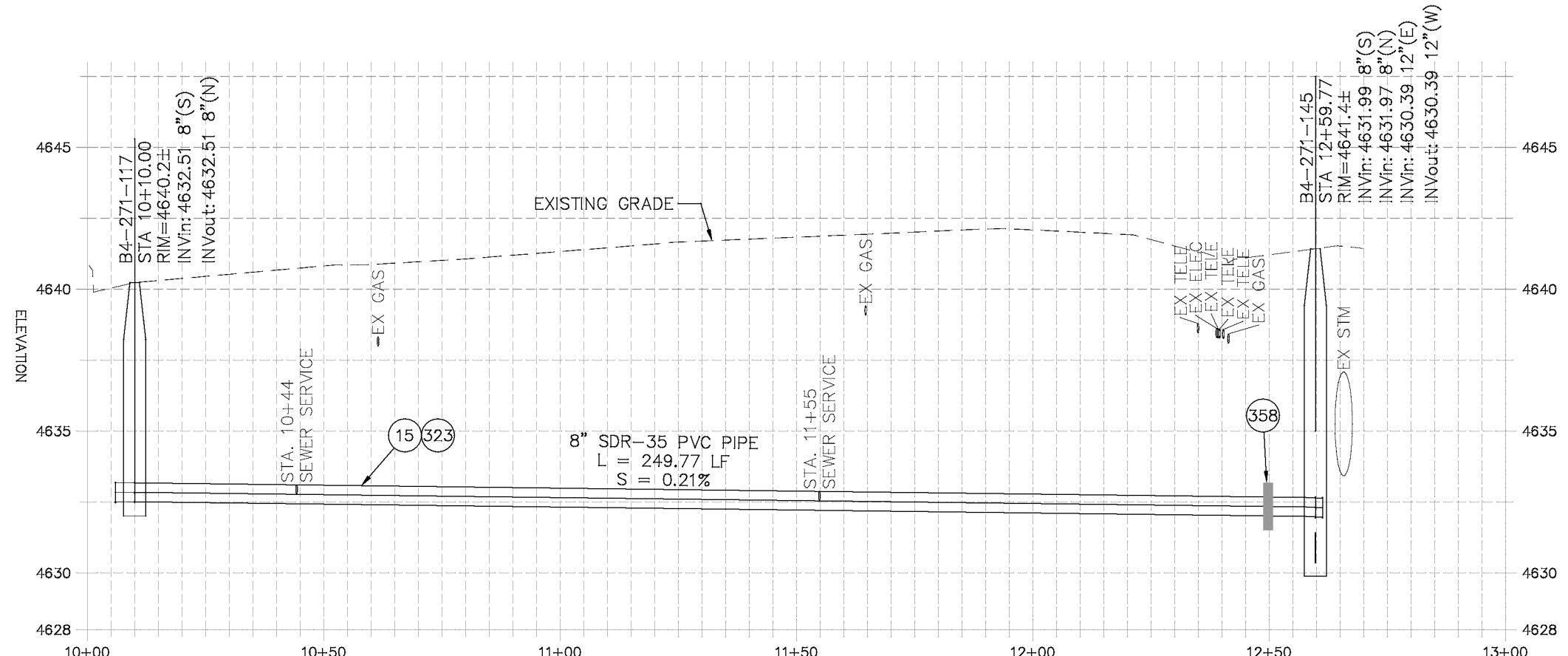
**PUBLIC WORKS ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A**  
**PALMER ST ALLEY PLAN AND PROFILE - ALT 1**  
**STA 72+00 TO STA 73+24**

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- CONSTRUCTION NOTES**
- 1 202 -- REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 15 202 -- REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 -- REMOVAL OF MANHOLE
  - 33 202 -- REMOVE EXISTING SURFACE MATERIAL
  - 300 102.11/108.5 -- SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 -- MANHOLE BARREL SECTION (D>6") (48" I.D.).
  - 312 102.11/108.5 -- MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 -- CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 323 102.9/108.2 -- 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 333 102.9/108.2 -- 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 347 102.9/108.3 -- 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 -- INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 -- CLAY CUT-OFF WALL. (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 663 304 -- AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 664 304 -- AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 -- HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 -- HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DATE	DESCRIPTION
REVISION $\Delta$ XXX	06/2021	PROJECT NO. -----
REVISION $\Delta$ XXX	202X	DRAWN BY DJM DATE 04/2021
REVISION $\Delta$ XXX	202X	DESIGNED BY DJM DATE 4/2021
REVISION $\Delta$ XXX	202X	CHECKED BY EM DATE 2021
REVISION $\Delta$ XXX	202X	APPROVED BY KH DATE 2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 30'	0 7.5 15 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
27 1/4 ROAD PLAN AND PROFILE - ALT 1  
STA 10+00 TO STA 12+00**

