

REQUEST FOR PROPOSAL For Pikes Peak Library District – Library 21c Water Main Reroute

PIKES PEAK LIBRARY DISTRICT Colorado Springs, CO

RFP # 490-24-03-21c

The Pikes Peak Library District (PPLD) invites contractors, with the qualifications as stated herein, to submit a response to a Request for Proposal (RFP) for the Library 21c, 1175 Chapel Hills Dr, for rerouting a 8" water main.

Proposal deadline is 2 p.m. MST on Tuesday, September 17

Table of Contents

1.	Terms & Condition	. 1
2.	Proposal Submission, Selection, and Contract Formation	. 4
3.	Scope of Work	. 7
4.	Contractor Qualification and Information	. 7
5.	Pricing	. 8
ADI	DENDUM A - PROPOSAL COVER SHEET	. 9
ADI	DENDUM B - CHECKLIST, QUESTIONNAIRE, AND PRICING FORM	11
ADI	DENDUM C - IMMIGRATION CLAUSE FOR CONTRACTS	12
⊏vh	ihit Δ	13

1. Terms & Condition

1.1. <u>Purpose:</u> PPLD is seeking proposals from qualified contractors experienced in underground pipe replacement for the Library 21c. Contractors must be able to certify they have the capabilities and resources to provide all services outlined in the statement of work for this project.

- 1.2. <u>Interested Parties:</u> All interested contractors that have the qualifications as stated herein are invited to submit a proposal in accordance with the terms, conditions, and specifications contained herein, in Exhibit A provided by Farnsworth Group Engineering. An electronic version of this document can be accessed at: http://ppld.org/request-for-proposals.
- 1.3. <u>Point of Contact:</u> Questions and requests for clarification must be sent via e-mail to Travis Keeton, interim Chief Facilities Management Officer, at tkeeton@ppld.org; CC: khoggatt@ppld.org & sdunkley@ppld.org. Please include the RFP number, title, and words "question" and/or "clarification" in the subject line of the e-mail.

Questions and requests without this subject identification may be considered routine emails and may not be promptly addressed.

All answers to questions and requests for clarification will be posted on the PPLD website: http://ppld.org/request-for-proposals .

Any PPLD response that is considered to be a change in terms, conditions, and specifications of this RFP will be published as an addendum. No communications of any kind may be considered as a change to the terms, conditions, and specifications in this RFP unless posted as a formal addendum on the link above.

- 1.4. Equal Opportunity: The Contractor agrees not to refuse to hire, discharge, promote, or demote, nor to discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, gender, age, military status, sexual orientation, marital status, or physical or mental disability.
- 1.5. <u>Expenses:</u> PPLD assumes no liability for payment of expenses incurred by proposers in the preparation and submission of proposals in response to this invitation.
- 1.6. <u>Conflict of Interest</u>: Any contractual relationship with any PPLD personnel in the twelve (12) months preceding the distribution of this RFP, or any similar or potential conflicts of interest, may, at the sole discretion of PPLD, be grounds for rejection of the proposal and/or termination of any contract awarded
- 1.7. <u>Independent Contractor:</u> The Contractor is an independent contractor. Notwithstanding any provision appearing in this RFP, all personnel assigned by the Contractor to perform work under the terms of this RFP and any subsequent agreement shall be, and remain at all times, employees or agents of the Contractor for all purposes. The Contractor shall make no representation that it is the employee of PPLD for any purpose.
- 1.8. <u>Immigration Clause:</u> The Contractor is aware of Colorado's Immigration /Illegal alien laws pertaining to public contracts. Addendum C Immigration Clause for Contracts (Colorado Statute 8-17.5-102) must be signed and attached.
- 1.9. <u>General Requirements:</u> PPLD reserves the right to amend this RFP up to seven (7) business days prior to the date set for receipt of proposals. In addition, PPLD may extend deadlines or withdraw this RFP at any time prior to an award.
- 1.10. <u>Tax Exemption:</u> PPLD, as a local government entity, is **exempt from sales and use taxes**. Contractors will inform all prospective subcontractors and suppliers, as necessary, from whom they expect to obtain services or supplies of the tax-exempt status of PPLD. Following the contract award, PPLD will furnish tax exemption certificate(s) to the Contractor.
- 1.11. <u>Governing Law:</u> The laws of the State of Colorado shall govern any contract executed between the successful proposer and PPLD. Further, the place of performance and transaction of business shall be

deemed to be in the County of El Paso, State of Colorado, and in the event of litigation, the exclusive venue and place of jurisdiction shall be the State of Colorado, and more specifically, El Paso County, Colorado.

1.12. RFP Schedule:

RFP released	Monday August 19
Mandatory Pre-bid Conference and site walk	Monday, August 26 at 9 am
Deadline for final questions	Friday, August 30 at 2 pm
Deadline to return answered questions	Tuesday, September 3
Proposals due	Tuesday, September 17 at 2 pm
Board Review and Decision	Wednesday, October 16 at 5 pm
Award Notification	on or before Friday, October 18

2. Proposal Submission, Selection, and Contract Formation

2.1. <u>Proposal Submission</u>

- 2.1.1. <u>Substantive proposals</u>: By submitting a proposal, the proposer guarantees that (a) its proposal is genuine and is not made in the interest of, or on behalf of, any undisclosed person, Contractor, or corporation; (b) it has not directly or indirectly induced or solicited any other respondent to put in a false or sham bid; (c) it has not solicited or induced any other person, Contractor, or corporation from proposing; (d) it has not sought by collusion to obtain for itself any advantage over any other proposer or over PPLD.
- 2.1.2. <u>Submission Information and Documents:</u> The proposal must be comprehensive and address all RFP requirements. To assure that the information provided can be readily identified, the proposal must include, but not limited, to the submission of the following signed documents:
 - 2.1.2.1. Addendum A PROPOSAL COVER SHEET
 - 2.1.2.2. Addendum B CHECKLIST, QUESTIONNAIRE, AND PRICING

Contractor is required to submit a response for each numbered or lettered item of Addendum B, the response must be in the same format and sequence as in the RFP. The response must include description, schedules, when required, and any additional clarifying information, such as appendices, charts, diagrams, etc..

- 2.1.2.3. Addendum C IMMIGRATION CLAUSE FOR CONTRACTS
- 2.1.2.4. List of exceptions or deviations (if any)
- 2.1.2.5. Exhibit A Engineered Plans
- 2.1.3. Signatures: The proposal must be signed by an officer of the proposing Contractor.
- 2.1.4. Exceptions and Deviations: Any exception to or deviations from these Terms & Conditions must be identified, in writing, on an attachment to the proposal submission. PPLD reserves the right to accept or reject, at its sole discretion, any exceptions or deviations by the proposer.
- 2.1.5. <u>Integration with Contract</u>: The winning proposal will be included and integrated into the final contract documents.
- 2.1.6. <u>Proposal Submission:</u> Proposals are to be submitted electronically or in sealed envelopes, identified with the proposal number and title with all attachments. See the RFP Schedule above for due dates. Contractors must submit three (3) hard copies and (1) soft copy (i.e., flash drive, magnetic media, etc.) of the Proposal to:

Pikes Peak Library District Attn: Kim Hoggatt Finance Office RFP # 490-24-01-EA 1175 Chapel Hills Drive, Colorado Springs, CO, 80920

Additional copies may be requested by Pikes Peak Library District. Pikes Peak Library District is not liable for any cost incurred by prospective respondents prior to the issuance of contract(s).

