

Contract Documents and Specification for:

ITB#FY26-002 42nd St Non-Pot Repair

January 6, 2026

Tentative Schedule

| | |
|---|--------------------------|
| Solicitation Advertised | January 6, 2026 |
| Mandatory Pre-Bid Meeting | January 14, 2026 |
| Questions Due | January 16, 2026 |
| Answers Posted to BidNet | January 21, 2026 |
| Solicitation Close & Bid Opening | January 27, 2026 |
| Notice of Intent to Award | January 29, 2026 |
| City Council/City Manager Approval | February 17, 2026 |
| Notice to Proceed | February 18, 2026 |

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ARTICLE 1.0

CONTRACTING PROCEDURES

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1.1 ADVERTISEMENT FOR BIDS

The City of Evans, Colorado will receive sealed bids for the following project:

42nd Street Non-Potable Water Line Repairs

Project Description: The existing non-potable water line extends from the Evans Ditch to Riverside Park/Golden Street and consists of 18-inch, 24-inch, and 30-inch corrugated steel pipe (CSP) and reinforced concrete pipe (RCP). Portions of the line between the Evans Ditch at Belmont Avenue and Burlington Avenue have collapsed, resulting in reduced conveyance and operational issues.

Construction (Phase 1) will include:

- Installing an overshot weir or slide gate (bid alternate) and possibly a concrete sump (bid alternate) for sediment control at the ditch intake, the sump is only needed if the slide gate is chosen.
- Removing and replacing the damaged CSP from the Evans Ditch at Belmont Avenue to Carson Avenue with RCP.
- Removing the existing gate structure located on the west side of Burlington Avenue
- Preparing a section of subgrade with base material extending from the back of curb 12 feet north along 42nd St. for the addition of a sidewalk in the future.

Add Alternates

- Overshot gate in place of a slide gate at the Evans Ditch intake
- Performing the 6-foot point repair identified between Idaho Street and Denver Street

Potential Future Improvements (Phase 2) may include jetting, cleaning, and lining the remaining portions of pipe that are not replaced in Phase 1 to extend the overall service life of the system. Depending on cost, Phase 2 could also be treated as an alternate.

Other Potential Future Improvements:

- Initial steps toward systemizing and automating the non-potable water system (Scada System)
- Gate automation (replacing the current fully manual operations)

Pre-Bid Meeting: A mandatory pre-bid meeting will be held virtually on **January 14, 2026 at 9:00 a.m. mountain time**. Here is the link to the Teams Meeting. Please try to access the link before the meeting to ensure that it works. If you cannot click directly, please copy and paste into your browser.

https://teams.microsoft.com/join/19%3ameeting_OTcwYjFiZWUtZmRiZS00MDVILWFjYzAtNTY4YjZkZTg1MmNi%40thread.v2/0?context=%7b%22id%22%3a%22e97fcc68-4145-4755-b84b-f31e1eea69a4%22%2c%22oid%22%3a%22e9a348c6-c706-42c9-9810-b22be862b464%22%7d

Meeting ID: 265 295 659 457 51
Passcode: 9vU7Qe7f

https://teams.microsoft.com/l/meetup-join/19%3ameeting_MzQ3ZjY1OWItNWM3Yi00YTI4LTg4MmQtZDBiZmUyMDgyODI4%40thread.v2/0?context=%7b%22Tid%22%3a%22e97fcc68-4145-4755-b84b-f31e1eea69a4%22%2c%22Oid%22%3a%22e9a348c6-c706-42c9-9810-b22be862b464%22%7d

Plans and Contract Documents: Copies of the contract documents may be obtained from the City website or BidNet.

Questions concerning the scope of the solicitation should be emailed to Andy Vowell at: avowell@evanscolorado.gov. Vendors are strongly encouraged to get their questions addressed and answered, as well as clearly understand the City's expectations and procedures.

The City reserves the right to reject any or all bids, to waive any informalities in bids, and to accept the bid that is in the best interests of the City of Evans, Colorado.

Published on the City of Evans Website and Rocky Mountain Bid Net on **January 6, 2026.**

1.2 INFORMATION FOR BIDDERS

1.2.1 OWNER

The OWNER of this project is the City of Evans, 1100 37th Street, Evans, Colorado 80620; phone number (970) 475-1113 and fax number (970) 330-3472.

1.2.2 ENGINEER

The ENGINEER is City of Evans, 1100 37th Street, Evans, Colorado 80620. The City Engineer is **Mazedur Hossain**, phone number **(970) 702-8534**. The City of Evans Project Manager is **Alex Corbin** phone number **(970) 970-475-1188**. For this project, the CITY has contracted with **Kimley-Horn**, to do the design of the improvements.

1.2.3 BID SUBMITTAL

Bids will be received by the City of Evans, Colorado (herein called the "CITY"), electronically via BidNet, as noted in the Advertisement for Bid.

Each Bid must contain the following to be considered complete. Incomplete bids will be thrown out and not considered for award. Please order your submission as follows:

- Company Overview and Description (please limit to one page)
- 1.5.1 – Non-Collusion Statement
- 1.5.2 – Bid Proposal
- 1.5.3 – Bid Schedule
- 1.5.4 – Bid Bond
- List of anticipated key personnel that will be working on the project including but not limited to the Project Manager, Superintendent and Foreman along with their qualifications and experience
- Minimum three (3) references from similar projects that include the client's name, contact information, and a brief project overview. Municipal/government funded projects preferred.

All bids must be made on the required bid sheet. All blank spaces for bid prices must be filled in, typewritten, and the bid sheet must be fully completed and executed when submitted. ***Please also include a copy of the bid sheet as a separate excel file.***

1.2.4 INFORMALITIES

The CITY may waive any informalities, minor defects, or reject any and all bids. Any bid may be withdrawn prior to the above scheduled time for the opening of bids or authorized postponement thereof. In the event of strikes, wars, acts of God or other good cause as determined by the City Manager, bid openings may be extended for a reasonable time not to exceed thirty calendar days. No bidder may withdraw a bid within 60 days after the actual date of the opening thereof. Should there be reasons why the contract cannot be awarded within the specified period; the time may be extended by mutual agreement between the CITY and the bidder.

1.2.5 CONDITIONS OF WORK

Bidders must satisfy themselves of the accuracy of the estimated quantities in the Bid Schedule(s) by examination of the site. After bids have been submitted, the bidder shall not assert that there was a misunderstanding concerning the quantities of work or of the nature of the work to be done.

The CITY shall provide to any and all bidders, prior to bidding, all information that is pertinent to

and delineates and describes the land owned and rights-of-way acquired upon request.

The Contract Documents contain the provisions required for the construction of the project. Information otherwise obtained from an officer, agent or employee of the CITY or any other person shall not affect the risks or obligations assumed by the CONTRACTOR or relieve them from fulfilling any of the conditions of the contract.

1.2.6 BID SECURITY

Each bid must be accompanied by a Bid Bond payable to the City for five (5%) percent of the total amount of the bid. As soon as the bid prices have been compared, the CITY will return the bonds of all except the three lowest responsible bidders within three days after the date of the bid opening. When the Agreement is executed, the Bid Bonds of the two remaining unsuccessful bidders will be returned. The Bid Bond of the successful bidder will be retained until the Agreement, Payment Bond and Performance Bond have been executed and approved, after which it will be returned.

A Performance Bond and Payment Bond, each in the amount of One Hundred (100%) percent of the Contract Price, with a corporate surety approved by the CITY, will be required for the faithful performance of the contract.

1.2.7 POWER OF ATTORNEY

Attorneys-in-fact who sign the Bid Bonds or Payment Bonds and Performance Bonds must file with each bond a certificate and effective dated copy of their Power of Attorney.

1.2.8 PROJECT SCHEDULE (TENTATIVE)

- | | |
|--|-------------------|
| • Advertise Date | January 6, 2026 |
| • Mandatory Prebid Meeting (9:00 a.m. MT) | January 14, 2026 |
| • Questions Due | January 16, 2026 |
| • Response to Questions | January 21, 2026 |
| • Solicitation Close and Bid Opening (2:00 p.m. MT) | January 27, 2026 |
| • Notice of Intent to Award | January 29, 2026 |
| • City Council/City Manager Approval | February 17, 2026 |
| • Notice to Proceed (tentative) | February 18, 2026 |

1.3 AWARD OF CONTRACT

The party to whom the contract is awarded will be required to execute the Agreement and obtain the Performance Bond, Payment Bond, and Certificates of Insurance within ten (10) calendar days from the date when Notice of Award is delivered to the bidder. The Notice of Award shall be accompanied by the necessary Agreement. In case of failure of the bidder to execute the Agreement and to furnish said Bonds and Certificates, the CITY may at its option, consider the bidder in default, in which case the Bid Bond accompanying the proposal shall become the property of the CITY. The CITY will be entitled to such other rights as may be granted by law.

The CITY within ten (10) days of receipt of acceptable Performance Bond, Payment Bond Certificates of Insurance and Agreement signed by the party to whom the Agreement was awarded, shall sign the Agreement and return to such party an executed duplicate of the Agreement. Should the CITY not execute the Agreement within such period, the bidder may, by

written notice, withdraw their signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by the CITY.

The Notice to Proceed shall be issued within ten (10) days of the execution of the Agreement by the CITY or as otherwise stated in the Special Conditions. Should there be reasons why the Notice to Proceed cannot be issued within such period; the time may be extended by mutual agreement between the CITY and the CONTRACTOR. If the Notice to Proceed has not been issued within the ten (10) day period or within the period mutually agreed upon, the CONTRACTOR may terminate the Agreement without further liability on the part of either party.

The CITY may make such investigations as deemed necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the CITY all such information and data for this purpose as the CITY may request. The CITY reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the CITY that such bidder is qualified to carry out the obligations of the Agreement and to complete the work contemplated therein. The CITY reserves the right to reject any conditional or qualified bid.

The CONTRACTOR shall commence work in accordance with the dates inserted in the Notice to Proceed issued by the CITY to the CONTRACTOR and shall complete the work as specified, within the time specified in the contract. In the event no written Notice to Proceed is issued by the CITY, the contract time as specified in the contract shall be counted from the first day of actual work on the project. All work shall be prosecuted in an orderly and diligent manner. The CONTRACTOR shall cooperate with, and conform to, the request of the CITY to expedite particular portions of the work or to suspend or transfer its operations on any portion of the work where such alteration of the CONTRACTOR's operations is deemed advisable by the CITY.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout.

Each bidder is responsible for inspecting the site and informing themselves of the conditions under which the work is to be performed and for reading and being thoroughly familiar with the contract documents. The bidder's inspection shall cover the ground structure, obstacles which may be encountered, location of water tables, and other matters relevant to the work both above and below ground. Where test boring logs, indicating underground conditions, are shown on the drawings, this data is for the bidder's information and to reflect the conditions observed at the time and place of drilling. Neither the CITY nor the ENGINEER shall be held responsible for any variance or deviation from the data shown on the drawings, as encountered during actual construction. The failure or omission of any bidder to do any of the foregoing shall in no way relieve any bidder from any obligation in respect to their bid. The successful bidder will not be allowed any extra compensation in the form of contract price or time by any matter or thing on which he could have fully informed the CITY of prior to the bidding.

The low bidder shall supply the names and addresses of major material suppliers and subcontractors when requested to do so by the CITY.

The OWNER reserves the right to reject any or all bids and to pass upon the regularity or waive any irregularities of the bidders and to determine the acceptability of the surety offered.

If Bid Schedules are set forth in the Proposals, the CONTRACTORS must bid on all the Schedules. The CONTRACTOR'S bid considered for award shall be for the combined low bid for the Base Bid and Force Account.

Portions of any project may have been termed "Alternates or Contingent" and the OWNER reserves the right to include or remove any or all of these Alternates from the Contract at their sole option or discretion.

1.3.1 CONSIDERATION OF PROPOSALS

After the proposals are opened and read, they will be compared on the basis of the summation of the products of the approximate quantities shown in the bid schedule by the unit bid prices. The results of such comparisons will be immediately available to the public. In the event of a discrepancy between unit bid prices and extensions, the unit bid price shall govern.

The right is reserved to reject any or all proposals, to waive technicalities or to advertise for new proposals, if in the judgment of the awarding authority the best interests of the CITY will be promoted thereby.

1.3.2 AWARD OF CONTRACT

The award of contract, if it is awarded, will be made within (60) calendar days after the opening of proposals to the lowest responsible and qualified bidder whose proposal complies with all the requirements prescribed. The successful bidder will be notified, by letter mailed to the address shown on their proposal, that their bid has been accepted and that they have been awarded the contract.

1.3.3 CANCELLATION OF AWARD

The CITY reserves the right to cancel the award of any contract at any time before the execution of said contract by all parties without any liability against the CITY.

1.3.4 EXECUTION AND APPROVAL OF CONTRACT

The Contract shall be signed by the successful bidder and returned, together with requisite attachments outlined in Section 1.5.7. All documents will be executed in triplicate and shall be submitted to the CITY within (10) calendar days after the date of award. If the signed Contract and Bond is returned by the successful bidder within (10) calendar days after award and if the Contract is not executed by the CITY within (60) days from date of award, the bidder shall have the right to withdraw its bid without penalty. No Contract shall be considered effective until it has been fully executed by all of the parties thereto.

1.3.5 FAILURE TO EXECUTE CONTRACT

Failure to execute the Contract and file acceptable bonds within (10) calendar days after the date of award shall be just cause for the cancellation of the award and the forfeiture of the proposal guaranty which shall become the property of the CITY. The CITY may elect to waive forfeiture of the proposal guaranty only if it is determined that the bidder has made a good faith remedial error and that no damages were sustained by the CITY as a result of the failure by the successful bidder to execute the contract and file acceptable bonds within the time prescribed. Award may then be made to the next lowest responsible bidder, or the work may be re-advertised and constructed under contract or otherwise, as the CITY may decide.

1.4 THE CONTRACT: FOLLOWING EXECUTION

1.4.1 MATERIALS

Unless otherwise stipulated, the CONTRACTOR shall provide and pay for all materials, labor, water, tools, equipment, light power, transportation, and other facilities necessary for the execution and completion of the work. The CONTRACTOR shall furnish satisfactory evidence as to the kind and quality of materials.

1.4.2 PROGRESS SCHEDULE

The CONTRACTOR shall submit, at such times as may reasonably be requested by the ENGINEER, schedules which shall show the order in which he proposes to carry on the work, with dates at which the CONTRACTOR will start the several parts of the work, and estimated dates of completion of the several parts. The Special Conditions or Drawings may require that certain phases or parts of the work be completed first or in a certain order. If the CONTRACTOR elects to use PERT or CPM charts, he shall furnish copies of them and all revisions thereto or amendments thereto as the work progresses to the ENGINEER upon request.

1.4.3 ASSIGNMENT OF CONTRACT

No assignment by the CONTRACTOR of this contract or any part thereof or of the funds to be received thereunder by the CONTRACTOR will be recognized unless such assignment has had the written approval of the CITY and the surety has been given due notice of such assignment and has furnished written consent thereto. Such written approval by the CITY shall not relieve the CONTRACTOR of the obligations incurred by them under the terms of this contract. In addition to the usual recitals in assignment contracts, the following language must be set forth:

It is agreed that the funds to be paid to the assignee under this assignment are subject to a prior lien for services rendered or materials supplied for the performance of the work called for in said contract in favor of all persons, firms, or corporations rendering such services or supplying such materials."

1.4.4 SUBLETTING OF CONTRACT

The CONTRACTOR shall as soon as practical after signing the contract, notify the ENGINEER in writing, giving the names and qualifications of all subcontractors proposed for work and shall not employ any that the ENGINEER may within a reasonable time object to. The CONTRACTOR will not be allowed to subcontract more than fifty percent (50%) of the total monetary value of the contract without prior approval of the OWNER. The CONTRACTOR shall notify the ENGINEER of each subcontract he awards, giving:

- A. Name, address, and telephone number of the subcontractor
- B. Branch of work covered
- C. Total price of subcontract
- D. Date of subcontract

Subcontractors, before commencing work, must file with the ENGINEER satisfactory certificates in duplicate showing insurance coverage. Failure of the subcontractor to provide such certificates shall not relieve the CONTRACTOR of its obligation to insure and to hold the CITY

harmless. Subcontractors shall also file with the ENGINEER copies of applicable permits and licenses required to do the subcontracted work.

1.4.5 OTHER CONTRACTS

The CITY may award other contracts for additional work, and the CONTRACTOR shall fully cooperate with such other contractors and carefully fit its own work to that provided under the other contracts as may be directed by the ENGINEER. The CONTRACTOR shall not commit or permit any act that will interfere with the performance of work by any other contractor.

1.5 CONTRACT DOCUMENTS

1.5.1 NON-COLLUSION STATEMENT

_____, being first duly sworn, deposes and says that:

- (1) He is the _____ of
(owner, partner, officer, representative or agent)
_____, the
(Company's Name)
bidder that has submitted the attached bid;
- (2) He is fully informed respecting the preparation and contents of the attached bid and of all pertinent circumstances respecting such bid;
- (3) Such bid is genuine and is not a collusive or sham Bid;
- (4) Neither the said bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other bidder, firm or person to submit a collusive or sham bid in connection with the contract for which the attached bid has been submitted or to refrain from bidding in connection with such contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other bidder, firm or person to fix the price or prices in the attached bid or of any other bidder, or to fix any overhead, profit or cost element of the bid price or the bid price of any unlawful agreement any advantage against the City of Evans or any person interested in the proposed contract; and
- (5) The price or prices quoted in the attached bid are fair and proper and are not tainted by a collusion, conspiracy, connivance, or unlawful agreement on the part of the bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

Signed: _____

Title: _____

STATE OF COLORADO)
) ss.
COUNTY OF _____)

Subscribed and sworn to before me this _____ day of _____, 20_____.

Notary Public in and for Colorado

My Commission expires: _____

1.5.2 BID PROPOSAL

42nd Street Non-Potable Water Line Repairs

Proposal of _____ (hereinafter called bidder, doing business as * _____ organized and existing under the laws of the State of _____, to the City of Evans (hereinafter called CITY).

In compliance with your Advertisement for Bids, bidder hereby proposes to perform all work for the **42nd Street Non-Potable Water Line Repairs** in strict accordance with contract documents, within the time set forth therein, and at prices stated below.

By submission of this bid, each bidder certifies, and in cases of a joint bid, each party hereto certifies as to their own organization, that this bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this bid with any other bidder or with any competitor.

Bidder hereby agrees to commence work under this contract on or before a date specified in the Special Conditions. Bidder further agrees to pay liquidated damages as provided in the Special Conditions.

Bidder acknowledges receipt of the following Addendum:

Bid shall include all applicable taxes and fees.

Bidder agrees to perform all work described in the contract documents in accordance with the attached Bid Schedule.

*** Insert "a Corporation", "a Partnership", or "an Individual" as applicable.**

1.5.3 BID SCHEDULE

**This page left intentionally blank.
Please remove and insert bid schedule table page. Bid schedule included in additional
documents on BidNet.**

1.5.4 BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, _____,
as Principal, and _____, as surety, are hereby held and firmly bound unto the
City of Evans in the penal sum of (\$_____) for the payment of which, well and
truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed this _____ day of _____, 20_____.

The condition of the above obligations is such that whereas the Principal has submitted to the
City of Evans a certain bid, attached hereto and hereby made a part hereof, to enter into a
contract in writing, for the

42nd Street Non-Potable Water Line Repairs

NOW THEREFORE,

- (A) If said bid shall be rejected, or in the alternate,
- (B) If said bid shall be accepted and the Principal shall execute and deliver a contract in
the form of contract attached hereto (properly) completed in accordance with said
bid and shall furnish a bond for its faithful performance of said contract, and for the
payment of all persons performing labor or furnishing materials in connection
therewith, and shall in all other respects perform the agreement created by the
acceptance of said bid,

then this obligation shall be void, otherwise, the same shall remain in force and effect; it being
expressly understood and agreed that the liability of the Surety for any and all claims hereunder,
in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations by any
extension of the time within which the CITY may accept such bid; and said Surety does hereby
waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunder set their hands and
seals, and such of them as are corporations have caused their corporate seals to be hereto
affixed and these presents to be signed by their proper officers, the day and year first set forth
above.

Principal

Surety

By:_____

1.5.5 NOTICE OF AWARD

TO: _____

PROJECT DESCRIPTION:
42nd Street Non-Potable Water Line Repair

The CITY, represented by the undersigned, has considered the bid submitted by you for the above-described work in response to its Advertisement for Bids dated **January 6, 2026.**

You are hereby notified that your bid has been accepted for **42nd Street Non-Potable Water Line Repairs** in the amount of **\$XXXXXXXXXX.**

You are required by the Information for Bidders to execute the Agreement and furnish the required Contractor's Performance Bond, Payment Bond, and Certificates of Insurance within ten (10) calendar days from the date of this Notice to you. If you fail to execute said Agreement and to furnish said bonds and certificates within ten (10) days from the date of this Notice, said CITY will be entitled to consider all your rights arising out of the CITY's acceptance of your bid as abandoned and as a forfeiture of your Bid Bond. The CITY will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this Notice of Award to the CITY.

Dated this ____ day of _____, 20__.

The City of Evans

By: _____
Mazedur Hossain, City Engineer

1.5.6 ACCEPTANCE OF NOTICE

Receipt of the above Notice of Award is hereby acknowledged on this, the _____ day of _____, 20__.

By: _____

Title: _____

IMPORTANT: Surety companies executing bonds must appear on the Treasury Department's most current list (circular 570 as amended) and be authorized to transact business in the State of Colorado.

1.5.7 AGREEMENT

THIS AGREEMENT, made this _____ day of _____, 20____, by and between the City of Evans, hereinafter called "CITY", and _____ doing business as _____ hereinafter called "CONTRACTOR".

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned:

1. The CONTRACTOR will commence and complete the phased construction of the **42nd Street Non-Potable Water Line Repairs** project.
2. The CONTRACTOR shall furnish all material, supplies, tools, equipment, labor and other services necessary for the construction and completion of the project described herein.
3. The CONTRACTOR shall commence the work required by the Contract Documents in accordance with the date stated in the Special Conditions and shall complete the work within the time stated in the Special Conditions unless the period for completion is extended otherwise by the Contract Documents.
4. The CONTRACTOR agrees to perform all the work described in the Contract Documents and comply with the terms therein for the sum of \$**XXXXXXXX** for the **42nd Street Non-Potable Water Line Repairs** project.
5. The term "Contract Documents" means and includes the following:
 - (A) Advertisement for bids
 - (B) Information for Bidders
 - (C) Non-Collusion Statement
 - (D) Bid Proposal
 - (E) Bid Schedule
 - (F) Bid Bond
 - (G) Notice of Award
 - (H) Acceptance of Notice
 - (I) Agreement
 - (J) Payment Bond
 - (K) Performance Bond
 - (L) Certificate of Incorporation
 - (M) Certificates of Insurance
 - (N) Notice to Proceed
 - (O) Special Conditions
 - (P) General Conditions
 - (Q) Technical Provisions
 - (R) Change Order
 - (S) Addendum
No. _____, dated _____.
No. _____, dated _____.
No. _____, dated _____.
 - (T) Notice of Contractor's Settlement
 - (U) Final Receipt and Guarantee
 - (V) Other
6. The CITY will pay the CONTRACTOR in the manner and at such time as set forth in

the General Conditions, such amounts required by the Contract Documents.

7. This Agreement shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement, each of which shall be deemed an original on the date first written above.

THE CITY OF EVANS

CONTRACTOR

BY: _____
Mark C. Clark, Mayor

BY: _____
NAME: _____
TITLE: _____
ADDRESS: _____

(SEAL)

ATTEST:

NAME: _____
TITLE: _____

APPROVED AS TO FORM:

Drew Lyman, Evans City Attorney

APPROVED AS TO SUBSTANCE

Cody R. Sims, Evans City Manager

1.5.8 PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: that

Name of Contractor

Address of Contractor

a _____, hereinafter called Principal, Corporation, Partnership or Individual

Name of Surety

Address of Surety

hereinafter called Surety, are held and firmly bound unto the City of Evans, 1100 37th Street, Evans, Colorado 80620, hereinafter called CITY, in the penal sum of \$ _____ in lawful money

of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly, severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas the Principal entered into a certain Contract with the CITY, dated the _____ day of _____, 20_____, a copy of which is hereto attached and made a part hereof for the construction of:

42nd Street Non-Potable Water Line Repairs

NOW, THEREFORE, if the Principal shall well, truly, and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the CITY, with or without notice to the Surety and during the two-year guarantee period, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the CITY from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the CITY all outlay and expense which the CITY may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to work to be performed thereunder or the specifications accompanying the same shall in any ways affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the CITY and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed this ____ day of _____, 20____.

ATTEST:

Principal

Principal Secretary

By: _____ (S)

(SEAL)

Witness as to Principal

Address

ATTEST:

Surety Secretary

(SEAL)

Witness as to Surety

By: _____
Attorney-in-Fact

Address

Address

NOTE: Date of bond must not be prior to date of contract. If CONTRACTOR is a partnership, all partners should execute bond.

IMPORTANT: Surety companies executing bonds must appear on the Treasury Department's most current list (circular 570, as amended) and be authorized to transact business in the state where the project is located.

1.5.9 PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that

Name of Contractor

Address of Contractor

A _____, hereinafter called Principal, and
Corporation, Partnership or Individual

Name of Surety

Address of Surety

hereinafter called Surety, are held and firmly bound unto the City of Evans, 1100 37th Street, Evans, Colorado 80620 hereinafter called "CITY", in the penal sum of \$ _____ in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the CITY, dated the _____ day of _____, 20____, a copy of which is hereto attached and made a part hereof for the construction of:

42nd Street Non-Potable Water Line Repairs

NOW, THEREFORE, if the Principal shall, during the entire length of said contract and any extension thereof, promptly make payment to all persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the prosecution of the work provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such work, and all insurance premiums on said work, and for all labor performed in such work whether by subcontractor or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the contract or to the work or to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on time, alteration or addition to the terms of the contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the CITY and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in _____ (number) counterparts, each one of which shall be deemed an original, this the _____ day of _____, 20____.

ATTEST:

Principal

Principal Secretary

By: _____

(SEAL)

Witness as to Principal

Address

ATTEST:

Surety Secretary

(SEAL)

Witness as to Surety

By: _____
Attorney-in-Fact

Address

Address

NOTE: Date of bond must not be prior to date of contract. If CONTRACTOR is a partnership, all partners should execute bond.

IMPORTANT: Surety companies executing bonds for must appear on the Treasury Department's most current list (circular 570, as amended) and be authorized to transact business in the state where the project is located.

1.5.10 NOTICE TO PROCEED

TO: _____

DATE: _____

Project:
42nd Street Non-Potable Water Line Repairs

You are hereby notified to commence work in accordance with the Agreement dated **{Agreement Date}**, on or before **{Start Date}**, and you are to complete the work within **{Number of Work Days}** consecutive working days thereafter. The date of completion of all work is therefore **{Finish Date}**.

THE CITY OF EVANS

By: _____
Mazedur Hossain, City Engineer

1.5.11 ACCEPTANCE OF NOTICE

Receipt of the above Notice to Proceed is hereby acknowledged by:

this the _____ day of _____, 20____.

By: _____

Title: _____

1.5.12 CHANGE ORDER FORM



CHANGE ORDER REQUEST FORM

Date: _____ Change Order Number: _____

Project: _____

Contractor: _____

Contractor Representative: _____

Original Contract Amount: \$ _____

Original Project Contingency: \$ _____

Current Contract Amount (incl. Change Orders): \$ _____

Project Contingency Remaining (incl. Change Orders): \$ _____

- ☐ This Change Order will have no financial impact.
- ☐ This Change Order will decrease the total project cost.
- ☐ This Change Order will increase the total project cost.
- ☐ This Change Order will require the use of project contingency.
- ☐ This Change Order will require City Council reappropriation.

Amount of this Change Order Request: \$ _____

Number of Additional Working Days Requested: _____

Justification for Change Order Request (please include any supporting documentation as an attachment to this form:

Acknowledgement

This Change Order Request Form has been established in accordance with the adopted Procurement Policy for the City of Evans. Work related to this Change Order Request shall not be completed until all required approvals have been granted and the contractor has received a written Notice to Proceed from the City.

Initiating Party, Contractor: _____

CMS, Contractor: _____

City Project Manager: _____

City Engineer: _____

Department Director: _____

City Manager: _____

City Council (if applicable): _____

1.5.13 NOTICE OF CONTRACTOR'S SETTLEMENT

This is to notify all persons interested that the City of Evans, Colorado will make final payment to **{Contractor's Name}** for work completed on **42nd Street Non-Potable Water Line Repairs**.

Said final payment will be made on **{Final Payment Date}**.

Anyone having claims in conjunction with this project may file same with the undersigned no later than **{Wednesday Before Final Payment Date}**.

CITY OF EVANS

By: _____
Alexander Corbin, Civil Engineer I

Dated: _____
The Greeley Tribune

1.5.14 FINAL RECEIPT AND GUARANTEE

CITY OF EVANS

Date: _____

Received this date of **{Final Payment Date}**, as full and final payment of the cost of improvements provided for in the Contract executed by **{Contractor's Name}** and Payee on or about **{Agreement Date}**, together with all amendments, change orders, and additions thereto, the sum of Dollars (\$**{Final Payment Amount}**), by check, being the remainder of the full amount accrued to the undersigned under the above-mentioned contract, including any and all extra work performed, and any and all materials and incidentals furnished by the undersigned thereunder. For this amount and the additional consideration of One Dollar (\$1.00), the undersigned hereby releases the City of Evans from any claims whatsoever resulting from said contract and all work performed thereunder.

The undersigned, by these presents, certifies that all persons doing work upon or furnishing materials for said improvements under the foregoing contract and all additions thereto have been paid in full. The undersigned further certifies that all work has been completed in a workmanlike manner in conformity with the project's plans and specifications. That should any portion of said work or material(s) prove defective within **two (2) years** from the date of initial acceptance of the entire project by the City of Evans, the undersigned shall replace any such defective material(s) and remedy any such defective work to the satisfaction of the City of Evans, and shall defend and indemnify expenses and charges of every kind which may arise as a result of any such defective material(s) and workmanship during said period.

The Performance and Maintenance Bond for this contract shall remain in effect for the two (2) year period of the guarantee.

42nd Street Non-Potable Water Line Repairs

Signature: _____

Name: _____

Title: _____

1.6 INSURANCE REQUIREMENTS

The CONTRACTOR shall secure and maintain such insurance policies as will protect themselves, their subcontractors, and the City of Evans, from claims for bodily injuries, death or property damage, which may arise from operations under this contract whether such operations be by themselves or by any subcontractor or anyone employed by them directly or indirectly. The following insurance policies are required:

- (a) Statutory Worker's Compensation
- (b) Commercial General Liability
 - General Aggregate \$ 2,000,000
 - Products/ \$ 2,000,000
 - (Completed Operations Aggregate)
 - Each Occurrence \$ 1,000,000
 - Personal & Advertising Injury \$ 1,000,000
 - Fire Damage \$ 50,000
 - Medical Expense \$ 5,000
- (c) Automobile Liability
 - Bodily Injury and Property Damage \$ 1,000,000
 - (Combined Single Limit)
- (d) Builders Risk/Installation Floater Full Replacement Cost
 - Be written on a Builder's Risk "All-Risk" or on Peril
 - or Special Causes of Loss policy form that shall at
 - least include insurance for physical loss and damage
 - to the Work, temporary buildings, false work, and
 - Work in transit and shall insure against at least the
 - following perils: fire, lightning, extended coverage,
 - theft, vandalism and malicious mischief, collapse,
 - debris removal, demolition occasioned by enforcement of laws and regulations,
 - water damage.

Certificates of Insurance must show "City of Evans, its employees and agents" as an Additional Insured.

All policies shall be for not less than the amounts set forth above or as stated in the Special Conditions. Other forms of insurance shall also be provided if called for by the Special Conditions.

Certificates or copies of policy of such insurance shall be filed with the CITY and shall be subject to its approval as to adequacy of protection, within the requirements of the specifications. Said Certificates of Insurance shall contain a 30-day written notice of cancellation in favor of the CITY.

ARTICLE 2.0

GENERAL CONDITIONS

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2.1 DEFINITIONS

- (a) The Contract Documents shall consist of the Advertisement for Bids, Information for Bidders, Non-Collusion Statement, Bid Proposal, Bid Bond, Notice of Award, Agreement, Performance Bond, Payment Bond, Insurance Requirements, Notice to Proceed, Change Order, Notice of Contractor's Settlement, Final Receipt and Guarantee, Drawings, Specifications, and Special and General Conditions, including all modifications thereof incorporated in any of the documents before and after the execution of the Contract.
- (b) The CITY and the CONTRACTOR are those named as such in the Agreement. They are treated through the Contract Document as if each were of singular number and masculine gender.
- (c) Wherever in this Contract the word "ENGINEER" is used, it shall be understood as referring to the City Engineer, acting personally or through any assistants or assigns.
- (d) Any written notice served pursuant to the terms of the Agreement shall be deemed to have been duly served as if delivered in person or by registered mail to the individual, or to a partner, or to an officer of the corporation for whom it is intended, or any authorized representative thereof.
- (e) The term "subcontractor" shall mean anyone, other than the contractor, who furnished at the site, under an agreement with the CONTRACTOR, labor, or labor and materials, or labor and equipment, but shall not include any person who furnished services of a personal nature.
- (f) Work shall mean the furnishing of all labor, materials, equipment, and other incidentals necessary to the successful completion of the Contract and the carrying out of all duties and obligations imposed by the Contract.
- (g) Extra work shall mean such additional labor, materials, equipment, and other incidentals as are required to complete the Contract for the purpose for which it was intended but was shown on the Drawings or called for in the Specifications or is authorized by the CITY in addition to that work called for in the Drawings and Specifications.
- (h) Dispute shall mean lack of agreement between any parties that have any obligations, duties, or responsibilities under the terms of the Contract Drawings or Specifications.
- (i) Mobilization shall consist of preparatory work and operations, including, but not limited to, those necessary for the movement of personnel, equipment, supplies and incidentals to the project site; for the establishment of all offices, buildings and other facilities necessary for work on the project; and for all other work and operations which must be performed in order to begin work on the various items on the project site.

2.1.1 ABBREVIATIONS

Wherever the following abbreviations are used in these general conditions, supplemental condition, specifications, standard details or on the drawings, they are to be construed the same as the respective expressions represented.