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#### 4. Contractor's Bid Form

Bid Date: 7-16-21

Project: IFB-4922-21-DH "2021 Phase A Sewer Replacements – Unawep Avenue"

Bidding Company: M.A. Concrete Construction, Inc

Name of Authorized Agent: Andy Azcarraga

Email andy.maconcrete@gmail.com

Telephone 243-3221 Address 2323 River Road

City Grand Junction State CO Zip 81501

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

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

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

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

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

- Prices in this bid proposal have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.
- No attempt has been made nor will be to induce any other person or firm to submit a bid proposal for the purpose of restricting competition.
- The individual signing this bid proposal certifies they are a legal agent of the offeror, authorized to represent the offeror and is legally responsible for the offer with regard to supporting documentation and prices provided.
- Direct purchases by the City of Grand Junction are tax exempt from Colorado Sales or Use Tax. Tax exempt No. 98-03544. The undersigned certifies that no Federal, State, County or Municipal tax will be added to the above quoted prices.
- City of Grand Junction payment terms shall be Net 30 days.
- Prompt payment discount of N/A percent of the net dollar will be offered to the Owner if the invoice is paid within N/A days after the receipt of the invoice. The Owner reserves the right to take into account any such discounts when determining the bid award that are no less than Net 10 days.

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.

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: Andy Azcarraga

Title: Vice President

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave - Addendum #3 - Bid Alternate #1**

**CONTRACTOR:** M.A. Concrete Construction, Inc.

Item No.	Ref.	Description	Quantity	Units	Unit Price	Total Price
1	104.2	2-Way Sanitary Sewer Service Cleanout (Includes Cleanout Ring and Cover and Concrete Collar in unpaved areas) (See Std Detail SS-07)	74	EA	\$ <u>325.00</u>	\$ <u>24,050.00</u>
2	104.4	Encase Sanitary Sewer Pipe in Concrete per City Specification GU-04 (20' long) (if necessary)	2	EA	\$ <u>3700.00</u>	\$ <u>7,400.00</u>
3	108.2	4" Sewer Service Pipe (SDR-35 PVC) (Includes Type A Bedding and Haunching Material, Backfill of Trench with Native Materials meeting 103.16 Earth Backfill material and End-of-Service Cap)	1,009	LF	\$ <u>50.00</u>	\$ <u>50,450.00</u>
4	108.2	6" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	41.6	LF	\$ <u>100.00</u>	\$ <u>4160.00</u>
5A	108.2	8" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	2,532	LF	\$ <u>80.00</u>	\$ <u>202,560.00</u>
6	108.2	10" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	385	LF	\$ <u>101.00</u>	\$ <u>38,885.00</u>
7	108.2	12" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	30	LF	\$ <u>180.00</u>	\$ <u>5,400.00</u>

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave - Addendum #3 - Bid Alternate #1**

**CONTRACTOR:** M.A. Concrete Construction, Inc.

Item No.	Ref.	Description	Quantity	Units	Unit Price	Total Price
8	108.2	15" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	355	LF	\$ <u>100.00</u>	\$ <u>35,500.00</u>
9	108.2	18" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	10	LF	\$ <u>400.00</u>	\$ <u>4,000.00</u>
10	108.2	24" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	440	LF	\$ <u>175.00</u>	\$ <u>77,000.00</u>
11A	108.2	8" Gravity Sewer Pipe (Certa-Flo Pipe)(Certa-Flo PVC Gravity Sewer Pipe)(SDR-21) (ASTM D-2241) (20-ft Joints)(Joint Type: Certa-Lok Restrained Joint Integral Bell) (Includes all necessary Pipe-Bursting Installation Equipment) ( Pipe Bursting)	669	LF	\$ <u>75.00</u>	\$ <u>50,175.00</u>
12A	108.3	8" x 4" Sewer Service Tap, Tapping Saddle (To be used on the Certa-Flo PVC pipe) (Includes saddle, bedding material, clean-out and all fitting required to align and connect the sewer service pipe to the sewer tap) (Contractor must properly support the tapping saddle with crushed pipe bedding material to avoid saddle rotation during backfilling and compaction)	11	EA	\$ <u>1500.00</u>	\$ <u>16,500.00</u>
13	108.3	8" x 6" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	2	EA	\$ <u>750.00</u>	\$ <u>1,500.00</u>
14	108.3	10" x 4" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	4	EA	\$ <u>575.00</u>	\$ <u>2,300.00</u>