The deadline (Contractor) is **Tuesday, September 17 no later than 2 p.m.** local time. Proposals delivered after that time will be received but will be rejected for being late.

A complete submission includes all required components, as stated in this document.

2.1.7. <u>Duration of Proposal Offer:</u> Price offers are irrevocable for 90 days following the proposal due date. Once a proposal is accepted, all prices, terms and conditions will remain unchanged throughout the contract period unless specifically agreed otherwise by both PPLD and the successful Contractor through documented change orders.

2.1.8. Withdrawal of Proposal: A Proposer may withdraw its own proposal at any time prior to the proposal due date and time as identified herein. After that date and time, no proposal may withdraw its proposal for any reason. All proposals shall be valid for a period not less than 90 calendar days after the proposal due date.

2.1.9. Information to Contractors:

- 2.1.9.1. No proposal shall be accepted from, and no contract will be awarded to any person, Contractor or corporation that is deemed irresponsible or unreliable by PPLD. If requested, Contractors will submit satisfactory evidence that they have a practical knowledge of the service bid upon and that they have the necessary financial resources to provide the proposed service called for as described in this Request for Proposal.
- 2.1.9.2. PPLD reserves the right to investigate the Contractor's financial stability. This may include reviewing financial statements, checking bank reference, and interviewing past contractors, employees, and creditors. Unfavorable responses to these investigations are grounds for rejection of the proposal.
- 2.1.10. <u>Confidentiality:</u> All materials submitted in response to this RFP become the property of PPLD, upon delivery.

Proposals are public information. If a contractor submits proprietary information, the contractor will label each proprietary page as "CONFIDENTIAL" and submit it in a separate package so PPLD will not release any information marked as Confidential.

2.1.11. <u>Subcontracting:</u> The Contractor must be responsible for the performance of all of its sub-contractors, and consultants. The use of specific subcontractors and consultants is subject to the approval of PPLD. The Contractor is responsible for ensuring that all sub-contractors and consultants comply with all the terms of the Contractor's contract with PPLD.

If the Contractor uses subsidiary companies, explain their role and how they will be involved in this project.

2.1.12. <u>Insurance Requirements:</u> The successful proposer shall have, at the minimum, the following coverage: commercial general liability, automobile liability, excess liability, and worker's compensation liability. The Contractor shall submit in their proposals, ACORD certificates and/or other proof of the following insurances:

2.1.12.1.	General Liability	\$1,000,000
2.1.12.2.	Automobile Liability	\$1,000,000
2.1.12.3.	Excess (umbrella) Liability	\$1,000,000
2.1.12.4.	Per Truck	\$100,000
2.1.12.5.	Per Occurrence	\$1,000,000

- 2.1.12.6. Worker's Compensation liability that meets statutory requirements.
- 2.1.13. <u>Indemnification:</u> The proposer agrees to, and shall, defend, release, and indemnify, and save and hold harmless PPLD, its officer, agents, and employees from and against any and all damages to property or injuries to or death of any person or persons, including property and officers, employees, and agents of PPLD, and further agrees to, and shall, defend, indemnify, and save and hold harmless PPLD, its officers, agents, and employees, from and against any and all claims, costs, demands, liabilities, suits, actions, causes of action, and other legal or equitable proceedings of any kind or nature whatsoever, of or by anyone whomsoever, including, but not limited to claims arising out of and/or predicated upon negligence, breach of contract, tort, or strict liability, in any way resulting from, connected with, or arising out of the Contractor's operations or performance in connection herewith, including operations or performance of sub-contractors and suppliers and acts or omissions of officers, employees, or agents of the Contractor or its sub-contractors or suppliers.
- 2.1.14. <u>Schedule:</u> By submitting a proposal, the proposer guarantees that it will be able to comply with the agreed upon, overall schedule.
 - 2.1.14.1. Anticipated sitework for this proposal to be completed as soon as possible.

2.1.15. <u>Continuity:</u> By submitting a proposal, the proposer will make its best efforts to ensure that the key team member(s) remain assigned to the PPLD's project for the duration of contract. Any changes to the staffing of this engagement must be discussed up front with PPLD personnel.

2.2. Selection

- 2.2.1. <u>Right of Acceptance and Rejection:</u> PPLD reserves the right to accept or reject any or all proposals and to waive any formalities, informalities, and deviations, which, in its opinion, best serve the interests of PPLD. PPLD is not bound to accept the lowest price proposal.
- 2.2.2. <u>Selection:</u> It is the intent of PPLD to select only responsible and responsive Contractors. Bidder's proposal should include the most favorable terms and conditions.
- 2.2.3. <u>Negotiation:</u> PPLD reserves the right to negotiate terms and conditions of the contract with the winning Contractor.
- 2.2.4. <u>Basis of Award:</u> An evaluation team will judge the merit of proposals received in accordance with the general criteria defined within this RFP. The recommendations of this team will be forwarded to the Board of Trustees for approval and execution. The following criteria will be taken into consideration when making evaluations of proposals. This list is not intended to be exhaustive nor ranking in order of importance:
 - 2.2.4.1. Completeness of Proposal
 - 2.2.4.2. References
 - 2.2.4.3. Pricing
 - 2.2.4.4. Quality of Services
 - 2.2.4.5. Contractor Qualifications and History
 - 2.2.4.6. Any other items deemed in the best interests of PPLD
 - 2.2.4.7. Bid scoring below:

Bid Completeness	20%
Company/ Personnel Experience	20%
References	20%
Pricing	40%
Total	100%

2.3. Contract Formation

2.3.1. <u>Agreement in Writing</u>: Following selection of a proposal, the Contractor will be required to enter into a written contract with PPLD. American Institute of Architects (AIA) Contract A110 Owner and Contractor is preferred.

The winning Bidder's RFP proposal will be included and integrated into the final contract documents. It is in the Bidder's best interest to ensure the proposal is accurate to allow for the integration with minimal changes.

If you have a formal or standard contract that you typically use with such projects, please attach a copy to your Proposal. A Service Agreement is not a condition of accepting an RFP.

If, in PPLD's sole discretion, the selected proposer has not executed the contract documents within a reasonable time after selection, PPLD reserves the right to rescind the award and select another Contractor.

- 2.3.2. <u>Amendments to Contract</u>: Parties hereto reserve the right to make amendments or modifications to the contract by written amendment signed by both parties.
- 2.3.3. <u>Termination of Contract for Cause:</u> If, through any cause, the successful Bidder shall fail to fulfill in a timely and proper manner its obligations or if the successful Bidder shall violate any of the covenants,

agreements, or stipulations of the Contract, PPLD shall thereupon have the right to terminate the Contract by giving written notice to the successful Bidder of such termination and specifying the effective date of termination. In that event, all finished or unfinished services, reports or other materials prepared by the successful Bidder shall, at the option of PPLD, become its property, and the successful Bidder shall be entitled to receive just, equitable compensation for any satisfactory work completed, prepared documents or materials as furnished. Notwithstanding the above, the successful Bidder shall not be relieved of liability to PPLD for damage sustained by PPLD by virtue of breach of the Contract by the successful Bidder and PPLD may withhold any payments to the successful Contractor for the purpose of set offer until such time as the exact amount of damages due PPLD from the successful Bidder is determined.