AASHTO

American Association of State Highway and Transportation
Officials

| | |
|-----------|---|
| AAN | American Association of Nurserymen |
| AB | Aggregate Base |
| Aban | Abandon |
| ABC | Aggregate base course |
| AC | Asphalt cement or concrete |
| ACB | Asphalt concrete base |
| ACI | American Concrete Institute |
| ACP | Asbestos cement pipe |
| ACPA | American Concrete Pipe Association |
| ACWS | Asphalt concrete wearing surface |
| AGC | Associated General Contractors of America, Inc. |
| Agg | Aggregate |
| Ahd | Ahead |
| AIA | American Institute of Architects |
| AIEE | American Institute of Electrical Engineers |
| AISC | American Institute of Steel Construction |
| ANSI | American National Standards Institute |
| APA | American Plywood Association |
| Approx | Approximate |
| APWA | American Public Works Association |
| AR | Aged residue |
| ASCE | American Society of Civil Engineers |
| ASME | American Society of Mechanical Engineers |
| Asph | Asphalt |
| ASTM | American Society for Testing Materials |
| Ave | Avenue |
| AWPA | American Wood Preservers Association |
| AWSC | American Welding Society Code |
| AWWA | American Water Works Association |
| | |
| Bbl | Barrel |
| BC | Beginning of curve |
| BCR | Beginning of curb return |
| Beg | Beginning |
| Bk | Book or Back |
| Blvd | Boulevard |
| BM | Bench Mark or Board Measure |
| Brg | Bearing |
| BST | Bituminous Surface Treatment |
| BTB | Bituminous Treated Base |
| BTU | British Thermal Units |
| BVC | Beginning of vertical curve |
| BVCE | Beginning of vertical curve elevation |
| BVCS | Beginning of vertical curve station |
| | |
| C | Centigrade or Curb |
| CB | Catch Basin |
| CBF&C | Catch basin frame & cover |
| CC or C/C | Center to Center |
| CCA | Colorado Contractor's Association, Inc. |
| CDOT | Colorado Department of Transportation |

| | |
|-------------|--|
| CE | City or County Engineer |
| Cem | Cement |
| CF | Curb face |
| cfs | Cubic Feet per second |
| CIP | Cast Iron pipe |
| CIPP | Cast-in-place concrete pipe |
| CL or C | Centerline |
| Cm | Centimeter |
| CMP | Corrugated metal pipe |
| CO | Clean out |
| Col | Column |
| Conc | Concrete |
| Const | Construct |
| CP | Concrete pipe(non-reinforced) |
| CRS | Colorado Revised Statutes |
| CTB | Cement Treated Base |
| Cu | Cubic |
| CY | Cubic Yards |
| Deg | Degree |
| DF | Douglas Fir |
| DG | Decomposed granite |
| Dia | Diameter |
| Dim | Dimension |
| DIP | Ductile Iron Pipe |
| Div | Division |
| Dr | Drive |
| DRCOG | Denver Regional Council of Governments |
| Drwg | Drawing |
| Dwy | Driveway |
| Ea | Each |
| Ease | Easement |
| E | East |
| EC | End of curve |
| ECR | End of curb return |
| El or Elv | Elevation |
| Equa or Eq | Equation |
| EVC | End of vertical curve |
| EVCE | End of vertical curve elevation |
| EVCS | End of vertical curve station |
| Ex or Exist | Existing |
| F | Fahrenheit |
| FB | Field Book |
| F & C | Frame & cover |
| FH | Fire hydrant |
| FL or F | Floor line or flow line |
| FIEI | Floor Elevation |
| Fnd | Found |
| fps | Feet per second |

| | |
|-------|--|
| FS | Finished surface |
| FSS | Federal Specifications and Standards |
| Ft | Foot or feet |
| G | Gutter |
| Ga | Gage |
| Galv | Galvanized |
| GL | Ground line |
| gpm | Gallons per minute |
| Gr | Grade |
| H | High or height |
| HC | House connection |
| Hdwl | Headwall |
| Horiz | Horizontal |
| Hwy | Highway |
| ID | Improvement District or inside diameter |
| IE | Invert Elevation |
| IEEE | Institute of Electrical and Electronic Engineers |
| In | Inch |
| Inv | Invert |
| IP | Iron Pipe |
| IPS | Iron Pipe Size |
| Irrig | Irrigation |
| Jt | Joint |
| JC | Junction Chamber |
| Jct | Junction |
| JS | Junction Structure |
| L | Length |
| Lb | Pound |
| L&T | Lead and tack |
| LD | Local depression |
| LF | Linear Feet |
| LH | Lamp hole |
| Lin | Linear |
| Long | Longitudinal |
| Lt | Left |
| M | Map or maps |
| Max | Maximum |
| Meas | Measured |
| MH | Manhole |
| MHF&C | Manhole frame and cover |
| Min | Minutes or minimum |
| Misc | Miscellaneous |
| MLorM | Monument line |
| Mm | Millimeter |
| Mon | Monolithic or monument |

| | |
|------------|---|
| MTD | Multiple tile duct |
| MUTCD | Manual of Uniform Traffic Control Devices |
| N | North |
| NBS | National Bureau of Standards |
| NCPI | National Clay Pipe Institute |
| NE | Northeast |
| NEC | National Electric Code |
| NEMA | National Electrical Manufacturer's Association |
| NFPA | National Fire Protection Association |
| NP | Non-plastic |
| NPI | Non pay item |
| NSC | National Safety Council |
| NSF | National Sanitation Foundation |
| NW | Northwest |
| No | Number |
| OC | On center |
| OD | Outside diameter |
| Oz | Ounces |
| PC | Point of curvature |
| PCR | Point of curb return |
| PCC | Point of compound curve or Portland Cement Concrete |
| PI | Point of intersection or plastic index |
| PL | Property line |
| POC | Point of Curve |
| POS | Point of Spiral |
| PP | Power pole |
| ppm | Parts per million |
| PRC | Point of reverse curve |
| Prod | Proposed or property |
| psi | Pounds per square inch |
| psf | Pounds per square foot |
| PTorPOT | Point of Tangent |
| P&TP | Power and telephone pole |
| Pvmt | Pavement |
| Q | Rate of flow |
| R | Radius |
| RC | Reinforced concrete |
| RCP | Reinforced concrete pipe |
| Rd | Road |
| Rdwy | Roadway |
| Reinf | Reinforced, Reinforcing |
| Ret Wall | Retaining Wall |
| RGRCP | Rubber Gasket Reinforced Concrete Pipe |
| rpm | Revolutions Per Minute |
| Rt | Right |
| R/W or Row | Right-of-way |

| | |
|----------|--|
| S | South or slope |
| SAE | Society of Automotive Engineers |
| San | Sanitary |
| SC | Spiral to Curve |
| SCCP | Steel cylinder concrete pipe |
| SD | Storm drain or Sewer District |
| SDDTC | Storm Drainage Design and Technical Criteria |
| Sdl | Saddle |
| Sec | Seconds |
| Sect | Section |
| SE | Southeast |
| SF | Square feet |
| Sht | Sheet |
| Spec | Specifications |
| SPR | Simplified Practice Recommendation |
| SpMH | Special manhole |
| Sq Ft Yd | Square Foot, Yard |
| SS | Sanitary sewer |
| St | Street |
| Sta | Station |
| Std | Standard |
| Str gr | Structural grade |
| Struct | Structure or structural |
| SW | Southwest |
| SY | Square Yard |
| | |
| T | Tangent Distance |
| Tel | Telephone |
| Temp | Temporary |
| TH | Test hole |
| TP | Telephone pole |
| Tr | Tract |
| Trans | Transition |
| TS | Traffic signal or Tangent to spiral |
| TSC | Traffic signal conduit |
| Typ | Typical |
| | |
| UD & FCD | Urban Drainage and Floor Control District |
| USDCM | Urban Storm Drainage Criteria Manual |
| UL | Underwriters Laboratories |
| USC&GS | United States Coast and Geodetic Survey |
| USGS | United States Geological Survey |
| | |
| V | Velocity of flow |
| VC | Vertical curve |
| VCP | Vitrified clay pipe |
| Vert | Vertical |
| | |
| W | West or width |
| WI | Wrought iron |

| | |
|----|-------------------|
| WS | Wearing surface |
| Wt | Weight |
| Yd | Yard |
| ' | feet or minutes |
| " | inches or seconds |
| o | degrees |
| % | percent |
| # | number or pound |
| @ | at |
| / | per |
| = | equals |

2.1.2 GENERAL DEFINITIONS AND TERMS

Whenever in these specifications or in other contract documents the following terms or pronouns in place of them are used, the intent and meaning shall be interpreted as follows:

Addendum: A Supplement to any of the Contract Documents issued, in writing, after advertisement of but prior to the opening of bids for a contract.

Advertisement: The public announcement, as required by law, inviting bids for work to be performed or materials to be furnished.

Agency: The government agency for which the construction is being done, either by permit or contract.

Agreement: The written agreement between OWNER and CONTRACTOR covering the Work to be performed; other Contract Documents are made a part thereof as provided therein.

Application for Payment: The form accepted by the ENGINEER which is to be used by CONTRACTOR in requesting progress or final payment and which is to include such supporting documentation as required by the Contract Documents.

Award: The formal action of the governing body in accepting a proposal.

Backfill: Material placed in an excavated space to fill such space. For trenches this space will be the area from 1 foot above the top of the pipe or conduit to the existing or proposed finished grade of pavement.

Base Course: The upper course of the granular base of a pavement or the lower course of an asphalt concrete pavement structure.

Bedding: Is the material placed in the area from the bottom of the trench to 1 foot above the top of the pipe or conduit.

Bid: The offer or proposal of the Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

Bidder: Any qualified individual, firm, partnership, corporation or combination thereof, acting directly or through a duly authorized representative who legally submits a proposal for the advertised work.

Bond Issue Project: A project financed from bonds issued by the CITY pledging credit or a revenue resource.

Bridge: A structure, including supports, erected over a depression or an obstruction, as water, highway, or railway, and having a track or passageway for carrying traffic or other moving loads and having a length measured along the center of roadway of more than 20 feet between undercopings of abutments or extreme ends of openings for multiple boxes.

(Length) The length of a bridge structure is the over-all length measured along the line of survey stationing back to back of backwalls of abutments, if present, otherwise end to end of the bridge floor; but in no case less than the total clear opening of the structure.

(Roadway Width) The clear width measured at right angles to the longitudinal centerline of the bridge between the bottom of curbs or guard timbers or in the case of multiple height of curbs, between the bottom of the lower risers.

Budget Project: A project financed by funds from General Tax levies and shared revenue funds set aside in the annual budget adopted by the Evans City Council.

Building: Any structure built for the support, shelter, or enclosure of persons, animals, chattel or movable property.

Building Code: A regulation adopted by the governing body establishing minimum standards of construction for the protection of the public health, safety, and welfare in terms of measured performance rather than in terms of rigid specifications of materials and methods.

Calendar Day: Every day shown on the calendar.

Change Order: A written order issued by the ENGINEER to the CONTRACTOR to make changes in the work or to perform extra work and setting forth conditions for payment and/or adjustment in time of completion.

City: A municipal corporation, organized and existing under and by virtue of the laws of the State of Colorado.

City Clerk: The duly authorized person who performs the duties of clerk for the Contracting Agency.

Completion Time: The number of calendar days for completion of an act, including authorized time extensions. In case a calendar date of completion is shown in the proposal in lieu of the number of calendar days, the contract shall be completed by that date. The time within which an act is to be done shall be computed by excluding the first and including the last day; and if the last day be Sunday or a legal holiday, that shall be excluded.

Conflicting Utility Line: An existing utility line, shown or not shown on the drawings, is a conflicting line when any part falls within the trench pay widths as listed or within the dimensions, as shown on the drawings, for appurtenant structures.

Construction Project: The erection, installation, remodeling, alteration, of durable facilities upon, under, or over the ground. This shall include, but is not limited to buildings, roadways and utility pipes, lines, poles or other structures.

Contingent Bid Item: This is a minor bid item which is likely, but not certain, to occur during the course of work. If the ENGINEER determines that this work is required, the CONTRACTOR will accomplish the work and payment will be made based on the contingent unit bid price included in the proposal. Since the quantity listed in the

proposal is primarily for bid comparison, the amount of work required by the ENGINEER may vary materially from this.

Contract: The written instrument executed by the CONTRACTOR and the Contracting Agency by which the CONTRACTOR is bound to furnish all labor, equipment, and materials and to perform the work specified, and by which the Contracting Agency is obligated to compensate the CONTRACTOR therefore at the prices set forth therein. The Contract Documents are herewith by reference made a part of the contract as if fully set forth therein.

Contract Documents: The Agreement, Addenda (which pertain to the Contract Documents), CONTRACTOR's Bid (including documentation accompanying the Bid and any post Bid documentation submitted prior to the Notice of Award) when attached as an exhibit to the Agreement, the Bonds, these General Conditions, the Supplementary Conditions, the Specifications and the Drawings as the same are more specifically identified in the Agreement, together with all amendments, modifications and supplements issued on or after the Effective Date of the Agreement.

Contracting Agency: The legal entity that has contracted for the performance of the work or for whom the work is being performed.

Contractor: The individual, firm, partnership, corporation or combination thereof entering into a contract with the Contracting Agency to perform the advertised work.

Council: The City Council that by law constitutes the Legislative Department of the City organized and existing under and by virtue of the laws of the State of Colorado.

Culvert: Any structure not classified as a bridge, which provides an opening under or adjacent to the roadway.

Days: Unless otherwise designated, days will be understood to mean calendar days.

Emergency: Unforeseen occurrences and combinations of circumstances involving the public welfare or the protection of work already done under the Contract Documents, or which endanger life or property and call for immediate action or remedy.

Engineer: The person, appointed as ENGINEER by the CITY acting directly or through their duly authorized representative.

Equipment: (Construction)-All machinery and equipment, together with the necessary supplies for upkeep and maintenance, and tools and apparatus necessary for the proper construction and acceptable completion of work.

(Installed)-All material or articles used in equipping a facility as furnishings or apparatus to fulfill a functional design.

Extra Work: An item of work not provided for in the contract as awarded but found essential to the satisfactory completion of the contract within its intended scope.

Field Order: A written set of emergency instructions to the CONTRACTOR issued only where the time required for preparation and execution of a formal Change Order would

result in a delay or a stoppage of work, or would allow a hazardous condition to exist.

Fixed Bid Quantity: A payment item to be paid at a unit price, but with a defined quantity amount in the contract. Deviation within +/- 25% to be paid per the contract amount and deviation beyond +/-25% may be re-negotiated by mutual agreement between the City and Contractor in accordance with CDOT Standard Specification (2017) Section 104.02.c.

Flooding: Flooding will consist of the inundation of the entire lift with water, puddled with poles or bars to insure saturation of the entire lift.

Foundation: For buildings or structures, this will be the substructure. For pipe this will be the native material or prepared material on which the pipe rests; normally, this is the bottom grade line of the trench.

Full Depth Pavement: An asphalt concrete pavement structure in which the granular base and sub-base are replaced by equivalent structural thickness of asphalt concrete.

General Conditions: Uniform general specifications adopted as standard specifications by the ENGINEER.

Holiday: Holidays recognized by collective bargaining agreements in the State of Colorado are:

- New Year's Day
- Memorial Day
- Independence Day
- Labor Day
- Thanksgiving Day
- Christmas Day

Additional holidays recognizable by the State of Colorado Cities and Counties are:

- Martin Luther King's Birthday
- Presidents Day
- Columbus Day
- Veteran's Day
- General Election Day in even-numbered years

When New Year's Day, Independence Day or Christmas Day fall on Sunday, the following Monday shall be considered a holiday.

Additional legal holidays, when designated by the State Governor or President of the United States, will also be recognized by the State, City and/or County.

Improvement District Project: A project financed by assessments against the property included in a special assessment district authorized under, or implemented by, an act of the legislature of the State and/or a procedural ordinance of the City or County.

Inspector: The ENGINEER's authorized representative assigned to make detailed inspections of contract performance.

Jetting: Jetting is the densification of material, using a continuous supply of water,

under pressure, transmitted to the material through a rigid pipe of sufficient length to reach the bottom of the lift being densified. In all cases, the entire lift will be completely saturated working from the top to the bottom.

Laboratory: The established materials testing laboratory of the Contracting Agency's Engineering Department, or other laboratories acceptable to and/or authorized by the ENGINEER to test materials and work involved in the Contract.

Liquidated Damages: A daily charge made against the CONTRACTOR for each working day, including free time, that any work shall remain uncompleted after elapse of Contract time.

Major Item: Any item of work and/or materials having an original contract value that exceeds ten percent of the amount of the original contract.

Materials: Any substance specified in the project, equipment and other material used or consumed in the performance of the work.

Median: The portion of a divided highway separating the roadways used by traffic going in opposite directions.

Method of Measurement: The manner in which a "Pay Item" is measured to conform to the "Pay Unit."

Non-Pay Item: An item of work for which no separate payment will be made under the proposal, but which must be included as an incidental cost for payment on an associated pay item included in the proposal.

Notice of Award: A letter from the CITY advising the CONTRACTOR that he is the successful Bidder and the Evans City Council has accepted their proposal.

Notice to Bidders: The standard forms inviting proposals or bids.

Notice to Proceed: A directive issued by the Engineer, authorizing the CONTRACTOR to start the work or improvements required in the Contract.

Obligee: One to whom another is obligated. For bonding purposes, the OWNER is the obligee.

Open Trench: The excavated area shall be considered as open trench until all the aggregate base course for pavement replacement has been placed and compacted or, if outside of a pavement area, until the excavated area is brought to finish grade or natural grade.

Owner: City of Evans, State of Colorado, acting through its legally constituted officials, officers or employees.

Pavement: Any surface of streets, alleys, sidewalks, courts, driveways, etc., consisting of mineral aggregate bound into a rigid or semi-rigid mass by a suitable binder such as, but not limited to, Portland cement or asphalt cement.

Pavement Structure: The combination of sub-base, base course, and surface course placed on a sub-grade to support the traffic load and distribute it to the roadbed.

Pay Item: A detail of work for which individual payments are to be made under the Contract, as specified in the proposal.

Payment Bond: The security provided by the CONTRACTOR solely for the protection of claimants, supplying labor and materials to the CONTRACTOR or its Subcontractors.

Performance Bond: The security by the CONTRACTOR solely for the protection of the Contracting Agency and conditioned upon the faithful performance of the contract in accordance with the contract documents, drawings, specifications and conditions thereof.

Permit: The license to do construction in public rights-of-way and/or easements; issued by an Agency to a CONTRACTOR working for another party.

Plans: All approved drawings or reproductions thereof pertaining to the work and details therefor, which are made a part of the Project Manual and Contract Documents.

Plant: The Contractors' and/or subcontractors' facilities, including but not limited to small tools and mobile equipment, located on and/or offsite, necessary for preparation of materials and prosecution of work for the project.

Principal: The individual, firm or corporation primarily liable on an obligation, as distinguished from a surety.

Profile Grade: The trace of a vertical plane intersecting the top surface of the proposed wearing surface, usually along the longitudinal centerline of the roadbed. Profile grade means either elevation or gradient of such trace according to the context.

Project: A specific coordinated construction or similar undertaking identified by a single project number and bid and awarded as one contract. On occasion two or more projects may be bid and awarded as a single contract.

Project Manual: All the integral documents of the contract including but not limited to, Contract Documents, General Conditions, Supplemental Conditions, Specifications and drawings.

Project Supplemental Conditions: See definition for Supplemental Conditions.

Proposal: The offer of a bidder on the prescribed form, to perform the work and to furnish the labor and materials at the prices quoted.

Proposal Form: The approved form on which the Contracting Agency requires bids to be prepared and submitted for the work.

Proposal Guarantee: The security furnished with a bid to guarantee that the bidder will enter into the contract if their bid is accepted.

Proposal Pamphlet: The book or pamphlet pertaining to a specific project, containing

proposal forms, special provisions and other information necessary for and pertinent to the preparation of the proposal or bid.

Referred Documents: On all work authorized by the Contracting Agency, any referenced documents in the specification, i.e., Bulletins, Standards, Rules, Methods of Analysis or test. Codes and Specifications of other Agencies, Engineering Societies or Industrial Associations, refer to the Latest Edition thereof, including Amendments, which are in effect and published at the time of Advertising for Bids or the issuing of a permit for the work, unless otherwise stated.

Resident Project Representative: The authorized representative of ENGINEER who may be assigned to the site or any part thereof. Also called the Inspector.

Reasonably Close Conformity: Compliance with reasonable and customary manufacturing and construction tolerances where working tolerances are not specified. Where working tolerances are specified, reasonably close conformity means compliance with such working tolerances.

Right-of-Way: A general term denoting, land, property or interest therein, usually in a strip, acquired for or devoted to a street, highway, or other public improvement.

Road: A general term denoting a public way for purposes of vehicular travel, including the entire area within the right-of-way.

Roadside: A general term denoting the area adjoining the outer edge of the roadway. Extensive areas between the roadways of a divided highway may also be considered roadside.

Roadside Development: Those items necessary to the complete roadway that provide for the preservation of landscape materials and features; the rehabilitation and protection against erosion of all areas disturbed by construction through seeding, sodding, mulching and the placing of other ground covers; such suitable planting and other improvements as may increase the effectiveness and enhance the appearance of the roadway.

Roadway: The portion of the right-of-way intended primarily for vehicular traffic and including all appurtenant structures and other features necessary for proper drainage and protection. Where curbs exist, it is that portion of roadway between the faces of the curbs.

Salvageable Material: Material that can be saved or salvaged. Unless designated or directed by the ENGINEER or shown on the drawings, all salvageable material shall remain the property of the CONTRACTOR.

Sewers: Conduits and related appurtenances employed to collect and carry off water and waste matter to a suitable point of final discharge.

Shop Drawings: Drawings or reproduction of drawings, detailing; fabrication and erection of structural elements, falsework and forming for structures, fabrication of reinforcing steel, installed equipment and installation of systems, or any other supplementary drawings or similar data, which the CONTRACTOR is required to submit

for approval.

Shoulder: The portion of the roadway contiguous with the traveled way for accommodation of stopped vehicles, for emergency use, and for lateral support of base and surface courses.

Sidewalk: That portion of the roadway primarily constructed for the use of pedestrians.

Supplemental Conditions: The special conditions, requirements, additions, and/or revisions to the General Conditions and Standard Specifications, applicable to the work, to cover conditions or requirements peculiar to the project under consideration. Supplemental Conditions fall within one of the two following categories and take precedence over the General Conditions.

(a) Project Special Conditions. Special Conditions peculiar to the project and not otherwise thoroughly nor appropriately set forth in the general conditions or standard specifications or drawings.

(b) Standard Special Conditions. Special directions or requirements not otherwise thoroughly or appropriately set forth in the standard specifications, and which are peculiar to a selected group of projects or which are intended for temporary use.

Specifications: The descriptions, directions, provisions, and requirement for performing the work as contained in the Contract Documents.

State: The State of Colorado.

Standard Details: Uniform detail drawings of structures or devices adopted as Standard Details by the ENGINEER.

Standard: Uniform general specifications adopted as Standard Specifications by the ENGINEER.

Storm Drain: Any conduit and appurtenance intended for the reception and transfer of stormwater.

Street: Streets, avenues, alleys, highways, crossings, lanes, intersections, courts, places, and grounds now open or dedicated or hereafter opened or dedicated to public use and public ways.

Structures: Bridges, culverts, catch basins, drop inlets, retaining walls, cribbing, manholes, endwalls, sewers, service pipes, underdrains, foundation drains, fences, swimming pools, and other features which may be encountered in the work and not otherwise classed herein.

Sub-base: The lower course of the base of a roadway, immediately above the sub-grade.

Subcontractors: Those having direct contracts with the CONTRACTOR and those who furnish material worked into a special design according to the Drawings and

Specifications for the work, but not those who merely furnish material not so worked.

Sub-grade: The supporting structures on which the pavement and its special undercourses rest.

Substantial Completion: The work (or a specified part thereof) has progressed to the point where, in the opinion of ENGINEER and OWNER as evidenced by a letter of Substantial Completion, it is sufficiently complete, in accordance with the Contract Documents, so that the Work (or specified part) can be utilized for the purposes for which it was intended. The terms "substantially complete" and "substantially completed" as applied to any work refer to Substantial Completion thereof. The work must meet the following criteria for Substantial Completion to apply:

- A. At least 90% of all pay items have been completed and are eligible for payment.
- B. The facilities constructed by CONTRACTOR are ready for use.
- C. All traffic features have been completed.
- D. A list of incomplete work items has been issued by the OWNER or ENGINEER to the CONTRACTOR and the CONTRACTOR has accepted and acknowledges the list.

Substructure: All of that part of the structure or building below the bearings of simple and continuous spans, skewbacks of arches and tops of footings of rigid frames, together with the backwalls, wingwalls, and wing protection railings.

Superintendent: The Contractor's authorized representative in responsible charge of the work.

Superstructure: The entire structure or building except the substructure.

Supplemental Specifications: Additions and revisions to the Standard Specifications that are adopted subsequent to issuance of the printed Project Manual.

Surety: The individual, firm or corporation, bound with and for the CONTRACTOR for the acceptable performance, execution, and completion of the work, and for the satisfaction of all obligations incurred.

Surface Course: The finish or wearing course of an asphalt concrete pavement structure.

Title or Headings: The titles or headings or the sections and subsections herein are intended for convenience of reference and shall not be considered as having any bearing on their interpretation.

Township, City, Town or District: A subdivision of the COUNTY used to designate or identify the location of the proposed work.

Traveled Way: The portion of the roadway for the movement of vehicles, exclusive of shoulders and auxiliary lanes.

Utility: Pipelines, conduits, ducts, transmission lines, overhead or underground wires, railroads, storm drains, sanitary sewers, irrigation facilities, street lighting traffic signals, and fire alarm systems, and appurtenances of public utilities and those of private industry, businesses or individuals solely for their own use or use of their customers which are operated or maintained in, on, under, over or across public right-of-way or public or private easement.

Waterworks (Water Supply System): The reservoirs, pipe lines, wells, pumping equipment, purification works, mains, service pipes, and all related appliances and appurtenances utilized in the procurement, transportation and delivery of an adequate, safe, and palatable water supply for the Contracting Agency.

Work: Any or all of the improvements mentioned and authorized to be made, and the construction, demolition, reconstruction, and repair of all or any portion of such improvements, and all labor, services, incidental expenses, and material necessary or incidental thereto.

Working Day: A calendar day, exclusive of Saturdays, Sundays and Contracting Agency recognized legal holidays, on which weather and other conditions not under the control of the CONTRACTOR will permit construction operations to proceed for the major part of the day with the normal working force engaged in performing the controlling item or items of work which would be in progress at that time.

2.2 GENERAL CONTRACT REQUIREMENTS

2.2.1 FAMILIARITY WITH WORK

The CITY has endeavored to ascertain all pertinent information regarding site conditions, and subsurface conditions, and has, to the best of their ability, furnished all such information to the CONTRACTOR. Such information is given, however, as being the best factual information available to the CITY, but is advisory only. The CONTRACTOR, by careful examination, shall satisfy itself as to the nature and location of the work, the character of equipment and facilities needed preliminary to and during the prosecution of the work, the general and local conditions, and all other matters that can in any way affect the work under this Contract.

Bidder shall examine the site of the proposed work and all documents pertaining to the work. It is mutually agreed that the submission of a proposal shall be considered prima facie evidence that the bidder has made such examination and is familiar with the character, quality and quantity of the work to be performed and material to be furnished.

Logs of test hole, ground water levels, and any accompanying soil reports as furnished by the Contracting Agency are furnished for general information only. The field condition so set forth shall not constitute a representation or warranty, expressed or implied, that such conditions are existent. Bidders shall make their own investigations and form their own estimates of the site conditions. After the submission of the proposal, no complaint or claim that there was any misunderstanding as to the quantities, conditions or nature of the work will be entertained.

2.2.2 CHANGED CONDITIONS

The CONTRACTOR shall promptly, and before such conditions are disturbed, except in the event of any emergency, notify the CITY in writing of: (1) Subsurface or latent physical conditions at the site differing materially from those indicated in this Contract; or (2), previously unknown physical or other conditions at the site, of an unusual nature, not generally recognized as inherent in work of the character provided for in this Contract. The ENGINEER shall promptly investigate the conditions, and if he finds that such conditions do so materially differ and cause an increase or decrease in the cost of, or the time required for, performance of this Contract, an equitable adjustment shall be made, and the Contract modified in writing accordingly. Any claim of the CONTRACTOR for adjustment hereunder shall not be allowed unless he has given notice as above required, provided that the ENGINEER may, if he determines the facts so justify, consider and adjust any such claims assessed before the date of final settlement of the Contract. If the parties fail to agree upon the adjustment to be made, the dispute shall be determined as provided in Paragraph 2.2.33 hereof.

2.2.3 ORDER OF COMPLETION

The CONTRACTOR shall submit, at such times as may reasonably be requested by the ENGINEER, schedules which shall show the order in which the CONTRACTOR proposes to carry on the work, with dates at which the CONTRACTOR will start the several parts. The special provisions or plans may require that certain phases or parts of the work be completed first or in a certain order. If the CONTRACTOR elects to use PERT or CPM charts, he shall furnish copies of them to the ENGINEER upon request.

2.2.4 DESIGN AND INSTRUCTIONS

It is agreed that the CITY will be responsible for the adequacy of design and Specifications. The CITY, through the ENGINEER, shall furnish Specifications, which adequately represent the requirements of the work to be performed under the Contract. All such instructions shall be consistent with the Contract Documents and shall be true developments thereof. Specifications that adequately represent the work to be done shall be furnished prior to the time of entering into the Contract. The ENGINEER may, during the life of the Contract, and in accordance with Paragraph 2.2.15, issue additional instructions, by means of drawings or other media, necessary to illustrate changes in the work.

2.2.5 SURVEYS

The CITY has provided a suitable number of benchmarks adjacent to the work. From the information provided by the CITY, the CONTRACTOR shall develop and make all detail surveys needed for construction, such as slope stakes, batter boards, stakes for pile locations, and other working points, lines, and elevations. The CONTRACTOR shall be responsible for any mistakes made in its detailed surveys.

The CONTRACTOR shall carefully preserve benchmarks, reference points and stakes, and in case of willful or careless destruction, he shall be charged with the resulting expense and shall be responsible for any mistakes that may be caused by their necessary loss or disturbance.

2.2.6 CLAIMS

If the CONTRACTOR claims that any instructions by drawings or otherwise, issued after the date of the Contract, involve extra cost under the Contract, he shall give the ENGINEER written notice thereof within ten (10) days, after the receipt of such instruction, and in any event before proceeding to execute the work, except emergency endangering life or property, and the procedure shall then be as provided for changes in the work. No such claim shall be valid unless so made.

2.2.7 EXECUTION AND CORRELATION OF DOCUMENTS

The Agreement shall be signed in duplicate by the CITY and the CONTRACTOR.

The Contract Documents are complimentary and what is called for by anyone shall be as binding as if called for by all. In case of conflict between Drawings and Specifications, the Specifications shall govern. Special Specifications shall govern over Standard Specifications. Materials or work described in words which so applied have a well-known technical or trade meaning shall be held to refer to such recognized standards.

2.2.8 MATERIALS AND APPLIANCES

Unless otherwise stipulated, the CONTRACTOR shall provide and pay for all materials, labor, water, tools, equipment, light, power, transportation and other facilities necessary for the execution and completion of work. The CONTRACTOR shall, if required, furnish satisfactory evidence as to the kind and quality of materials.

2.2.9 EMPLOYEES

The CONTRACTOR shall, at all times, enforce strict discipline and good order among its employees, and shall seek to avoid employing, for the Contract, any unfit person or anyone not skilled in the work assigned to them.

Adequate sanitary facilities shall be provided by the CONTRACTOR.

Employees of the CONTRACTOR and/or any subcontractor working on the project shall not be considered as employees of the City of Evans, nor shall they be entitled to any of the benefits provided to City of Evans employees.

2.2.10 ROYALTIES AND PATENTS

The CONTRACTOR shall pay all applicable royalties and license fees. He shall defend all suits or claims for infringement for any patent rights and save the CITY harmless from loss on accounts thereof, except that the CITY shall be responsible for any such loss when a particular process, design, or the product of a particular manufacturer or manufacturers is specified, unless the CITY has notified the CONTRACTOR prior to the signing of the Contract that the particular process, design, or product is patented or is believed to be patented.

2.2.11 PERMITS, LICENSES AND REGULATIONS

Permits and licenses of a temporary nature, necessary for the prosecution of the work, shall be secured and paid for by the CONTRACTOR. Permits, licenses and easements for permanent structures or permanent changes in existing facilities shall be secured and paid for by the CITY, unless otherwise specified.

The CONTRACTOR shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the work as drawn and specified. If the CONTRACTOR observes that the Specifications are at variance therewith, he shall promptly notify the ENGINEER in writing, and any necessary changes shall be adjusted in the Contract for changes in the work.

2.2.12 INSPECTION OF WORK

All materials and equipment used in the construction of the project shall be subject to adequate testing in accordance with generally accepted standards as required by the Contract Documents.

The CITY shall provide sufficient competent personnel, working under qualified supervision for the inspection of the work, while such work is in progress, to ascertain that the completed work will comply in all respects with the standards and requirements set forth in the Specifications. The inspection of the Contract will be as it relates to the compliance with the Specifications, quality of workmanship, and material. Notwithstanding such inspection, the CONTRACTOR will be held responsible for the acceptability of the work.

The ENGINEER and its representatives shall, at all times, have access to work whenever it is in preparation or progress, and the CONTRACTOR shall provide proper facilities for such access and for inspection.

If the Specifications, the ENGINEER's instructions, laws, ordinances, or any public authority require any work to be specially tested or approved, the CONTRACTOR shall give the ENGINEER timely notice to its readiness for inspection, and if the inspection is by an authority other than the ENGINEER, a date shall be fixed for such an inspection. Inspections by the ENGINEER shall be promptly made, and where applicable, at the source of supply. Any work required by the ENGINEER to be uncovered for examination shall be properly restored at the CONTRACTOR's expense unless the ENGINEER has unreasonably delayed inspection.

Re-examination of any work may be ordered by the ENGINEER, and if so ordered, the work must be uncovered by the CONTRACTOR. If such work is found to be in accordance with the Contract Documents, the CITY shall pay the cost of re-examination. If such work is not in accordance with the Contract Document, the CONTRACTOR shall pay such cost.

2.2.13 SUPERINTENDENTS

The CONTRACTOR shall keep on its work at all times during its progress, competent superintendents and/or responsible assistants. The superintendent shall represent the CONTRACTOR and all directions given to them shall immediately be confirmed in writing to the CONTRACTOR. Superintendent shall be named in writing by CONTRACTOR at the beginning of the work.

2.2.14 PRECONTRACT EXAMINATION AND DISCOVERY OF DISCREPANCIES DURING WORK

Before submitting their proposal, the CONTRACTOR will examine all construction plans and the entire and complete specifications. The CONTRACTOR will become well and fully informed as to the materials and the character of the work required, the relationship of all the particular parts of the work, and he will visit and inspect the site, observing and examining the conditions existing.

After the execution of the Contract, no consideration will be granted for any misunderstanding of the materials to be furnished or the work to be done, it being mutually understood that the tender of the proposal carried with it an agreement to this end and all other conditions mentioned in the Contract and the Specifications, and implied a full and complete understanding of them and all construction plans, drawings, notes, indications, and requirements.

Should anything be omitted from the construction plans or specifications necessary to the proper completion of the work herein described, it shall be the duty of the CONTRACTOR to so notify the CITY before signing the Contract, and in the event of failure of the CONTRACTOR to give such notice, they shall make good any damage or defect in its work caused thereby without extra charge. No allowance will be made for lack of full knowledge of all conditions, except such underground conditions as are determined after commencement of the work and were unknown to the CONTRACTOR.

If the CONTRACTOR, in the course of the work, finds any discrepancy between the Specifications and the physical conditions of the locality, or any errors or omissions in the layout as given by survey points and instruction, he shall immediately inform the ENGINEER, in writing, and the ENGINEER shall promptly verify the same. Any work done after such discovery, until authorized, will be done at the CONTRACTOR's risk, except in the event of an emergency.

2.2.15 CHANGES IN THE WORK

At any time by written order, the CITY may make changes in the Specifications or scheduling of the Contract within the general scope. All such work shall be executed under the time constraints of the original contract except that any claim for extension of time caused thereby shall be allowed and adjusted at the time of ordering such change or at such time as it can be ascertained.

In giving instruction, the ENGINEER shall have authority to make minor changes in the work not involving extra cost, and not inconsistent with the purpose of the work. Except in an emergency endangering life and property, no claim for an addition to the contract sum shall be valid unless

the additional work was so ordered by the ENGINEER.

The CONTRACTOR shall proceed with the work as changed and the value of any such work or change shall be determined as provided for in the Agreement herein.

The CITY may at any time, as the need arises, order changes within the scope of the work without invalidating the Agreement. If such changes increase or decrease the amount due under the Contract Documents, or in the time required for performance of the work, the CONTRACTOR shall perform the same at the unit prices or lump sum indicated in the bid. Changes may occur to a maximum of twenty-five percent (25%) of the contract price. After exceeding twenty-five percent (25%), the applicable unit price or lump sum may be negotiable, and an equitable adjustment shall be authorized by change order.

2.2.16 EXTENSION OF TIME

- A. Extension of time stipulated in the Contract for completion of the work will be made when changes in the work occur, as provided in Paragraph 2.2.15; when the work is suspended as provided in Paragraph 2.2.17; and when the work of the CONTRACTOR is delayed on account of conditions which could not have been foreseen, or which were beyond the control of the CONTRACTOR, their subcontractors or suppliers, and which were not the result of their fault or negligence.

Extension of time for completion shall also be allowed for any delays in the progress of the work that in the opinion of the ENGINEER entitles the CONTRACTOR to an extension of time.

- B. The CONTRACTOR shall notify the ENGINEER promptly of any occurrence or condition which in the CONTRACTOR's opinion entitles them to an extension of time. Such notice shall be in writing and shall be submitted in ample time to permit full investigation and evaluation of the CONTRACTOR's claim. Failure to provide such notice shall constitute a waiver by the CONTRACTOR of any claim.

2.2.17 SUSPENSION OF WORK

The CITY may at any time suspend the work, or any part thereof, by giving three (3) days' notice to the CONTRACTOR in writing.