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave - Addendum #3 - Bid Alternate #1**

**CONTRACTOR:** M.A. Concrete Construction, Inc.

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
15	108.3	15" x 4" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	2	EA	\$ <u>1130.00</u>	\$ <u>2260.00</u>
16	108.3	24" x 4" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	3	EA	\$ <u>4225.00</u>	\$ <u>12,675.00</u>
17	108.3	24"x18" PVC Eccentric Reducer Fitting for PVC Sewer Pipe	1	EA	\$ <u>2640.00</u>	\$ <u>2,640.00</u>
18	108.3	24"x15" PVC Eccentric Reducer Fitting for PVC Sewer Pipe	1	EA	\$ <u>2640.00</u>	\$ <u>2,640.00</u>
19	108.3	15"x12" PVC Eccentric Reducer Fitting for PVC Sewer Pipe (for 27Rd Area)	1	EA	\$ <u>1320.00</u>	\$ <u>1,320.00</u>
20	108.3	Ferenco Coupling or Engineer Approved Equal (Contractor to verify existing pipe O.D ) (Includes rebar hoops/concrete collar, see Specification on Plans)	3	EA	\$ <u>1300.00</u>	\$ <u>3,900.00</u>
21	108.5	Sanitary Sewer Basic Manhole (48" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. See City Std. Detail SS-02) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	22	EA	\$ <u>4500.00</u>	\$ <u>99,000.00</u>
22	108.5	Manhole Barrel Section (D>5') (48" I.D.)	85.6	Vert. Ft.	\$ <u>160.00</u>	\$ <u>13,696.00</u>
23	108.5	Sanitary Sewer Basic Manhole (60" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. See City Std. Detail SS-02) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	7	EA	\$ <u>5400.00</u>	\$ <u>37,800.00</u>
24	108.5	Manhole Barrel Section (D>5') (60" I.D.)	42.5	Vert. Ft.	\$ <u>269.00</u>	\$ <u>11,432.50</u>

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave - Addendum #3 - Bid Alternate #1**

**CONTRACTOR:** M.A. Concrete Construction, Inc.

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
25	108.5	Manhole Interior Corrosion Protection (100 mils Dry Film Thickness, min.) (includes manhole surface preparation and filling in bugholes and imperfections prior to coating)	273	Vert. Ft.	\$ <u>440.00</u>	\$ <u>120,120.00</u>
26A	202	Removal of Existing Pipe (Size & type as shown on plans)	4,480.2	LF	\$ <u>9.00</u>	\$ <u>40,321.80</u>
27	202	Removal of Manhole (Price to include plugging existing abandoned pipes and removal and disposal of concrete sections)	12	EA	\$ <u>1500.00</u>	\$ <u>18,000.00</u>
28	202	Removal of Manhole (Remove Manhole Cone Section, Ring, and Cover and deliver to City Shops. Contractor shall fill remaining barrel sections with flow fill material)	13	EA	\$ <u>1640.00</u>	\$ <u>21,320.00</u>
29	202	Abandon Pipe (Abandon pipe by plugging ends with concrete)	175	EA	\$ <u>60.00</u>	\$ <u>10,500.00</u>
30A	202	Removal of Existing Surface Material	1,104.9	SY	\$ <u>6.00</u>	\$ <u>6,629.40</u>
31A	202	Removal of Asphalt Mat (Full Depth)	1,533.5	SY	\$ <u>8.80</u>	\$ <u>13,494.80</u>
32A	202	Asphalt Removal (Planing)(Thickness Varies)	27,749	SY	\$ <u>440</u>	\$ <u>122,095.60</u>
33A	202	Removal of Sod	8,012	SF	\$ <u>0.70</u>	\$ <u>5,608.40</u>
34A	202	Removal of Concrete (Includes, but not limited to, curb, gutter, sidewalk, driveway, slabs, V-pans, curb ramps, intersection corners, aprons, landscape borders, and concrete walls)	243	SY	\$ <u>11.00</u>	\$ <u>2,673.00</u>
35	202	Removal of Tree (size shown on plans) (Must be removed by licensed arborist, per City Municipal Code 8.32.110)	1	EA	\$ <u>770.00</u>	\$ <u>770.00</u>
36	203	Potholing (as called out on plans)	2	EA	\$ <u>1935.00</u>	\$ <u>3,870.00</u>