- 2.3.4. <u>Termination of Contract for Convenience</u>: PPLD may terminate the Contract at any time by giving written notice to the successful Contractor of such termination and specifying the effective date thereof, at least thirty (30) working days before the effective date of such termination. In that event, all finished or unfinished services, reports, material(s) prepared or furnished by the successful Bidder under the Contract shall, at the option of PPLD, become its property.
- 2.3.5. <u>Cancellation:</u> Either party may cancel the Contract in the event that a petition, either voluntary or involuntary, is filed to declare the other party bankrupt or insolvent or in the event that such party makes an assignment for the benefit of creditors.

3. Scope of Work

- 3.1. Service Specifications provided by Farnsworth Group Engineering
- 3.2. Add alternate to Option 2 to quote price to perform drilling under pavement and concrete surfaces opposed to taking up material and replacing.
- 3.2. Awarded contractor shall coordinate with subcontractors to return the drive lane to its current status.
- 3.3. Awarded contractor shall coordinate schedules with Facilities Project Manager.
- 3.4. All work shall be done to the highest of industry quality and be in general accordance with Pikes Peak Rural Transportation Authority and/or City of Colorado Springs standards for roadway construction and the Pikes Peak Regional Building Department.
- 3.5. All piping must be tested for leaks prior to any backfill and pit covering.
- 3.6. The successful proposer shall be required to furnish <u>all permits</u>, equipment, tools, machinery, transportation, and other implements necessary to fulfill the provisions of this Contract. This includes but is not limited to all procurement and contracting requirement specifications included within.
- 3.7. Environmental risks are to be addressed throughout the project. The use of safety cones, caution take, rock socks, traffic control, traffic control permits, as necessary.
- 3.8. No non-employees, employee's significant others, employee's children, or employee's pet(s) shall be permitted on the jobsite, by the Contractor or any others, during the performance of this contract.
- 3.9. Requirement of company to provide and maintain a lockable portable toilet for construction workers use during the duration of the project

4. Contractor Qualification and Information

The following information and documents must be included in submitted proposal:

- 4.1. Provide the name of the proposing Contractors, address, telephone and primary contact person.
- 4.2. State the size of the Contractor and provide a history summary.
- 4.3. Your organization's qualifications and experience. If you have experience with PPLD Libraries, describe your current or past relationship. Describe any similar projects performed by your organization.
- 4.4. Provide references from minimum three (3) recent similar projects including name, telephone number and a brief statement describing their association with your Contractor (e.g., other library, educational or public sector clients). References from Colorado are preferred.

4.5. Provide resumes of the certified team members that will be assigned to this project and include their specific responsibilities.

4.6. Any other information you feel should be considered in the selection process.

5. Pricing

- 5.1. <u>Minimum Services:</u> PPLD is looking for the best-value proposal that meets the needs of the district to include all cost aspects of service. Please include:
 - 5.1.1. Lump Sum and unit costs, to include but not limited to travel, accommodations, reimbursables, and plan completion.

ADDENDUM A - PROPOSAL COVER SHEET

I.	GENERAL INFORMATION	
	1. CONTRACTOR NAME	
	2. ADDRESS	
	3. PHONE	
	5. E-MAIL AND WEBSITE	
	6. CONTACT	
II.	STATEMENT OF MINIMUM QUALIFICAT	TION
I, _		(printed name) hereby declare
tha	at I am the	(title) of
nar		(name of Contractor) submitting zed to sign this profile and declaration on behalf of the above offile and declaration and all attachments hereto are, to the best he submission date.
The	e signer further certifies that (please initial):	
a.	The Contractor has carefully examined all instructions, requirements, specifications, and terms and conditions of the RFP for which this proposal is submitted. The Contractor understands all instructions, requirements, specifications, and terms and conditions of this RFP, and hereby offers and proposes to furnish the goods and services described herein at the prices, fees, and/or rates identified in this proposal, in accordance with the instructions, requirements, specifications, and terms and conditions of this RFP.	
b.	This proposal is a valid and irrevocable PPLD's acceptance for a period of ninety (90) call	le offer that will not be revoked and shall remain open for the endar days from the proposal due date.
c.	The Contractor is in full compliance wit and ordinances governing business practices.	h all applicable federal, state, and local laws, rules, regulations,
d.	All statements, information, and repres	entations prepared and submitted in this proposal are current,

ADDENDUM B - CHECKLIST, OUESTIONNAIRE, AND PRICING FORM

QUALIFICATIONS (Fill in or attach additional pages as needed): A. SIZE and AGE of Contractor B. CONTRACTOR'S EXPERIENCE: **Qualifications:** List location, owner, and completion date of at least three (3) projects with similar scope. Company Name: _____ Contact Name: _____ Phone: Address: Scope of service performed: Company Name: _____ Contact Name: ____ Address: Phone: Scope of service performed: Company Name: _____ Contact Name: _____ Address: Phone: Scope of service performed:_____ Pricing Provide lump sum and hourly rate information as requested. All costs stated shall be "complete" costs to include travel, accommodations, reimbursables and plan completion, OH&P, applicable taxes, permits as required. Project Cost: Hourly Rates: Provide list with proposal package. Projected start date and duration of installation: Indicate your projected scheduling of this work with milestones. Anticipated Start Date: _____Anticipated Completion Date: ____ **Indicate Preferred payment schedule:**

Submittal of this bid form implies that the Contractor can adequately staff and schedule all work at the required time and has the resources available to procure all required materials at the required time. All costs indicated shall be maintained by the Contractor for not less than 30 days from the submittal date and shall be maintained throughout the duration of the contract after award.

ADDENDUM C - IMMIGRATION CLAUSE FOR CONTRACTS

Pursuant to Colorado Revised Statutes Section 8-17.5-102, the Pikes Peak Library District ("PPLD") shall not enter into or renew a public contract for services with a contractor who knowingly employs or contracts with an illegal alien to perform work under the contract or who knowingly contracts with a sub-contractor who knowingly employs or contracts with an illegal alien to perform work under the contract.

Accordingly, Contractor agrees that it shall not:

Knowingly employ or contract with an illegal alien to perform work under this Agreement; or

Enter into a contract with a subcontractor for work under this Agreement that fails to certify to the Contractor that the subcontractor shall not knowingly employ or contract with an illegal alien to perform work under this Agreement.

Further, Contractor agrees that it shall comply with the following:

Contractor has the employment eligibility for all employees who are newly hired for employment to perform work under this Agreement through participation in either the e-verify program administered jointly by the U.S. Department of Homeland Security and the Social Security Administration (the "E-Verify Program") or the department program administered by the Colorado Department of Labor and Employment (the "Department Program").

Contractor shall not use the E-Verify Program or the Department Program procedures to undertake pre-employment screening of job applicants while the services under this Agreement are being performed.

Should Contractor obtain actual knowledge that a sub-contractor performing work under this Agreement knowingly employs or contracts with an illegal alien, the Contractor shall:

Notify the sub-contractor and PPLD within three days that Contractor has actual knowledge that the subcontractor is employing or contracting with an illegal alien; and

Terminate the sub-contract with the sub-contractor if, within three days of receiving the notice, the subcontractor does not stop employing or contracting with the illegal alien; except that Contractor shall not terminate the contract with the subcontractor if, during such three days, the sub-contractor provides information to establish that the sub-contractor has not knowingly employed or contracted with an illegal alien.

Contractor shall comply with any reasonable request by the Colorado Department of Labor and Employment (the "Department") made in the course of an investigation that the Department may undertake pursuant to its authority under Colorado Revised Statutes Section 8-17.5-102(5).