2.2.18 THE CITY'S RIGHT TO TERMINATE CONTRACT

If the CONTRACTOR should be adjudged bankrupt, or if they should make a general assignment for the benefit of their creditors, or if a receiver should be appointed as a result of their insolvency, or if he should persistently or repeatedly refuse or should fail, except for cases in which extensions of time are provided, to supply enough properly-skilled workmen or materials, or if he should fail to make payments to subcontractors or for materials or labor so as to affect the progress of the work or persistently be guilty of a substantial violation of the Contract, then the CITY, upon written notice from the ENGINEER that sufficient cause exists to justify such action and without prejudice to any other right or remedy, and after giving the CONTRACTOR and its Surety seven (7) days' written notice, terminate the employment of the CONTRACTOR and take possession of the premises and of all materials, tools, equipment and other facilities installed on the work and paid for by the CITY, and finish the work by whatever method the ENGINEER may be deem expedient. In such case, the CONTRACTOR shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the contract price shall exceed the expense of finishing the work, including compensation for additional managerial and administrative services, such excess shall be paid to the CONTRACTOR. If such expense shall exceed such unpaid balance, the CONTRACTOR shall pay the difference to the CITY. The expense incurred by the CITY as herein provided, and the damage incurred through the CONTRACTOR's default, shall be certified by the ENGINEER.

Where the Contract has been terminated by the CITY, said termination shall not affect or terminate any of the rights of the CITY then existing or which may thereafter accrue because of such default as against the CONTRACTOR or their Surety. Any retention or payment of moneys by the CITY due to the CONTRACTOR under the terms of the Contract, shall not release the CONTRACTOR or their Surety from liability for the CONTRACTOR's default.

2.2.19 CONTRACTOR'S RIGHT TO STOP WORK OR TERMINATE CONTRACT

If the work should be stopped under an order of any court, or other public authority, for a period of more than three (3) months, through no act or fault of the CONTRACTOR, the CITY will pay an amount not to exceed 50% of an undisputed sum within forty-five (45) days of its maturity and presentation, then the CONTRACTOR may, upon seven (7) days' written notice to the ENGINEER, stop work or terminate this Contract and recover from the CITY payment for all work executed, plus any loss sustained upon any plant or materials, plus reasonable profit and damages.

2.2.20 CANCELLATION OF CONTRACT

Failure of the CONTRACTOR to comply with any of the requirements of the Contract and the Specifications may be considered as evidence of the inability on the part of the CONTRACTOR to maintain the quality and service standards deemed necessary and shall be sufficient cause for the cancellation of the Agreement and the initiating of legal action against the Performance Bond of the CONTRACTOR.

2.2.21 CORRECTION OF WORK BEFORE FINAL PAYMENT

The CONTRACTOR shall promptly remove from the premises all materials and work condemned by the ENGINEER as failing to meet contract requirements, whether incorporated in the work or not, and the CONTRACTOR shall promptly replace and re-execute its own work in accordance with the Contract and without expense to the CITY and shall bear the expense of making good all work of other CONTRACTORS destroyed or damaged by such removal or replacement.

All removal and replacement work shall be done at the CONTRACTOR's expense. If the CONTRACTOR does not take action to remove such condemned work and materials within ten (10) days after written notice, the CITY may remove them and store the material at the expense of the CONTRACTOR. If the CONTRACTOR does not pay the expense of such removal and storage within ten (10) days' time thereafter, the CITY may, upon ten (10) days' written notice, sell such materials at auction or at private sale and shall pay the CONTRACTOR any net proceeds thereof, after deducting all costs and expenses that should have been borne by the CONTRACTOR.

2.2.22 REMOVAL OF EQUIPMENT

In the case of termination of this Contract before completion for whatever cause, the CONTRACTOR, if notified to do so by the CITY, shall promptly remove any part or all of its equipment and supplies from the property of the CITY, failing which, the CITY shall have the right to exercise control over and to remove such equipment and supplies at the expense of, and without recourse, by the CONTRACTOR.

2.2.23 RESPONSIBILITY FOR WORK

The CONTRACTOR assumes full responsibility for the work. Until final acceptance, the CONTRACTOR shall be responsible for damage to or destruction of the work, except for any part covered by partial acceptance as set forth in Paragraph 2.2.24 and except such damage or destruction that is caused by the negligent or willful acts of the CITY.

2.2.24 PARTIAL COMPLETION AND ACCEPTANCE

If at any time prior to the issuance of the final certificate, referred to in Paragraph 2.2.34 hereinafter, any portion of the permanent construction has been satisfactorily completed to the ENGINEER's satisfaction, and if the ENGINEER determines that such portion of the permanent construction is not required for the operations of the CONTRACTOR, but is needed by the CITY, the ENGINEER shall issue to the CONTRACTOR a Certificate of Partial Completion, and thereupon or at any time thereafter, the CITY may take over and use the portion of the permanent construction described in such certificate.

The issuance of a Certificate of Partial Completion shall not be construed to constitute an extension of the CONTRACTOR's time to complete the portion of the permanent construction to which it relates, if he fails to complete it in accordance with the terms of this Contract. The issuance of such a certificate shall not operate to release the CONTRACTOR or their Sureties from any obligations under this Contract or the Performance Bond.

If such prior use increases the cost of or delays the work, the CONTRACTOR shall be entitled to extra compensation, or extension of time, or both, as the ENGINEER may determine, unless otherwise provided.

2.2.25 PAYMENT WITHHELD PRIOR TO FINAL ACCEPTANCE OF WORK

As a result of subsequently discovered evidence, the CITY may withhold or nullify the whole or part of any certificate of payment to such extent as may be necessary to protect itself from loss occasioned by:

- A. Defective work not remedied by the CONTRACTOR
- B. Claims filed or reasonable evidence indicating probable filing of claims by other parties against the CONTRACTOR for work done on the project

- C. Failure of the CONTRACTOR to make payments properly to subcontractors or for material or labor
- D. Damage by the CONTRACTOR to subcontractors or to another contractor

When the above grounds are removed, or the CONTRACTOR provides Surety Bond satisfactory to the CITY that will protect the CITY in the amount withheld, payment shall be made for amounts withheld because of them. No moneys may be withheld under (b) and (c) if a Payment Bond is included in the Contract.

2.2.26 CONTRACTOR'S INSURANCE AND INDEMNIFICATION

The CONTRACTOR shall secure and maintain such insurance policies as will protect itself, its subcontractors, and City of Evans, its employees and agents, from claims for bodily injuries, death, or property damage, which may arise from operations under this Contract, whether such operations be by itself or by any subcontractor or anyone employed by them directly or indirectly. The following insurance policies are required and must be evidenced by Certificates of Insurance:

- A. Statutory Workers' Compensation
- B. Commercial General Liability

| | |
|----------------------------------|-------------|
| General Aggregate | \$2,000,000 |
| Products/ | \$2,000,000 |
| (Completed Operations Aggregate) | |
| Each Occurrence | \$1,000,000 |
| Personal & Advertising Injury | \$1,000,000 |
| Fire Damage | \$ 50,000 |
| Medical Expense | \$ 5,000 |
- C. Automobile Liability

| | |
|-----------------------------------|--------------|
| Bodily Injury and Property Damage | \$ 1,000,000 |
| (Combined Single Limit) | |
- D. Builders Risk/Installation Floater Full Replacement Cost

Be written on a Builder's Risk "All-Risk" or on Peril or Special Causes of Loss policy form that shall at least include insurance for physical loss and damage to the Work, temporary buildings, false work, and Work in transit and shall insure against at least the following perils: fire, lightning, extended coverage, theft, vandalism and malicious mischief, collapse, debris removal, demolition occasioned by enforcement of laws and regulations, water damage.

Certificates of Insurance must show "City of Evans, its employees and agents" as an Additional Insured.

All policies shall be for not less than the amount set forth above or as stated in the Special Conditions. Other forms of insurance shall also be provided if called for by the Special

Conditions.

All Certificates of Insurance must be filed with the ENGINEER along with the Performance and Payment Bonds and shall be subject to their approval as to adequacy of protection, within the requirements as stated herein. Said Certificates of Insurance shall contain a thirty (30) days' written notice of cancellation in favor of the CITY.

The CITY cannot and by this Agreement does not agree to indemnify, hold harmless, exonerate or assume the defense of the CONTRACTOR or any other person or entity whatsoever, for any purpose whatsoever. To the extent allowable under C.R.S. Section 13-50.5-102(8), the CONTRACTOR shall defend, indemnify and hold harmless the CITY, its mayor and City council, officials, officers, directors, agents and employees from any and all claims, demands, suits, actions or proceedings of any kind or nature whatsoever, including worker's compensation claims, to the extent resulting from the fault of, or negligent services rendered by the CONTRACTOR, its employees, agents or subconsultants, or others for whom the CONTRACTOR is legally liable, under this Agreement; provided, however, that the CONTRACTOR need not indemnify or save harmless the CITY, its mayor and City council, its officers, agents and employees from damages resulting from the sole negligence of the City's mayor and City council, officials, officers, directors, agents and employees."

All insurance and bonding companies providing coverage or surety under this contract shall have a Best Insurance Rating of "A" or better.

2.2.27 SURETY BONDS

The CITY shall have the right, prior to the signing of the Contract, to require the CONTRACTOR to furnish Payment and Performance Bonds in such form as the CITY may prescribe in the bidding documents and executed by one or more financially responsible Sureties licensed to do business in the State of Colorado. The premiums for said Bonds shall be paid by the CONTRACTOR. Such Bonds shall cover the entire Contract amount, regardless of changes therein, shall remain in full effect for a period of one year from the date of issuance of a Certificate of Completion, and shall be filed with the ENGINEER prior to the commencement of any work on the project.

2.2.28 CONTRACTOR'S INSURANCE

The CONTRACTOR shall secure and maintain insurance to one hundred percent (100%) of the insurable value of the entire work in the Contract and any structures attached or adjacent thereto against fire, earthquake, flood, and other perils as he may deem necessary and shall name the CITY and subcontractors as Additional Insured.

All insurance and bonding companies providing coverage or surety under this contract shall have a Best Insurance rating of "A" or better.

2.2.29 ASSIGNMENT

Neither party to the Contract shall assign the Contract or sublet it as a whole without the written consent of the other and its Surety, nor shall the CONTRACTOR assign any moneys due or to become due to them hereunder, except to a bank or financial institution acceptable to the CITY.

2.2.30 RIGHTS OF VARIOUS INTERESTS

Wherever work being done by the CITY's forces, utility companies, or by other CONTRACTOR's forces is contiguous to work covered by this Contract, the respective rights of the various interest invoiced shall be established by the ENGINEER, to secure the completion of the various portions of the work in general harmony.

- A. Before issuance of final payment, the CONTRACTOR, if required in the Special Conditions, shall certify in writing to the ENGINEER that all payrolls, material bills, and other indebtedness connected with the work, have been paid or otherwise satisfied. If the Contract does not include a payment Bond the CONTRACTOR may submit, in lieu of certification of payment, a Surety Bond in the amount of the disputed indebtedness or liens, guaranteeing payment of all such disputed amounts, including all related costs and interest in connection with said disputed indebtedness or liens, which the CITY may be compelled to pay upon adjudication.
- B. The making and acceptance of the final payment shall constitute a waiver of all claims by the CITY, other than those arising from unsettled liens, from faulty work appearing within the guarantee period, provided in the Special Conditions, from the requirements of the Drawings and Specifications, or from manufacturer's guarantees. It shall also constitute a waiver of all claims by the CONTRACTOR, except those previously made and still unsettled.
- C. If after the work has been substantially completed, full completion thereof is materially delayed through no fault of the CONTRACTOR, and the ENGINEER so certifies, the CITY shall, upon certificate of the ENGINEER, and without terminating the Contract, make payment of the balance due for that portion of the work fully and completed and accepted. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.
- D. If the CITY fails to make payment as herein provided, there shall be added to each payment daily interest at the rate of six percent (6%) per annum commencing on the first day after said payment is due and continuing until the payment is delivered or mailed to the CONTRACTOR.

2.2.31 ENGINEER'S STATUS

The ENGINEER shall perform technical inspection of the work. He has authority to stop the work whenever such stoppage may be necessary to insure the proper execution of the Contract. He shall also have authority to reject all work and materials which do not conform to the Contract and to decide questions which arise in the execution of the work.

2.2.32 ENGINEER'S DECISIONS

The ENGINEER shall, within a reasonable time after their presentation to them, make decisions in writing on all claims of the CONTRACTOR and on all other matters relating to the execution and progress of the work or the interpretation of the Contract Documents.

2.2.33 ARBITRATION

Any controversy or claim arising out of or relating to this Contract, or the breach thereof, which cannot be resolved by mutual agreement, shall be settled by arbitration in accordance with the Rules of the American Arbitration Association, and judgment upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.

2.2.34 ACCEPTANCE AND FINAL PAYMENT

Upon receipt of written notice that the work is substantially complete or ready for final inspection and acceptance, the ENGINEER will promptly make such inspection and when he finds the work acceptable under the Contract and the Contract fully performed or substantially completed, they shall promptly issue a certificate, over their own signature, stating that the work required by this Contract has been substantially completed and is accepted by them under the terms and conditions thereof, and the entire balance found to be due the CONTRACTOR, including the retained percentage, unless a retention based on the ENGINEER's estimate of the fair value of the claims against the CONTRACTOR and the cost of completing the uncompleted or unsatisfactory items of work with specified amounts for each incomplete or defective item of work, is due and payable. No final payment shall be made by the CITY unless and until the CONTRACTOR has certified in writing to the ENGINEER that all payroll, material bills, and other indebtedness connected with the work have been paid or otherwise satisfied.

The CONTRACTOR shall cause appropriate provisions to be inserted in all subcontracts relative to the project to bind the subcontractors to the CONTRACTOR by the terms of the Contract Documents, and to give the CONTRACTOR the same power as regard to terminating any subcontract that the CITY may exercise over the CONTRACTOR under any provision of the Contract Documents.

Nothing contained in this Agreement shall create any contractual relationship between any subcontractor and the CITY.

Subcontracts, or transfer of Contract, shall not release the CONTRACTOR of its liability under the Contract and Bonds.

2.2.35 LIQUIDATED DAMAGES

The CONTRACTOR agrees that he can and will complete the project within the prescribed time limit as stated in Article 1.5.9 (Notice to Proceed) and within the time as may be extended. In the event the CONTRACTOR fails to complete the work within the allotted time limit, the following liquidated damages will be applied:

| From More Than | Original Contract Amount to And Including | Daily Charge |
|----------------|--|--------------|
| \$ 0 | \$ 25,000 | \$ 85 |
| 25,000 | 50,000 | 140 |
| 50,000 | 100,000 | 205 |
| 100,000 | 500,000 | 280 |
| 500,000 | 1,000,000 | 420 |
| 1,000,000 | 2,000,000 | 560 |
| 2,000,000 | 4,000,000 | 840 |
| 4,000,000 | 8,000,000 | 1,120 |

8,000,000

10,000,000

1,400

These rates will be assessed per calendar day for each day which the CONTRACTOR fails to finish the work in excess of the time period allotted. The parties agree that the liquidated damages, as stated herein, are not a penalty and are reasonable, given the expected harm from a delay in completion, the difficulty of proving actual loss, and the inadequacy of any other remedy.

2.2.36 ADVANCE NOTICE

It shall be the responsibility of the CONTRACTOR to notify the ENGINEER or inspector sufficiently in advance of its operations to enable the ENGINEER or inspector to set the required control stakes and marks.

In order to assure proper availability of construction supervision or other personnel from the ENGINEER's staff, the following notices will be required as minimums:

- A. One (1) week notice for major additions or modifications to construction staking.
- B. Two (2) working days' notice for all staking except for emergencies.
- C. Two (2) days' written notice shall be delivered to the ENGINEER or inspector prior to any work done on Saturday, Sunday, nights, and legal holidays.

The failure of the CONTRACTOR to provide minimum notices will not be considered for time extensions or extra compensations.

2.2.37 WORK DONE WITHOUT LINES OR GRADES

Any work done without having been properly located and established as determined by the Engineer may be ordered removed and replaced at the CONTRACTOR's expense.

2.2.38 TAXES

Except as may be otherwise provided in this Contract, the contract price is to include all applicable taxes, but does not include any tax from which the CITY and the Contractor are exempt. Upon request by the CONTRACTOR, the CITY shall furnish a tax exemption certificate or similar evidence of exemption with respect to any such tax not included in the contract price, pursuant to this provision.

2.3 LEGAL RELATIONS & RESPONSIBILITIES TO PUBLIC

2.3.1 LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

Laws and Regulations: The CONTRACTOR shall keep itself fully informed of all city and county ordinances and regulations, and state and federal laws which in any manner affect the work herein specified. He shall, at all times, observe and comply with said ordinances, regulations, or laws, caused by the negligent actions of the CONTRACTOR, its agent, or employees.

2.3.2 PROJECT SAFETY

The CONTRACTOR is solely responsible for and shall take reasonable precautions in the performance of the work under this Contract to protect all persons from hazards to life and property. The CONTRACTOR shall comply with all health, safety and fire protection regulations and requirements.

2.3.3 PROTECTION OF THE PUBLIC AND OF WORK AND PROPERTY

The CONTRACTOR shall provide and maintain all necessary watchmen, barricades, warning lights, and signs in accordance with the Manual of Uniform Traffic Control Devices and take all reasonable precautions for the protection and safety of the public. He shall continuously maintain reasonable protection of all work from damage, and shall take all reasonable precautions to protect the CITY's property from injury or loss arising in connection with this Contract. Streets and highways shall be kept free of dirt and litter from CONTRACTOR's handling operations. The CONTRACTOR shall take reasonable precautions to protect private property adjacent to the project from such nuisances as dust and dirt, rock, and excessive noise. They shall make good any damage, injury or loss to their work and to the property owner resulting from lack of reasonable protective precautions, except such as may be due to errors in the Contract Documents or caused by agents of adjacent private and public property, as provided by law and the Contract Documents.

2.3.4 EQUAL OPPORTUNITY

During the performance of this contract, the contractor agrees as follows:

- A. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- B. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.
- C. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- D. The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

- E. The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- F. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- G. The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, That in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the contractor may request the United States to enter into such litigation to protect the interests of the United States."

2.4 MATERIALS & WORKMANSHIP

2.4.1 GUARANTEES

The CONTRACTOR shall guarantee its work against defective materials or workmanship for a period of two (2) years from the date of initial acceptance.

Contractor warrants and guarantees to the CITY that all equipment and materials furnished under this Contract are free from all defects in workmanship and materials.

Contractor shall remove from the project area all work or materials rejected by the CITY or its inspector for failure to comply with the Contract Documents, whether incorporated in the construction or not. The CONTRACTOR shall promptly replace the materials or re-execute the work in accordance the Contract Documents and without expense to the CITY which are or become defective due to such defects within two (2) years after the date of receipt by the CITY. The CONTRACTOR shall also bear the expense of making good all work of other contractors destroyed or damaged by such removal or replacement.

2.4.2 WARRANTIES

The CONTRACTOR shall guarantee its work against defective materials and workmanship for a period of two (2) years from the date of initial acceptance.

2.5 MEASUREMENT & PAYMENT

2.5.1 PAYMENT

Partial payment under the Contract shall be made at the request of the CONTRACTOR once each month, based upon partial estimates to be furnished by the CONTRACTOR and approved by the CONTRACTOR once each month, based upon partial estimates to be furnished by the CONTRACTOR and approved by the ENGINEER or inspector. In making such partial payment, there shall be retained five percent (5%) of the estimated amounts until final completion and acceptance of all work covered by the Contract.

In preparing estimates for partial payments, the material delivered on the site and preparatory work done may be taken into consideration.

Payments for work under subcontracts of the CONTRACTOR shall be subject to the above conditions applying to the contract after the work under a subcontract has been fifty percent (50%) completed. In preparing estimates for partial payments, the material delivered on the site and preparatory work done may be taken into consideration.

Should the CONTRACTOR fail to proceed properly and in accordance with the Guarantee, the CITY may have such work performed at the expense of the CONTRACTOR.

2.5.2 PAY QUANTITIES

The CONTRACTOR shall be paid on a unit price basis as indicated by the proposal for the actual quantities installed.

2.6 SCOPE OF WORK

2.6.1 CHANGES IN THE WORK

At any time by written order, the CITY may make changes in the Drawings and Specifications or scheduling of the Contract within the general scope. All such work shall be executed under the time constraints of the original Contract, except that any claim for extension of time caused thereby shall be allowed and adjusted at the time of ordering such change or at such time as it can be ascertained.

- A. Unit prices previously approved,
- B. An agreed lump sum,
- C. The actual cost of labor, direct overhead, materials, supplies, equipment and other services necessary to complete the work. In addition, there shall be added on an amount to be agreed upon, but not to exceed fifteen percent (15%) of the actual cost of the work, to cover the cost of general overhead and profit.

2.6.2 SUBLETTING OF CONTRACT

The CONTRACTOR shall not sublet, sell, transfer, assign, or otherwise dispose of the Contract, or of their rights, title, or interest therein, without written consent of the CITY. The CONTRACTOR may utilize the services of specialty subcontractors on those parts of the project which, under normal contraction practices, are performed by specialty subcontractors.

The CONTRACTOR shall not award work to subcontractors in excess of fifty percent (50%) of the contract price without prior written approval of the CITY.

The CONTRACTOR shall be as fully responsible to the CITY for the acts and omissions of their subcontractors and of persons directly or indirectly employed by them, as they are for the acts and omissions of persons directly employed by them.

2.6.3 SEPARATE CONTRACTS

The CITY reserves the right to let other contracts in connection with this project. The CONTRACTOR shall afford other contractors reasonable opportunity for the introduction and storage of their materials and the execution of their work and shall properly connect and coordinate its work with theirs. If the proper execution or results of any part of the CONTRACTOR's work depends upon the work of any other contractor, the CONTRACTOR shall inspect and promptly report to the ENGINEER any defects in such work that render it unsuitable for such proper execution and results.

2.6.4 SUBCONTRACTS

The CONTRACTOR shall, as soon as practicable after signing the Contract, but in any event prior to the performance of any work by any subcontractor, notify the CITY, in writing, of the names of the subcontractors proposed for the work, designating the portions of work to be performed by each.

The CONTRACTOR agrees that they are as fully responsible to the CITY for the acts and omissions of their subcontractors and of persons either directly or indirectly employed by them, as they are for the acts and omissions of persons directly employed by them.

Nothing contained in the Contract Documents shall create any contractual relation between any subcontractor and the CITY.

2.6.5 UNDERGROUND OBSTRUCTIONS

The CONTRACTOR shall anticipate all underground obstructions, such as water lines, gas lines, sewer lines, concrete, debris, and all other types of utility lines. No extra payment will be allowed for the removal, protection, replacement, repair or possible increased cost caused by underground obstruction. Any such lines or obstructions indicated on the Drawings show only the approximate location from the information available and must be verified in the field by the CONTRACTOR. The ENGINEER will endeavor to familiarize the CONTRACTOR with all underground utilities and obstructions, but this will not relieve the CONTRACTOR from full responsibility for anticipating all underground obstructions.

In accordance with C.R.S. Section 9-1.5-103 (1973), the CONTRACTOR shall not make or begin excavation without first notifying the owners, operators or association of owners and operators having underground facilities in the area of such excavation. Notice may be given in person, by telephone, or in writing and shall be given at least two business days prior to beginning work.

The CONTRACTOR shall protect the existing utilities in a manner as requested by the respective utility owners at no extra compensation. The CONTRACTOR, by their signature on this proposal and subsequently on the Agreement, agrees to hold City of Evans, the agencies thereof, and their officers and employees, harmless from any and all losses, damages or claims which may arise out of, or be connected with, construction performed where said utilities are located.

Should it be necessary to relocate utilities in the area of construction, the CITY, at its own expense, will coordinate these relocations with the utility owner and the CONTRACTOR.

2.6.6 EMERGENCY WORK

In an emergency affecting the safety of life or of the work or of adjoining property, the CONTRACTOR is, without special instructions or authorization from the ENGINEER, hereby permitted to act at its discretion to prevent such threatening loss or injury. He shall also act, without appeal, if so authorized or instructed by the ENGINEER. Any compensation claimed by the CONTRACTOR as a result of emergency work, shall be determined by agreement or in accordance with Article 2.2.33.

2.6.7 CLEANING UP

The CONTRACTOR shall remove, at their own expense, from the CITY's property and from all public and private property, all temporary structures, rubbish and waste materials resulting from their operations. This requirement shall not apply to property used for permanent disposal of rubbish or waste materials in accordance with permission of such disposal granted to the CONTRACTOR by the CITY thereof where such disposal is in accordance with local ordinances and is approved by the ENGINEER.

ARTICLE 3.0
SPECIAL CONDITIONS
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3.1 GOVERNING DOCUMENTS

The governing documents for this Work are as follows:

- Contract Documents Articles 1.0 through 3.0
- Construction Drawings, “Non-Potable Waterline Replacement”;
- The City of Evans, “Design and Construction Standards and Specifications”, dated August 2019.

In the case of conflict, documents shall have the following priorities: (1) Contract Documents Articles 1.0 through 3.0, (2) Article 4.0 – Standard Special Provisions and Project Specials, (3) Construction Drawings, and (4) City of Evans “Design and Construction Standards and Specifications”, August 2019.

For all traffic control situations, the “Manual on Uniform Traffic Control Devices”, Current Edition, shall be used.

3.2 DESCRIPTION OF WORK

The Non-Potable Waterline Replacement project will remove the old 30-inch and 24-inch corrugated metal pipe (CMP) along 42nd Street between Belmont Avenue and Burlington Avenue that has collapsed and replace with a new 24-inch reinforced concrete pipe (RCP) to convey the Evans Town Ditch flows. Work for this project includes a stainless steel overshot gate and removal of a concrete diversion structure.

3.3 GENERAL

It is the intent of these Special Conditions to require a functionally complete project (or part thereof) to be constructed in accordance, and in conjunction with, all Contract Documents as defined within Article 1.0 – Contracting Procedures and Article 2.0 – General Conditions. Any work, materials, or equipment that may be reasonably inferred, as being required to produce the intended result will be provided whether or not specifically called for. When words, which have a well-known technical or trade meaning, are used to describe work, materials, or equipment, such words shall be interpreted in accordance with that meaning.

Use of these Special Conditions in conjunction with related Contract Documents to establish the total requirements of the project. The CONTRACTOR shall obtain all required documents and have them available during the execution of work. Exceptions, additions and/or modifications to the referenced documents are noted as follows:

3.4 TECHNICAL SPECIFICATIONS

The technical specifications for the work are as referenced from the City of Evans “Design and Construction Standards and Specifications”, August 2019. The CONTRACTOR shall obtain this document and have it available during the execution of the work. Exceptions and/or modifications to the referenced document will be noted.

3.5 CONTRACT DRAWINGS AND VICINITY MAPS

The contract drawings for this project include vicinity maps for each location where work will be performed to complete the project.

3.6 PERMITS

Permits necessary for the prosecution of the work will be required for City projects, however, the CITY will waive the filing fee. CONTRACTOR must be a licensed contractor and have a City of Evans business license to work in the public right-of-way. All State of Colorado permits that may be required, depending on the project work being performed, are the responsibility of the

CONTRACTOR. The Department of Public Works shall be notified before the planned construction is to commence and also before starting up after construction is delayed for any reason.

3.7 SALES TAX

Sales Tax shall not be paid for materials purchased for use on this project.

3.8 PROJECT TIME, SCHEDULE AND SEQUENCE

It is the intent of the CITY to award this project as soon as possible after receiving bids. The CONTRACTOR shall commence and complete work in accordance with the Agreement within Article 1.0 – Contracting Procedures.

At the pre-construction conference the CONTRACTOR shall submit and update a construction schedule which clearly outlines the work sequence. This schedule will be reviewed by the CITY, and when requested, the CONTRACTOR shall revise their work sequence to better suit job conditions. The CONTRACTOR shall comply with the requirements of Section 4 of the City of Evans “Specification for Street Design and Construction”.

It is the CONTRACTOR’s responsibility to complete this project within the prescribed time as stated in Article 1.0 – Contracting Procedures. A daily charge will be made against the Contractor for each calendar day that any work shall remain uncompleted after elapse of contract time. This daily charge will be deducted from any money due the Contractor. This deduction will not be considered as a penalty but as liquidated damages. The liquidated damages for this project will be as stated in Article 2.0 - General Conditions, Section 2.2.35.

3.9 WORKING HOURS

The CONTRACTOR shall restrict working hours to between 7:00 A.M. and 7:00 P.M. on normal City of Evans business days unless otherwise approved by the City of Evans Project Manager. No work shall be performed on arterial or collector streets before 8:30 a.m. or after 3:30 p.m., unless otherwise approved by the City of Evans Project Manager. There shall be no work allowed on Saturdays, Sundays or Holidays unless approved, in writing, by the City Project Manager.

Costs incurred by the City to inspect work performed outside of these hours will be deducted from progress payments to the Contractor. Inspector overtime costs are approximately \$45/hour.

3.10 PROJECT COORDINATION

The CONTRACTOR is responsible for contacting and coordinating with all project affected stakeholders. These affected stakeholders may include but are not limited to:

- A. Property Owners
- B. Utility Companies (listing of possible companies can be obtained from the City)
- C. Evans Police Department
- D. Evans Fire Protection District
- E. Weld County Sheriffs Department
- F. Weld County Ambulance
- G. Greeley-Evans School District 6
- H. City of Greeley

The CONTRACTOR shall contact all appropriate utility companies to notify them of construction, to verify location of utilities in the construction area, and to coordinate utility company relocation, adjustment or installation work with the CONTRACTOR. The locations of utilities shown on the

drawings are approximate. It is the responsibilities of the CONTRACTOR to field verify locations of utilities prior to initiating construction and to comply with the requirements of Section 1.02.10, of the City of Evans "Design and Construction Standards and Specifications". The City of Evans will not be responsible for any construction down time due to failure on the Contractors part to notify utility companies.

In addition, any street closures must be properly coordinated with any and all the affected stakeholders listed above. Proper traffic control measures per an approved Traffic Control Plan will be implemented – All anticipated closure times shall be approved by the CITY.

The CONTRACTOR is required to post on all properties adjacent to construction a notification pamphlet forty-eight (48) hours prior to commencement of work. The pamphlets shall only be delivered between the hours of 8:00 a.m. and 5:00 p.m. When delivering the pamphlets the Contractor shall make an effort to make personal contact with the resident or business to advise them what will be taking place on their street. If there is a delay due to weather, equipment and/or other causes, the Contractor shall post on all properties a re-notification pamphlet twenty-four (24) hours prior to commencement of work.

3.11 CONSTRUCTION SURVEY

The CONTRACTOR shall provide the construction survey staking for the project in accordance with Section 1.03.03, Paragraph G of the "Design and Construction Standards and Specifications". Construction survey and staking is considered incidental to the work, and no separate payment shall be made.

3.12 PROJECT WARRANTY

The CONTRACTOR shall provide a two (2) year warranty for all construction beginning on the date of initial acceptance. All work that fails or deteriorates during the first or second year shall be replaced under this warranty. There will be no additional cost to the CITY for material, equipment, labor and/or traffic control for warranty work. Warranty work shall be completed in accordance with these contract specifications within thirty (30) days of written notification by the CITY.

3.13 PRE-CONSTRUCTION MEETING

The CONTRACTOR shall attend a pre-construction meeting after award of the contract. At the pre-construction meeting, the CONTRACTOR shall submit to the CITY:

- A. Pert or Gantt Chart of Construction Schedule
- B. Materials Supplier List
- C. Subcontractors List
- D. Concrete Mix Design
- E. Traffic Control Plan (approved by the City of Evans)
- F. Certificates of Insurance

3.14 PROJECT MANAGER

The Project Manager designated at the pre-construction meeting by the Contractor will be responsible for the handling of all requests for information or complaints concerning the contract. A local telephone number will be established two weeks prior to commencement of construction. The Project Manager will respond to all requests within four hours. A log of all requests shall be kept and shall include name, telephone number, address, nature of request and response to such.

3.15 JOB FOREMAN

The Job Foreman designated at the pre-construction meeting shall be on the work site during all construction. If the Foreman is unable to be on the job site, then a designee will be assigned with the authority to make all required decisions.

3.16 MATERIALS, MANUFACTURER'S CERTIFICATES & RECOMMENDATIONS

Shop Drawings, samples and product data are required, by these specifications, on the following items before confirmation of orders:

- A. Reinforced Concrete Pipe
- B. Overshot Gate and Appurtenances
- C. Tracer Wire
- D. Seed Mix

Certifications by the manufacturer that the material or equipment conforms to all applicable requirements shall be submitted. These certifications shall reference the standard specifications with which compliance is required.

3.17 LOAD RESTRICTIONS

Truck load restrictions shall comply with Section 105.13, 105.14 and 105.15 of the Colorado Department of Transportation Standard Specifications for Road and Bridge Construction, current edition.

The Contractor shall keep fully informed of and comply with all Federal, State and local laws, ordinances, and regulations and all orders and decrees of bodies of tribunal having any jurisdiction or authority, which may affect the conduct of the work.

The Contractor will supply the City Project Manager with the axle load limits for the trucks he plans to use on this project.

3.18 CONSTRUCTION WATER

Construction water shall consist of providing a water supply sufficient for the needs of the project and the hauling and applying of all water required. The CONTRACTOR SHALL NOT use water from local residences for construction purposes or to provide water to laborers.

The CONTRACTOR is encouraged to use water obtained from the Evans Ditch whenever possible. Contact the City of Evans Public Works Department to arrange for use of Evans Ditch water. Evans Ditch water may not be available at the time of construction.

The CONTRACTOR shall make arrangements for and provide all necessary water for his/her construction operation and domestic use at his/her own expense. The CONTRACTOR shall secure permission from the water utility and notify the ENGINEER and Fire Department/District before obtaining water from fire hydrants.

If the CONTRACTOR purchases water from a water utility at a fire hydrant on or near the project, all arrangements shall be made at his/her own expense and payment made direct to the water utility as agreed upon. The CONTRACTOR shall follow all rules and regulations of the respective district. Use only special hydrant-operating wrenches to open hydrants. Make certain that the hydrant valve is open "full" since cracking the valve causes damaged to the hydrant. If any hydrants are damaged, the CONTRACTOR will be held responsible and shall immediately notify the appropriate agencies so that all damages can be repaired as quickly as possible. Fire hydrants shall be completely accessible to the Fire Department/District at all times.

3.19 SANITATION FACILITIES

The CONTRACTOR shall meet all applicable requirements of OSHA, state and other governing agencies pertaining to sanitary facilities for workers. The CONTRACTOR shall provide chemical toilets of a suitable type and number and shall maintain the facilities in a sanitary condition at all times. The chemical toilets shall be of water-tight construction so that no contamination of the area can result from their use. Upon completion of the work, the sanitary facilities shall be removed, and the area restored to its original condition. Providing sanitary facilities is considered incidental to the work, and no separate payment shall be made.

3.20 REMOVALS

The CONTRACTOR shall be responsible for locating sites and making arrangements for disposal of all materials removed from the sites. The CONTRACTOR's handling and disposition of excavation material shall be to a disposal site designated and/or approved by the ENGINEER. This includes concrete, asphalt, unsuitable or unstable subgrade material, and any other trash, rubbish or debris generated as a result of the construction. No trash, rubbish, or debris shall be allowed on the lawns of local residences by the CONTRACTOR's work force. No separate payment will be made for disposal of excavation material generated. This disposal shall be considered incidental to the construction and all costs thereof shall be included in various unit CONTRACT prices.

3.21 EXISTING CONDITIONS

Prior to starting work on the project, the CONTRACTOR shall walk the project in the areas scheduled for work with the ENGINEER to determine the condition of fences, curbs, walls, drives, asphalt, lawns, sprinklers, and any other existing improvements (collectively surface improvements) that are to remain on both public and private property. The ENGINEER may record the existing condition of features using a video camera.

If in the opinion of the ENGINEER, there is sufficient operating space to perform the work in a reasonable manner without removing or destroying existing improvements, the CONTRACTOR shall perform the work without removing or destroying such improvements. In no event shall the CONTRACTOR remove trees, shrubs, vines, or other items without the prior approval of the ENGINEER. Intersections and driveways shall be closed for a minimum amount of time. The CONTRACTOR shall coordinate driveway closures with property owners with final approval by the City Project Manager.

The CONTRACTOR shall make every effort to prevent or limit damage to surface improvements. The CONTRACTOR is responsible for protecting or restoring all such surface facilities to their original or improved condition. Any existing improvements damaged by the CONTRACTOR shall be replaced by the CONTRACTOR at his/her own expense.

All materials shall be installed and/or applied, in kind, in accordance with applicable specifications.

3.22 SAMPLES AND TESTING

All sampling and testing required by these specifications will be completed by an independent testing laboratory, hired by the CONTRACTOR and approved by the Owner. Tests are to be performed at the discretion of the ENGINEER for this project. Items to be tested are as shown:

A. Backfill Compaction Testing

For all testing frequencies and/or minimum sampling values see Appendix B sheet vi of the City of Evans "Design and Construction Standards and Specifications", dated August 2019.