**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave - Addendum #3 - Bid Alternate #1**

**CONTRACTOR:** M.A. Concrete Construction, Inc

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
37	208	Storm Drain Inlet Protection (Silt-Sack Style or Approved Equal) (Includes Maintenance & Removal of Debris, & Removal of Inlet Protection)	2	EA	\$ <u>180.00</u>	\$ <u>360.00</u>
38	208	Erosion Control Log	198	LF	\$ <u>6.50</u>	\$ <u>1,287.00</u>
39A	210	Reset Fence (Height and Material Shown on Plan)	206.7	LF	\$ <u>17.00</u>	\$ <u>3,513.90</u>
40	210	Reset/Repair Sprinkler System (Complete in Place)	1	Lump Sum	\$ <u>4,000.00</u>	\$ <u>4,000.00</u>
41	210	Reset Irrigation Pipe (PVC Irrigation Pipe) (Includes pipe, fittings, equipment, materials, and labor to relocate irrigation pipe)	1	Lump Sum	\$ <u>4,900.00</u>	\$ <u>4,900.00</u>
42	210	Adjust Valve Box (Price to include adjustment of Survey Monuments)	41	EA.	\$ <u>110.00</u>	\$ <u>4,510.00</u>
43	210	Adjust Manhole Ring and Cover (Sanitary and Storm Sewer)	17	EA.	\$ <u>925.00</u>	\$ <u>15,725.00</u>
44A	212	Re-Sod Area as Shown (Includes 6" Thick Imported Topsoil placed prior to sod placement)	8,012	SF	\$ <u>2.10</u>	\$ <u>16,825.20</u>
45	214	Deciduous Tree (1 Inch Caliper) (Match in kind)	3	EA	\$ <u>385.00</u>	\$ <u>1,155.00</u>
46A	304	Aggregate Base Course (Class 6) (12" thick)	1,298.1	SY	\$ <u>20.00</u>	\$ <u>25,962.00</u>
47A	304	Aggregate Base Course (Class 6) (6" thick)	1,282.3	SY	\$ <u>11.00</u>	\$ <u>14,105.30</u>
48	304	Aggregate Base Course (Class 6) - Shoulder Edging Gravel	200	Tons	\$ <u>33.50</u>	\$ <u>6,700.00</u>
49A	401	Cold Mix Asphalt Patching (Temporary Patching) (3" thick) (to be used on Unawweep Ave, as deemed necessary)	559.6	SY	\$ <u>32.50</u>	\$ <u>18,187.00</u>

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave - Addendum #3 - Bid Alternate #1**

**CONTRACTOR:** M.A. Concrete Construction, Inc

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
50A	401	Hot Bituminous Pavement (4" Thick) (Grading SX, Binder Grade PG 64-22)(GYR.=75) (Two 2" Lifts)	1,464.5	SY	\$ <u>41.25</u>	\$ <u>60,410.63</u>
51A	401	Hot Bituminous Pavement (Patching)(2" Thick) (Grading SX, Binder Grade PG 64-22, GYR.=75) (One 2" Lift Top Mat) (T-Top Patch) (See City Std. Detail GU-03)	2,095	SY	\$ <u>16.00</u>	\$ <u>33,520.00</u>
52	401	Hot Mix Asphalt (2" thick) (Grading SX, Binder Grade 64-22)	3,920	Tons	\$ <u>105.00</u>	\$ <u>411,600.00</u>
53	608	Concrete Curb and Gutter (2' Wide)	2	SY	\$ <u>300.00</u>	\$ <u>600.00</u>
54	608.06	Concrete Driveway Section (6" Thick) (Residential)	2.6	SY	\$ <u>240.00</u>	\$ <u>624.00</u>
55	608.06	Concrete Intersection Corner	17	SY	\$ <u>160.00</u>	\$ <u>2,720.00</u>
56	608.06	Concrete Drainage Pan (6' Wide)	12.5	SY	\$ <u>117.00</u>	\$ <u>1,462.50</u>
57A	608/30 4	Monolithic Vertical Curb, Gutter, and Sidewalk (7-ft wide)	203.9	SY	\$ <u>80.00</u>	\$ <u>16,312.00</u>
58	627- 30410	Preformed Plastic Pavement Marking (Symbol)	447	SF	\$ <u>16.50</u>	\$ <u>7,375.50</u>
59A	630	Flagging	3,400	HR	\$ <u>28.75</u>	\$ <u>97,750.00</u>
60	Overlay Tile	24" X 48" MetaDome Surface Applied Overlay Tile, Non-Flanged Brick Red	34	Each	\$ <u>500.00</u>	\$ <u>17,000.00</u>
61A	Pump	Bypass Sewage Pumping (As deemed necessary by City or Contractor)	1	Lump Sum	\$ <u>16,500.00</u>	\$ <u>16,500.00</u>
62A	211	Dewatering (Includes acquiring a CDPHE Dewatering Permit and adhering to the discharge requirements of the State Permit) (if needed)	1	Lump Sum	\$ <u>16,500.00</u>	\$ <u>16,500.00</u>
63	620	Portable Sanitary Facility	1	Lump Sum	\$ <u>400.00</u>	\$ <u>400.00</u>
64	625	Construction Surveying (Includes As- Built Drawings)	1	Lump Sum	\$ <u>16,500.00</u>	\$ <u>16,500.00</u>