Authorized Signature	Date



PIKES PEAK LIBRARY DISTRICT

WATERMAIN REROUTE

Project Location

LOT 2, LOCATED IN THE NORTHWEST QUARTER OF SECTION 04, TOWNSHIP 13 SOUTH, RANGE 66 WEST, OF THE 6TH PRINCIPAL MERIDIAN, TOWN OF COLORADO SPRINGS, EL PASO COUNTY, STATE OF COLORADO

INDEX OF DRAWINGS

SHEET NUMBER	SHEET TITLE
C000	COVER SHEET
C001	GENERAL NOTES
V101	TOPOGRAPHIC SURVEY
C101	WATERLINE PLAN AND PROFILE OPTION 1
C102	WATERLINE PLAN AND PROFILE OPTION 2
C501	WATER DETAILS
C502	WATER DETAILS
C503	EROSION CONTROL DETAILS

LOCATION MAP





PROJECT NO.: 0241083.00 DATE: 07/26/2024

WATER PLAN NOTES

HE CONTRACTOR SHALL NOTIFY COLORADO SPRINGS UTILITIES' INSPECTIONS OFFICE 719-668-4658 A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

GENERAL:

- 1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL MEET COLORADO SPRINGS UTILITIES' WATER LINE EXTENSION AND SERVICE STANDARDS (WATER LESS).
- 2. THE CONTRACTOR SHALL OBTAIN LOCATES PRIOR TO ANY EXCAVATION.
- 3. COLORADO SPRINGS UTILITIES DOES NOT GUARANTEE THE ACCURACY OF LOCATIONS OF EXISTING PIPELINES, HYDRANTS, VALVES AND SERVICE LINES. IF FIELD CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE INSPECTOR AND THE ENGINEER OF RECORD IMMEDIATELY.
- 4. NO TREES OR STRUCTURES ARE PERMITTED WITHIN FIFTEEN FEET (15') OF A WATER MAIN.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY FACILITIES AS A RESULT OF HIS ACTIONS. THE CONTRACTOR SHALL MAKE ALL THE REQUIRED REPAIRS IMMEDIATELY TO THE SATISFACTION OF COLORADO SPRINGS UTILITIES.
- 6. ALL FIELD STAKING SHALL COMPLY WITH THE WATER LESS.
- 7. THE CONTRACTOR SHALL MAKE THEIR BEST EFFORT TO ENSURE THAT WATER SERVICE TO ADJACENT PROPERTIES IS MAINTAINED DURING CONSTRUCTION.
- 8. CORROSION PROTECTION MEASURES SHALL COMPLY WITH THE WATER LESS.
- 9. NO SERVICE TAPS WILL BE ALLOWED UNTIL THE MAIN IS EXTENDED TO THE NEXT MAIN-LINE
- 10. NO SERVICE TAPS SHALL BE MADE UNTIL AUTHORIZATION HAS BEEN GRANTED BY THE COLORADO SPRINGS UTILITIES' INSPECTOR.
- 11. ALL BENDS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION AND THE STATIONING ON THE FIELD STAKES SHALL MATCH THE STATIONING ON THE PLANS.
- 12. FIELD MODIFICATIONS TO A FIRE SERVICE LINE OR FIRE HYDRANT DESIGN OR LOCATION MAY NEED TO BE APPROVED BY THE DESIGN ENGINEER, COLORADO SPRINGS FIRE DEPARTMENT AND COLORADO SPRINGS UTILITIES, AS REQUIRED BY THE INSPECTOR.
- 13. REUSE OR SALVAGE OF ANY MATERIAL IS LEFT TO THE DISCRETION OF THE COLORADO SPRINGS UTILITIES INSPECTOR.
- 14. ALL TRENCH BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS MANUAL.
- 15. ALL WATER SERVICE LINES SHOULD ENTER THE BUILDING WITHIN 5 FEET OF AN EXTERIOR WALL. EXPOSED WATER PLUMBING SHALL BE MINIMIZED INSIDE THE BUILDING PRIOR TO THE WATER METER AND/OR APPROVED BACKFLOW PREVENTION ASSEMBLY OR METHOD.

WATER PROJECT - SPECIFIC NOTES

- ANY EXISTING STUBS AND APPURTENANCES THAT WILL NOT BE USED SHALL BE REMOVED AND REPLACED WITH AN ACCEPTABLE SECTION OF MAIN AT THE EXPENSE OF THE CONTRACTOR.
- A CONNECTION TO AN EXISTING STUB IS PROPOSED. COLORADO SPRINGS UTILITIES DOES NOT GUARANTEE THE ACCURACY OF THE DEPTHS OR LOCATIONS OF EXISTING STUBS SHOWN ON ANY "AS-BUILT" DRAWINGS.
- A WATER STUB-OUT(S) IS/ARE PROPOSED. COLORADO SPRINGS UTILITIES DOES NOT GUARANTEE THAT THE DESIGN OR INSTALLATION OF THE PROPOSED WATER STUB-OUT WILL MEET FUTURE DEVELOPMENT NEEDS.
- A WATER QUALITY PLAN HAS BEEN APPROVED FOR THIS PROJECT

UTILITY SERVICE PLAN NOTES

THE CONTRACTOR SHALL NOTIFY COLORADO SPRINGS UTILITIES' INSPECTIONS OFFICE |719-668-4658 A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION

GENERAL:

- 1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL MEET COLORADO SPRINGS UTILITIES' WASTEWATER AND WATER LINE EXTENSION AND SERVICE STANDARDS (WATER/WASTEWATER LESS).
- COLORADO SPRINGS UTILITIES DOES NOT GUARANTEE THE ACCURACY OF LOCATIONS OF EXISTING PIPELINES, MANHOLES, HYDRANTS, VALVES AND SERVICE LINES. IF FIELD CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE INSPECTOR AND THE DESIGN ENGINEER IMMEDIATELY.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY FACILITIES AS A RESULT OF HIS ACTIONS. THE CONTRACTOR SHALL MAKE ALL THE REQUIRED REPAIRS IMMEDIATELY TO THE
- SATISFACTION OF COLORADO SPRINGS UTILITIES. 4. ALL FIELD STAKING SHALL COMPLY WITH THE WATER/WASTEWATER LESS.
- CORROSION PROTECTION MEASURES SHALL COMPLY WITH THE WATER/WASTEWATER LESS. 6. FINAL LOCATION OF ALL WASTEWATER AND WATER SERVICES SHALL BE APPROVED IN THE FIELD BY
- THE COLORADO SPRINGS UTILITIES INSPECTOR. 7. ALL TRENCH BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS MANUAL AND SECTION 5.18 OF THE WATER LESS.

WASTEWATER:

- 1. SERVICE STUBS SHALL BE INSTALLED A MINIMUM OF SEVEN FEET (7') INTO THE PROPERTY, UNLESS OTHERWISE SHOWN, AND THE END OF THE STUB SHALL BE MARKED WITH A 2"X4"X12' STEEL OR WOODEN POST
- 2. SERVICES SHALL BE CONNECTED A MINIMUM OF FIVE FEET (5') FROM THE OUTSIDE EDGE OF ANY MANHOLE ON THE MAIN LINE AND SHALL MAINTAIN TWO FEET (2') OF SEPARATION BETWEEN TAPS CENTER TO CENTER.
- 3. ALL CLEANOUTS SHALL BE THE SAME SIZE AS THE SERVICE LINE. 4. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY DEPARTMENT OF HEALTH AND ENVIRONMENT WHEN ANY SEPTIC TANK IS TO BE ABANDONED AND PAY ALL FEES NECESSARY TO OBTAIN A PERMIT.

COLORADO SPRINGS UTILITIÉS.