3.23 CONTRACTORS AND SUBCONTRACTORS

All subcontractors are subject to approval by the CITY.

3.24 MINOR ITEMS OF CONSTRUCTION

Minor items of construction which do not have a bid item provided will not be paid for separately. The costs of these items shall be subsidiary with other unit prices shown on the bid schedule.

3.25 CONSTRUCTION TRAFFIC CONTROL

The CONTRACTOR shall submit a Traffic Control Plan and comply with the requirements of Section 1.02.08 and 1.03.03, Paragraph B and F of the City of Evans "Design and Construction Standards and Specifications". The CONTRACTOR shall not perform any construction work in the public right-of-way prior to receiving approval of the Traffic Control Plan from the CITY.

The approval of the Traffic Control Plan does not relieve the CONTRACTOR from responsibility to change or adjust traffic control devices if traffic or other conditions warrant. Any conditions or changes in project methods shall be submitted to the City Project Manager for review prior to making changes in the field.

The CONTRACTOR shall give proper advance notice to the CITY for approval. The portions applicable to city streets may be closed for short periods of time. The CONTRACTOR shall schedule work to minimize closures and must provide for local access. All anticipated closure times shall be approved by the CITY.

The CONTRACTOR shall appoint a Traffic Control Supervisor to this project. The Traffic Control Supervisor shall be certified as a Work Site Traffic Supervisor by the American Traffic Safety Services Association (ATSSA) or the Colorado Contractors Association (CCA).

All excavations or construction work that will be left open or exposed overnight shall be protected with nighttime barricades and signing. The entire open excavation shall be properly fenced to protect both vehicular and pedestrian traffic.

All flaggers shall be properly trained according to State and Federal guidelines. A copy of each flaggers certification card will be submitted to the City Project Manager 48 hours to commencement of project.

The CONTRACTOR shall inspect all devices and operations a minimum of every 2 hours and repair and replace damaged or missing devices immediately during work hours. Work sites shall be inspected a minimum of every 24 hours during weekends or during periods when the Contractor is not actually performing work.

All work areas including, but not limited to, open cuts, trenches, ditches, manholes, and/or other hazards shall be completely surrounded by approved fencing and other appropriate controls to protect pedestrians and persons using bicycles, wheelchairs, and other vehicles. Temporary walkways must be provided and included on traffic control plans.

The CONTRACTOR agrees to hold harmless the City staff regarding accidents or claims involving construction work and/or construction traffic control.

3.26 CLEANING DURING CONSTRUCTION

During execution of work, the CONTRACTOR shall clean the sites, adjacent properties, and public access roadways on a daily basis at a minimum or as directed by the ENGINEER and shall dispose of waste materials, debris, and rubbish to assure that buildings, grounds, and public properties are maintained free from accumulations of waste materials and rubbish.

The CONTRACTOR shall wet down dry materials and rubbish to lay dust and prevent blowing dust.

The CONTRACTOR shall provide containers for collection and disposal of waste materials, debris, and rubbish.

The CONTRACTOR shall cover or wet loads of excavated material leaving the site to prevent blowing dust. The CONTRACTOR shall also clean the public access roadways to the site of any material falling from the haul trucks.

3.27 FINAL CLEANUP

At the completion of the work and immediately prior to an initial inspection, the CONTRACTOR shall remove from the Construction Site all temporary structures and all materials, equipment, and appurtenances not required as part of, or appurtenant to, the completed work. The CONTRACTOR shall notify the CITY when final cleanup is ready for inspection.

The CONTRACTOR shall repair, patch, and touch-up marred surfaces to specified finish to match adjacent surfaces.

The CONTRACTOR shall broom clean paved surfaces and rake clean other surfaces of ground as necessary and as directed by the ENGINEER.

3.28 SAFETY AND ACCIDENT PREVENTION

The Contractor shall take all reasonable precautions in the performance of the work under this contract to protect from all hazards to life and shall comply with all health, safety and fire protection regulations and requirements.

3.29 MEASUREMENT AND PAYMENT

All materials will be measured and paid for in accordance to the Specifications. All material shall arrive at the job site with load or batch tickets indicating time loaded or batched, material type, material quantity, and date. A copy of the tickets shall be given to the ENGINEER the day the material arrives on site. Material delivered and placed without a load ticket will not be paid. The CITY will not pay for any material if the load ticket indicates that the vehicle and its load exceeded the legal weight limit for the vehicle type.

All work performed and all materials furnished shall conform to the requirements, including tolerances, provided herein. Materials not in conformance with these specifications, but allowed to remain in place by the ENGINEER may be subject to applicable price reductions as specified in Section 105.03 of the Colorado State Department of Transportation "Standard Specifications for Road and Bridge Construction", latest edition.

The CONTRACTOR is responsible for providing a product that is in conformance with the specification provided herein. Suitability of the finished product will be determined by the ENGINEER. A finished product that is not found suitable by the ENGINEER, may be subject to:

- A. Disapproval and subsequent removal and replacement of the material/product at the CONTRACTOR's expense.
- B. A reduction in pay as outlined with formulas in the Colorado Department of Transportation "Standard Specifications for Road and Bridge Construction", current edition. The Colorado Department of Transportation Standard Specifications is strictly used for determining the actual reduction of pay for unsuitable material/product and is not used to determine suitability of a final product. The ENGINEER will determine suitability.
- C. The ENGINEER allows questionable product/material to remain in place with the CONTRACTOR providing some type of remedial action to make the product/material suitable. Type of remedial action to be determined by ENGINEER and paid for by CONTRACTOR.

- D. The addition of an extended warranty for questionable materials/products to allow further review to determine suitability and any further action by CONTRACTOR at the end of the warranty period.

The measurement and payment for this project shall be as written specifically for this project and included in this Article of the Contract Document.

The work performed under this Agreement shall be paid for on a unit price basis at the rate for the respective items on the Bid Schedule. The quantities provided on the Bid Schedule are only estimates of the actual quantities of the work to be performed, and are only included for purposes of making the award. The CITY reserves the right to alter and/or eliminate any item of work. Modifications, if any, will be made by Change Order.

Unless otherwise provided for specifically in this section, all lump sum bid items will be paid for upon completion of all work associated with the lump sum bid item.

Payment shall be made only for those items included in the PROPOSAL. All other costs incurred shall comply with the provisions of these Specifications and shall be included in the unit price bid for the associated items in the PROPOSAL. Except as may be otherwise stipulated, no material, labor, or equipment will be furnished by the CITY. The quantity of work which will be considered for payment is the actual number of units completed in accordance with all relative specifications.

1. Measurements:

- a. No measurement for payment shall be made for any of the work, materials and equipment required for mobilization. A lump sum payment will be made.
- b. The quantities of work to be paid will be measured as identified within Article 1.0 – Bid Schedule to perform work, including but not limited to, the furnishing and installation of all components and accessories, in accordance with the Contract Documents. No payment for items outside of the dimensions shown on the Drawings or field markings, unless directed and approved by the ENGINEER, will be included in the amount computed for payment.
- c. No separate measurement shall be made for fittings and accessories necessary to install bid item.
- d. No measurement for payment shall be made for removal or replacement of materials and/or existing features damaged by the CONTRACTOR in his operation.

2. Payments:

- a. Mobilization & demobilization lump sum bid prices shall include all the CONTRACTOR's cost whatsoever the nature required for mobilization of personnel, equipment, construction trailers, or supplies at the project site in preparation for work on the project, and demobilization, location and protection of utilities. This item shall also include the establishment of all necessary facilities, on-site restrooms, and all other costs incurred or labor and operations that must be performed prior to beginning the other items under Contract. Also, to be included shall be all costs whatsoever to obtain any and all required permits, taxes, licenses, fees, and bonds necessary as required by the CITY, water and sanitary districts, and other municipal governments to perform the Work. This item may also include the cost of required bonds, insurance, preparation of the Project schedule and required shop drawings, and clean-up of the site.

- b. Mobilization & demobilization payment will be made as the work progresses. Fifty percent (50%) of the lump sum bid price will be paid at the time of the first monthly progress payment. An additional thirty percent (30%) will be paid when one-half the original contract is earned separately on each of the bid schedules. The remaining twenty percent (20%) will be paid upon final acceptance of the project. The total amount for mobilization shall not exceed five percent (5%) of the total bid.
- c. Payment for the Bid Item other than mobilization & demobilization shall include full compensation for, but is not limited to, all materials, labor, supplies, transportation, disposal, equipment required to complete the work in accordance with the Contract Documents.
- d. No separate payment shall be made for fittings and accessories necessary to install bid item.
- e. CONTRACTOR will not be reimbursed for the retesting of any materials that fail, or due to inclement weather, or for any other reason. All samples required for testing will be provided by the CONTRACTOR and at no cost to the OWNER.
- f. Excess excavation shall be disposed of off-site and shall not be paid for separately.
- g. All samples required for testing will be provided by the CONTRACTOR and at no cost to the OWNER.

3.30 LOCATION OF WORK

It is the intent of the attached vicinity maps to give the general location of the work to be performed under this contract. The final designation of locations will be verified after the contract has been awarded. The City reserves the right to alter quantities (both increase and decrease) from those shown on the plan and bidder's documents. Such alterations or quantities will not change the unit price of the accepted contract, except that if quantities are increased or decreased by more than twenty-five percent (25%) of the total contract, then a mutually agreeable adjustment may be made.

ARTICLE 4.0

PROJECT STANDARD SPECIAL PROVISIONS, SPECIAL PROVISIONS AND MEASURES AND PAYMENTS

CITY OF EVANS DEPARTMENT OF PUBLIC WORKS 42nd STREET NON-POTABLE WATERLINE REPLACEMENT SPECIAL PROVISIONS

The 2019 City of Evans Public Works Design and Construction Standards and Specifications (City Standard Specifications) and 2025 CDOT Standard Specifications for Road and Bridge Construction (CDOT Standard Specifications) shall control the construction of this project. The following Project Special Provisions (PSPs) supplement or modify the Standard Specifications. When there is a conflict between the PSPs and the Standard Specifications and plans, the PSPs take precedence and must be followed. All materials will be measured and paid for in accordance to the Specifications.

PROJECT SPECIAL PROVISIONS

| | <u>Date</u> | <u>Page</u> |
|--|--------------------|--------------------|
| Index Pages | (January 6, 2026) | 1 |
| Notice to Bidders | (January 6, 2026) | 2 |
| Commencement and Completion of Work | (January 6, 2026) | 3 |
| Revision of Section 1.03 – General Construction Requirements | (January 6, 2026) | 4 |
| Revision of Section 2.01 – Erosion and Sediment Control | (January 6, 2026) | 5 |
| Revision of Section 202 – Removal of Structures and Obstructions | (January 6, 2026) | 6 |
| Revision of Section 5.02 – Non-Potable Water | (January 6, 2026) | 7 |
| Overshot Gate | (January 6, 2026) | 8-12 |
| Slide Gate (Bid Alternate) | (January 6, 2026) | 13-17 |
| Point Repairs (Bid Alternate) | (January 6, 2026) | 18-19 |

NOTICE TO BIDDERS

The proposal guaranty shall be a certified check, cashier's check, or bid bond in the amount of 5 percent of the Contractor's total bid.

It is recommended that bidders on this project review the work site and plan details on their own. Prospective bidders shall attend the mandatory pre-bid conference. There will be no individual showing of the project with the authorized City of Evans representative.

Project Manager:

Alexander Corbin – City of Evans
1100 37th Street
Evans, Colorado 80620
Office Phone: 970-896-5972
Email address: acorbin@evanscolorado.gov

Project Engineer:

Nathan White, PE – Kimley-Horn
3325 South Timberline Road, Suite 130
Fort Collins, CO 80525 Office Phone: 970-852-6176
Email address: Nathan.white@kimley-horn.com

The above referenced individuals are the only representatives of the City or City's consultant with authority to provide any information, clarification or interpretation regarding the plans, specifications, and any other contract documents or requirements.

A pre-bid conference is scheduled on the date contained in the Request for Bids via Microsoft Teams.

All questions shall be directed to the City procurement officer no later than the date and time listed in the Request for Bids.

COMMENCEMENT AND COMPLETION OF WORK

The Contractor shall commence work under the Contract on or before February 18, 2026 following Contract execution and the issuance of the Notice to Proceed.

The Contractor shall complete all work as follows:

- All non-potable waterline construction work included in the plans shall be completed within 30 calendar days, in accordance with the "Notice to Proceed." A "punch list" of items to be completed as identified in a project walk-through inspection must be completed in advance and all "punch list" items shall be completed within 30 working days. By this date, the construction improvements included in the plans must be fully completed.

**REVISION OF SECTION 1.03
GENERAL CONSTRUCTION REQUIREMENTS**

Section 1.03 of the Standard Specifications is hereby revised for this project as follows:

METHOD OF MEASUREMENT

When the Contract contains general construction requirements lump sum item, no measurement will be made.

BASIS OF PAYMENT

When the bid schedule contains a lump sum item, the lump sum price bid will be paid and shall be full compensation for general construction requirements for the entire project.

Payment will be made under:

| Pay Item | Pay Unit |
|-----------------|-----------------|
| Mobilization | Lump Sum |
| Traffic Control | Lump Sum |

**REVISION OF SECTION 2.01
EROSION AND SEDIMENT CONTROL**

Section 2.01 of the Standard Specifications is hereby revised for this project as follows:

METHOD OF MEASUREMENT

When the Contract contains an erosion and sediment control lump sum item, no measurement will be made.

BASIS OF PAYMENT

When the bid schedule contains a lump sum item, the lump sum price bid will be paid and shall be full compensation for erosion and sediment control for the entire project.

Payment will be made under:

| Pay Item | Pay Unit |
|--|-----------------|
| Inlet Protection | Lump Sum |
| Silt Fence | Linear Foot |
| Stabilized Staging Area | Lump Sum |
| Vehicle Tracing Control | Lump Sum |
| Seeding (Topsoil, Native Seed, Hydromulch) | Acre |

**REVISION OF SECTION 202
REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

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

METHOD OF MEASUREMENT

When the Contract contains a removal of structures and obstructions lump sum item, no measurement will be made.

BASIS OF PAYMENT

When the bid schedule contains a lump sum item, the lump sum price bid will be paid and shall be full compensation for removal of structures and obstructions for entire project.

Payment will be made under:

| Pay Item | Pay Unit |
|---|-----------------|
| Removal of Pipe (24" CMP) | Linear Foot |
| Removal of Pipe (30" CMP) | Linear Foot |
| Haul off Excess Material | Cubic Yard |
| Removal of Concrete Diversion Structure | Lump Sum |

Payment will be full compensation for all work, equipment, and materials required for removals, hauling, and disposal.

**REVISION OF SECTION 5.02
NON-POTABLE WATER**

Section 5.02 of the Standard Specifications is hereby revised for this project as follows:

Add the following to Subsection 5.02.02:

T. Reinforced Concrete Pipe (RCP)

All RCP shall be round, Class III, with rubber gasketed joints. All RCP shall comply with CDOT Standard Specifications Section 624, and all applicable ASTM and ASHTO standards. Minimum required load-bearing capacity of RCP shall be 1,290 lb/ft/ft with a maximum load rating of 1,350 lbs/ft/ft.

METHOD OF MEASUREMENT

When the Contract contains a non-potable water lump sum item, no measurement will be made.

BASIS OF PAYMENT

When the bid schedule contains a lump sum item, the lump sum price bid will be paid and shall be full compensation for non-potable water for the entire project.

Payment will be made under:

| Pay Item | Pay Unit |
|----------------------------|-----------------|
| 24" Class III RCP | Linear Foot |
| Import Bedding Material | Cubic Yard |
| Import Backfill Material | Cubic Yard |
| Tracer Wire | Linear Foot |
| Precast Concrete Structure | Lump Sum |

Payment will be full compensation for all work, equipment, and materials required for non-potable water.

OVERSHOT GATES

PART 1 GENERAL

1.0 SUMMARY

- A. The Contractor shall provide all labor, materials, equipment, and incidentals required to furnish and install overshot gates, complete and operational with all necessary accessories as shown on the Contract Drawings, as specified herein, or as required for complete operation.
- B. Overshot gates shall be provided at the following locations: MH-1
- C. The Contractor shall obtain all equipment specified in this Section from one manufacturer to ensure proper coordination and functionality. The manufacturer shall have responsibility for performance and compatibility of the entire system. This does in no way relieve the Contractor for ultimate responsibility under this Contract for equipment, coordination, installation, operation and guarantee.
- D. The Contract Drawings are for purpose of guidance and to show functional features and required external connections. They do not necessarily show all components necessary to accomplish the desired results nor do they necessarily show all components required to interface with the equipment. The Contractor shall provide all parts, equipment, and devices necessary to meet the function requirements of the system.

1.1 REFERENCES

- A. Comply with applicable provisions and recommendations of the following, except as otherwise shown or specified:
 - 1. American National Standards Institute (ANSI)
 - 2. American Society for Testing and Materials (ASTM)
 - 3. American Welding Society (AWS)
 - i. D1.1 Structural Welding Code Steel
 - ii. D1.2 Aluminum
 - iii. D1.6 Stainless Steel

1.2 SYSTEM DESCRIPTION

- A. Liberal safety factors will be used in the design of all equipment. Working stresses will not exceed the lower value of one half of the yield strength, or one fifth of the ultimate strength of the material per ASD design approach. The overshot gates and appurtenances shall be designed for installation in the structures shown on the plans.
- B. The overshot gate shall be at a 60 degree angle upward from the horizontal channel bottom when in the fully closed position.
- C. When the overshot gate is in the fully opened position, it shall lay flush with the concrete channel bottom and allow for full flow.

1.3 SUBMITTALS

A. Submit the following for approval:

1. Manufacturer's information, specifications, and data showing dimensions, materials of construction, and weight of all major items or equipment.
2. Installation diagrams showing location, arrangement, and size of all fasteners required for the equipment.
3. Setting drawings, templates, and instructions for installation of guides, etc.
4. Calculations justifying that all components were designed based upon the maximum heads described herein.

B. Upon completion of installation, submit a digital copy of the Operation and Maintenance Manual for this equipment. A final copy of this manual shall be approved by the Engineer prior to distribution and as a minimum shall contain the following:

1. Operational and maintenance manuals shall include all approved shop drawings associated with this Section, complete instructions for installation, and parts list for all components.
2. Include a list and frequency of specific maintenance activities.

1.4 MEASUREMENT AND PAYMENT

A. No measurement will be made for overshot gate. The lump sum price bid will be paid and shall be full compensation for installation of overshot gate for the project.

PART 2 PRODUCTS

2.0 MANUFACTURERS

A. Provide overshot gates as manufactured by the following:

1. Henry Pratt Company (Hydro Gate brand)
2. Fresno Valves
3. Prior approved equal

B. Overshot Gate manufacturer shall have a minimum of 10 years' experience in the design and manufacture of this type of equipment.

2.1 EQUIPMENT MATERIALS

A. All overshot gates shown on the plans and listed in the gate schedule shall conform in all respects to the project specifications and manufacturer's design standards. Materials used in construction of overshot gates and appurtenances will be best suited for the application and will conform to the following specifications:

OVERSHOT GATE

1. Hot-Rolled Steel (Flats, Structural Shapes, Plates): ASTM A36, A283, Grade C or D; or ASTM A306, Grade 60.
2. Stainless Steel (Structural, Plates, Flats): ASTM A167, ASTM A240 or ASTM A276, all Type 304L or 316L.
3. Aluminum (Structural, Plates, Flats): ASTM B209 Alloy 6061, or ASTM B308 Alloy 6061.
4. Fasteners: Stainless Steel, ASTM F593/F594, Alloy Group 1 or 2 (304 or 316)
5. Side Seals: EPDM or Neoprene ASTM D2000, 60 Durometer, Type 304 or 316 retainer bar.
6. Hinge Seal: EPDM or Neoprene, ASTM D2000, 60 Durometer, Type 304 or 316 retainer bar.
7. Hoist shaft and tube: Cold rolled steel, ASTM A108, Grade 1045.

B. Leaf: The leaf shall be (steel, stainless steel, or aluminum) of horizontal and vertical structural reinforcing members and a smooth faceplate and shall be assembled and securely welded to provide a flat, box shaped gate leaf. The structural members shall be of the proper size, dimension, and placement to safely withstand the maximum upstream head designated in the "Gate Schedule". The faceplate shall be of sufficient thickness to safely withstand the maximum unbalanced head and shall be attached to the structural members by welding. The leaf shall be signed to limit deflection to $L/360$. The gate slide shall be fabricated in one piece unless shipping limitations require multiple sections. When multiple sections are required, joints shall include a rubber gasket to minimize leakage.

C. Hinge: Shop-fabricated hinge assembly shall be provided for attaching the gate to the concrete curb as shown on the contract drawings. Hinge plates shall be stainless steel. The hinge pin shall be stainless steel in accordance with ASTM A-276.

D. Side Seal Rubbing Plates: Provide stainless steel rubbing plates for a smooth and true contact surface for the seals throughout the full range of gate movement. Side seal rubbing plates shall be designed to attach to the structure channel walls. The plates shall be adjustable on the anchor bolts to provide proper alignment.

E. Seals: J-seals shall be provided as specified. Seals shall be securely fastened to the leaf with formed stainless steel retainers and shall be replaceable and adjustable. The bottom seal shall be a flat rubber solid shape. Seals and retainer flats shall be provided with holes to match those on the slide.

F. Vent Piping: The side seal rubbing plates shall have holes to mount PVC vent piping through the concrete structure.

G. Nape Breakers: Nape breaker shall be provided on the leaf to minimize air pockets below the gate during flow.

OVERSHOT GATE

H. Wire Rope Hoist: The hoisting system shall consist of hoist base frame, cable drums, drum shaft, wire rope cables, bearing bracket and anchor bolts. The hoist shall be operated by either a manual or electric operator. The hoist shall be suitable for modulation service and for fully raising and lowering the gate. The root diameter of the drum shall be a minimum of 12 times the cable diameter.

1. Wire Rope Cable: Wire rope cable and attachment hardware shall be stainless steel. Cable and attachment hardware shall be designed to withstand all loads to the gate. Wire rope shall be standard IWRC type.
2. Bearings: Hoist shall include a shaft support pillow block and bearing combination to prevent friction.
3. Shaft: The shaft and tube material shall be cold rolled steel as shown in the materials.
4. Manual Operator (Enclosed Gear): The manual hoist operator shall consist of a self-locking work gear, with reduction spur gears as required, enclosed in a ductile iron housing. A handwheel, located approximately 36 inches above the operating surface, shall be provided to produce the necessary output torque to raise and lower the gate when a maximum 40 lb pull is exerted on the handwheel rim.

2.2 FINISHES

A. Carbon or structural steel: The gate manufacturer shall be responsible for shop prime and finish painting of all gates and appurtenances supplied under this contract. All coatings shall conform to VOC Emission Regulations in effect at the manufacturing location and at the project site to allow touch up recoating to be performed with the same products. All surfaces shall receive a primer and finished coat with a high solids epoxy coat or approved equal for potable water use. Primer and finished coats shall be applied in the manufacturer's shop. Where required by application, the coating shall be approved for contact with drinking water by the NSF, EPA, or other appropriate governing agencies. Number of coats, mil thickness, and surface preparation shall be in accordance with the paint manufacturer's recommendations for that application. Coating shall be Ameron Amerlock 400, medium gray color.

B. Submerged surfaces shall be cleaned to SSPC SP10 dry, and grease-free prior to painting in conformance with the paint manufacturer's instructions. Non-submerged surfaces shall be cleaned to SSPC SP6.

C. All surfaces shall receive a primer and finished coat with a high solids epoxy coat or approved equal for potable water use. Primer and finished coats shall be applied in the manufacturer's shop.

D. Where required by application, the coating shall be approved for contact with drinking water by the NSF, EPA, or other appropriate governing agencies. Number of coats, mil thickness, and surface preparation shall be in accordance with the paint manufacturer's recommendations for that application.

E. Coating shall be Ameron Amerlock 400, medium gray color

F. Aluminum: Surfaces embedded in concrete shall receive one (1) coat of bitumastic coating.

- 5 -

OVERSHOT GATE

G. Stainless Steel: Stainless Steel components shall not be coated.

2.3 SHOP TESTING

- A. The complete gate assembly will be shop inspected for proper tolerances as shown on the manufacturer's drawings.

PART 3 EXECUTION

3.0 SHIPPING AND INSTALLATION

- A. Manufacturer shall provide temporary bracing to maintain tolerances during shipping and installation.
- B. The overshot gate equipment and appurtenances shall be installed by the contractor in a workmanlike manner in accordance with the Installation Manual furnished by the gate manufacturer. Extreme care should be used in handling storage, and installation of this equipment to prevent damage or distortion of the equipment and to ensure proper performance.

3.1 FIELD QUALITY CONTROL

Field testing shall be performed after installation of the equipment. Testing shall demonstrate the following:

- A. The equipment has been properly installed in accordance with manufacturer's instructions and recommendations.
- B. The equipment has been installed in the specified location and orientation or as shown on the Contract Drawings.
- C. The equipment has been aligned.
- D. There are no mechanical defects in any of the parts.

SLIDE GATES (BID ALTERNATE)

PART 1 GENERAL

1.0 SUMMARY

- A. The Contractor shall provide all labor, materials, equipment, and incidentals required to furnish and install overshot gates, complete and operational with all necessary accessories as shown on the Contract Drawings, as specified herein, or as required for complete operation.
- B. The Contractor shall obtain all equipment specified in this Section from one manufacturer to ensure proper coordination and functionality. The manufacturer shall have responsibility for performance and compatibility of the entire system. This does in no way relieve the Contractor for ultimate responsibility under this Contract for equipment, coordination, installation, operation and guarantee.
- C. The Contract Drawings are for purpose of guidance and to show functional features and required external connections. They do not necessarily show all components necessary to accomplish the desired results nor do they necessarily show all components required to interface with the equipment. The Contractor shall provide all parts, equipment, and devices necessary to meet the function requirements of the system.

1.1 REFERENCES

- A. Comply with applicable provisions and recommendations of the following, except as otherwise shown or specified:
1. American Water Works Association (AWWA C561)
 2. American Society for Testing and Materials (ASTM)
 3. American National Standards Institute (ANSI)

1.2 SYSTEM DESCRIPTION

- A. For approval: Submit the following shop drawings for approval:
1. Manufacturer's information, specifications, and data showing dimensions, materials of construction, and weight of all major items of equipment.
 2. Installation diagrams showing location, arrangement, and size of all fasteners required for the equipment.
 3. Setting drawings, templates, and instructions for installation of frames, thimbles, etc.
 4. Certification that all components were designed based upon the maximum seating and unseating heads described herein.
- B. Upon completion of installation, submit a digital copy of the Operation and Maintenance Manual for this equipment. A final copy of this manual shall be approved by the Engineer prior to distribution and as a minimum shall contain the following:
1. Operational and maintenance manuals shall include all approved shop drawings associated with this Section, complete instructions for installation, and parts list for all components.

2. Include a list and frequency of specific maintenance activities.

1.4 MEASUREMENT AND PAYMENT

- A. No measurement will be made for slide gate. The lump sum price bid will be paid and shall be full compensation for installation of slide gate for the project.

PART 2 PRODUCTS

2.0 MANUFACTURERS

- A. Provide slide gates as manufactured by the following:

1. Hydro Gate Products
2. Fresno Valves
3. Approved Equal

2.1 EQUIPMENT MATERIALS

- A. All slide gates shown on the plans and listed in the specifications shall conform in all respects to the latest version of AWWA C561, with the noted changes and additions: Materials used in construction of slide gates and appurtenances will be best suited for the application and will conform to the following specifications.

1. Frame, Slide, Reinforcing Members and Self-contained Yoke (as required): Stainless Steel, ASTM A240/A240M, Type 304L or 316L
2. Stems and retainer bars: Stainless Steel, ASTM A276, Type 304 or 316
3. Fasteners: Stainless Steel, ASTM F593/F594, Alloy Group 1 or 2 (Type 304 or 316)
4. Invert seals and compression load pad: Neoprene or EPDM, ASTM D2000, 60 Durometer
5. Slide seal: Ultra High Molecular Weight (UHMW) Polymer, ASTM D4020
6. Top wedges: Stainless Steel, ASTM A351-CF8M, Type 304 or 316
7. Pedestals, Wall Brackets and Stem Guide Brackets: Cast Iron, ASTM A126, Class B or Stainless Steel, ASTM A276, Type 304 or 315
8. Stem Guide Bushings: Silicon Bronze, ASTM B584, Alloy 873 or Ultra High Molecular Weight (UHMW) Polymer, ASTM D4020

- B. Gate frame shall be flat back, embedded or channel mount as shown in the "Gate Schedule". Spigot-back frames are not acceptable. The frame shall be an integral unit of brake form and structural shapes, rigidly assembled to form the waterway openings. Holes shall be provided for mounting on anchor bolts. Seats and seals shall be secured to the frame in a manner to insure they will remain in place, free from distortion or loosening during the life of the gate. Seat contact pressure shall not exceed 600 psi at the design head.

SLIDE GATE (BID ALTERNATE)

- C. Gate slide shall conform to the safety factors stated under “General”, but shall, in no case, be less than ¼ inch thick. Deflection under full head shall be limited to 1/720 of the span. The stem connector clips or stem block pocket shall be welded to the slide. Gates over 24” wide shall have adjustable top wedges in order to prevent deflection in the slide resulting from over closure.
- D. Flush Bottom: Slide gates shall incorporate a flush-bottom seal that is mechanically fastened to the bottom frame invert member. The seal shall be of the materials shown in “Materials of Construction”. Press fit seals are not acceptable.
- E. Side Seals: UHMW seals shall be provided as specified in the “Gate Schedule”. Seals shall be securely fastened to the frame with formed stainless steel retainers and shall be replaceable and adjustable without removing the gate from the face of the UHMW guide that is in contact with the cover bar shall have a machined or extruded groove, in order to create a raised surface on each side, to allow for secondary adjustment of the seal clamp force.
- F. Yoke: Self contained gates shall be provided with a yoke designed to withstand the thrust of the operator. Yoke deflection shall not exceed 1/360 of the gate width or a maximum of ¼ inch, whichever is less at maximum operating load. The yoke head channels shall be welded to the gate frame. The channels shall be sufficiently spaced to allow removal of the gate slide.
- G. The operating stem shall be of a size to safely withstand, without buckling or permanent distortion, the stresses induced by normal operating forces. In addition, the stem shall be designed to transmit in compression at least 2 times the rated output of the floor stand or bench stand with a 40-pound effort on the crank or handwheel. The threaded portion of the stem will have cold rolled threads of the double lead Acme type. Stainless Steel couplings, threaded and keyed to the stems, will join stems of more than one section. All threaded and keyed couplings of the same size will be interchangeable. Manually operated, rising stem type gates will be provided with an adjustable stop collar on the stem to prevent over-opening of the gate.
- H. Gates 48 inch and wider and having widths greater than twice their height shall be provided with two operators connected by a tandem shaft for simultaneous operation.
- I. Stem guides will be split collar bronze type, mounted on cast iron brackets to allow for installation after the stem is placed. They will be adjustable in two directions and will be spaced at sufficient intervals to adequately support the stem. The inside diameter of the guide shall be 1/8 inch to ¼ inch larger than the outside diameter of the stem. Stem guide spacing will not exceed an L/r ratio of 200.
- J. Manually operated lifts shall be handwheel or geared crank type as shown in the “Gate Schedule”. Lifts shall operate the gate with a maximum pull of 40 lb on the handwheel or crank. Handwheel or crank shall be located approximately 36 in. above grating or walkway. All lifts shall have thrust bearings, bronze lift nuts, and a bronze stop nut to limit the downward travel of the stem and slide. All geared lifts shall have cast or ductile iron housings and cast or fabricated pedestals. All lifts shall be rising stem type if possible. Lifts shall be grease lubricated and regreasable through grease zerks. Oil bath lifts are not acceptable.

SLIDE GATE (BID ALTERNATE)

K. Motor operated lifts shall be a 460-V, 3-phase, 60-Hz motor with precision reduction gearing enclosed in weatherproof housing. The operator shall be designed to raise the gate at a rate of approximately 10 to 14 inches/min. Integral controls shall include a control power transformer, reversing controller, torque switches, limit switch, internal atmospheric controls to prevent condensation, open- stop- closed push buttons, and a gate position indicator. Where applicable, the controls shall also include a local- off remote selector switch. Motor reduction helical gear and pinion shall be of heat- treated alloy steel. Final reduction work shall be of alloy steel and worm gear of machined, high- tensile strength bronze. All gearing shall be proportioned to 100% overload condition. Operator shall have a de-clutch lever and handwheel for manual operation.

L. A clear, polycarbonate plastic stem cover and indicator shall be provided on each slide gate operator. Stem indication shall be provided to denote gate level. A cast aluminum adaptor shall be used to mount the cover to the lift operator. The covers shall be capped, vented, and of sufficient length to allow full travel of the gate.

2.2 FINISHES

A. The gate manufacturer shall be responsible for shop prime and finish painting of all cast iron and steel accessories supplied under this contract. All coatings shall conform to VOC Emission Regulations in effect at the manufacturing location and at the project site to allow touch up or recoating to be performed with the same products.

B. Submerged surfaces shall be cleaned to SSPC SP10 dry, and grease free prior to painting in conformance with the paint manufacturer's instructions. Non-submerged surfaces shall be cleaned to SSPC SP6.

C. Stainless steel gates and accessories shall not be painted.

D. All cast iron and steel accessories shall receive a primer and finished coat with a high-solids epoxy coat or approved equal for potable water use. Primer and finished coats shall be applied in the manufacturer's shop.

E. Where required by application, the coating shall be approved for contact with drinking water by the NSF, EPA, or other appropriate governing agencies. Number of coats, mil thickness, and surface preparation shall be in accordance with the paint manufacturer's recommendations for that application.

F. Coating for all cast iron and steel accessories shall be Ameron Amerlock 400, medium gray color.

2.3 SHOP TESTING

The completely assembled gate will be shop inspected for proper seating. Seals shall be adjusted to exclude a 0.004-inch thickness gauge between the seating surfaces. The slide gate shall be shop-operated from the fully open to the fully closed position to verify the assembly is workable.

SLIDE GATE (BID ALTERNATE)

PART 3 EXECUTION

3.0 INSTALLATION

A. The slide gate equipment and appurtenances shall be installed in accordance with the Installation Manual furnished by the gate manufacturer. Extreme care should be used in handling, storage, and installation of this equipment to prevent damage or distortion of the equipment and to insure proper performance.

3.1 FIELD QUALITY CONTROL

A. Field testing shall be performed after installation of the equipment. The field testing shall demonstrate the following:

1. The equipment has been properly installed in accordance with the manufacturer's instructions and recommendations.
2. The equipment has been installed in the specified location and orientation or as shown on the Contract Drawings.
3. The equipment has been aligned.
4. There are no mechanical defects in any of the parts.
5. The slide gates shall undergo a leakage test following installation. The leakage test shall be in accordance with the latest version of AWWA C561.

POINT REPAIRS (BID ALTERNATE)

1.0 WORK INCLUDED

- a. It is the intent of this Section to specify repair of a non-potable waterline that has point-failed, and to return the waterline to as good as or better condition as it was before the waterline failed and the repair was made.
- b. This Section includes repair of point failures of non-potable waterlines involving excavation, point repair/replacement of waterline, placement of bedding and backfilling, disposition of excess materials, and restoration of site.
- c. This Section includes standard length and non-standard length of excavation for point repairs of non-potable waterlines within rights-of-way and easements.

1.2 QUALITY ASSURANCE

- a. TV Testing:
 - (1) The Contractor shall clean and televise the non-potable waterlines to the Engineers satisfaction after construction.

1.3 MEASUREMENT AND PAYMENT

- a. Standard Length of Excavation and Point Repair:
 - (1) This item will be measured by one (1) unit for each point repair constructed. Measurement will be along centerline of exposed pipe.
 - (2) Payment will be at unit prices per pipe size for all depths of each point repair. The minimum length of pipe removed and replaced per point repair is six-feet (6').
 - (3) This item includes, as incidental to work, excavation as necessary, dewatering, flow control, trench safety, select dry native soil backfilling as required, disposal of excess materials, television inspection, removal of old pipe, testing, and site restoration.

1.4 CONTRACTOR SUBMITTALS

Submit to the Engineer location records for each point repair and lead repair completed. Also, provide TV video footage for each repair as part of the payment submittal.