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave - Addendum #3 - Bid Alternate #1**

**CONTRACTOR:** M.A. Concrete Construction, Inc.

Item No.	Ref.	Description	Quantity	Units	Unit Price	Total Price
65	626	Mobilization	1	Lump Sum	\$ <u>65,000.00</u>	\$ <u>65,000.00</u>
66A	630	Traffic Control (Complete in Place)	1	Lump Sum	\$ <u>55,000.00</u>	\$ <u>55,000.00</u>
67A	108.3	8" x 4" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	52	EA	\$ <u>275.00</u>	\$ <u>14,300.00</u>
INC		Incentive HMA 64-22	---	---	---	\$ 15,000.00
MCR		Minor Contract Revisions	---	---	---	\$ 100,000.00

**Bid Alternate #1 Amount:** \$ 2,138,451.50

**Bid Alternate #1 Amount:**

Two Million one hundred thirty eight thousand four hundred fifty one dollars <sup>50/100</sup>

**NOTE:** Do not include pricing for this Bid Alternate #1 when calculating your Base Bid total price. This Bid Alternate request is for the option of the City to select an alternate method to Items No. 5, 11, 12, 26, 30, 31, 32, 33, 34, 39, 44, 46, 47, 49, 50, 51, 57, 59, 66 of the Base Bid Price Schedule. NOTE: the Bid Alternate requires an additional contract line item - #67A. Only include #67A in your calculation for Bid Alternate #1.

Lowest bidder shall be determined by comparing all Base Bid price proposals received against that of all Bid Alternate #1 price proposals received, and shall be awarded to the overall lowest total bid price.

Bid Alternate #1 Items No. 5A, 11A, 12A, 26A, 30A, 31A, 32A, 33A, 34A, 39A, 44A, 46A, 47A, 49A, 50A, 51A, 57A, 59A, 66A, 67A refer to the Bid Alternate #1 Construction Plans (Sheets marked '- ALT 1'), and if selected would replace Items No. No. 5, 11, 12, 26, 30, 31, 32, 33, 34, 39, 44, 46, 47, 49, 50, 51, 57, 59, 66 of the Base Bid Price Schedule.

Bid Alternate #1 includes a minimal amount of pipe bursting and is provided to accommodate Contractors who are confident and experienced in open-trench construction with limited space and overhead/underground utilities to protect in place. Bidders are not required to provide a price for these Bid Alternate #1 line items. However, if so, the Bidder would only be considered for their submitted Base Bid price proposal.

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

Name & address of Sub-Contractor	Description of work to be performed	% of Contract
CC Enterprises G.J., CO	Traffic Control	7
United Companies G.J., CO	Asphalt	25
Mays Concrete G.J., CO	Concrete	2
Precision Casting Loma, CO	Lining	7

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.

## **2021 Phase A Sewer Replacements - UnawEEP Avenue**

### **Tentative Project Schedule**

September 7 – Mobilization

September 8 – 1<sup>st</sup> Crew starting west side bursting

September 8- 2<sup>nd</sup> Crew starting Palmer Palisade alley

Working our way East as long as materials are available.