- 1. SERVICE STUBS SHALL BE INSTALLED WITH THE CURB STOP AT OR NEAR PROPERTY LINE AND SHALL NOT BE INSTALLED WITHIN DRIVEWAYS OR SIDEWALKS (SEE DETAIL DRAWING B2-3). 2. SERVICE TAPS SHALL BE MADE A MINIMUM OF THREE FEET (3') FROM THE BELL OR APPURTENANCE
- ON THE WATER MAIN. TAPS SHALL BE A MINIMUM OF THREE FEET (3') APART ON THE SAME SIDE OF THE WATER MAIN AND A MINIMUM OF ONE-AND-A-HALF FEET (1.5') WHEN TAPS ARE MADE ON OPPOSITE SIDES OF THE WATER MAIN. ALL SERVICES FOR COMMERCIAL USE AND SOME RESIDENTIAL USES REQUIRE INSTALLATION OF A BACKFLOW PREVENTION ASSEMBLY IMMEDIATELY AFTER THE METER. THE BACKFLOW PREVENTION
- ASSEMBLY SHALL BE APPROVED BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH OF THE UNIVERSITY OF SOUTHERN CALIFORNIA (USC-FCCCHR) AND INSTALLED IN ACCORDANCE WITH THIS LISTING. PLEASE REFERENCE THE WATER LINE EXTENSIÓN STANDARDS FOR ADDITIONAL REQUIREMENTS.
- 4. ALL TAPS ON COLORADO SPRINGS UTILITIES WATER MAINS SHALL BE PERFORMED BY COLORADO SPRINGS UTILITIES. ALL OTHER TAPS SHALL BE PERFORMED BY THE CONTRACTOR. 5. ANY ABANDONED SERVICES MUST BE PHYSICALLY DISCONNECTED AT THE MAIN. ANY NECESSARY REPAIRS TO THE MAIN AND/OR SHUT DOWN OF THE TAPPING VALVE SHALL BE AS DIRECTED BY
- 6. ALL WATER SERVICE LINES SHOULD ENTER THE BUILDING WITHIN 5 FEET OF AN EXTERIOR WALL. EXPOSED WATER PLUMBING SHALL BE MINIMIZED INSIDE THE BUILDING PRIOR TO THE WATER METER AND/OR APPROVED BACKFLOW PREVENTION ASSEMBLY OR METHOD.
- 7. ALL HDPE WATER SERVICE LINES MUST EXTEND A MINIMUM OF 6 INCHES ABOVE THE FLOOR AND BE 90 DEGREES FROM THE FLOOR PLAN TO ALLOW FOR BRACING AND TRANSITION TO THE METER LOOP