1.5 POINT REPAIR REQUIREMENTS

- a. The point repair shall comply with the provisions of the Specifications in related Sections for pipe, materials, and joints for type of pipe used.
- b. The method of jointing the ends of the replaced pipe with the existing pipe shall be watertight.
- c. If the joints cannot be made up to be watertight using rubber gasket jointing, then the pipe ends shall be encased all around with a concrete collar and bedded and backfilled in compliance with the provisions related to pipe bedding and backfill.

POINT REPAIRS (BID ALTERNATE)

1.6 DRY PLACEMENT

- a. Pipe replaced shall be placed only in dry trench conditions.
- b. When solid sheet piling is required to maintain dry trench condition, the Contractor shall install solid steel sheet piling so that the point repair can be made under dry trench conditions.
- c. No additional payment will be made for keeping trenches dry.

1.7 UTILITIES

Within the limits on and adjacent to the project, there are known to exist public and private utilities, storm sewer lines, waterlines, underground and aerial power lines, telephone lines, television cable and communication lines, gas lines, street lighting, traffic signalization, and petroleum product lines.

- a. The Contractor will be required to contact the various utility companies and the utility coordinating committee and determine the location of all utilities prior to commencing point repair or lead repair.
- b. Existing utility lines shown on drawings or known to the Contractor prior to excavation and that are to be retained, as well as utility lines constructed during excavation operations must be carefully protected and satisfactorily repaired if damaged. Any damage to lines should be reported to the Engineer and owner immediately. No repairs to utility lines, other than those included in the scope of work, are to be made by the Contractor without the authorization by the Engineer and owner. When utility lines that are to be removed are encountered, notify the Engineer so that measures can be taken to avoid interruption of service.
- c. Before commencing work, coordinate with utility owner to determine actual location of existing and proposed utilities. Location of utilities, as indicated, shall not relieve the Contractor of his contractual obligations of contacting utility owners. Municipality owner of utility lines such as water and storm sewer may not be located and in such case determine the location of each affected line, structure, or apparatus. Coordinate all work affecting the utilities with the appropriate utility owner.
- d. Before commencing the work, contact the owner and verify by field investigation the locations of all utility facilities within and adjacent to the construction limits that may be affected by construction. Conflicts which results due to failure to locate existing utilities shall be the sole responsibility of the Contractor. The cost of remedial work, removal of portions of the work, or extensive design changes occasioned by the failure of the Contractor to verify the location of existing utilities as described above, shall be borne by the Contractor.

1.8 EXCAVATION IN EASEMENTS

Excavation will be by use of machine operated equipment; however, in easements where machine operated equipment cannot be employed because of lack of accessibility, hand excavation shall be employed when approved by Engineer.

1.9 WELL POINTS

Contractor will provide any necessary dewatering system.

ARTICLE 5.0

Vicinity Map and Plan Set

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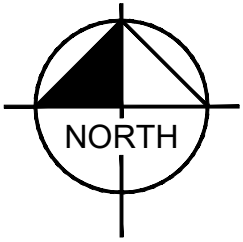
| | |
|-----------------------|-----------|
| 100% CD-BID SET | 13 Sheets |
| GEOTECH REPORT | 18 Sheets |

CITY OF EVANS 42ND STREET NON-POTABLE WATERLINE REPLACEMENT PROJECT
CONSTRUCTION DRAWINGS

CITY OF EVANS, WELD COUNTY, STATE OF COLORADO



VICINITY MAP
NTS



BENCHMARK

NORTH AMERICAN VERTICAL DATUM OF 1988. VERTICAL CONTROL BASED UPON NGS DESIGNATION "R 261", ELEVATION = 4655.61, LOCATED IN A STRUCTURE SOUTH OF MILE MARKER 264 ON US HIGHWAY 85.

BASIS OF BEARINGS

COLORADO STATE PLANE NORTH COORDINATES NAD 83 (2011).
POINT NO. 5 CP-RB5
N: 1378966.32
E: 3222807.20
ELEVATION = 4674.01
THIS DRAWING IS AT MODIFIED STATE PLANE. TO REDUCE TO STATE PLANE COORDINATES, SCALE AT 0.999715192 (1.000284889) ABOUT THE ORIGIN 0,0.

SITE LOCATION

LINE A: LOCATED WITHIN SECTION 30, TOWNSHIP 5 NORTH, RANGE 65 WEST OF THE 6TH P.M. EVANS, WELD COUNTY, COLORADO.

FLOODPLAIN NOTE

LINE A IS LOCATED IN ZONE X PER FLOOD INSURANCE RATE MAP NUMBER 08123C1727F, EFFECTIVE DATE NOVEMBER 30, 2023.

PROJECT CONTACTS

CIVIL ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC.
3325 S TIMBERLINE ROAD, SUITE 130
FORT COLLINS, CO 80525
NATHAN WHITE, PE: (970) 852-6176

PROJECT MANAGER: CITY OF EVANS
1100 37TH STREET
EVANS, CO 80620
ALEX CORBIN: (970) 896-5972

SURVEYOR: MAJESTIC SURVEYING, LLC
1111 DIAMOND VALLEY DRIVE, SUITE 104
WINDSOR, CO 80550
STEVEN PARKS, PLS: (970) 833-5698

GEOTECHNICAL ENGINEER: KUMAR & ASSOCIATES
800 STOCKTON AVENUE, #4
FORT COLLINS, CO 80524
JACOB HANSON, PE: (970) 416-9045

UTILITY POTHOLING: RECONN
9045 RIVER ROAD, SUITE 300
INDIANAPOLIS, IN 46240
BEN PEREZ, BUSINESS MANAGER: (970) 420-8819

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| C1.1 | GENERAL NOTES |
| C1.2 | SUBSURFACE UTILITY ENGINEERING |
| C2.0 | EROSION CONTROL PLAN |
| C2.1 | EROSION CONTROL DETAILS I |
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| C3.0 | DEMOLITION PLAN |
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CITY ENGINEER
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CITY OF EVANS CONSTRUCTION STANDARDS CURRENT AT THE TIME OF CONSTRUCTION. THE CITY'S ACCEPTANCE ALLOWS FOR PLAN DISTRIBUTION AND PERMIT APPLICATION. THE CITY'S ACCEPTANCE SHALL NOT RELIEVE THE DESIGN ENGINEER'S RESPONSIBILITY FOR ERRORS, OMISSIONS, OR DESIGN DEFICIENCIES FOR WHICH THE CITY IS HELD HARMLESS.

APPROVED _____ DATE _____
CITY ENGINEER

EVANS FIRE PROTECTION DISTRICT
APPROVED BY THE FIRE CHIEF OF THE EVANS FIRE PROTECTION DISTRICT,
THIS ____ DAY OF _____, A.D. _____.

FIRE CHIEF _____



| | | | | | | |
|--------------------------|-------------------------|---------------------|--|--|--|--|
| DRAWN BY: JF 1/2/2026 | | COVER SHEET | 42ND STREET NON-POTABLE WATERLINE REPLACEMENT CONSTRUCTION DRAWINGS CITY OF EVANS | Kimley»Horn 3325 SOUTH TIMBERLINE ROAD, SUITE 101 FORT COLLINS, CO 80525 TEL: (970) 858-8898 | | |
| DESIGNED BY: NW 1/2/2026 | CHECKED BY: RB 1/2/2026 | | | | | |
| PROJECT NO.: 230203003 | SCALE: AS SHOWN | | | | | |
| SEAL | | | | | | |
| SHEET C1.0 | | DESCRIPTION DATE | | | | |

CITY OF EVANS GENERAL NOTES:

1. ALL WORK WITHIN THE PUBLIC ROW OR EASEMENT SHALL CONFORM TO THE CITY OF EVANS CONSTRUCTION AND DESIGN SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF ANY WORK ON THE PROJECT. A PERMIT FROM PUBLIC WORKS IS REQUIRED FOR ALL CONSTRUCTION IN PUBLIC ROW OR EASEMENTS. A PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH CITY REPRESENTATIVES BEFORE A PERMIT WILL BE ISSUED.
3. THE CONTRACTOR SHALL NOTIFY THE CITY PROJECT REPRESENTATIVE AT LEAST 24 HOURS PRIOR TO DESIRED INSPECTION.
4. IT IS THE RESPONSIBILITY OF THE DEVELOPER DURING CONSTRUCTION ACTIVITIES TO RESOLVE CONSTRUCTION PROBLEMS DUE TO CHANGED CONDITIONS, OR DESIGN ERRORS ENCOUNTERED BY THE CONTRACTOR DURING THE PROGRESS OF ANY PORTION OF THE PROJECT. IF, IN THE OPINION OF THE CITY, THE MODIFICATIONS PROPOSED BY THE DEVELOPER, TO THE ACCEPTED PLANS, INVOLVE SIGNIFICANT CHANGES TO THE CHARACTER OF THE WORK, OR TO THE FUTURE CONTIGUOUS PUBLIC OR PRIVATE IMPROVEMENTS, THE DEVELOPER SHALL BE RESPONSIBLE FOR RESUBMITTING THE REVISED PLANS TO THE CITY OF EVANS FOR ACCEPTANCE PRIOR TO ANY FURTHER CONSTRUCTION RELATED TO THAT PORTION OF THE PROJECT. ANY IMPROVEMENTS NOT CONSTRUCTED IN ACCORDANCE WITH THE ACCEPTED PLANS, OR THE ACCEPTED REVISED PLANS, SHALL BE REMOVED AND RECONSTRUCTED ACCORDING TO THE APPROVED PLAN.
5. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. DURING THE PERFORMANCE OF THE WORK, THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE CITY TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
6. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL SURVEY MONUMENTS. ANY MONUMENT THAT MUST BE DESTROYED FOR CONSTRUCTION SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A LICENSED SURVEYOR PRIOR TO DISTURBING ANY MONUMENTS.
8. PRIOR TO FINAL PLACEMENT OF SURFACE PAVEMENT, ALL UNDERGROUND UTILITY MAINS SHALL BE INSTALLED, TESTED AND ACCEPTED, AND SERVICE CONNECTIONS STUBBED OUT BEYOND THE PROPERTY LINE, WHEN ALLOWED BY THE UTILITY. SERVICE FROM PUBLIC UTILITIES AND FROM SANITARY SEWERS SHALL BE MADE AVAILABLE FOR EACH LOT IN SUCH A MANNER THAT WILL NOT BE NECESSARY TO DISTURB THE STREET PAVEMENT, CURB, GUTTER, AND SIDEWALK WHEN CONNECTIONS ARE MADE.
9. COPIES OF RECORD DRAWING PLANS SHALL BE SUBMITTED TO THE CITY OF EVANS PRIOR TO INITIAL ACCEPTANCE OF THE PUBLIC IMPROVEMENTS.

ENGINEERING GENERAL NOTES:

1. CONTRACTOR MUST COMPLY WITH ALL REQUIREMENTS OUTLINED IN WELD COUNTY ORDINANCE NO. 97-03 RELATED TO NOISE LEVELS.
2. CONTRACTOR SHALL IMPLEMENT STANDARD ON-SITE MAINTENANCE PROCEDURES TO ACTIVELY MITIGATE NOISE-RELATED NOISE LEVELS.
3. CONTRACTOR MUST CARRY OUT PUBLIC OUTREACH EFFORTS, INCLUDING PROVIDING ADVANCE NOTIFICATION OF PLANNED CONSTRUCTION ACTIVITIES TO NEARBY RESIDENTS THAT MAY BE AFFECTED BY NOISE OR DISRUPTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ORGANIZING AND HOSTING REGULAR COORDINATION MEETINGS WITH THE TOWN, THE ENGINEER, AND WELD COUNTY REPRESENTATIVES THROUGHOUT THE DURATION OF CONSTRUCTION, AT A FREQUENCY TO BE DETERMINED IN CONSULTATION WITH THE TOWN.
5. TOPOGRAPHIC INFORMATION HAS BEEN PROVIDED BY A REGISTERED LAND SURVEYOR. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEY SHALL HAVE MADE, AT THEIR OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER AND ENGINEER FOR REVIEW.
6. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION, AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE IN ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS.
8. THE ENGINEER AND OWNER MUST APPROVE, PRIOR TO CONSTRUCTION, ANY ALTERATION OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER PRIOR TO PROCEEDING. THE CONTRACTOR ASSUMES ALL RISK (COST OF MATERIALS, LABOR, RE-STOCKING, SHIPPING, ETC.) RELATED TO PROCEEDING WITH VARIATIONS FROM THE APPROVED PLANS PRIOR TO FORMAL ACCEPTANCE FROM THE OWNER AND ENGINEER. ANY INSPECTION BY THE TOWN OR THE ENGINEER SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.
10. CONTRACTOR TO LOCATE ALL EXISTING PROPERTY MONUMENTS PRIOR TO CONSTRUCTION. ANY MONUMENTS DISTURBED DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED BY REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
11. CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUMS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION OF THE EFFECTED ITEM.
12. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE EFFECTED ITEM.
13. THE SCALE OF THESE DRAWINGS MAY HAVE BEEN DISTORTED DURING THE REPRODUCTION PROCESS. CONTRACTOR SHALL UTILIZE PROVIDED DIMENSIONS FOR CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR CONFIRMING ALL SCALES AND DIMENSIONS PRIOR TO CONSTRUCTION. SHOULD ADDITIONAL DIMENSIONS BE NEEDED, THE CONTRACTOR SHALL CONTACT THE ENGINEER.
14. CONSTRUCTION OF THE IDENTIFIED IMPROVEMENTS SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE ISSUED FOR CONSTRUCTION PLANS PROVIDED BY THE OWNER OR ENGINEER IN HARD COPY OR EQUIVALENT ELECTRONIC FORMAT (ADOBE PDF). IN THE EVENT SUPPLEMENTAL ELECTRONIC FILES (AUTOCAD, EXCEL TABULATION WORKSHEETS, ETC.) ARE PROVIDED, THESE FILES SHALL BE PROVIDED FOR CONTRACTOR AND/OR SURVEYOR'S CONVENIENCE ONLY. USE OF SUPPLEMENTAL ELECTRONIC FILES SHALL BE AT THE CONTRACTOR AND/OR SURVEYOR'S SOLE RISK. IN THE EVENT OF A DISCREPANCY WITHIN THE FILES PROVIDED, HARD COPY OR EQUIVALENT ELECTRONIC FORMAT (ADOBE PDF) SHALL GOVERN.
15. CONTRACTOR REQUIRED TO ADHERE TO TRENCHING REQUIREMENTS. NO MORE THAN 100 FEET OF TRENCH MAY BE OPENED AHEAD OF PIPE LAYING, AND THE TOTAL LENGTH OF OPEN TRENCH SHALL NOT EXCEED 200 FEET UNLESS PRIOR APPROVAL IS OBTAINED FROM THE TOWN ENGINEER.
16. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING CLEARANCE SURVEYS FOR NESTING BIRDS AT LEAST TWO WEEKS PRIOR TO ANY TREE REMOVAL OR GROUND CLEARING ACTIVITIES OCCURRING BETWEEN FEBRUARY AND AUGUST TO ENSURE COMPLIANCE WITH THE MIGRATORY BIRD TREATY ACT. THE CONTRACTOR SHALL COORDINATE WITH COLORADO PARKS AND WILDLIFE DURING THE TECHNICAL REVIEW PROCESS TO ADDRESS AND FULFILL REQUIREMENTS FOR TEMPORAL BUFFERING, SPATIAL BUFFERING, AND MONITORING OF APPLICABLE WILDLIFE RESOURCES. THIS INCLUDES TAKING APPROPRIATE MEASURES TO PROTECT ACTIVE NESTS, PARTICULARLY THOSE OF RAPTORS AND OTHER MIGRATORY BIRDS, ARE IDENTIFIED.
18. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
19. CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE DONE TO ANY EXISTING ITEM DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO, OR BETTER THAN, EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY OWNER AND ENGINEER PRIOR TO CONSTRUCTION START.
20. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN THE PUBLIC RIGHT-OF-WAY OR EASEMENT SHALL CONFORM TO THE WELD COUNTY ENGINEERING AND CONSTRUCTION CRITERIA AND/OR CITY OF EVANS SPECIFICATIONS AND STANDARDS (LATEST EDITION).

21. CONTRACTOR TO VERIFY ELEVATIONS OF ALL EXISTING IMPROVEMENTS WHERE CONNECTIONS ARE TO BE MADE AND SHALL ADVISE ENGINEER OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION.
22. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK AND ALL OTHER DELETERIOUS MATERIAL.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE, AND AVAILABLE TO THE INSPECTOR AT ALL TIMES. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS TO THE ENGINEER.
24. CONTRACTOR SHALL CONTACT 811 FOR THE LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
25. THE CONTRACT DOCUMENTS SHALL NOT CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR AND/OR ANY SUBCONTRACTOR.
26. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
27. CONTRACTOR REQUIRED TO ADHERE TO TRENCHING REQUIREMENTS. NO MORE THAN 100 FEET OF TRENCH MAY BE OPENED AHEAD OF PIPE LAYING, AND THE TOTAL LENGTH OF OPEN TRENCH SHALL NOT EXCEED 200 FEET UNLESS PRIOR APPROVAL IS OBTAINED FROM THE TOWN ENGINEER.

TRAFFIC CONTROL GENERAL NOTES:

1. TRAFFIC CONTROL PLANS IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND THE CITY OF EVANS (PERMITTING AGENCY) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. TRAFFIC CONTROL PLANS SHALL CONSIST OF THE FURNISHING, INSTALLING, MOVING, MAINTAINING AND REMOVING TEMPORARY TRAFFIC CONTROL DEVICES (BARRICADES, SIGNS, ARROW PANELS, FLASHING BEACONS, ETC.) AS REQUIRED BY APPLICABLE STANDARDS.
3. THE CONTRACTOR SHALL PREPARE AND SUBMIT A METHOD OF HANDLING TRAFFIC (MHT) PLAN TO THE CITY OF EVANS, AS REQUIRED, FOR APPROVAL PRIOR TO CONSTRUCTION.
4. AT LEAST ONE WEEK BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY OF EVANS OF THE DATE THE CONTRACTOR INTENDS TO START CONSTRUCTION.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE RESIDENCES AT ALL TIMES.

ENGINEERING UTILITY GENERAL NOTES:

1. ALL EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE USED AS EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY THE PRESENCE AND LOCATION OF ANY AND ALL EXISTING OVERHEAD AND/OR UNDERGROUND UTILITIES THAT MAY INTERFERE WITH THE CONSTRUCTION, WHETHER OR NOT SAID UTILITIES ARE SHOWN ON THE CONSTRUCTION PLANS FOR THIS PROJECT. CONTRACTOR SHALL ADEQUATELY PROTECT AND MAINTAIN SUCH UTILITIES.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES AND IMPROVEMENTS DURING INSTALLATION OF SANITARY SEWER AND WATER LINES.
6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RELOCATIONS AND INSTALLATIONS OF FRANCHISE UTILITIES NECESSARY FOR CONSTRUCTION.
7. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACKFILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
8. CONTRACTOR IS NOT PERMITTED TO OPEN MORE TRENCH IN ADVANCE OF PIPE LAYING THAN IS NECESSARY TO EXPEDITE WORK; NOT MORE THAN 100 FEET. TOTAL LENGTH OF OPEN TRENCH WILL BE LIMITED TO 200 LINEAR FEET UNLESS OTHERWISE APPROVED BY THE TOWN ENGINEER/INSPECTOR.
9. THE CONTRACTOR SHALL EXPOSE ALL REQUIRED UTILITY CONNECTION POINTS TO VERIFY APPROPRIATE HORIZONTAL LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION STAKING. ANY VARIATION OF CONNECTION LOCATIONS FOUND IN THE FIELD SHALL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO THE START OF CONSTRUCTION STAKING.
10. RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATION. PIPELINE CONTRACTOR SHALL USE PRECAST CONCRETE ADJUSTMENT RINGS, GROUT, AND STEEL SHIMS TO ADJUST THE MANHOLE FRAME TO THE REQUIRED FINAL GRADE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS. ALL FRAMES SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.
11. DISTANCES FOR SANITARY SEWER ARE THE HORIZONTAL DISTANCES FROM CENTER OF MANHOLE TO CENTER OF MANHOLE. THEREFORE, DISTANCES SHOWN ON PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT.
12. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE 6" ABOVE FINISHED GROUND ELEVATIONS IN UNPAVED AREAS.
13. COMPACTION OF ALL TRENCHES WITHIN THE PUBLIC ROW MUST BE ATTAINED AND COMPACTION RESULTS SUBMITTED TO THE CITY ENGINEER PRIOR TO FINAL ACCEPTANCE.
14. CONTRACTOR TO USE OSHA STANDARDS FOR ALL TRENCHING AND HAVE AN OSHA STANDARD TRENCH BOX WITH A LADDER FOR EGRESS.
15. SHOP DRAWINGS FOR ALL MATERIALS AND APPURTENANCES SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER AND ENGINEER. NO WORK IS TO BEGIN UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED, APPROVED AND RETURNED TO THE CONTRACTOR.

EROSION CONTROL NOTES:

1. EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITY COMMENCES.
2. A VEHICLE TRACKING CONTROL STRIP 25'X 50'X 6" WITH 1 ½" TO 3" ROCK IS TO BE PLACED AND MAINTAINED BY THE GENERAL CONTRACTOR AT ALL ACCESS POINTS INTO THE CONSTRUCTION SITE.
3. A 20'X 20' CONCRETE WASH OUT AREA OR APPROVED EQUAL SHALL BE ESTABLISHED NEAR THE EXIT TO THE SITE. THE AREA SHALL BE FENCED WITH ORANGE SAFETY FENCING ON THREE SIDES AND HAVE AN EARTHEN BERM, OR DEPRESSION CUT INTO THE GRADE TO PREVENT WATER AND CONCRETE FROM LEAVING THE AREA. A SIGN DIRECTING ALL CONCRETE TRUCKS TO THE WASHOUT MUST BE ERCTED AT ALL ENTRANCES TO THE SITE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE WASHOUT AREA PRIOR TO LEAVING THE SITE ONCE INITIAL SITE CONSTRUCTION IS COMPLETE. BURYING OF THE DEBRIS IS STRICTLY PROHIBITED.
4. SILT FENCE OR APPROVED EQUAL SHALL BE PLACED ALONG THE DOWN-GRADIENT PERIMETER OF SITE.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES AND SHALL BE RESPONSIBLE FOR ANY AND ALL FINES ASSOCIATED WITH THE DISCHARGE OF SEDIMENTS, EROSION, OR POLLUTANTS LEAVING THE SITE AS A RESULT OF CONSTRUCTION ACTIVITY.
6. NO SOIL STOCKPILE SHALL EXCEED 10 FEET IN HEIGHT. ALL SOIL STOCKPILES SHALL BE PROTECTED FROM SEDIMENT TRANSPORT BY SURFACE ROUGHENING, WATERING, AND PERIMETER SILT FENCING OR EARTHEN BERM. ANY SOIL STOCKPILES REMAINING AFTER THREE MONTHS FROM THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES SHALL BE SEEDDED WITH A TEMPORARY COVER CROP OR REMOVED FROM THE SITE.
7. ONCE FINAL GRADING IS COMPLETE, ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RIPPED BY A GRADER IN CORN FURROW FASHION OR SEEDDED. THE FURROWS SHALL BE PERPENDICULAR TO THE GRADE OF THE LAND. IT IS THE RESPONSIBILITY OF THE DEVELOPER/OWNER TO MAINTAIN THIS EROSION CONTROL MEASURE FOR THE DURATION OF THE 2 YEAR WARRANTY PERIOD.
8. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES THAT WILL REMAIN AS OUTLOTS, OPEN SPACE, DETENTION PONDS, FOREBAYS, OR TRAILS SHALL RECEIVE 4 INCHES OF TOPSOIL AND SHALL BE SEEDDED. SOIL PREPARATION, FERTILIZER, COMPOST, SEEDING, AND MULCHING WILL BE REQUIRED. SEED TAGS WILL BE COLLECTED BY THE CITY OF EVANS.
9. GRASS SEED SHALL BE PLANTED WITH A GRASS SEED DRILL (NOT A GRAIN DRILL) AT A DEPTH OF ½" TO ¾". BROADCAST SEEDING OF GRASS SEED IS NOT ACCEPTABLE. STRAW MULCH SHALL BE SPREAD AND CRIMPED INTO THE SOIL AT A RATE OF 4,000 LBS/ACRE. HYDROSEEDING AND HYDROMULCHING IS ACCEPTABLE IN LIEU OF DRILL SEEDING AND CRIMPING OF MULCH STRAW, ONLY IN AREAS THAT ARE INACCESSABLE TO LANDSCAPING EQUIPMENT, AND MUST BE APPROVED BY THE CITY OF EVANS PRIOR TO USE.
10. THE DEVELOPER/OWNER IS RESPONSIBLE FOR HIRING A CONTRACTOR TO REMOVE ALL TEMPORARY EROSION CONTROL MEASURES ONCE CONSTRUCTION IS COMPLETE AND ALL OPEN SPACE AREAS, OUTLOTS, DETENTION PONDS, FOREBAYS, AND TRAIL CORRIDORS ARE STABILIZED WITH AT LEAST 80 PERCENT GROWTH OF SEEDDED GROUND COVER.

EROSION CONTROL NOTES:

1. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. FOR INFORMATION CONTACT THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION, SQCD-PE-B2, 4300 CHERRY CREEK DRIVE SOUTH, DENVER, COLORADO 80246-1530, ATTENTION PERMITS AND ENFORCEMENT SECTION. (303) 692-3575. THE WATER QUALITY PERMITTING PAGE CAN BE ACCESSSED AT WWW.CDPHE.STATE.CO.US/WQ/PERMITSUNIT/WQCDPMT.HTML.
2. IF THE CONSTRUCTION SITE IS ONE ACRE OR GREATER IN SIZE, OR IF ANY FORM OF DE-WATERING IS TO BE USED ON THE CONSTRUCTION SITE, THEN PROOF OF A STORM WATER DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT IS REQUIRED TO BE SUBMITTED TO THE CITY OF EVANS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.
3. THE GENERAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE WORK, AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THE GENERAL CONTRACTOR SHALL GIVE THE CITY OF EVANS AT LEAST 24 HOURS ADVANCE NOTICE BEFORE BEGINNING CONSTRUCTION. A PRE-CONSTRUCTION MEETING WITH THE CITY OF EVANS IS THE PREFERRED METHOD OF NOTIFYING THE CITY OF CONSTRUCTION ACTIVITY.
5. ALL STORM WATER CONSTRUCTION SHALL CONFORM TO THE CITY OF EVANS STANDARDS AND SPECIFICATIONS CURRENT TO THE DATE OF CONSTRUCTION. A CURRENT COPY CAN BE DOWNLOADED FROM THE CITY OF EVANS WEBSITE AT WWW.EVANSCOLORADO.GOV.
6. ALL STORM WATER PIPE SHALL BE CONCRETE REINFORCED PIPE AND SHALL MEET ASTM C-76 CLASS III STANDARDS, UNLESS NOTED, OR APPROVED OTHERWISE. ALL STORM WATER PIPE JOINTS SHALL BE INTEGRAL BELL AND SPIGOT WITH RUBBER O-RING TYPE GASKETS PER ASTM C-361.
7. STORM SEWER MANHOLES SHALL BE 4 FOOT DIAMETER FOR 30 INCH PIPE OR LESS, AND 5 FOOT DIAMETER FOR 36 INCH PIPE OR LARGER. FOR SIZES ABOVE 36 INCH, CONCRETE JUNCTION BOXES, OR PRE-CAST MANHOLE TEES MUST BE DETAILLED BY THE DESIGN ENGINEER.
8. ALL PIPES ENTERING THE MANHOLE SHALL BE COMPLETELY GROUTED WITH NON-SHRINK GROUT AROUND THE OUTSIDE DIAMETER OF THE PIPE AND THE MANHOLE WALLS.
9. ALL STORM SEWER MANHOLE LIDS AND STORM SEWER INLET LIDS SHALL BE CAST DUCTILE IRON AND BEAR THE "FISH" LOGO WITH THE WORDING "NO DUMPING DRAINS TO RIVER".
10. MANHOLE TESTING MAY BE NECESSARY IF THE MANHOLE IS LOCATED WITHIN AN AREA OF HIGH GROUND WATER.
11. MANHOLE ELEVATIONS ARE APPROXIMATE AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE PAVING CONTRACTOR SHALL USE NO MORE THAN 4 CONCRETE ADJUSTMENT RINGS, OR AN APPROVED EQUAL TO MATCH FINAL PAVEMENT ELEVATIONS.
12. ALL MANHOLE OR INLET STATIONING REFERS TO THE CENTER OF THE MANHOLE, OR THE CENTER OF THE INLET. ALL PIPE LENGTHS ARE MEASURED TO THE CENTER OF THE MANHOLE AND THE INSIDE EDGE OF THE INLET.
13. THE CITY OF EVANS SHALL NOT BE RESPONSIBLE FOR THE MAINTENANCE OF STORM DRAINAGE FACILITIES LOCATED ON PRIVATE PROPERTY. MAINTENANCE OF ONSITE DRAINAGE STRUCTURES AND FACILITIES SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/ OWNER UNTIL THE FINAL ACCEPTANCE OF THE PROJECT IS COMPLETE.

LANDSCAPING NOTES:

1. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES THAT WILL REMAIN AS OUTLOTS, OPEN SPACE, DETENTION PONDS, FOREBAYS, OR TRAILS SHALL RECEIVE 4 INCHES OF TOPSOIL AND SHALL BE SOIL PREPARATION, FERTILIZER, COMPOST, SEEDING, AND MULCHING WILL BE REQUIRED.
2. ALL PLANTINGS REQUIRED SHALL UTILIZE THE CITY OF EVANS PARKS AND RECREATION APPROVED LANDSCAPING PLANTING LIST.
3. ALL SEEDING SHALL UTILIZE THE CITY OF EVANS LAWN AND GRASS SPECIFICATIONS.
4. GRASS SEED SHALL BE PLANTED WITH A GRASS SEED DRILL (NOT A GRAIN DRILL) AT A DEPTH OF ½" TO ¾". BROADCAST SEEDING OF GRASS SEED IS NOT ACCEPTABLE. STRAW MULCH SHALL BE SPREAD AND CRIMPED INTO THE SOIL AT A RATE OF 4,000 LBS/ACRE. HYDROSEEDING AND HYDROMULCHING IS ACCEPTABLE IN LIEU OF DRILL SEEDING AND CRIMPING OF MULCH STRAW, ONLY IN AREAS THAT ARE INACCESSABLE TO LANDSCAPING EQUIPMENT, AND MUST BE APPROVED BY THE CITY OF EVANS PRIOR TO USE.
5. ALL PLANTINGS REQUIRED BY THE PLANNING DIVISION APPROVED LANDSCAPING PLAN SHALL UTILIZE THE CITY OF EVANS PARKS AND RECREATION APPROVED LANDSCAPING PLANTING LIST.
6. ALL SEEDING REQUIRED BY EITHER THE CITY OF EVANS ENGINEERING DIVISION, OR PLANNING DIVISION SHALL UTILIZE THE CITY OF EVANS PARKS AND RECREATION IRRIGATION DESIGN GUIDELINES.

GENERAL CONSTRUCTION NOTES:

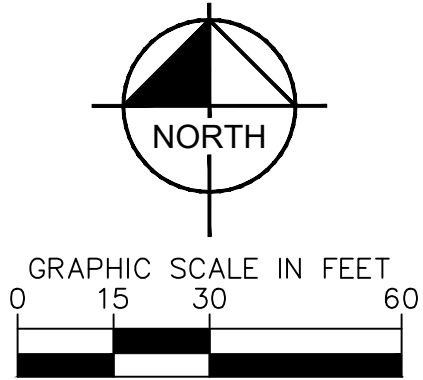
1. THE GENERAL CONTRACTOR SHALL GIVE THE CITY OF EVANS AT LEAST 24 HOURS ADVANCE NOTICE BEFORE BEGINNING CONSTRUCTION. A PRE-CONSTRUCTION MEETING WITH THE CITY OF EVANS IS THE PREFERRED METHOD OF NOTIFYING THE CITY OF CONSTRUCTION ACTIVITY.
 2. ALL CONTRACTORS AND SUBCONTRACTORS SHALL HAVE A SET OF APPROVED CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES.
 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF EVANS, AND THE APPROVED PROJECT DOCUMENTS.
 4. THE GENERAL CONTRACTOR SHALL CALL THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 1-(800)-922-1987, OR THE NATIONWIDE UTILITY CONTACT NUMBER (811), TO REQUEST LOCATES OF ALL UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITY. ALL VERTICAL AND HORIZONTAL DATUM INFORMATION SHOULD BE OBTAINED USING THE EVANS GEODETIC SURVEY CONDUCTED BY ALBERS, DREXEL & POHLY, INC. JANUARY 9, 1998. A COPY OF FINAL COORDINATES, ELEVATIONS, AND MONUMENT DESCRIPTIONS CAN BE OBTAINED BY CONTACTING THE CITY OF EVANS ENGINEERING DIVISION AT (970) 475-1180.
 6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATIONS AND PROTECTION OF ALL EXISTING UTILITIES SHOWN, AND ALL EXISTING UTILITIES NOT SHOWN, AND ALL PROPOSED UTILITES ON THESE PLANS.
 7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ADJACENT IMPROVEMENTS FROM DAMAGE AND EROSION. ANY ADJACENT IMPROVEMENT DAMAGED DURING CONSTRUCTION SHALL, AT A MINIMUM, BE RESTORED TO A STATE EQUAL TO ITS PRECONSTRUCTION STATE.
 8. THE GENERAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE WORK, AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
 9. IDENTIFYING THE NEED FOR A PERMIT, PREPARING THE APPLICATION, AND PAYING THE SUBMITTAL AND REVIEW FEES NECESSARY TO SECURE PERMITS WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. A COPY OF ALL PERMITS MUST BE ON SITE AT ALL TIMES.
 10. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR STORM WATER DISCHARGE, ASSOCIATED WITH CONSTRUCTION ACTIVITY. FOR INFORMATION, CONTACT THE COLORADO DEPARTMENT OF PUBLIC HEALTH, AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION, SQCD-PE-B2, 4300 CHERRY CREEK DRIVE SOUTH, DENVER, COLORADO 80246-1530, ATTENTION PERMITS AND ENFORCEMENT SECTION. (303) 692-3500. THE WATER QUALITY PERMITTING PAGE CAN BE ACCESSSED AT WWW.CDPHE.STATE.CO.US/WQ/PERMITSUNIT/WQCDPMT.HTML.
 11. IF DEWATERING IS TO BE USED, THEN A STATE CONSTRUCTION DEWATERING DISCHARGE PERMIT IS REQUIRED IF DISCHARGE IS INTO A STORM SEWER, CHANNEL, IRRIGATION DITCH, OR ANY WATERS OF THE UNITED STATES.
 12. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL SOILS REPORT AND PAVEMENT DESIGN REPORT, PRODUCED, OR REFERENCED FOR THIS PROJECT.
 13. THE GENERAL CONTRACTOR SHALL PERFORM THE WORK ACCORDING TO ALL CITY, COUNTY, STATE, AND FEDERAL SAFETY AND HEALTH REGULATIONS. IN PARTICULAR, THE "TRENCHING" AND "OPEN EXCAVATION" OPERATIONS SHALL COMPLY WITH ALL CURRENT O.S.H.A. REGULATORY REQUIREMENTS.
 14. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF EVANS STANDARDS AND SPECIFICATIONS LATEST REVISION THEREOF. A CURRENT COPY CAN BE DOWNLOADED FROM THE CITY OF EVANS WEBSITE AT WWW.EVANSCOLORADO.GOV.
 15. THE CITY OF EVANS FOLLOWS ALL TRAFFIC CONTROL STANDARDS SET FORTH IN THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
 16. A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED FOR ANY AND ALL UTILITY WORK PERFORMED WITH THE CITY OF EVANS RIGHT-OF-WAY. TRAFFIC CONTROL PLANS CAN BE EMAILED TO THE ENGINEERING DIVISION ATTENTION MARK OBERSCHMIDT moberschmidt@evanscolorado.gov
 17. ALL STREET LIGHTING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE CITY OF EVANS RESIDENTIAL NEIGHBORHOOD DESIGN STANDARDS.
 18. ALL PLANTINGS SHALL UTILIZE THE CITY OF EVANS PARKS AND RECREATION APPROVED LANDSCAPING PLANTING LIST.
 19. ALL SEEDING SHALL UTILIZE THE CITY OF EVANS IRRIGATION DESIGN GUIDELINES AND THE LAWN AND GRASS SPECIFICATIONS SECTION 02930.
 20. ALL WORK INCLUDING WARRANTY WORK, SHALL BE INSPECTED BY A CITY REPRESENTATIVE WHO SHALL HAVE AUTHORITY TO HALT CONSTRUCTION WHEN PROPER CONSTRUCTION PRACTICES ARE NOT BEING ADHERED TO.
 21. THERE SHALL BE NO WORK PERFORMED ON THE WEEKENDS, OR HOLIDAYS EXCEPT BY APPROVAL OF THE CITY OF EVANS WITH A MINIMUM OF 24 HOURS NOTICE.
 22. THE GENERAL CONTRACTOR SHALL NOTIFY ALL RESIDENTS IN WRITING PRIOR TO ANY DISRUPTION IN SERVICE. THE NOTICES MUST HAVE THE GENERAL CONTRACTORS PHONE NUMBER AND THE NAME OF A CONTACT PERSON, AND EMERGENCY PHONE NUMBER FOR AFTER HOUR CALLS. NOTICES SHALL NOT BE LEFT IN MAILBOXES UNLESS PROPERLY SENT THROUGH THE U.S. POST OFFICE.
 23. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THEIR OWN DISPOSAL SITE FOR ALL EXCESS MATERIALS.
 24. THE ENGINEER WHO HAS PREPARED THESE PLANS, BY EXECUTION AND/ OR SEAL HEREOF DOES HEREBY AFFIRM RESPONSIBILITY TO THE CITY OF EVANS, AS A BENEFICIARY OF SAID ENGINEER'S WORK, FOR ANY ERRORS OR OMISSIONS CONTAINED IN THESE PLANS. ACCEPTANCE OF THESE PLANS BY THE CITY OF EVANS SHALL NOT RELIEVE THE ENGINEER WHO HAS PREPARED THESE PLANS OF SUCH RESPONSIBILITY.
- UTILITY NOTES:
1. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL UTILITIES AND STRUCTURES AFFECTED BY THE WORK AND ANY DAMAGE SHALL BE REPAIRED AND RESTORED TO THE SATISFACTION OF THE CITY OF EVANS. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS AS NECESSARY. THE CITY ENGINEERING INSPECTORS AND UTILITY DEPARTMENTS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WHERE THESE DEPARTMENTS MAY BE AFFECTED.
 2. SEE SUBSURFACE UTILITY ENGINEERING PLANS SHEET FOR ADDITIONAL UTILITY INFORMATION AND NOTES.
 3. THE CONTRACTOR SHALL NOTIFY CITY OF EVANS UTILITIES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION NEAR ANY SANITARY FACILITIES.
 4. THE CONTRACTOR WILL CONTACT EACH UTILITY COMPANY A MINIMUM OF 2 BUSINESS DAYS, WITH THE EXCEPTION OF EXCEL THAT HAS REQUESTED 1 WEEK NOTICE, PRIOR TO WORKING IN THE UTILITY COMPANY'S AREA SO THAT THE UTILITY COMPANY CAN PROVIDE A STANDBY AND/OR COMPLETE ANY NECESSARY ADJUSTMENT.
 5. IN SOME OF THE PROPOSED AREAS OF CONSTRUCTION, EXISTING UNDERGROUND WATER, GAS, AND SANITARY FACILITIES MAY BE LOCATED IN CLOSE PROXIMITY TO THE WORK. THE CONTRACTOR SHALL NOT EXPOSE OR UNDERMINE THESE UTILITIES.
 6. CONTRACTOR-CAUSED DAMAGE TO UTILITY AND/OR SERVICE LINES, SHOWN OR NOT SHOWN ON THE PLANS SHALL BE REPAIRED OR REPLACED AT NO COST TO THE CITY OF EVANS AND SHALL BE ACCOMPLISHED BY THE CONTRACTOR, SUBCONTRACTOR OR AS APPROVED BY THE CITY ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK IN THE PROJECT AREA. LIKEWISE, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK IN THE PROJECT AREA. LIKEWISE, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS/HER WORK AND THAT OF KNOW WHAT'S BELOW, THE INVOLVED UTILITIES IN THE PROJECT AREA.
 7. THE CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS AND INCLUDE THIS TIME IN THEIR SCHEDULE.