Milling and Asphalt prep November 1

Asphalt starting November 8

24" pipe December due to availability

This schedule is based on award and pipe availability. There are long lead times on special order materials and 24" SDR 35.

## Construction References - 2021

<b>Company/Entity</b>	<b>Name of Contact</b>	<b>Title</b>	<b>Phone Number</b>
Mesa County Public Works	Connie Hahn	Operations Manager	(970) 244-1765
Clifton Water District	David Reinertsen	Assistant Manager	(970) 434-7328
City of Grand Junction	Lee Cooper	Project Engineer	(970) 256-4155
Ute Water Conservancy District	David Piske	Manager/Engineer	(970) 242-7491
City of Fruita	Chris Dehmel	Public Works Director	(970) 858-8377
Clifton Sanitation District	Brian Wood	Manager	(970) 434-7422

## BID BOND

KNOW ALL MEN BY THESE PRESENTS,

that we, M.A. Concrete Construction, Inc. (        an individual,        a partnership, X 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        July 16, 2021 for construction of 2021 Phase A Sewer Replacements - Unaweep Avenue - IFB-4922-21-DH (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 16th day of July, 2021.

Principal: M.A. Concrete Construction, Inc.

Address: 2323 River Road

Grand Junction, CO 81505

Signed: By: Andy Pycauca (seal)

Title: Vice President

Surety: Western Surety Company

Address: 151 N. Franklin Street

Chicago, IL 60606

Signed: By: Tina Marie Post (seal)

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

**Jody L Anderson, Evan E Moody, Karen A Feggestad, Bradley J Moody, Tina Marie Post, Elizabeth Ostblom, 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 19th day of June, 2021.



WESTERN SURETY COMPANY

Handwritten signature of Paul T. Bruflat in black ink.

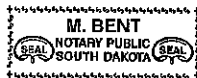
Paul T. Bruflat, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 19th day of June, 2021, 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

March 2, 2026



Handwritten signature of M. Bent in black ink.

M. Bent, 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 16th day of July, 2021.



WESTERN SURETY COMPANY

Handwritten signature of L. Nelson in black ink.

L. Nelson, Assistant Secretary

Form F4280-7-2012

Go to [www.cnasurety.com](http://www.cnasurety.com) > Owner / Obligee Services > Validate Bond Coverage, if you want to verify bond authenticity.

**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)  
07/15/2021

**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 have ADDITIONAL INSURED provisions or 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).**

<b>PRODUCER</b> Moody-Valley Insurance Agency, Inc. 760 Horizon Drive, Suite 302 Grand Junction CO 81506	<b>CONTACT NAME:</b> Tina Post <b>PHONE (A/C, No, Ext):</b> (970) 248-8300 <b>E-MAIL ADDRESS:</b> tina.post@moodyins.com	<b>FAX (A/C, No):</b> (970) 242-1894
	<b>INSURER(S) AFFORDING COVERAGE</b>	
<b>INSURED</b> M. A. Concrete Construction, Inc. P. O. Box 1968 Grand Junction CO 81502	<b>INSURER A:</b> BITCO National Insurance Company NAIC #: 20109	
	<b>INSURER B:</b> BITCO General Insurance Corporation NAIC #: 20095	
	<b>INSURER C:</b> Pinnacol Assurance NAIC #: 41190	
	<b>INSURER D:</b> Continental Insurance Company NAIC #: 35289	
	<b>INSURER E:</b>	
	<b>INSURER F:</b>	

**COVERAGES**      **CERTIFICATE NUMBER:** 20/21 Master      **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 INSD	SUBR 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:			CLP3700397	12/01/2020	12/01/2021	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMPOP AGG \$ 2,000,000 Employee Benefits \$ 1,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY <input type="checkbox"/> AUTOS ONLY			CAP3700398	12/01/2020	12/01/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Medical payments \$ 5,000
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			CUP2820350	12/01/2020	12/01/2021	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000
C	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		Y/N Y	4195192	09/01/2020	09/01/2021	<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
D	Excess Liability			6045636010	12/01/2020	12/01/2021	Limit \$ 3,000,000

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)**  
Bid Bond: 2021 Phase A Sewer Replacements - Unawweep Avenue - -IFB-4922-21-DH

<b>CERTIFICATE HOLDER</b> City of Grand Junction 250 N 5th St Grand Junction CO 81501	<b>CANCELLATION</b> 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 <i>Moody-Valley Insurance Agency</i>
--	--