GENERAL NOTES

- 1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST COLORADO SPRINGS UTILITIES (CSU) AND STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC AND PRIVATE IMPROVEMENTS, COLORADO DEPARTMENT OF TRANSPORTATION AND ALL APPLICABLE STATE AND LOCAL STANDARDS AND SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL HAVE IN POSSESSION AT THE JOB SITE AT ALL TIMES ONE (1) SIGNED COPY OF APPROVED PLANS, STANDARDS AND SPECIFICATIONS, AND PERMITS. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EMERGENCY ACCESS ROUTES TO THE SITE AND STRUCTURE AT ALL TIMES PER THE APPLICABLE FIRE PROTECTION DISTRICT REQUIREMENTS. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ANY VARIANCE TO THE ABOVE DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER OF ANY CONFLICTING STANDARDS OR SPECIFICATIONS. IN THE EVENT OF ANY CONFLICTING STANDARD OR SPECIFICATION, THE MORE STRINGENT OR HIGHER QUALITY STANDARD, DETAIL OR SPECIFICATION SHALL
- 3. THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARD SPECIFICATIONS, PERMITS, BONDS, ETC., WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK, INCLUDING, BUT NOT LIMITED TO A LOCAL AND STATE GROUNDWATER DISCHARGE AND COLORADO DEPARTMENT OF HEALTH AND ENVIRONMENT (CDPHE) STORMWATER DISCHARGE PERMIT ASSOCIATED WITH
- 4. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY AUTHORIZED COLORADO SPRINGS UTILITIES
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER, GEOTECHNICAL ENGINEER, AND ALL UTILITY OWNERS, AT LEAST 48 HOURS PRIOR TO START OF ANY CONSTRUCTION, PRIOR TO BACKFILLING, AND AS REQUIRED BY JURISDICTIONAL AUTHORITY AND/OR PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL CONTINUE WITH NOTIFICATIONS THROUGHOUT THE PROJECT AS REQUIRED BY THE CSU STANDARDS AND SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE; INCLUDING, SAFETY OF PERSONS AND PROPERTY DURING THE PERFORMANCE OF WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CITY 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.
- 7. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO CONSTRUCTION AND PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FENCING, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY. THE CONTRACTOR AGREES TO COMPLY WITH THE PROVISIONS OF THE TRAFFIC CONTROL PLAN AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)," PART VI, FOR CONSTRUCTION SIGNAGE AND TRAFFIC CONTROL. ALL TEMPORARY AND PERMANENT TRAFFIC SIGNS SHALL COMPLY TO THE MUTCD WITH REGARD TO SIGN SHAPE, COLOR, SIZE, LETTERING, ETC. UNLESS OTHERWISE SPECIFIED. IF APPLICABLE, PART NUMBERS ON SIGNAGE DETAILS REFER TO MUTCD SIGN
- 8. THE TYPE, SIZE, LOCATION, AND NUMBER OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE AS SHOWN ON THE DRAWINGS BASED ON INFORMATION BY OTHERS. NOT ALL UTILITIES ARE SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, SIZE, TYPE, AND LOCATION OF ALL UNDERGROUND UTILITIES WHETHER SHOWN OR NOT ALONG THE ROUTE OF THE WORK. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO DATE OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY SIZE AND HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE CITY OF ANY DISCREPANCIES. THE ENGINEER AND/OR OWNER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS SHOWN ON PLANS. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND COSTS WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO PROCEEDING WITH GRADING AND CONSTRUCTION. ALL WORK PERFORMED IN THE AREA OF REQUIREMENTS OF THE UTILITY OWNER. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAPPING ANY EXISTING UTILITY (INCLUDING DEPTH) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION, AND FOR RELOCATING ENCOUNTERED UTILITIES AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL CONTACT AND RECEIVE APPROVAL FROM CITY ENGINEER AND THE UTILITY OWNER BEFORE RELOCATING ANY ENCOUNTERED UTILITIES. CONTRACTOR RESPONSIBLE FOR SERVICE CONNECTIONS, AND RELOCATING AND RECONNECTING AFFECTED UTILITIES AS COORDINATED WITH UTILITY OWNER AND/OR ENGINEER, INCLUDING NON-MUNICIPAL UTILITIES (TELEPHONE, GAS, CABLE, ETC., WHICH SHALL BE COORDINATED WITH THE UTILITY OWNER). THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE CITY ENGINEER UPON DISCOVERY OF A UTILITY DISCREPANCY OR CONFLICT. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY NOTIFICATION CENTER OF COLORADO (1-800-922-1987, WWW.UNCC.ORG).
- 9. ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF WORKERS PROVIDED FOR AS REQUIRED BY THE MOST RECENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION." THESE REGULATIONS ARE DESCRIBED IN SUBPART P. PART 1926 OF THE CODE OF FEDERAL REGULATIONS. SHEETING AND SHORING SHALL BE UTILIZED WHERE NECESSARY TO PREVENT ANY EXCESSIVE WIDENING OR SLOUGHING OF THE TRENCH WHICH MAY BE DETRIMENTAL TO HUMAN SAFETY, TO THE PIPE BEING PLACED, TO TREES, OR TO ANY EXISTING STRUCTURE WHERE EXCAVATIONS ARE MADE UNDER SEVERE WATER CONDITIONS. THE CONTRACTOR MAY BE REQUIRED TO USE AN APPROVED PILING INSTEAD OF SHEETING AND SHORING.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED. PIPED. REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS NOR EROSION AND ABUTTING PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. GROUNDWATER TO BE PUMPED SHALL BE TESTED, PERMITTED, AND PUMPED PER THE STATE OF COLORADO AND LOCAL GROUNDWATER DISCHARGING PERMIT REQUIREMENTS.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING NEARBY PUBLIC STREETS OF MUD OR DEBRIS DUE TO CONSTRUCTION ACTIVITY INITIATED BY SAID CONTRACTOR ON A DAILY BASIS OR AS OTHERWISE DIRECTED BY AUTHORIZED CITY PERSONNEL.
- 12. ALL SURPLUS MATERIALS, TOOLS, AND TEMPORARY STRUCTURES, FURNISHED BY THE CONTRACTOR, SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR. ALL DEBRIS AND RUBBISH CAUSED BY THE OPERATIONS OF THE CONTRACTOR SHALL BE REMOVED, AND THE AREA OCCUPIED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER, WITHIN 48 HOURS OF PROJECT COMPLETION.
- 13. PRIOR TO THE BEGINNING OF WORK, A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD BETWEEN THE PPLD, THE RESPONSIBLE PARTY WHO IS SCHEDULED TO PERFORM THE WORK, THE DESIGNATED ON-SITE FIELD REPRESENTATIVE, THE CONSULTING ENGINEER AND ANY OTHER ENTITIES INVOLVED IN THE
- 14. THE CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN, THE LOCAL JURISDICTION MAY REQUIRE THE CONTRACTOR TO PROVIDE ADDITIONAL EROSION CONTROL MEASURES AT THE CONTRACTOR'S EXPENSE DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE PLANS DO NOT FUNCTION AS INTENDED. THE CONTRACTOR IS RESPONSIBLE FOR PROHIBITING SILT AND DEBRIS LADEN RUNOFF FROM LEAVING THE SITE, AND FOR KEEPING ALL PUBLIC AREAS FREE OF MUD AND DEBRIS . THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING FINAL GRADES AND FOR REMOVING ACCUMULATED SEDIMENTATION FROM ALL AREAS INCLUDING SWALES AND DETENTION/WATER QUALITY AREAS. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY TOWN OF COLORADO SPRINGS.
- 15. THE MATERIALS USED IN PROJECTS SHALL BE NEW AND SUBJECT TO THE INSPECTION AND APPROVAL OF THE INSPECTOR AT ALL TIMES. THE INSPECTOR HAS THE RIGHT TO PERFORM ANY TESTING DEEMED NECESSARY TO ENSURE COMPLIANCE OF THE MATERIAL WITH THESE STANDARDS. NO MATERIAL SHALL BE USED BEFORE BEING INSPECTED AND APPROVED BY THE INSPECTOR. FAILURE OR NEGLECT ON THE PART OF THE INSPECTOR TO CONDEMN OR REJECT INFERIOR MATERIALS OR WORK SHALL NOT BE CONSTRUED TO IMPLY THEIR ACCEPTANCE SHOULD THEIR INFERIORITY BECOME EVIDENT AT ANY TIME PRIOR TO FINAL ACCEPTANCE OF THE WORK. INSPECTORS HAVE THE AUTHORITY TO REJECT DEFECTIVE OR INFERIOR MATERIALS AND/OR DEFECTIVE WORKMANSHIP AND TO SUSPEND WORK UNTIL SUCH TIME AS THE RESPONSIBLE PARTY SHALL CORRECT THE DISCREPANCIES IN QUESTION.
- 16. WHENEVER DEFECTIVE MATERIALS AND WORK ARE REJECTED, THE RESPONSIBLE PARTY SHALL PROMPTLY REMOVE SUCH DEFECTIVE MATERIALS AND CONSTRUCTION FROM THE JOB SITE AND REPLACE ALL DEFECTIVE PORTIONS TO THE SATISFACTION OF THE CITY ENGINEER. IN THE EVENT THE RESPONSIBLE PARTY FAILS TO REMOVE REJECTED ITEMS FROM THE JOB SITE WITHIN A REASONABLE LENGTH OF TIME, THE CITY ENGINEER MAY ARRANGE FOR SUCH REMOVAL AT THE EXPENSE OF THE RESPONSIBLE PARTY.
- 17. INSPECTION SHALL NOT RELIEVE THE RESPONSIBLE PARTY FROM ANY OBLIGATION TO PERFORM THE WORK STRICTLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS OR ANY MODIFICATIONS THEREOF. WORK NOT SO CONSTRUCTED SHALL BE REMOVED AND CORRECTED BY THE RESPONSIBLE PARTY AT HIS SOLE EXPENSE, WHENEVER SO ORDERED BY THE CITY ENGINEER, WITHOUT REFERENCE TO ANY PREVIOUS ERROR OR OVERSIGHT IN INSPECTION.