| | | | | | | | | | | | | | |
|--|--|--------------|--|-------------|--|--------------|--|----------|--|------|--|---------------|--|
| DRAWN BY: | | DESIGNED BY: | | CHECKED BY: | | PROJECT NO.: | | SCALE: | | SEAL | | DESCRIPTION | |
| JF | | NW | | RB | | 268203003 | | AS SHOWN | | | | DATE | |
| 1/2/2026 | | 1/2/2026 | | 1/2/2026 | | | | | | | | | |
| GENERAL NOTES | | | | | | | | | | | | CITY OF EVANS | |
| 42ND STREET NON-POTABLE WATERLINE REPLACEMENT CONSTRUCTION DRAWINGS | | | | | | | | | | | | Kimley»Horn | |
| 3525 SOUTH TIMBERLINE ROAD, SUITE 101, FORT COLLINS, CO 80525 TEL: (970) 654-8888 | | | | | | | | | | | | | |
| SHEET C.1.1 | | | | | | | | | | | | | |



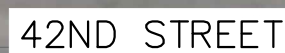
LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- SECTION LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING FENCE
- EXISTING GATE
- EXISTING SIGN
- EXISTING TREE
- EXISTING FIBER OPTIC (QUALITY LEVEL B)
- EXISTING GAS LINE (QUALITY LEVEL B)
- EXISTING STORM LINE (QUALITY LEVEL B)
- EXISTING STORM MANHOLE
- EXISTING SANITARY SEWER LINE (QUALITY LEVEL B)
- EXISTING SANITARY SEWER MANHOLE
- EXISTING GATE VALVE
- EXISTING AIR RELEASE VALVE
- EXISTING IRRIGATION LINE (QUALITY LEVEL B)
- EXISTING IRRIGATION MANHOLE



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|---|--|-----------------|--|-------------|--|
| SUBSURFACE UTILITY ENGINEERING | | DATE | | DESCRIPTION | |
| 42ND STREET NON-POTABLE WATERLINE REPLACEMENT CONSTRUCTION DRAWINGS | | | | | |
| CITY OF EVANS | | | | | |
| DRAWN BY: JF | | 1/2/2026 | | | |
| DESIGNED BY: NW | | 1/2/2026 | | | |
| CHECKED BY: RB | | 1/2/2026 | | | |
| PROJECT NO.: 238203003 | | SCALE: AS SHOWN | | | |
| SEAL | | | | | |
| SHEET C1.2 | | | | | |

Kimley»Horn
3325 SOUTH TIMBERLINE ROAD, SUITE 101, FORT COLLINS, CO 80525
TEL: (970) 655-8888



LEGEND

33325 SOUTH TIMBERLINE ROAD, SUITE 130 | FORT COLLINS, CO 80525
TEL: 970.220.0004

EROSION

EROSION CONTROL PLAN

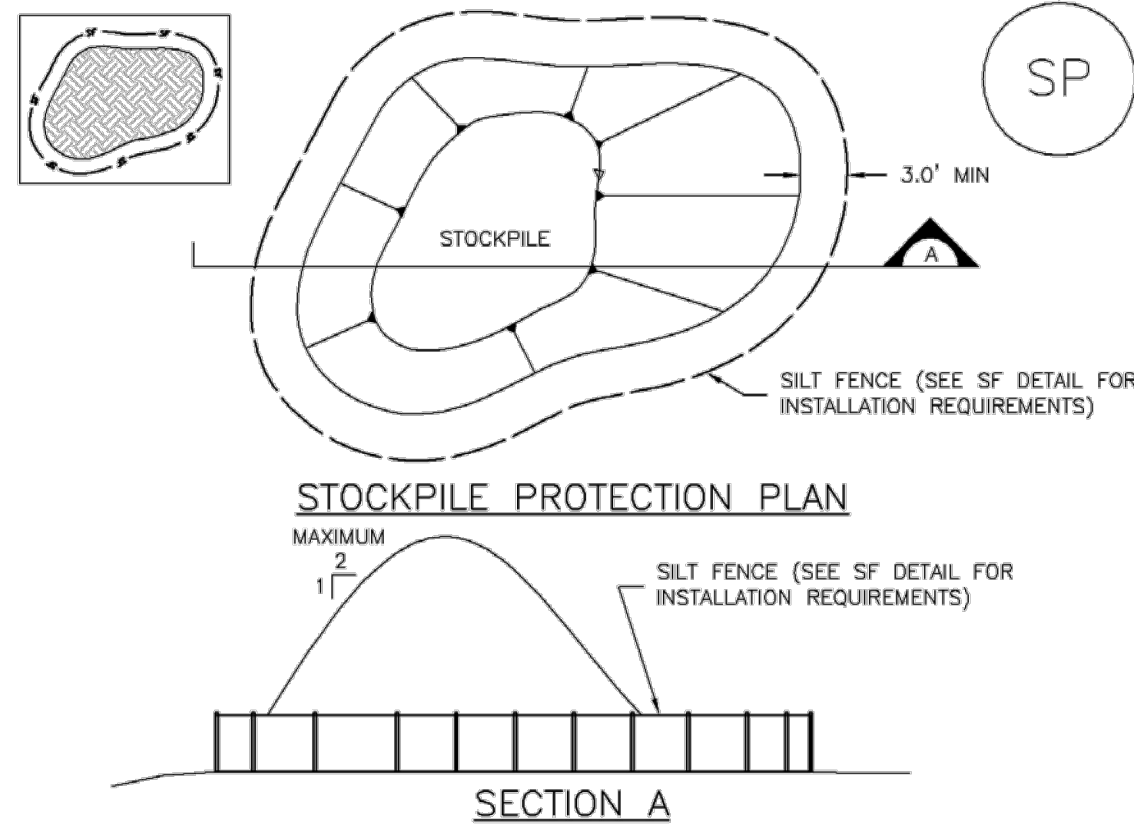
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SEAL

SHEET
C2.0

Stockpile Management (SP)

MM-2



SP-1. STOCKPILE PROTECTION

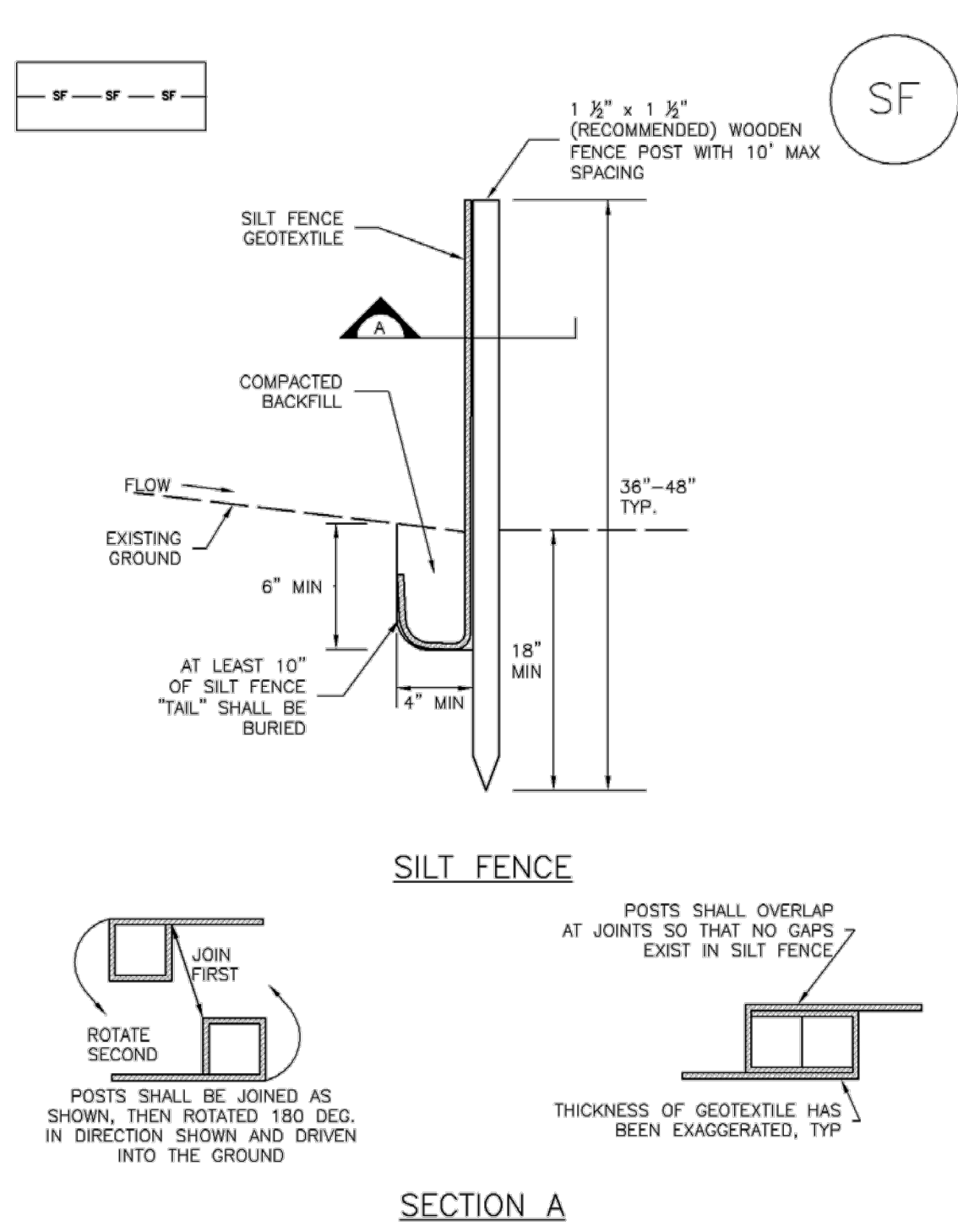
STOCKPILE PROTECTION INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF STOCKPILES.
 - TYPE OF STOCKPILE PROTECTION.
- INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
- STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
- FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADE CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SP-3

Silt Fence (SF)

SC-1



SF-1. SILT FENCE

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SF-3

MM-2

Stockpile Management (SM)

STOCKPILE PROTECTION MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.
- STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

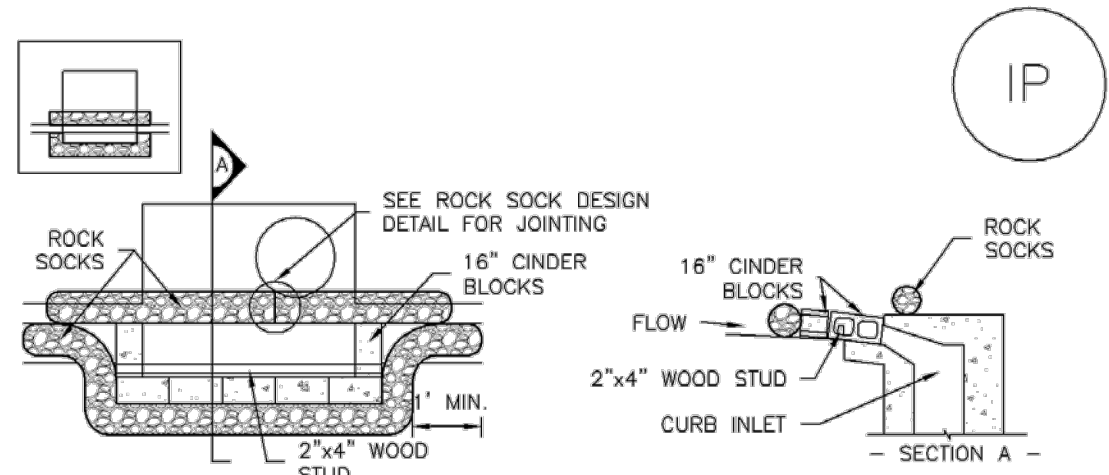
(DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SP-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

SC-6

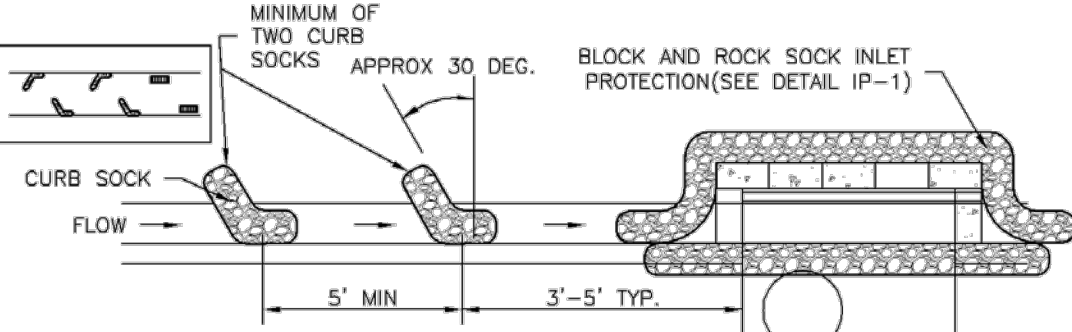
Inlet Protection (IP)



IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION

BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES

- SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
- CONCRETE "CINDER" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.
- GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.



IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

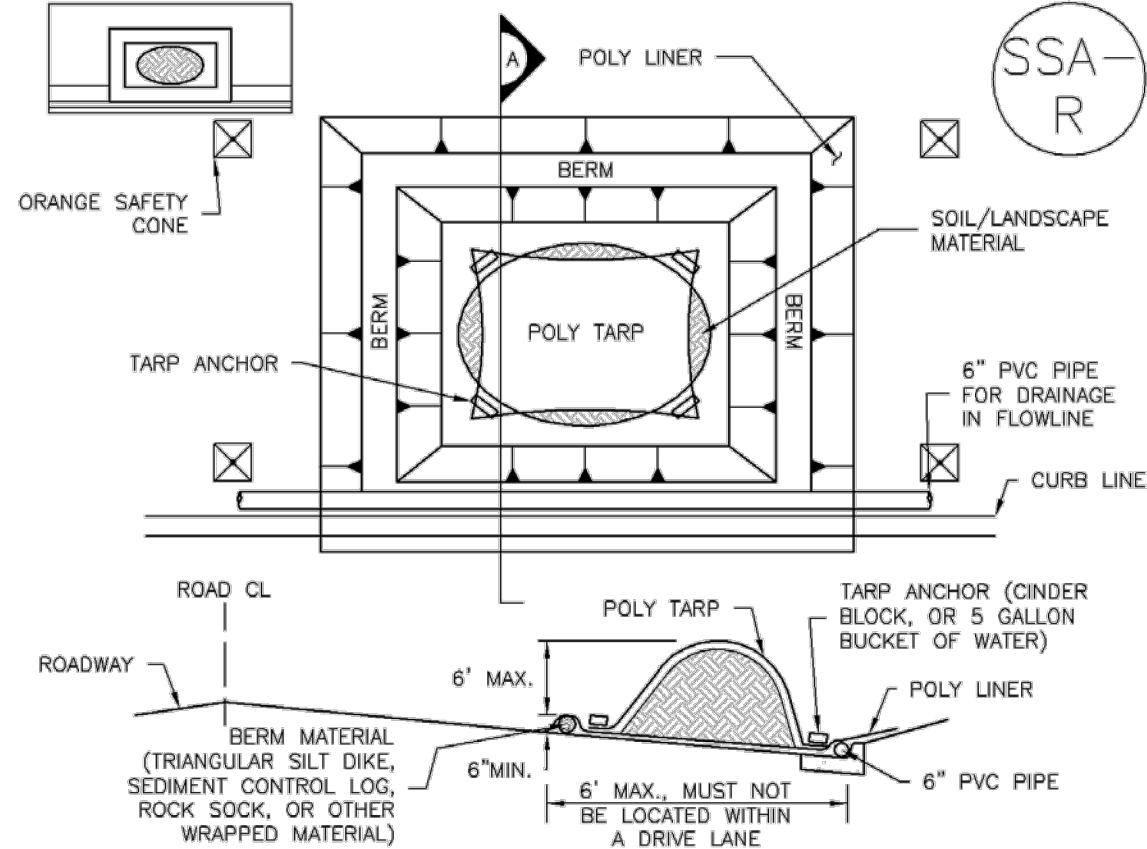
CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES

- SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.
- PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.
- SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.
- AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

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Stockpile Management (SP)

MM-2



SP-2. MATERIALS STAGING IN ROADWAY

MATERIALS STAGING IN ROADWAYS INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF MATERIAL STAGING AREA(S).
 - CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
- FEATURE MUST BE INSTALLED PRIOR TO EXCAVATION, EARTHWORK OR DELIVERY OF MATERIALS.
- MATERIALS MUST BE STATIONED ON THE POLY LINER. ANY INCIDENTAL MATERIALS DEPOSITED ON PAVED SECTION OR ALONG CURB LINE MUST BE CLEANED UP PROMPTLY.
- POLY LINER AND TARP COVER SHOULD BE OF SIGNIFICANT THICKNESS TO PREVENT DAMAGE OR LOSS OF INTEGRITY.
- SAND BAGS MAY BE SUBSTITUTED TO ANCHOR THE COVER TARP OR PROVIDE BERMING UNDER THE BASE LINER.
- FEATURE IS NOT INTENDED FOR USE WITH WET MATERIAL THAT WILL BE DRAINING AND/OR SPREADING OUT ON THE POLY LINER OR FOR DEMOLITION MATERIALS.
- THIS FEATURE CAN BE USED FOR:
 - UTILITY REPAIRS.
 - WHEN OTHER STAGING LOCATIONS AND OPTIONS ARE LIMITED.
 - OTHER LIMITED APPLICATION AND SHORT DURATION STAGING.

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SC-6

Inlet Protection (IP)

GENERAL INLET PROTECTION INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF INLET PROTECTION.
 - TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6)
- INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.
- MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

INLET PROTECTION MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/4 OF THE HEIGHT FOR STRAW BALES.
- INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
- WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY INLET PROTECTION; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN OTHER SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

IP-8 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

MM-2

Stockpile Management (SM)

MATERIALS STAGING IN ROADWAY MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- INSPECT PVC PIPE ALONG CURB LINE FOR CLOGGING AND DEBRIS. REMOVE OBSTRUCTIONS PROMPTLY.
- CLEAN MATERIAL FROM PAVED SURFACES BY SWEEPING OR VACUUMING.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM AURORA, COLORADO)

SP-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

EROSION CONTROL DETAILS I

42ND STREET NON-POTABLE WATERLINE REPLACEMENT CONSTRUCTION DRAWINGS

CITY OF EVANS

DRAWN BY: JF 1/2/2026
DESIGNED BY: NW 1/2/2026
CHECKED BY: RB 1/2/2026
PROJECT NO.: 236203003
SCALE: AS SHOWN

SEAL



SHEET C2.1



SM-6



STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR
-LOCATION OF ADJUSTING AREA(S).
-CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SPEC #703, ASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

November 2010
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3
SSA-3

SM-4



November 2010
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3
VTC-3

Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.

6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDS AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

SSA-4
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3
November 2010

Vehicle Tracking Control (VTC)

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

1. SEE PLAN VIEW FOR
-LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).
-TYPE OF CONSTRUCTION ENTRANCE(S)/EXITS(S) (WITH/WITHOUT WHEEL WASH,
CONSTRUCTION MAT OR TRM).

2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.

3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.

4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.

6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.

5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

VTC-6
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3
November 2010

DESCRIPTION

DATE _____

EROSION CONTROL DETAILS II

42ND STREET NON-POTABLE WATERLINE
REPLACEMENT CONSTRUCTION DRAWINGS

CITY OF EVANS

Kimley»»Horn

1000 E. ROAD, SUITE 130 | FORT COLLINS, CO 80525

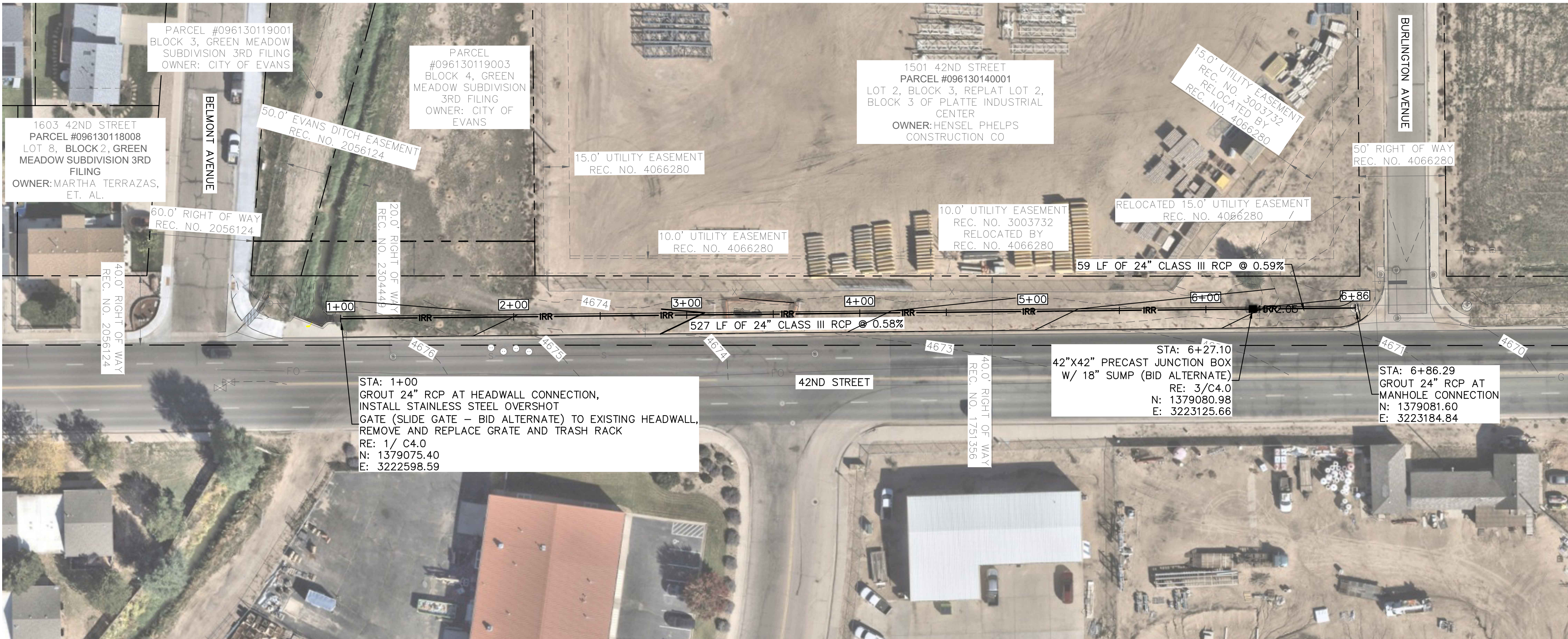
SEA



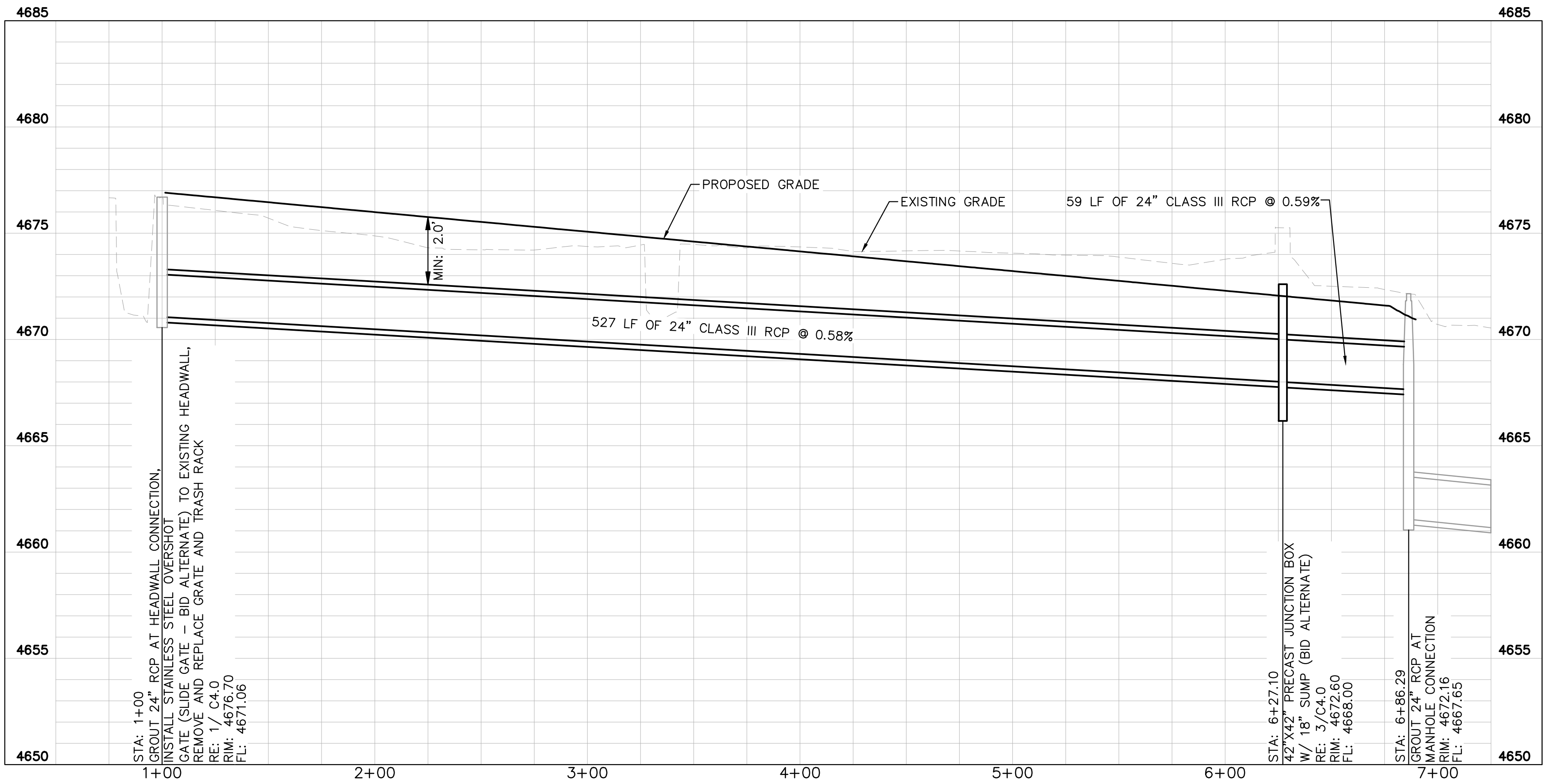
SHEET
C2.2



Know what's below.
Call before you dig.

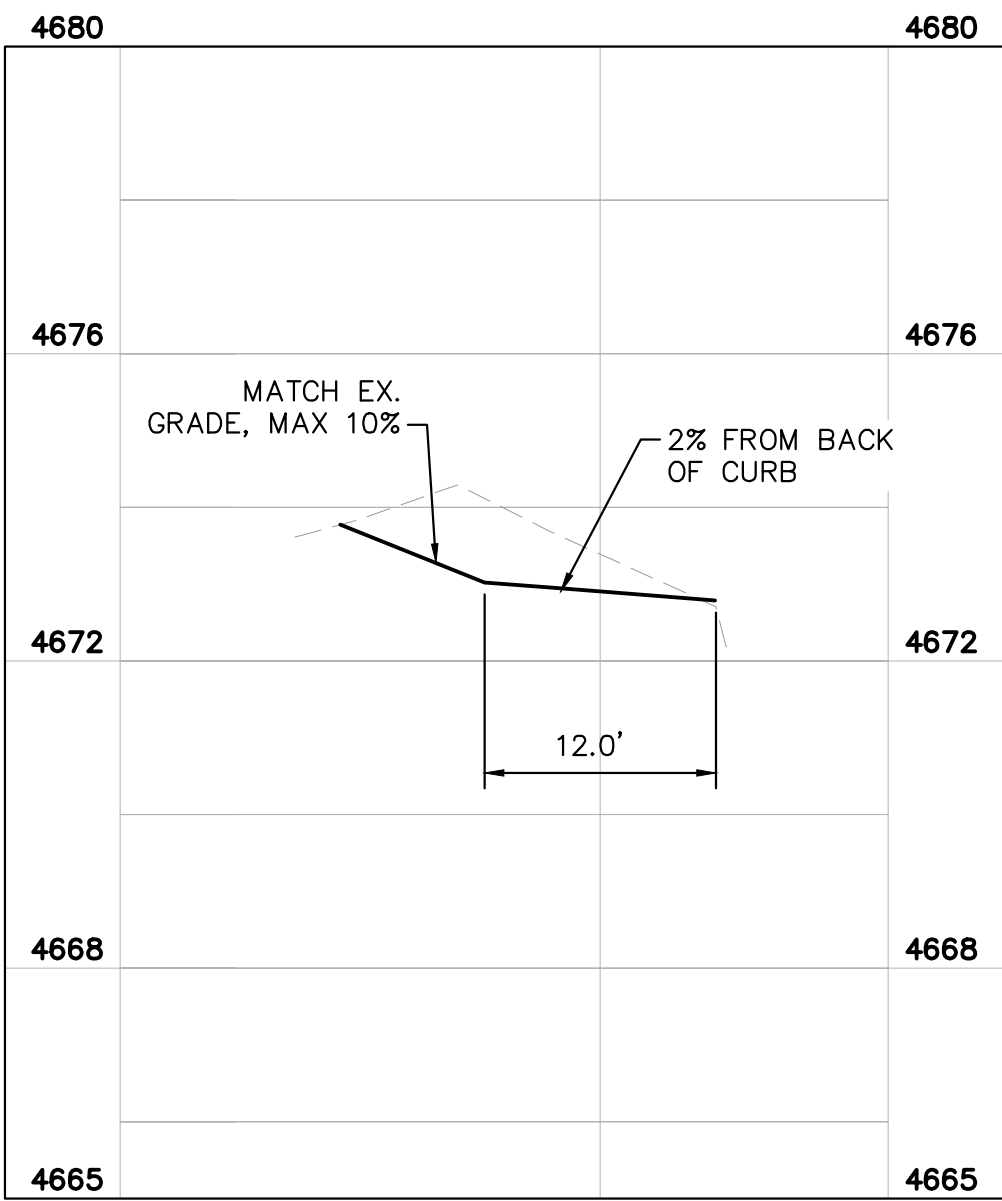


PLAN VIEW

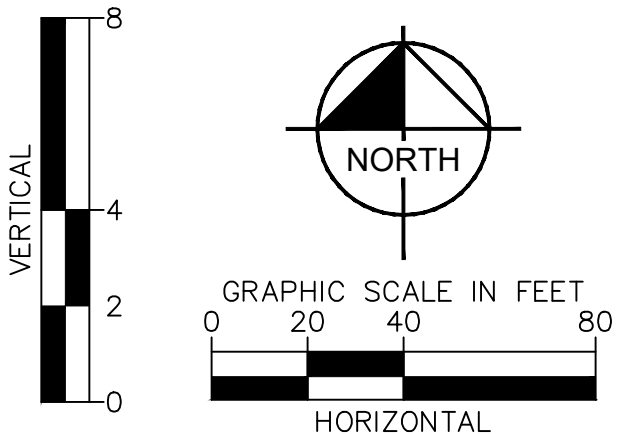


PROFILE VIEW

| LEGEND | |
|--------|---------------------------------|
| --- | PROPERTY LINE |
| --- | RIGHT OF WAY LINE |
| --- | EXISTING MAJOR CONTOUR |
| --- | EXISTING MINOR CONTOUR |
| X | EXISTING FENCE |
| o | EXISTING GATE |
| o | EXISTING SIGN |
| o | EXISTING TREE |
| FO | EXISTING FIBER OPTIC |
| G | EXISTING GAS LINE |
| ST | EXISTING STORM LINE |
| o | EXISTING STORM MANHOLE |
| S | EXISTING SANITARY SEWER LINE |
| o | EXISTING SANITARY SEWER MANHOLE |
| o | EXISTING GATE VALVE |
| o | EXISTING AIR RELEASE VALVE |
| o | EXISTING IRRIGATION LINE |
| o | EXISTING IRRIGATION MANHOLE |
| IRR | PROPOSED IRRIGATION MANHOLE |



TYPICAL ROW CROSS SECTION
1"=10' (H), 1"=4' (V)



| | | | | | | | | | |
|-----------------------|--|--------------------------|--|-------------------------|--|------------------------|--|-----------------|--|
| DRAWN BY: JF 1/2/2026 | | DESIGNED BY: NW 1/2/2026 | | CHECKED BY: RB 1/2/2026 | | PROJECT No.: 298203003 | | SCALE: AS SHOWN | |
| SEAL | | SEAL | | SEAL | | SEAL | | SEAL | |
| SHEET C3.1 | | SHEET C3.1 | | SHEET C3.1 | | SHEET C3.1 | | SHEET C3.1 | |