AGENCY CUSTOMER ID: \_\_\_\_\_

LOC #: \_\_\_\_\_



# ADDITIONAL REMARKS SCHEDULE

Page \_\_\_\_\_ of \_\_\_\_\_

AGENCY Moody-Valley Insurance Agency, Inc.		NAMED INSURED M. A. Concrete Construction, Inc.	
POLICY NUMBER			
CARRIER	NAIC CODE	EFFECTIVE DATE:	

## ADDITIONAL REMARKS

**THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,**  
**FORM NUMBER:** 25      **FORM TITLE:** Certificate of Liability Insurance: Notes

**CONTRACTUAL LIABILITY APPLIES PER POLICY TERMS AND CONDITIONS**

**General Liability:**  
Blanket Additional Insured status applies only to the extent provided in form GL3085 10/19 when required by written contract.  
Blanket Waiver of Subrogation applies only to the extent provided in form GL3085 10/19 when required by written contract.  
Primary and Non-Contributory status only to the extent provided in form GL3085 10/19 when required by written contract.  
Designated Project General Aggregate applies only to the extent provided in form GL3085 10/19 when required by written contract.

**Auto Liability:**  
Blanket Additional Insured status applies only to the extent provided in form AP0401 10/17 when required by written contract.  
Blanket Waiver of Subrogation applies only to the extent provided in form AP0401 10/17 when required by written contract.  
Primary and Non-Contributory status only to the extent provided in form AP0401 10/17 when required by written contract.

**Umbrella Liability:**  
Excess Liability policy is on a follow form basis for the following underlying insurance coverages: General Liability, Automobile Liability, and Employers Liability. Additional insured status will follow when required by written contract.

**Excess Liability:**  
Excess Liability policy is on a follow form basis for the following underlying insurance coverages: Umbrella Liability. Additional insured status will follow when required by written contract.

**Worker's Compensation:**  
359-B From Attached Includes Blanket Waiver of Subrogation. Status applies when required by written contract.

**IMPORTANT:**  
The policy forms referenced will be sent via email only. To obtain copies, please send your request with the email address to [certrequestgj@moodyins.com](mailto:certrequestgj@moodyins.com)

**PERFORMANCE BOND**

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned M.A. Concrete Construction, Inc., a Corporation organized under the laws of the State of CO, hereinafter referred to as the "Contractor" and Western Surety Company, a corporation organized under the laws of the State of SD, and authorized and licensed to transact business in the State of Colorado, hereinafter referred to as the "Surety," are held and firmly bound unto the City of Grand Junction, Colorado, hereinafter referred to as the "City", in the penal sum of Two Million One Hundred Thirty Eight Thousand Four Hundred Fifty One and 53/100--- dollars(\$ 2,138,451.53), lawful money of the United States of America, for the payment of which sum the Contractor and Surety bind themselves and their heirs, executors, administrators, successors and assigns, jointly and severally by these presents.

WHEREAS, the above Contractor has on the 22nd day of July, 2008 entered into a written contract with the City for furnishing all labor, materials, equipment, tools, superintendence, and other facilities and accessories for the construction of 2021 Phase A Sewer Replacements - Unaweeep Avenue (the "Project") and Contract No. IFB-4922-21-DH, it appropriate, in accordance with the Contract, Special Conditions, Special Provisions, General Contract Conditions, Contract Drawings, Specifications and all other Contract Documents therefor which are incorporated herein by reference and made a part hereof, and are herein referred to as the "Contract".

NOW, THEREFORE, the conditions of this performance bond are such that if the Contractor:

1. Promptly and faithfully observes, abides by and performs each and every covenant, condition and part of said Contract, including, but not limited to, its warranty provisions, in the time and manner prescribed in the Contract, and
2. Pays the City all losses, damages (liquidated or actual, including, but not limited to, damages caused by delays in performance of the Contract), expenses, costs and attorneys' fees, that the City sustains resulting from any breach or default by the Contractor under the Contract,

then this bond is void; otherwise, it shall remain in full force and effect.

IN ADDITION, if said Contractor fails to duly pay for any labor, materials, team hire, sustenance, provisions, provender, or any other supplies used or consumed by said Contractor or its subcontractors in its performance of the Work contracted to be done or fails to pay any person who supplies rental machinery, tools, or equipment, all amounts due as the result of the use of such machinery, tools or equipment in the prosecution of the work, the Surety shall pay the same in an amount not exceeding the amount of this obligation, together with interest at the rate of eight percent per annum.