PLAN & PROFILE

42ND STREET NON-POTABLE WATERLINE REPLACEMENT CONSTRUCTION DRAWINGS

CITY OF EVANS

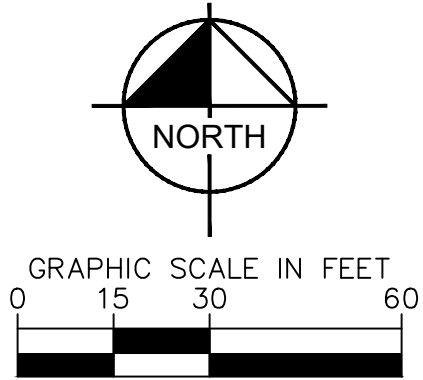
Kimley»Horn

3325 SOUTH TIMBERLINE ROAD, SUITE 101, FORT COLLINS, CO 80525
TEL: (970) 658-8898



LEGEND

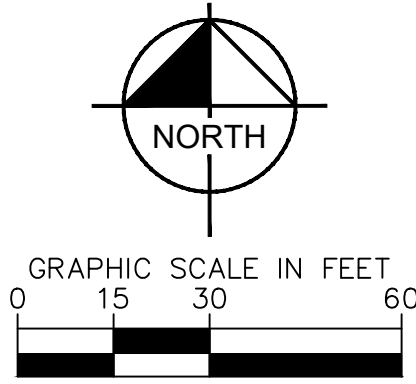
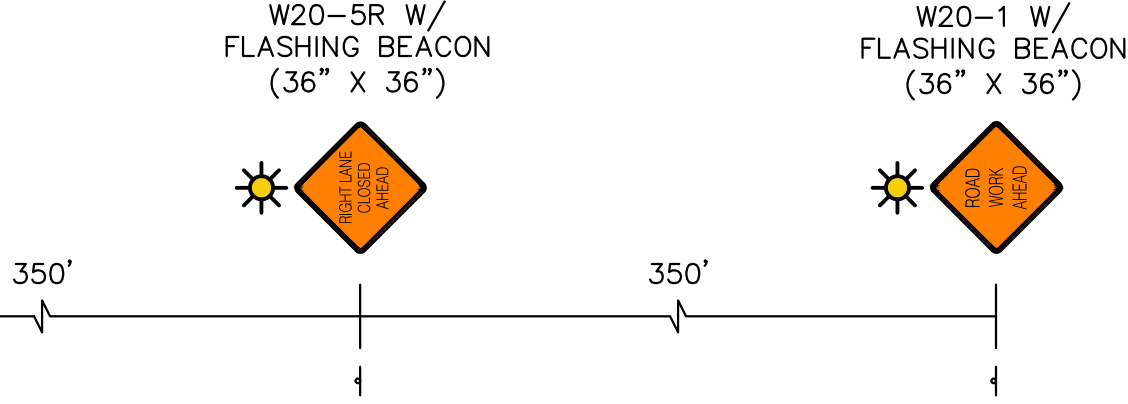
- CHANNELIZING DEVICE
- FLASHING ARROW PANEL
- TEMPORARY TRAFFIC CONTROL SIGN
- EXISTING SIGN
- WORK ZONE
- PROPERTY LINE
- RIGHT OF WAY LINE




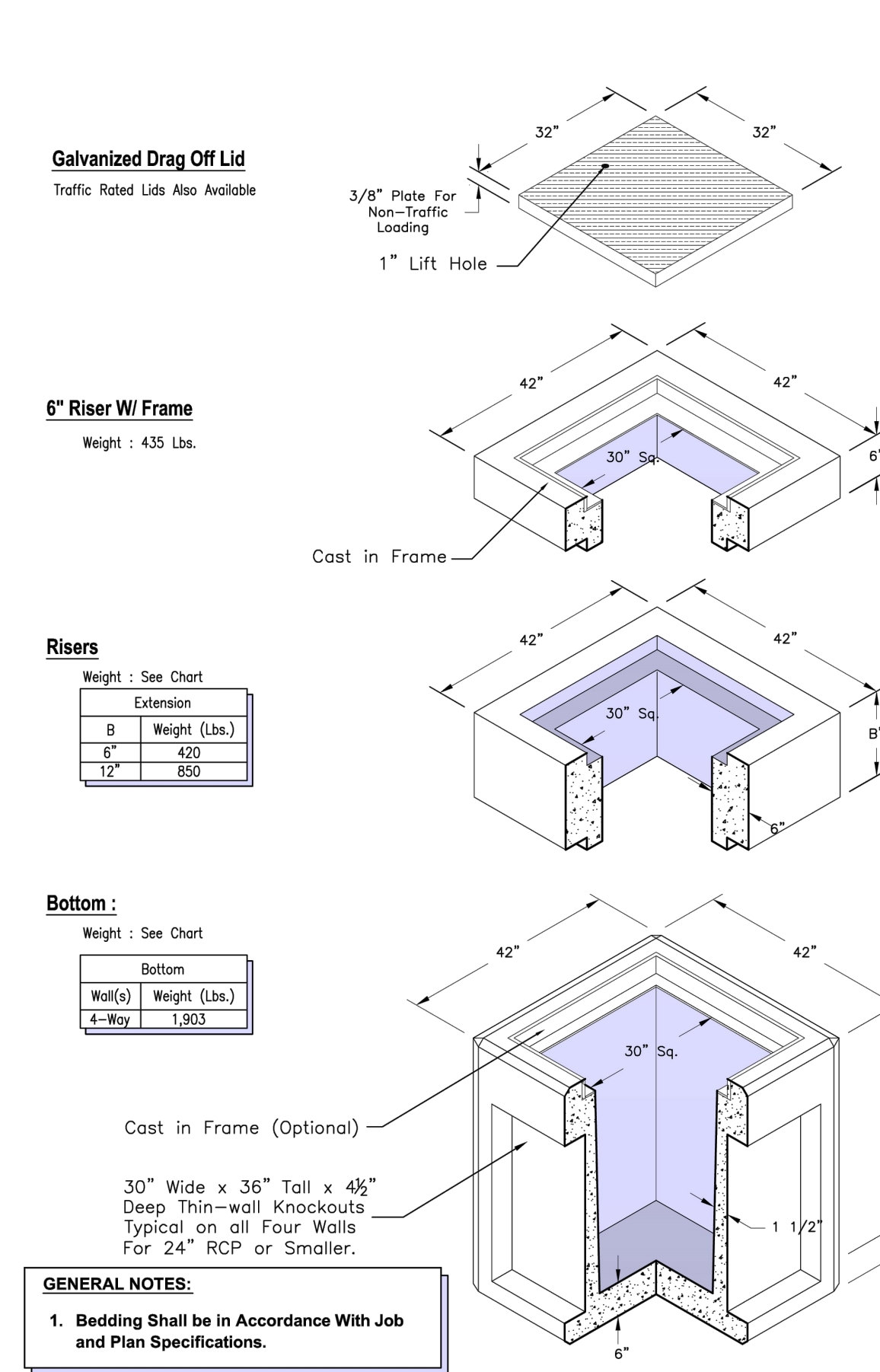
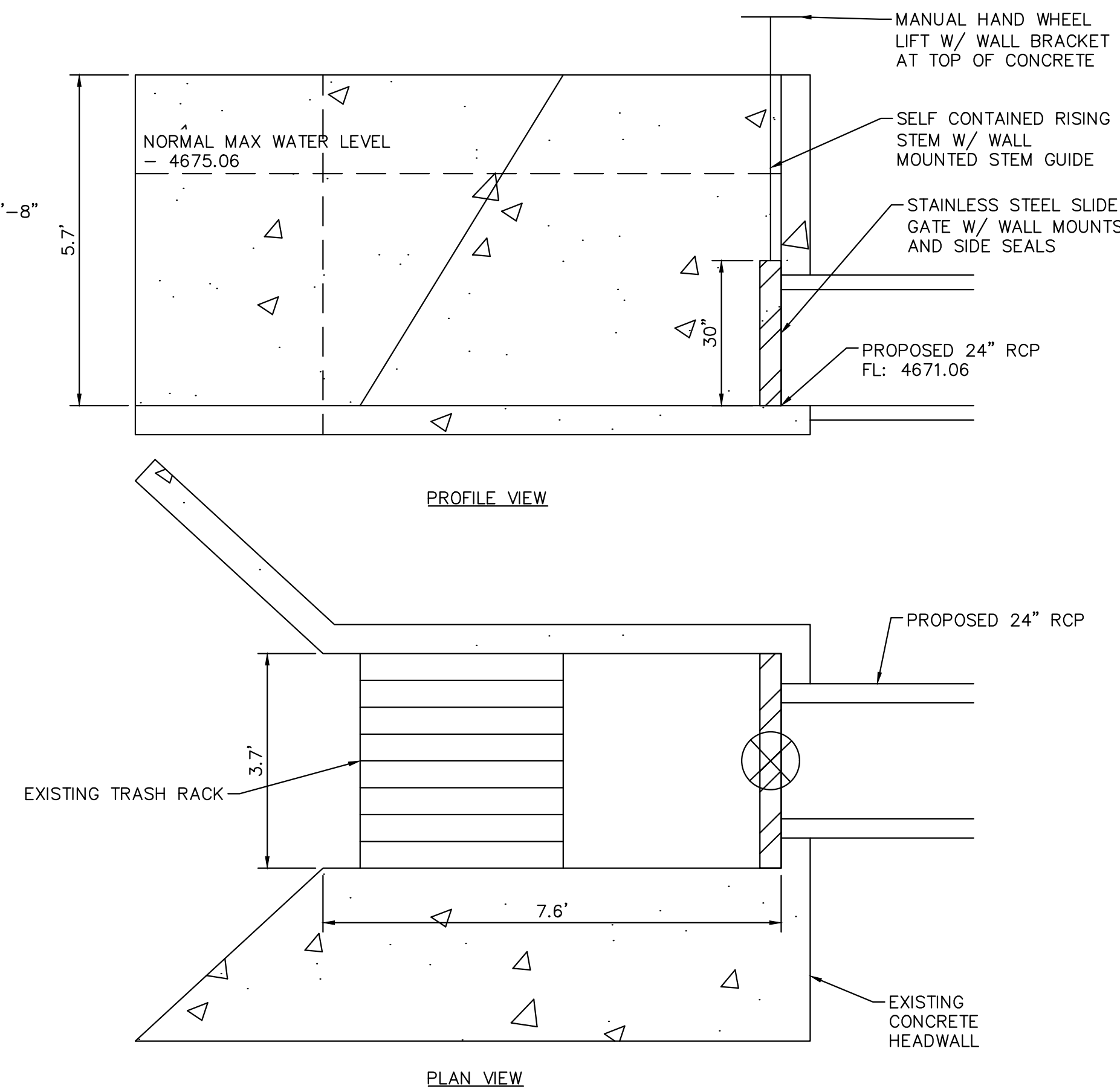
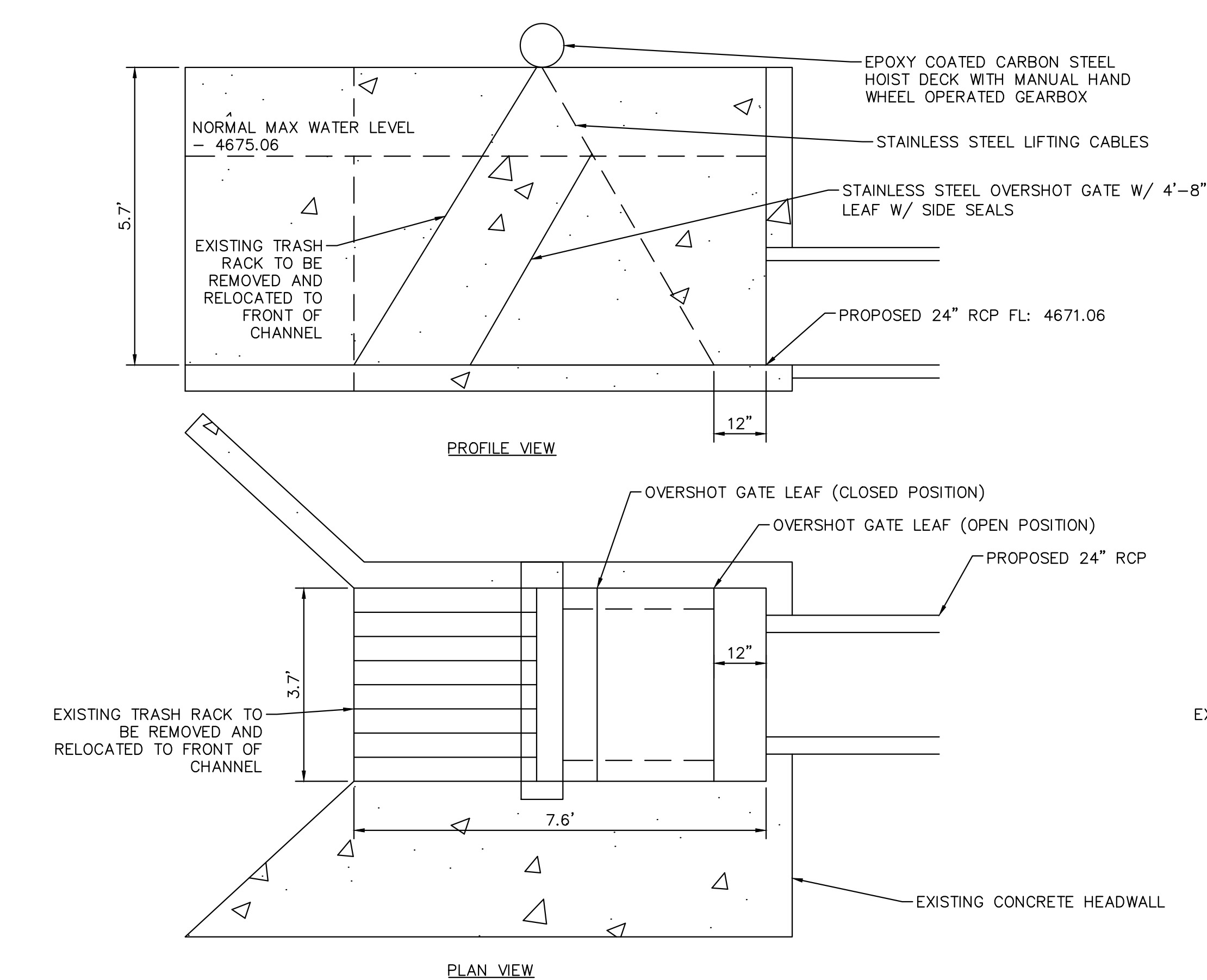
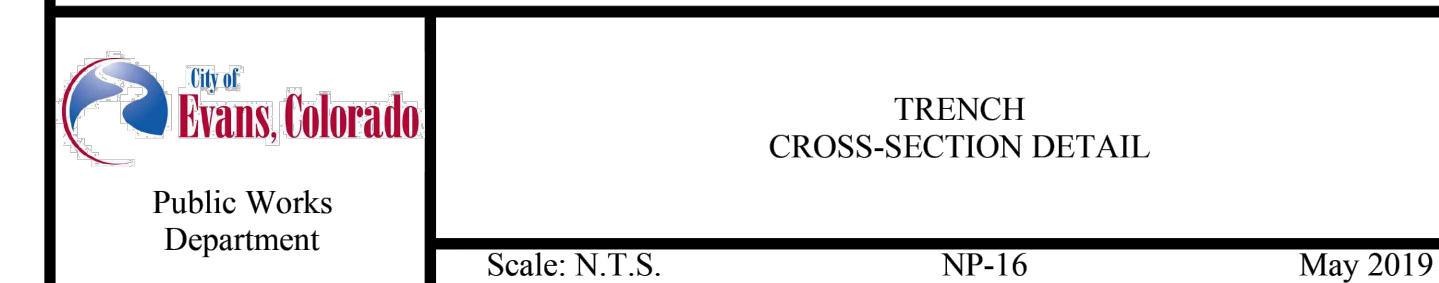
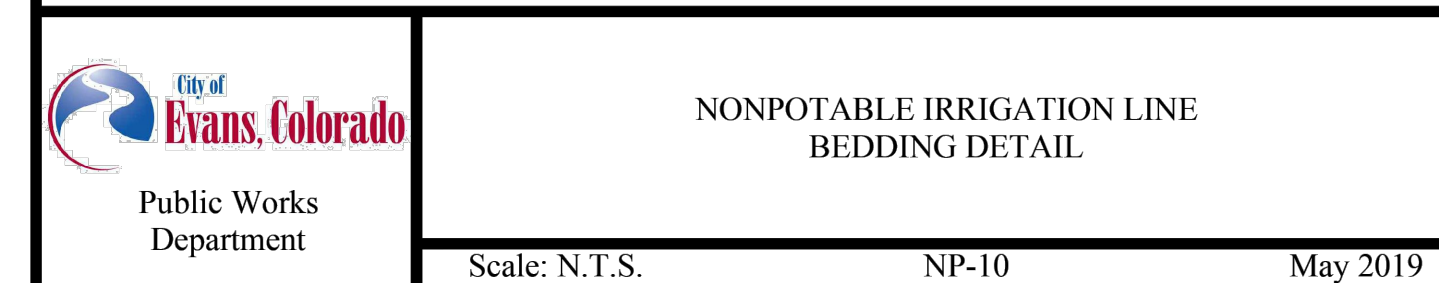
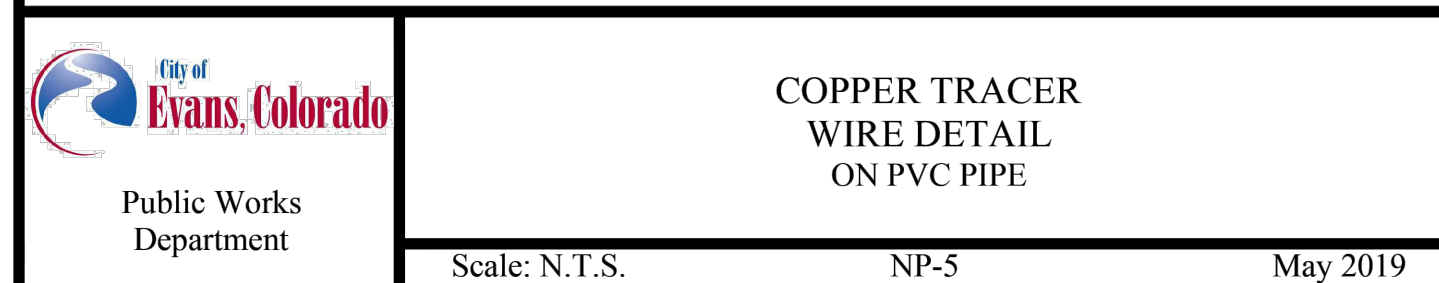
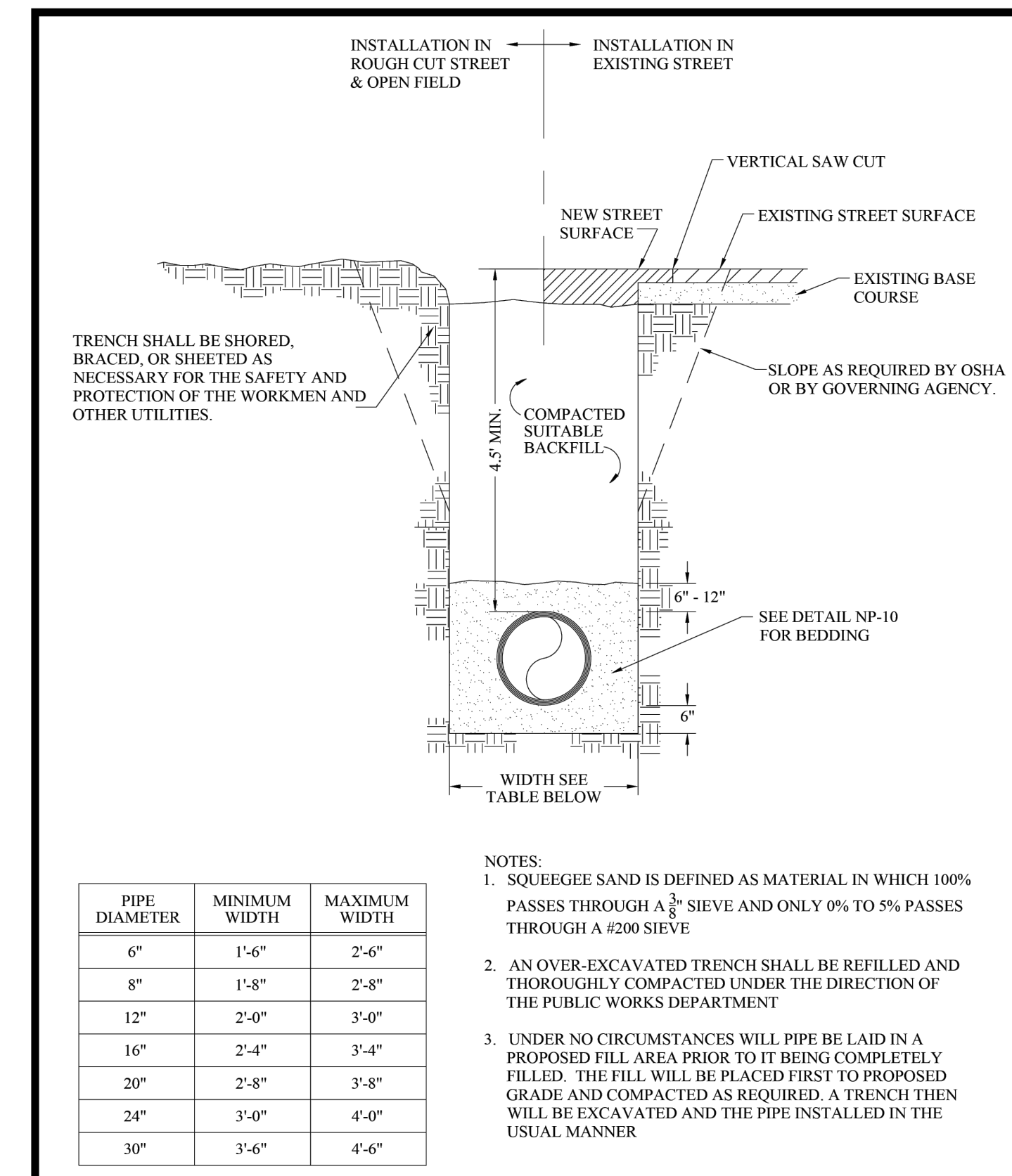
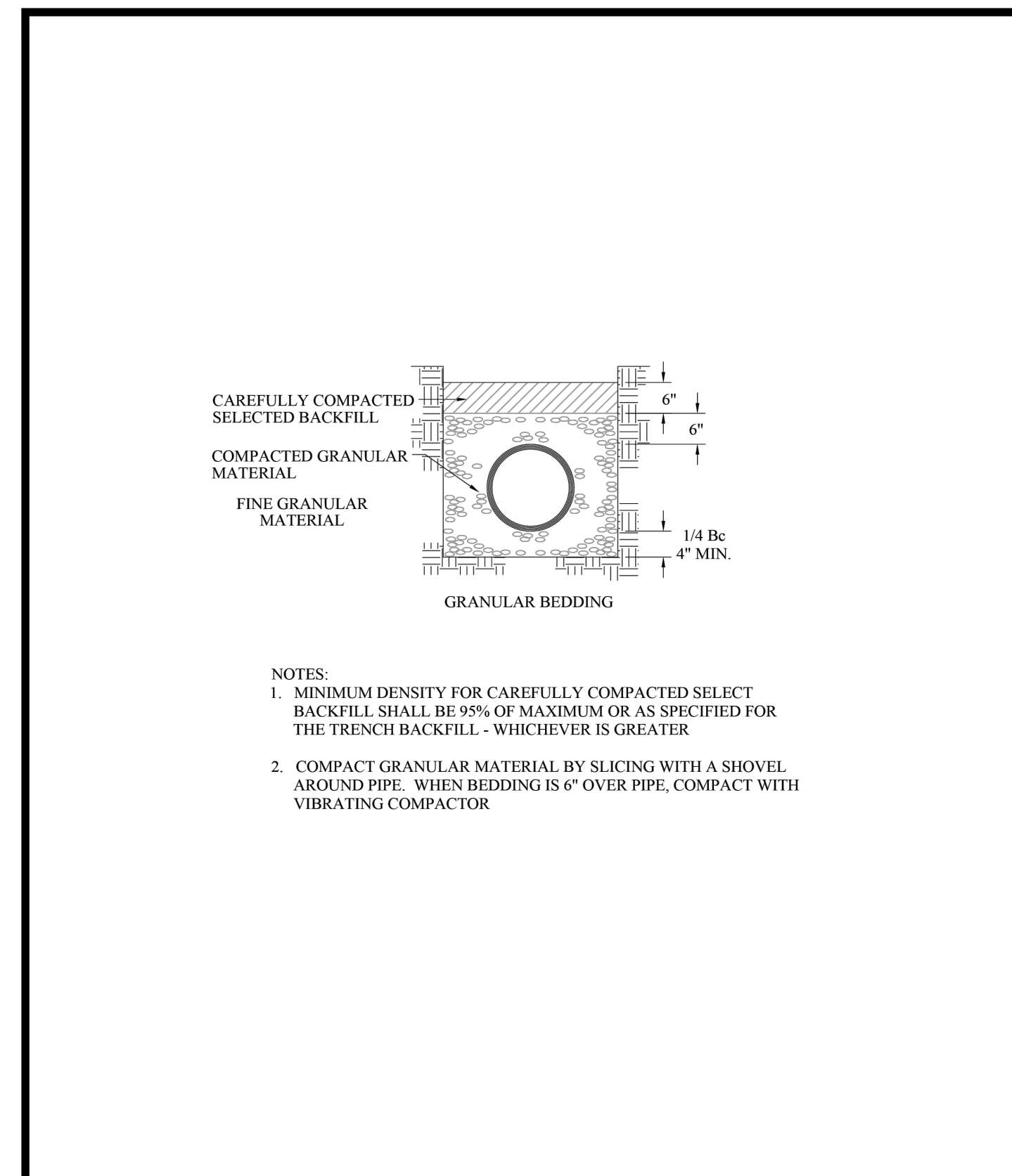
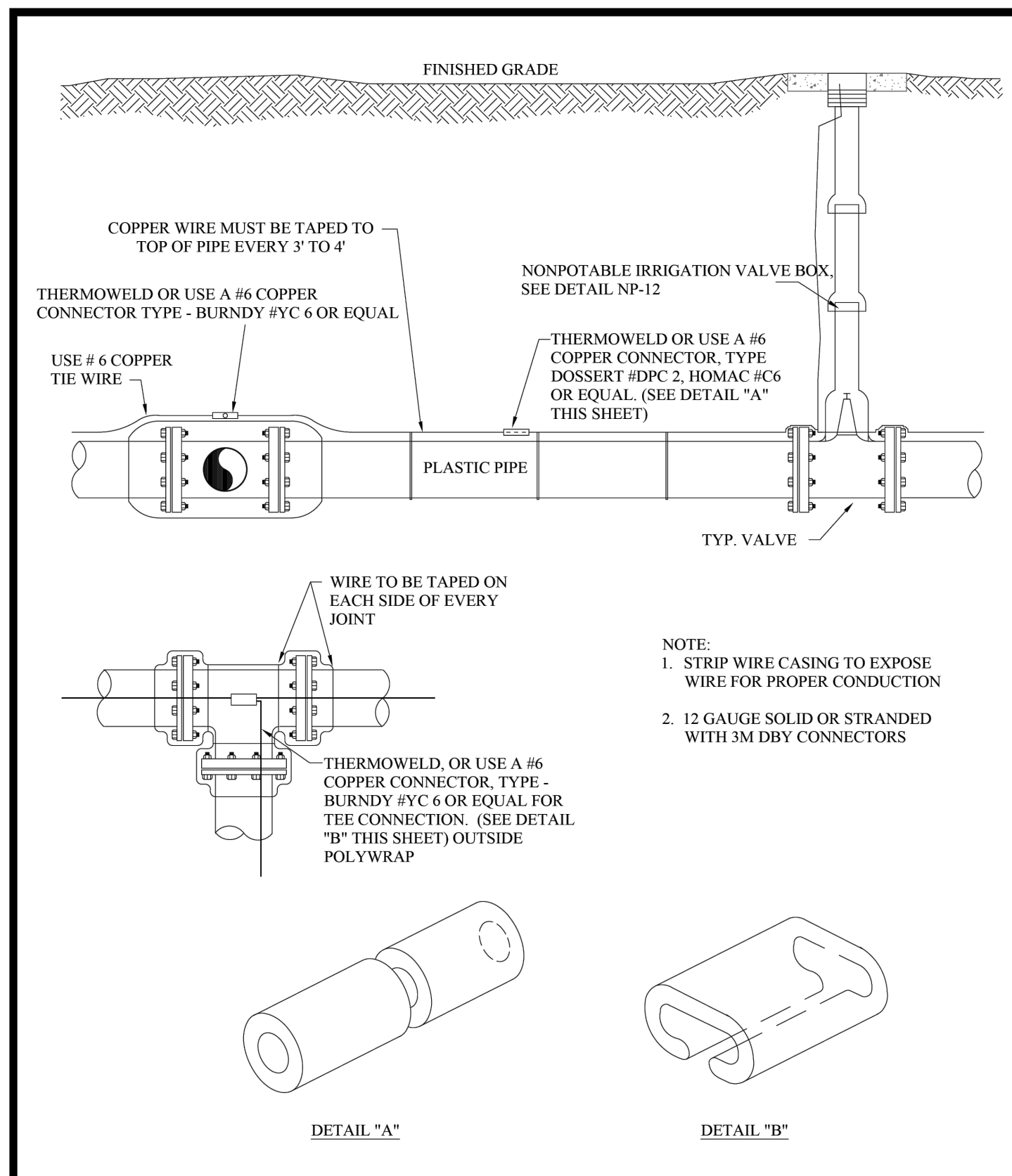
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| | | DESIGNED BY: EMF 12/31/2025 | | | | | | |
| | | CHECKED BY: EWB 12/31/2025 | | 42ND STREET NON-POTABLE WATERLINE REPLACEMENT CONSTRUCTION DRAWINGS | | | | |
| | | PROJECT No.: 238203003 | | | | | | |
| <div>SHEET</div> <div>C3.2</div> | | SCALE: AS SHOWN | | CITY OF EVANS | | | | |
| | | | | | | | | |
| | | | | Kimley»Horn | | 3325 SOUTH TIMBERLINE ROAD, SUITE 100 FORT COLLINS, CO 80525 Tel. No. (970) 656-9064 | | |

- LEGEND
- CHANNELIZING DEVICE
 - FLASHING ARROW PANEL
 - TEMPORARY TRAFFIC CONTROL SIGN
 - EXISTING SIGN
 - WORK ZONE
 - PROPERTY LINE
 - RIGHT OF WAY LINE

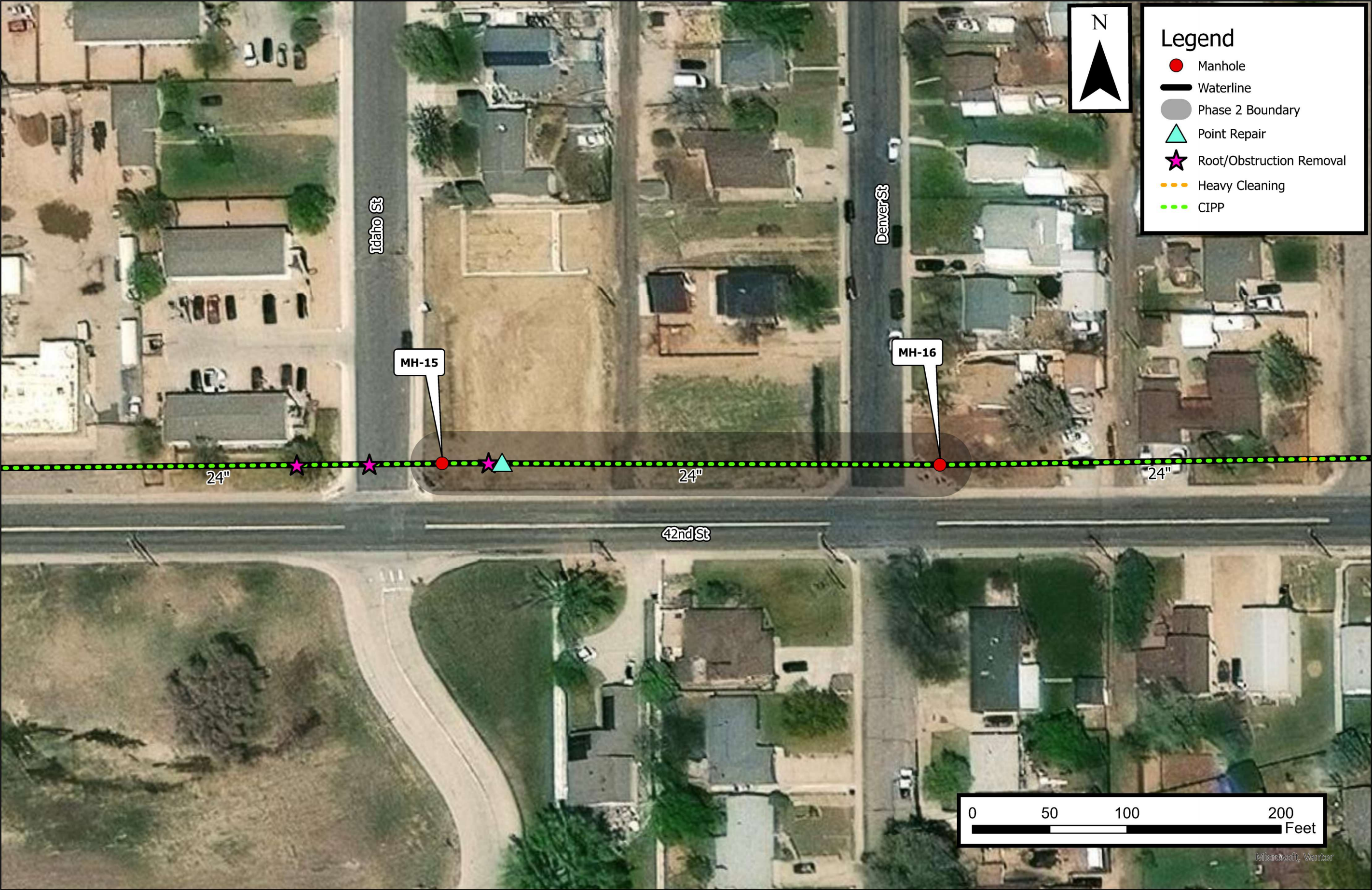
MATCHLINE (SEE SHEET C3.2)



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| DRAWN BY: EMF 12/31/2025 | | TRAFFIC CONTROL PLAN II | | | DATE | DESCRIPTION |
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| DESIGNED BY: EMF 12/31/2025 | | 42ND STREET NON-POTABLE WATERLINE REPLACEMENT CONSTRUCTION DRAWINGS | | | | |
| CHECKED BY: EWB 12/31/2025 | | | | | | |
| PROJECT No.: 238203003 | | SCALE: AS SHOWN | | | | |
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| SEAL | | | | <div>Kimley»Horn</div> <div>3325 SOUTH TIMBERLINE ROAD, SUITE 101 FORT COLLINS, CO 80525</div> <div>Tel. No. (970) 658-8894</div> | | |
|  | | | | | | |
| SHEET | | | | | | |
| C3.3 | | | | | | |



| Repair No. | Beginning MH | Ending MH | Beginning MH Address | Ending MH Address | Lot Location | Length of Pipe (Feet) | Size of Pipe (Inches) | Type of Pipe | Depth of Pipe (Feet) | Service Connections | Date Segment Televised | Beginning Station | Ending Station | Recommendation | Removal of Roots/Fixed Obstructions (Ea.) | Contractor Qty. | Point Repair (6") (Ea.) | Contractor Qty. | CIPP (LF) | Contractor Qty. | Reconstruction of Service after CIPP (Ea.) | Contractor Qty. | Heavy Cleaning (LF) | Contractor Qty. | Pre Site Photo | Post Site Photo | Video | Notes |
|------------|--------------|-----------|----------------------|--------------------|--------------|-----------------------|-----------------------|--------------|----------------------|---------------------|------------------------|-------------------|----------------|----------------|---|-----------------|-------------------------|-----------------|-----------|-----------------|--|-----------------|---------------------|-----------------|----------------|-----------------|-------|-------|
| PHASE 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 16 | 4130 IDAHO STREET | 4134 DENVER STREET | ROW | 328 | 24 | CMP | UNK | 2 | 10/30/2025 | | | | 1 | | 1 | | 328 | | 2 | | 0 | | | | | |
| 2.1 | | | | | | | | | | | | 34 | 40 | POINT REPAIR | | | 1 | | | | | | | | | | | |
| 2.2 | | | | | | | | | | | | 32 | 32 | ROOT REMOVAL | 1 | | | | | | | | | | | | | |
| 2.3 | | | | | | | | | | | | 0 | 328 | CIPP | | | | | 328 | | 2 | | | | | | | |



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| PROJECT NO. 296203003 | | DRAWING NAME PROJECT MAP | | DATE: 12/9/2025 | | CHECKED BY: NIBW | | SCALE(H/T) = 60' | |
| City of Evans Non-Potable Waterline Condition Assessment Phase 2 Map | | Kimley»Horn | | © 2023 KIMLEY-HORN AND ASSOCIATES, INC. Engineering, Planning and Environmental Consultants | | 6200 S. Syracuse Way, Suite 300 Greenwood Village, CO 80111 (303) 228-2300 | | BY DATE APPR | |



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GEOTECHNICAL ENGINEERING STUDY
PROPOSED EVANS WATERLINE REPLACEMENT
NORTH OF 42ND STREET BETWEEN BELMONT AVENUE
AND CARSON AVENUE
EVANS, COLORADO

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Reviewed By:


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Fort Collins, CO 80525

ATTENTION: Nathan White, P.E.