PROVIDED FURTHER, that the said Surety, for value received, hereby stipulates and agrees that any and all changes in the Contract or compliance or noncompliance with the formalities in the Contract for making such changes shall not affect the Surety's obligations under this bond and the Surety hereby waives notice of any such changes. Further, Contractor and Surety acknowledge that the penal sum of this bond shall increase in accordance with approved changes to the Contract Documents without obtaining the Surety's consent up to a maximum of 20 percent of the penal sum. Any additional increases in the penal sum shall require the Surety's consent.

IN WITNESS WHEREOF, said Contractor and said Surety have executed these presents as of this 27th day of July, 200~~0~~21.

CONTRACTOR: M.A. Concrete Construction, Inc.

By: *Martin Szumay*

Title: President

ATTEST:

*Donna Agarrage*  
Secretary

SURETY: Western Surety Company

By: *Tina Marie Post*

Title: Attorney-In-Fact

(Accompany this Bond with the attorney-in-fact's authority from the surety to execute this Bond, certified to include the date of the Bond.)

**PAYMENT BOND**

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned \_\_\_\_\_  
M.A. Concrete Construction, Inc. \_\_\_\_\_, a Corporation organized under the laws of the State  
of CO \_\_\_\_\_, hereinafter referred to as the "Contractor" and \_\_\_\_\_  
Western Surety Company \_\_\_\_\_, a corporation organized under the laws of the State of  
SD \_\_\_\_\_, and authorized and licensed to transact business in the State of Colorado,  
hereinafter referred to as the "Surety," are held and firmly bound unto the City of Grand  
Junction, Colorado, hereinafter referred to as the "City," in the penal sum of Two Million One  
Hundred Thirty Eight Thousand Four Hundred Fifty One and 53/100---  
\_\_\_\_\_ dollars (\$ 2,138,451.53 \_\_\_\_\_), lawful money of the United States of America, for the  
payment of which sum the Contractor and Surety bind themselves and their heirs, executors,  
administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the above Contractor has on the 22nd day of July \_\_\_\_\_, 20021,  
entered into a written contract with the City for furnishing all labor, materials, equipment, tools,  
superintendence, and other facilities and accessories for the construction of 2021 Phase A Sewer  
Replacements - Unawep Avenue \_\_\_\_\_ (the "Project") and Contract  
No. IFB-4922-21-DH \_\_\_\_\_, if appropriate, in accordance with the Contract, Special Conditions, Special  
Provisions, General Contract Conditions, Contract Drawings, Specifications and all other  
Contract Documents therefor which are incorporated herein by reference and made a part hereof,  
and are herein referred to as the "Contract".

NOW, THEREFORE, the condition of this payment bond obligation is such that if the  
Contractor shall at all times promptly make payments of all amounts lawfully due to all persons  
supplying or furnishing it or its subcontractors with labor, materials, rental machinery, tools or  
equipment, used or performed in the prosecution of work provided for in the above Contract and  
shall indemnify and save harmless the City to the extent of any and all payments in connection  
with the carrying out of such Contract which the City may be required to make under the law,  
and for all losses, damages, expenses, costs, and attorneys' fees incurred by the City resulting  
from the failure of the Contractor to make the payments discussed above, then this obligation  
shall be null and void, otherwise, it shall remain in full force and effect.

PROVIDE FURTHER, that the said Surety, for value received, hereby stipulates and  
agrees that any and all changes in the Contract Documents, or compliance or noncompliance  
with the formalities in the Contract for making such changes shall not affect the Surety's  
obligations under this bond and the Surety hereby waives notice of any such changes. Further,  
Contractor and Surety acknowledge that the penal sum of this bond shall increase or decrease in

accordance with approved changes to the Contract Documents without obtaining the Surety's consent up to a maximum of 20 percent of the penal sum. Any additional increases in the penal sum shall require the Surety's consent.

IN WITNESS WHEREOF, said Contractor and said Surety have executed these presents as of this 27th day of July, 2021.

CONTRACTOR: M.A. Concrete Construction, Inc.

By: *Martin Szumy*

Title: President

ATTEST:

*Donna Gzarraga*  
Secretary

SURETY: Western Surety Company

By: *Tina Marie Post*

Tina Marie Post

Title: Attorney-In-Fact

(Accompany this Bond with the attorney-in-fact's authority from the surety to execute this Bond, certified to include the date of the Bond.)