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FIG. 1 – LOCATION OF EXPLORATORY BORING

FIG. 2– LOG OF EXPLORATORY BORING

FIG. 3 – GRADATION TEST RESULTS

FIG. 4 – LABORATORY RESISTIVITY RESULTS

TABLE I – SUMMARY OF LABORATORY TEST RESULTS

SUMMARY

1. One (1) exploratory boring was drilled for this study at the approximate location shown on Fig. 1. The subsurface conditions encountered in the exploratory boring drilled along the proposed utility alignment generally consisted of approximately 2 feet of man-placed fill overlying naturally deposited (natural) granular soils that extended to the maximum explored depth of about 15 feet below the ground surface.

The man-placed fill consisted of clayey sand. The natural granular soils consisted of clayey sand to clayey sand with gravel and silty sand to well to poorly graded sand with silt.

Groundwater was not encountered in the boring at the time of drilling nor when subsequently checked 4 days after drilling.

2. We recommend a modulus of soil reaction, E' , of 1,800 psi be used for portions of the pipe that will be bedded with a trench base consisting of natural granular materials, provided the pipe-zone material is compacted to at least 75% relative density (ASTM D 4253 and ASTM D 4254). For evaluating the load on the pipe due to the backfill above the pipe, we recommend using a compacted unit weight of 125 pcf and a Rankine's ratio of 0.36 for compacted trench-zone backfill consisting of existing on-site soils. We recommend using a coefficient of friction of 0.35 between backfill consisting of excavated on-site soils and the soils exposed on the trench walls.
3. Above a depth of 10 feet, thrust blocks used to resist thrust forces at horizontal bends in the pipe should be designed using an allowable bearing pressure for properly compacted fill and natural soils based on an equivalent fluid density of 200 pcf (this value is a working value). The allowable bearing pressure should be calculated by multiplying the equivalent fluid density value by the depth in feet below ground surface corresponding to the mid-point height of the face of the thrust block. For thrust blocks with a mid-point depth of 10 feet or more, a maximum allowable bearing pressure of 1,750 psf should be used.

PURPOSE AND SCOPE OF WORK

This report presents the results of a geotechnical engineering study to provide subsurface data and laboratory test results for characterization of subsurface conditions along the proposed City of Evans Waterline Replacement project to be constructed north of 42nd Avenue between Belmont Avenue and Carson Avenue in Evans, Colorado. The study was conducted for the purpose of developing geotechnical engineering design recommendations and construction related considerations for the proposed pipeline replacement. The study was conducted in general accordance with the scope of work in our Proposal No. P3-25-305 dated October 15, 2025.

A field exploration program consisting of an exploratory boring was conducted to obtain information on subsurface conditions along the proposed pipeline alignment. Samples of the soils obtained during field exploration were tested in the laboratory to provide information on their classification and engineering characteristics. This report has been prepared to summarize the data obtained from this work and to provide geotechnical engineering related considerations and recommendations.

PROPOSED CONSTRUCTION

Based on the information provided, we understand a waterline replacement is required north of 42nd Street and will extend approximately 1,400 linear feet. We anticipate the pipe will be constructed approximately 5 to 10 feet below the existing ground surface.

If the proposed development varies significantly from that generally described above or depicted throughout this report, we should be notified to reevaluate the recommendations provided herein.

SITE CONDITIONS

At the time of our field exploration program, the site was vacant of structures with sparse weeds and grasses at the ground surface. The alignment areas are generally flat with minimal slope down towards the east. The site is bounded to the north by industrial properties, to the east by an asphalt paved access drive followed by a vacant field, to the south by 42nd Street and to the west by Belmont Avenue.

SUBSURFACE CONDITIONS

Information on the subsurface conditions was obtained by drilling a total of one (1) exploratory boring at the location shown on Fig. 1. A graphic log of the boring and a legend and notes describing the soils encountered are presented Fig. 2.

The boring encountered approximately 2 feet of man-placed fill overlying naturally deposited (natural) granular soils that extended to the maximum depth explored of about 15 feet below the ground surface.

The man-placed fill consisted of clayey sand. The natural granular soils consisted of clayey sand to clayey sand with gravel and silty sand to well to poorly graded sand with silt.

The man-placed fill was fine to coarse grained, slightly moist to moist and brown. The natural granular soils were fine to coarse grained, slightly moist to moist and light brown to brown. Based on sampler penetration resistance, the natural granular soils were loose to medium dense.

Groundwater was not encountered in the boring at the time of drilling nor when subsequently checked 4 days after drilling. Groundwater levels are expected to fluctuate with time and may fluctuate upward after wet weather.

LABORATORY TESTING

Laboratory testing was performed in our in-house laboratory on representative soil samples obtained from the boring to determine in situ soil moisture content and dry density, Atterberg limits, and gradation characteristics. The results of the laboratory tests are presented graphically on Figs. 3 and 4 and summarized in Table I. The testing was conducted in general accordance with recognized test procedures, primarily those of ASTM and CDOT.

Samples were classified into categories of similar engineering properties in general accordance with the Unified Soil Classification System. This system is based on index properties, including liquid limit, plasticity index and grain size distribution. Values for moisture content, dry density, liquid limit and plasticity index, and the percent of soil passing the U.S. No. 4 and 200 sieves are presented in the Table I and adjacent to the corresponding sample on the boring logs. The results of a gradation test performed on a sample of the native granular soils is graphically presented on Fig. 3.

Corrosivity Testing: The potential corrosive environment for metal in contact with onsite soils was evaluated based on data collected during our field exploration and laboratory testing programs. The data included pH, minimum electrical resistivity, sulfides, redox potential, concentration of water-soluble sulfates and chlorides. The laboratory test results are shown on the boring log on Fig. 2 and summarized in Table I.

The test results indicated minimum laboratory electrical resistivity of 2,500 ohm-cm. Based on the Ductile Iron Pipe Research Association (DIPRA) handbook, the relatively low resistance material would classify as being potentially corrosive.

The acidity of the materials was assessed by conducting pH testing, which resulted in a pH level of 6.89. The measured concentration of chlorides was 38 ppm. The measured Re-Dox potential was 281 mV. A sample of soil resulted in 0.1 mg/L for sulfides.

The general chemical characteristics of the soils indicate the subsurface profile could result in a potentially corrosive environment to buried metals, particularly under saturated conditions. We recommend a qualified corrosion engineer review the information presented above to design an appropriate level of corrosion protection for buried metal.

Water-Soluble Sulfates: The concentrations of water-soluble sulfates measured in a sample of the natural granular soils obtained from the exploratory boring was 0.00%. This concentration of water-soluble sulfates represents a Class S0 severity exposure to sulfate attack on concrete exposed to these materials. The degrees of attack are based on a range of Class S0, Class S1, Class S2, and Class S3 severity exposure as presented in ACI 201.2R-16.

Based on the laboratory test results, we believe special sulfate resistant cement will generally not be required for concrete exposed to the on-site soils.

PIPELINE RECOMMENDATIONS

Pipe Backfill: Bedding material supporting the pipe bottom should consist of an uncompacted layer of imported granular material meeting the manufacturer's recommendations or local jurisdictions criteria for pipe bedding. Bedding and embedment zone material may consist of a granular soil with a maximum size of ¾ inch, less than 25% passing the No. 50 sieve, and less than 5% passing the No. 200 sieve. Based on the results of the laboratory analyses performed on selected samples obtained from the boring, the onsite soils do not meet the requirements for

bedding and embedment zone material. The bedding layer should be of adequate thickness to fully support the pipes when seated on top of the bedding, and should have a minimum thickness based on the proposed pipe diameter and criteria established by American Water Works Association (AWWA, M41). We recommend considering a minimum uncompacted thickness of 4 inches. Prior to placing the bedding, the subgrade should be excavated and loose material removed to provide firm subgrade support. Granular subgrade materials at the bottom of the trench (if encountered) should be densified with a vibratory plate compactor prior to placing the bedding material.

Depending upon the depth of burial, very loose granular soils may be encountered at the bearing elevation for the pipe. Increasing the thickness of the bedding material to a minimum of 12 inches may be required for proper support of the pipe.

The pipe-zone material placed above the bedding and surrounding the pipe should consist of granular material similar to that described above for pipe bedding, and should be compacted to at least 75% relative density (ASTM D 4253 and ASTM D 4254). The pipe-zone material should also be placed and compacted in accordance with the requirements of the pipe manufacturer. Special care should be taken to provide adequate compaction below the haunches of the pipe using a concrete vibrator, vibratory plates or other light compaction equipment as needed. In confined areas of the pipeline where compaction is difficult, placement of a controlled low strength material (CLSM), commonly referred to as flow fill, around the pipe should be considered.

Backfill placed above the pipe-zone materials to the surface should consist of suitable on-site soil obtained from the pipeline excavation. Suitable soils should have a maximum particle size of 3 inches and should be generally free of organics, wood, or other deleterious material that could decay over time. Most of the soils encountered in the exploratory boring satisfy the material requirements based on laboratory testing of selected samples. Although not anticipated, bedrock, if encountered and reused in the trench, should be broken down into a soil like material. The backfill should be compacted to at least 95% of the standard Proctor (ASTM D698) maximum dry density at a moisture content within 2 percentage points of optimum for granular soils and within the optimum to +3 percentage points of optimum for clay soils.

Variable moisture contents were measured and observed for the soils encountered in the exploratory boring. The contractor should anticipate that processing to add water, or allowing time for material to dry out, will likely be required.

The pipe should be buried an adequate depth below the surface to limit pipe deflections caused by current or planned future traffic loading. The minimum burial depth required for the pipe will depend on the material and physical properties of the pipe, the soil/structure interaction between the pipe and the backfill material, and traffic loading conditions. We recommend that the pipe burial depth be at least 4 feet and satisfy manufacturer requirements for maximum allowable deflection and minimum burial depth.

Pipeline Design Parameters: We recommend a modulus of soil reaction, E' , of 1,800 psi be used for portions of the pipe that will be bedded with a trench base consisting of natural granular materials, provided the pipe-zone material is compacted to at least 75% relative density (ASTM D 4253 and ASTM D 4254). For evaluating the load on the pipe due to the backfill above the pipe, we recommend using a compacted moist unit weight of 125 pcf and a Rankine's ratio of 0.36 for compacted trench-zone backfill consisting of existing on-site soils. We recommend using a coefficient of friction of 0.35 between backfill consisting of excavated on-site soils and the soils exposed on the trench walls.

The above E' value does not have a factor of safety applied. The Transportation Research Board (TRB) Report 225 recommends that for shallow covers, the listed E' value should be reduced by 50%. ASCE's Gravity Sanitary Sewer Design and Construction Manual recommends that 75% of the listed E' values should be used and the U.S. Soil Conservation Service applies a factor of 0.5 to the E' .

Thrust Forces: Thrust blocks should be located in relatively stiff soils (blow counts above 8 blows per foot). In relatively stiff soils less than a depth of 10 feet below finished grade, blocking used to resist thrust forces at horizontal bends in the pipe should be designed using an allowable bearing pressure for properly compacted fill and natural soils based on an equivalent fluid density of 200pcf (this value is a working value). The allowable bearing pressure should be calculated by multiplying the equivalent fluid density value by the depth in feet below ground surface corresponding to the mid-point height of the face of the thrust block. For thrust blocks with a mid-point depth of 10 feet or more, a maximum allowable bearing pressure of 1,750 psf should be used. Site specific studies should be performed to evaluate if higher bearing pressure values are possible.

Excavation Considerations: The pipe trench should be excavated in accordance with all OSHA requirements, and other applicable local and state requirements. Based on the OSHA excavation

guidelines, we believe that areas of existing fill and natural granular soils generally classify as OSHA Type C.

We believe overburden soils, similar to those encountered within the explored depths of the exploratory boring, may be excavated with conventional heavy-duty excavation equipment. Although not anticipated, excavation of the bedrock materials, if encountered during excavation, may be more difficult when being performed in confined areas and will require heavy-duty excavation equipment with ripper teeth or possibly pneumatic chisels and/or light explosives.

Where insufficient lateral space is available to lay the slopes back during excavation due to the proximity to property boundaries and existing structures and facilities, temporary shoring may be required. It is our experience that temporary shoring systems are typically designed and built by specialty contractors and that the designers will typically develop their own design criteria based on soil data presented in the owner's geotechnical study report. We are available upon request for further consultation on temporary shoring design criteria.

Temporary shoring provided in close proximity to existing structures or traffic areas should be sufficiently stiff to prevent movement. We recommend that a pre-condition reconnaissance of adjacent existing structures be performed prior to beginning excavations, and temporary shoring, to document the condition of those structures (e.g., with photographs), and locate areas where instrumentation (e.g., crack monitors across existing cracks) should be considered for monitoring potential impacts to the structures caused by that work. Ideally, representatives of the owner of the adjacent structure, client, geotechnical engineer and contractor should perform the reconnaissance, and personnel responsible for monitoring the structures and any instrumentation should be identified.

Bottom of Trench Preparation: Bottom of trench excavation preparation in areas with firm, unyielding soils, as encountered in the majority of the pipeline alignment, should consist of removing all loose materials from the bottom of the excavation prior to placing bedding material. These soils should provide adequate support during densification of the bedding materials.

Potentially unstable bottom of trench soils may be encountered in isolated areas of the alignment. Unstable soil remediation may be completed using a geotextile/gravel system. Alternate stabilization methods may be suitable, and may be discussed with the pipeline contractor. Bottom of trench stabilization may be achieved by removing the unstable soils and replacing them with a

granular material such as aggregate base course meeting CDOT Class 6 criteria placed on top of a high-performance geotextile (HPG). The extent of the removal and replacement should be determined in the field; however, a minimum replacement thickness of about 12 inches is recommended. Stabilization fill should extend the entire width of the trench excavation. Additional thicknesses may be required to adequately bridge unstable soils and will need to be determined in the field using a test section.

The high-performance geotextile shall be placed directly below the stabilizing fill to provide separation and stabilization. The geotextile should be woven and meet or exceed the minimum properties presented below:

Geotextile Requirements

| Mechanical Properties | Minimum Average Roll Value (MARV) | |
|---|--|-----------|
| | MD (#/ft) | CD (#/ft) |
| Tensile Strength at 5% strain (ASTM D 4595) | 1,400 | 1,400 |
| Minimum permittivity (ASTM D 4491) | 0.5 sec ⁻¹ | |
| Apparent Opening Size (AOS) | 0.50 mm maximum | |

Mirafi RS280i meets the criteria presented above. Other products meeting the above criteria may be suitable as an approved equal.

SITE GRADING

Cut Slopes: Permanent unretained cuts in the overburden soils less than 10 feet in height should be sloped to 3 horizontals to 1 vertical, although flatter slopes may be desired due to erosion and revegetation considerations. The risk of slope instability will be significantly increased if seepage is encountered in cuts. If seepage is encountered in permanent excavations, an investigation should be conducted to determine if the seepage will adversely affect the cut stability. Based on our understanding of the maximum depths proposed for site grading, it does not appear that slope instability due to groundwater seepage will typically be a concern. However, it may be of concern regarding temporary stability in the deeper excavations for site utilities.

Fills and Embankments: Fill slopes up to 10 feet in height can be used if the fill slopes do not exceed 3 horizontals to 1 vertical and the fills are properly compacted and drained. The ground surface underlying all fills should be carefully prepared by removing all organic matter, scarification to a depth of 12 inches, moisture conditioning, and compacting to 95% of the

standard Proctor maximum dry density at a moisture content near optimum to provide a uniform base for fill placement. Fills should be benched into cuts exceeding 4 horizontals to 1 vertical.

Good surface drainage should be provided around all permanent cuts and fills to direct surface runoff away from the slope faces. Fill slopes, cut slopes and other stripped areas should be protected against erosion by revegetation or other methods.

Material Specifications: The following material specifications are presented for fills on the project site. A geotechnical engineer should evaluate the suitability of all proposed import fill material, if required, for the project prior to placement.

1. *Utility Trench Backfill:* Material excavated from the utility trenches may be used for backfill provided it does not contain unsuitable material or particles larger than 3 inches.
2. *Pipe Bedding Material:* Pipe bedding material should be a free draining, coarse-grained sand and/or fine gravel.
3. *Material Suitability:* Unless otherwise defined herein, all fill material should be a non- low-swelling, free of vegetation, brush, sod, trash and debris, and other deleterious substances, and should not contain rocks or lumps having a diameter of more than 3 inches. Based on the results of laboratory testing, the on-site soils should be suitable for reuse as compacted site grading fill and as structural fill beneath foundations and floor slabs provided they do not contain organic material or other deleterious materials.

Compaction Specifications: We recommend the following compaction criteria be used on the project:

1. *Moisture Content:* Fill materials consisting of onsite or imported predominantly granular soil should be compacted at moisture contents within 2 percentage points of optimum. Fill materials consisting of predominantly clayey soils should be compacted at uniform moisture contents between optimum and 3 percentage points above optimum moisture content. The contractor should be aware clay soils may become somewhat unstable and deform under wheel loads if placed near the upper end of the moisture range.

2. *Placement and Degree of Compaction:* Unless otherwise defined herein, compacted fill should be placed in maximum 8-inch-thick loose lifts. The following compaction criteria should be followed during construction:

| <u>Fill Location:</u> | Percentage of Maximum Standard Proctor Density (ASTM D698) |
|--|--|
| Utility Trenches | |
| Exterior Less Than 8 Feet below the final ground surface..... | 95% |
| Exterior More Than 8 Feet below the final ground surface | 98% |
| Landscape and Other Areas | 95% |
| ¹ Aggregate base course should be compacted to a minimum of 95 percent of the modified Proctor (ASTM D1557) maximum dry density at moisture contents within 2 percentage points of optimum. | |

3. *Subgrade Preparation:* All areas receiving new fill should be scarified to a depth of 12 inches and recompact to at least 95% of the standard Proctor (ASTM D698) maximum dry density at the moisture content recommended above.

Excessive wetting and drying of excavations and prepared subgrade areas should be avoided during construction. If grading is performed during times of cold weather, fills placed onsite should not contain frozen materials. If the subgrade is allowed to freeze, all frozen material should be removed prior to additional fill placement or pipeline construction

Construction Monitoring: A representative of the geotechnical engineer should observe prepared fill subgrades and fill placement on a full-time basis.

DESIGN AND CONSTRUCTION SUPPORT SERVICES

K+A should be retained to review the project plans and specifications for conformance with the recommendations provided in our report. We are also available to assist the design team in preparing specifications for geotechnical aspects of the project, and performing additional studies, if necessary, to accommodate possible changes in the proposed construction.

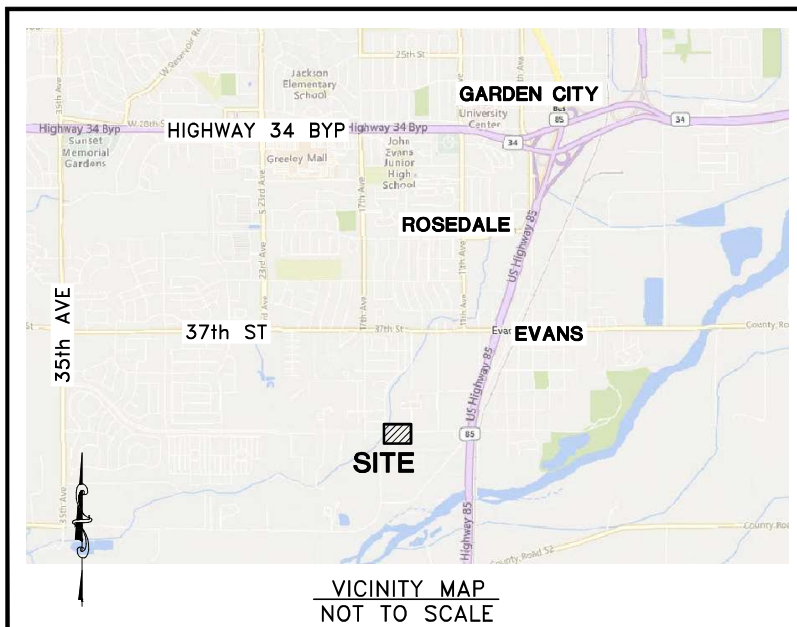
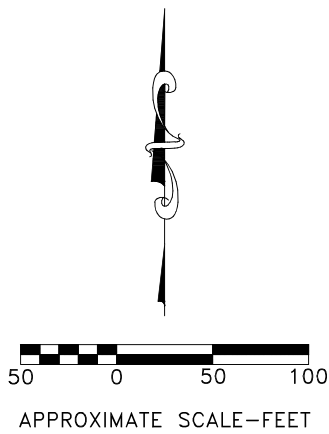
We recommend K+A be retained to provide observation and testing services to document the intent of this report and the requirements of the plans and specifications are being followed during construction, and to identify possible variations in subsurface conditions from those encountered in this study so that we can re-evaluate our recommendations, if needed

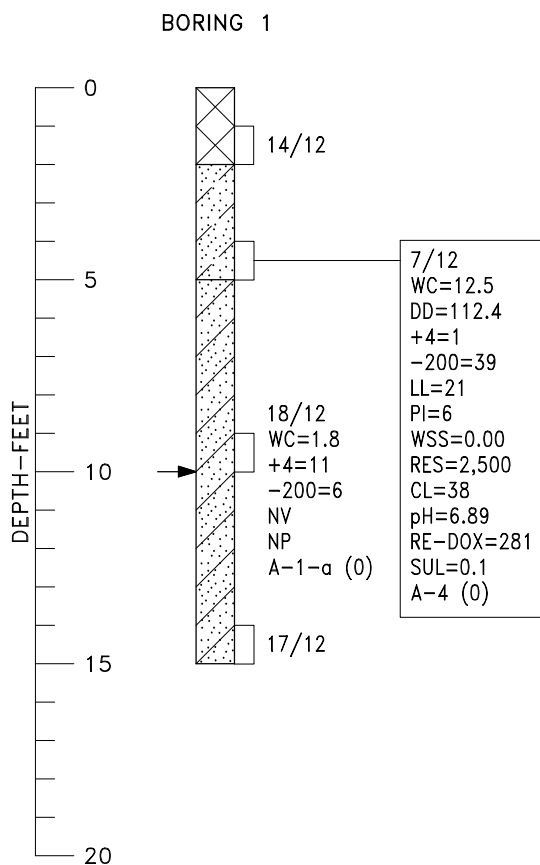
LIMITATIONS

This study has been conducted in accordance with generally accepted geotechnical engineering practice in this area for exclusive use of the client for design purposes. The conclusions and recommendations submitted in this report are based upon the data obtained from the exploratory boring at the location indicated on Fig. 1, and the proposed type of construction. This report does not reflect subsurface variations that may occur outside the limits of the exploratory boring, and the nature and extent of variations across the site may not become evident until site grading and excavations are performed. If during construction, fill, soil, bedrock or groundwater conditions appear to be different from those described herein, Kumar & Associates, Inc. should be advised at once so a re-evaluation of the recommendations presented in this report can be made. Kumar & Associates, Inc. is not responsible for liability associated with interpretation of subsurface data by others.

The scope of services for this project does not include any environmental assessment of the site, or identification of contaminated or hazardous materials or conditions.

JAH/db
Rev. by: JDC
cc: File





LEGEND



FILL: CLAYEY SAND (SC), FINE TO COARSE GRAINED, SLIGHTLY MOIST TO MOIST, BROWN.



CLAYEY SAND (SC) TO SILTY, CLAYEY SAND (SC-SM), FINE TO COARSE GRAINED, LOOSE, SLIGHTLY MOIST TO MOIST, BROWN.



SILTY SAND (SM) TO WELL TO POORLY GRADED SAND WITH SILT (SW-SM TO SP-SM), FINE TO COARSE GRAINED, SLIGHTLY MOIST TO MOIST, MEDIUM DENSE, LIGHT BROWN TO BROWN.



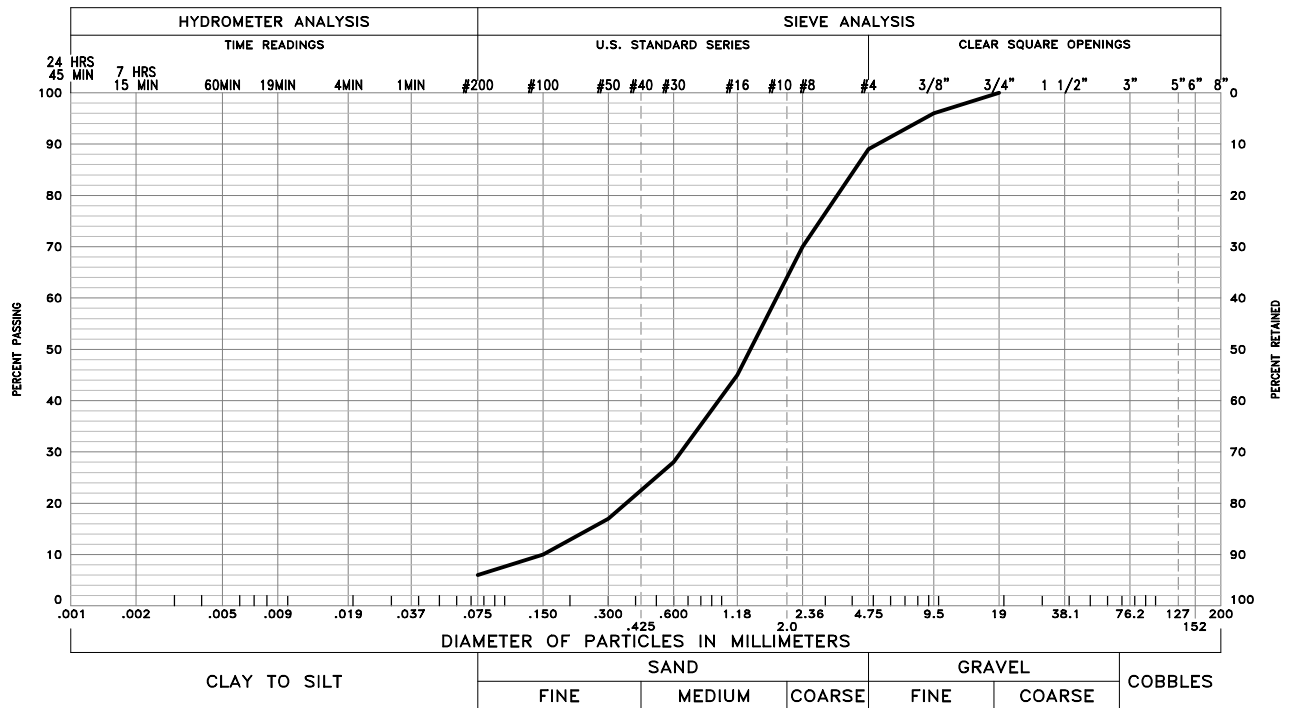
DRIVE SAMPLE, 2-INCH I.D. CALIFORNIA LINER SAMPLE.

14/12 DRIVE SAMPLE BLOW COUNT. INDICATES THAT 14 BLOWS OF A 140-POUND HAMMER FALLING 30 INCHES WERE REQUIRED TO DRIVE THE SAMPLER 12 INCHES.

→ DEPTH AT WHICH BORING CAVED.

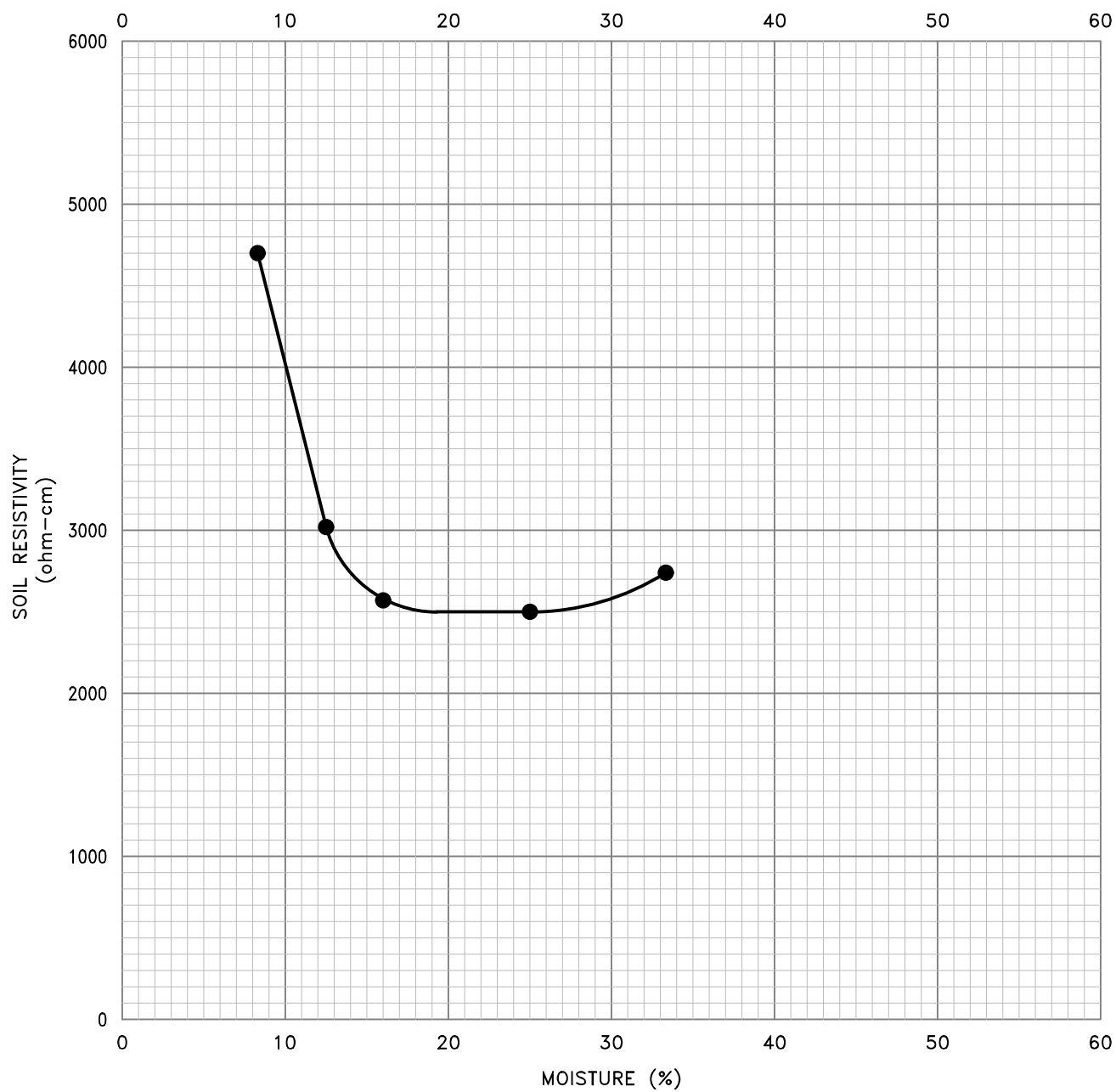
NOTES

1. THE EXPLORATORY BORING WAS DRILLED ON DECEMBER 8, 2025 WITH A 4-INCH DIAMETER CONTINUOUS FLIGHT POWER AUGER.
2. THE LOCATIONS OF THE EXPLORATORY BORINGS WERE MEASURED APPROXIMATELY BY HANDHELD GPS DEVICE.
3. THE ELEVATION OF THE EXPLORATORY BORING WAS NOT MEASURED AND THE LOG OF THE EXPLORATORY BORING IS PLOTTED TO DEPTH.
4. THE EXPLORATORY BORING LOCATION SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
5. THE LINES BETWEEN MATERIALS SHOWN ON THE EXPLORATORY BORING LOG REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN MATERIAL TYPES AND THE TRANSITIONS MAY BE GRADUAL.
6. GROUNDWATER WAS NOT ENCOUNTERED IN THE BORING AT THE TIME OF DRILLING.
7. LABORATORY TEST RESULTS:
 - WC = WATER CONTENT (%) (ASTM D2216);
 - DD = DRY DENSITY (pcf) (ASTM D2216);
 - +4 = PERCENTAGE RETAINED ON NO. 4 SIEVE (ASTM D6913);
 - 200= PERCENTAGE PASSING NO. 200 SIEVE (ASTM D1140);
 - LL = LIQUID LIMIT (ASTM D4318);
 - PI = PLASTICITY INDEX (ASTM D4318);
 - NV = NO LIQUID LIMIT VALUE (ASTM D4318);
 - NP = NON-PLASTIC (ASTM D4318);
 - WSS = WATER SOLUBLE SULFATES (%) (CP-L 2103);
 - RES = MINIMUM LABORATORY RESISTIVITY (ohm-cm.) (ASTM G 57);
 - CL = CHLORIDE CONTENT (ppm) (AASHTO T291);
 - pH = HYDROGEN ION CONCENTRATION (ASTM E 70);
 - A-2-6 (0) = AASHTO CLASSIFICATION (GROUP INDEX) (AASHTO M 145);
 - SUL = SULFIDES (POSITIVE, TRACE, NEGATIVE);
 - RE-DOX = OXYGEN REDUCTION POTENTIAL (mV).



GRAVEL 11 % SAND 83 % SILT AND CLAY 6 %
LIQUID LIMIT NV PLASTICITY INDEX NP
SAMPLE OF: Well Graded Sand with Silt (SW-SM) FROM: Boring 1 @ 9'

These test results apply only to the samples which were tested. The testing report shall not be reproduced, except in full, without the written approval of Kumar & Associates, Inc. Sieve analysis testing is performed in accordance with ASTM D6913, ASTM D7928, ASTM C136 and/or ASTM D1140.



| CURVE SYMBOL | SAMPLE IDENTIFICATION | SOIL OR BEDROCK TYPE | MINIMUM RESISTIVITY (ohm-cm) | RESISTIVITY AT IN SITU MOISTURE CONTENT (ohm-cm) |
|--------------|-----------------------|----------------------------|------------------------------|--|
| ● | Boring 1 @ 4' | Silty, Clayey Sand (SC-SM) | 2,500 | 3,130 |

Table I
Summary of Laboratory Test Results

Project No.: 25-3-225
Project Name: Evans Waterline Replacement
Date Sampled: December 8, 2025
Date Received: December 9, 2025

| Sample Location | | Date Tested | Natural Moisture Content (%) | Natural Dry Density (pcf) | Gradation | | Percent Passing No. 200 Sieve | Atterberg Limits | | Water Soluble Sulfates (%) | Minimum Electrical Resistivity (ohm-cm) | Chloride Content in Soils (ppm) | pH | Redox (mV) | Sulfide (mg/L) | AASHTO Classification (Group Index) | Soil or Bedrock Type |
|-----------------|--------------|-------------|------------------------------|---------------------------|------------|----------|-------------------------------|------------------|----------------------|----------------------------|---|---------------------------------|------|------------|----------------|-------------------------------------|------------------------------------|
| Boring | Depth (Feet) | | | | Gravel (%) | Sand (%) | | Liquid Limit (%) | Plasticity Index (%) | | | | | | | | |
| 1 | 4 | 12/16/25 | 12.5 | 112.4 | 1 | 60 | 39 | 21 | 6 | 0.00 | 2500 | 38 | 6.89 | 281 | 0.1 | A-4 (0) | Silty, Clayey Sand (SC-SM) |
| 1 | 9 | 12/22/25 | 1.8 | | 11 | 83 | 6 | NV | NP | | | | | | | A-1-a (0) | Well Graded Sand with Silt (SW-SM) |