- 18. EXCEPT IN CASES OF EMERGENCY, MAINTENANCE, OR PROTECTION OF WORK ALREADY COMPLETED, NO WORK SHALL BE ALLOWED BETWEEN THE HOURS OF 7 P.M. AND 7 A.M.; NOR ON SATURDAY, SUNDAY, OR LEGAL HOLIDAYS UNLESS APPROVED BY THE CITY ENGINEER IN EACH CASE. WHEN ANY INSPECTOR IS REQUIRED TO WORK OUTSIDE THE HOURS OF 7 A.M. TO 4 P.M. ON REGULAR CITY BUSINESS DAYS. OVERTIME SHALL BE CHARGED TO THE RESPONSIBLE PARTY. HOWEVER, SUCH INSPECTORS SHALL REMAIN EMPLOYEES OF THE CITY FOR ALL PURPOSES. REQUESTS FOR OVERTIME SHALL BE MADE TO THE CITY ENGINEER AT LEAST 48 HOURS IN ADVANCE. PAYMENT FOR SUCH OVERTIME WORK SHALL BE MADE TO THE CITY PRIOR TO
- 19. IN THE EVENT ONE OR MORE INSPECTORS REPRESENTING PRIVATE CONSULTING ENGINEERING FIRMS ARE ALSO INSPECTING A PROJECT ALONG WITH THE CITY ENGINEER. THE INSTRUCTIONS GIVEN BY THE CITY ENGINEER SHALL PREVAIL IN THE EVENT OF CONFLICTING INSTRUCTIONS.
- 20. PROTECT ALL TREES AND VEGETATION. PLACE CONSTRUCTION FENCING AT DRIP LINE OF TREES AND PLANTS NEAR THE WORK ZONE. DEEP WATER TREES WEEKLY. HAND EXCAVATION REQUIRED AT TOOT ZONES WHERE PROPOSED PAVING OR UTILITY WORK IS WITHIN DRIPLINE OF TREES. REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS OR LANDSCAPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 21. THE WORK SHALL BE SURVEYED AND STAKED UNDER THE SUPERVISION OF A LICENSED LAND SURVEYOR IN ACCORDANCE WITH THE APPROVED PLANS.
- 22. RIM AND GRATE ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE CONTRACTOR SHALL ADJUST RIMS AND OTHER IMPROVEMENTS TO MATCH FINAL PAVEMENT AND FINISHED GRADE ELEVATIONS.
- 23. THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD A COMPLETE SET OF CONSTRUCTION RECORD DRAWINGS ("AS-BUILTS"), FOR THE CONSTRUCTED IMPROVEMENTS. THE PLANS SHALL SHOW SUFFICIENT DIMENSION TIES TO PERMANENT SURFACE FEATURES FOR ALL BURIED FACILITIES TO ALLOW FOR FUTURE LOCATING. THE PLANS SHALL SHOW FINAL PAVEMENT, FLOW LINE ELEVATIONS, CONTOURS AT POND/DRAINAGE FEATURES (AS SURVEYED AND CERTIFIED BY A COLORADO P.L.S.), MANHOLE, PIPE, AND INLET LOCATIONS, INVERTS, GRATE ELEVATIONS, SIZES OF ALL UTILITIES AND ANY VARIATIONS FROM THE APPROVED PLAN. FINAL AS-BUILT PLANS PREPARED BY THE ENGINEER OF RECORD SHALL BE PROVIDED TO THE STATE OF COLORADO.
- 24. REMOVAL DIMENSIONS ARE TO EDGE OF PAVEMENT (E.O.P.) UNLESS NOTED OTHERWISE.
- 25. HORIZONTAL CONTROL COORDINATES ARE TO FLOWLINE, CENTER OF PIPELINE, OR VALVE BOXES UNLESS
- 26. THE CONTRACTOR SHALL KEEP ALL ACCESS ROADS FREE FROM MUD AND DEBRIS AT ALL TIMES. VEHICLE TRACKING MATS SHALL BE PLACED AT ALL CONSTRUCTION ACCESS POINTS TO PAVED STREETS.
- 27. THE CONTRACTOR SHALL SAWCUT ALL EDGES OF EXISTING PAVEMENT THAT ARE TO BE REMOVED. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO CREATE A SMOOTH WORKING EDGE AND TO PLACE BACKFILL AND PAVEMENT SECTION PER PROJECT SPECIFICATIONS AND THE GEOTECHNICAL RECOMMENDATIONS TO ENSURE THAT SETTLEMENT DOES NOT OCCUR.
- 28. ALL CONCRETE SIDEWALK AND/OR CURB AND GUTTER DAMAGED, CRACKED, OR BROKEN BY CONSTRUCTION ACTIVITIES ADJACENT TO THE PROJECT PROPERTY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY DISTURBED LANDSCAPED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION WITH THE SAME SIZE, COLOR, DEPTH, AND MATERIALS AS EXISTING.
- 29. ALL DISTURBED NATIVE AREAS SHALL BE RESTORED AND REVEGETATED WITH APPROVED LOCALLY ADAPTED VEGETATION AS APPROVED BY THE OWNER AND IN LINE WITH SITES REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR "FINAL STABILIZATION" OF THE DISTURBED PROJECT LIMITS PER THE TERMS AND CONDITIONS REQUIRED BY THE STATE OF COLORADO STORMWATER QUALITY MANAGEMENT PLAN (SWMP). FINAL STABILIZATION IS REACHED WHEN ALL GROUND SURFACE DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED WITH AN INDIVIDUAL PLANT DENSITY OF AT LEAST 70-PERCENT OF PRE-DISTURBANCE LEVELS, AND EQUIVALENT PERMANENT, PHYSICAL EROSION REDUCTION METHODS HAVE BEEN EMPLOYED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH THE REQUIRED VEGETATIVE COVER BY TEMPORARY WATERING OR IRRIGATION AND BY MAINTAINING TEMPORARY EROSION CONTROL MEASURES UNTIL THE 70-PERCENT PLANT DENSITY IS MET.
- 30. CONTRACTOR SHALL REPAIR, IRRIGATE AND REPLACE ANY SOD THAT IS IMPACTED OR DISTURBED BY CONSTRUCTION.
- 31. ALL WORK INVOLVING TREES TO BE REMOVED, REPLACED OR DISPOSED OF SHALL BE IN ACCORDANCE WITH DIRECTION FROM THE OWNER AND THE REGULATIONS OF THE STATE OF COLORADO. STUMPS MAY BE GROUND TO FINISHED GRADE AS DIRECTED BY OWNER. TREE(s) REMAINING ON-SITE SHOULD BE PROTECTED FROM CONSTRUCTION/EQUIPMENT ACTIVITIES. THE TREE TRUNK MUST BE PROTECTED. NO STOCKPILING OF MATERIALS OR FILL WITHIN THE CRITICAL ROOT ZONE OF THE TREE IS PERMITTED.
- 32. THE CONTRACTOR HAS THE DISCRETION TO FIELD ADJUST VALVE BOX LOCATIONS AND WATERLINE, IRRIGATION, OR ELECTRICAL ALIGNMENTS BASED ON UNFORESEEN FIELD CONDITIONS OR BASED ON UTILITY POT-HOLE RESULTS IN ORDER TO AVOID CONFLICTS WITH EXISTING INFRASTRUCTURE OR TREES COORDINATE FIELD ADJUSTMENTS WITH ENGINEER.



223 WILLOW STREET FORT COLLINS, COLORADO 80524 (970) 484-7477 / info@f-w.com

www.t-w.com Engineers | Architects | Surveyors | Scientists

DATE: DESCRIPTION:



Project Status FOR CONSTRUCTION

PIKES PEAK LIBRARY DISTRICT

WATERMAIN REROUTE

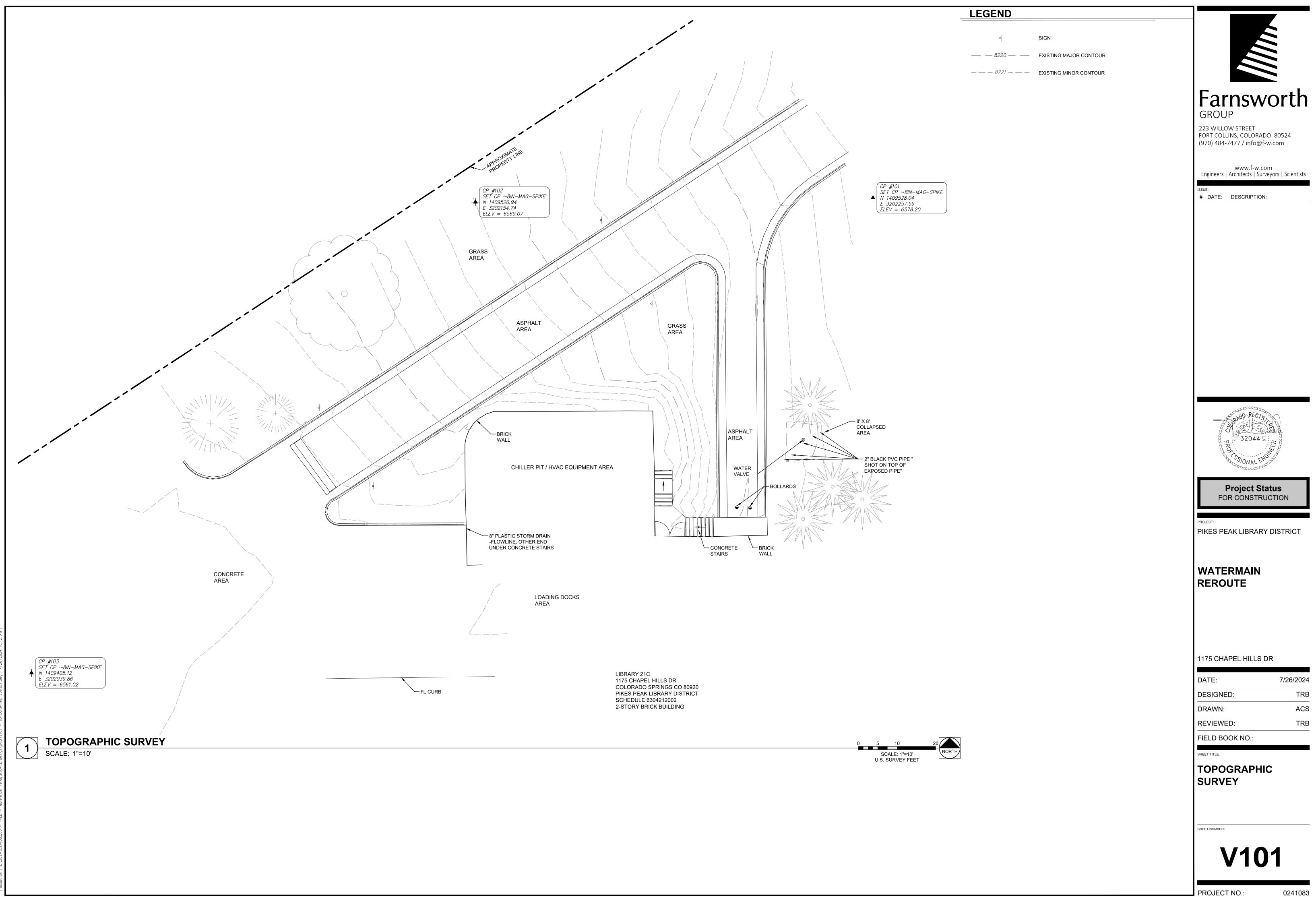
1175 CHAPEL HILLS DR

DATE:	7/26/2024
DESIGNED:	ТВ
DRAWN:	ACS
REVIEWED:	TRB
FIELD BOOK NO.:	

GENERAL NOTES

0241083

SHEET NUMBER:



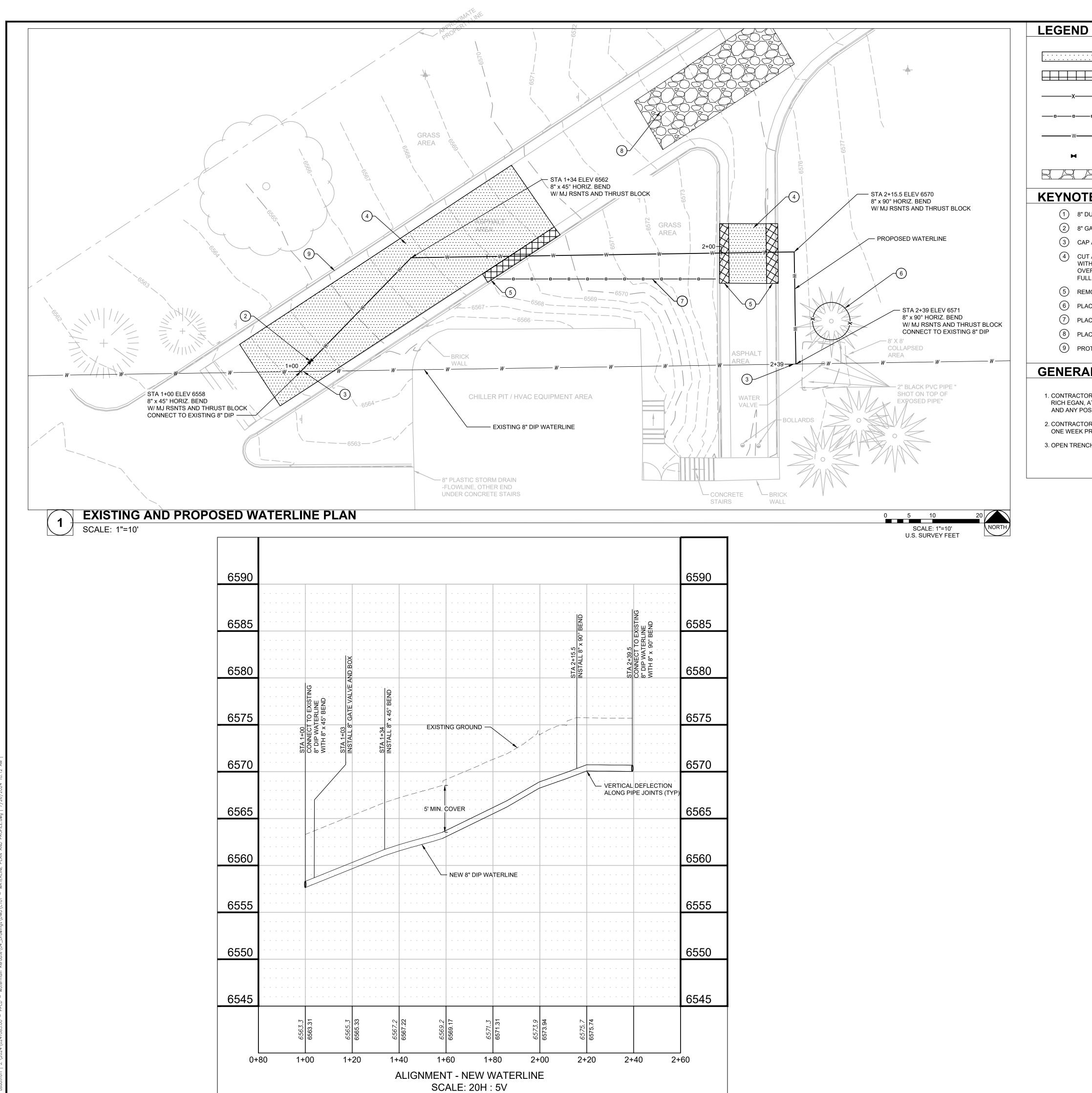
7/26/2024

0241083

TRB

ACS

TRB



CURB AND GUTTER REPLACEMENT

HOT MIX ASPHALT (HMA) REPLACEMENT

TREE PROTECTION FENCE

SILT FENCE WATERLINE

GATE VALVE AND BOX

KEYNOTES

1) 8" DUCTILE IRON PIPE (DIP) WATERLINE, SEE DETAILS ON SHEET C501

VEHICLE TRACKING CONTROL

- (2) 8" GATE VALVE AND BOX, SEE DETAILS ON SHEET C501
- (3) CAP AND PLUG EXISTING 8" DIP WATERLINE TO BE ABANDONED IN PLACE
- 4 CUT AND PATCH EXISTING ASPHALT PAVEMENT WITHIN PAVEMENT TRENCH AREA WITH 6" FULL DEPTH HOT MIX ASPHALT (HMA), CDOT GRADE S. PLACE 2" MILL AND OVERLAY, CDOT GRADE SX, ON FINAL LIFT WITHIN PAVEMENT TRENCH AREA AND FULL DRIVE LANE WIDTH AS SHOWN
- (5) REMOVE AND REPLACE CURB AND CUTTER IN KIND
- (6) PLACE TEMPORARY 48" ORANGE TREE PROTECTION FENCE
- 7) PLACE TEMPORARY SILT FENCE, SEE DETAIL 1 ON SHEET C502
- 8 PLACE TEMPORARY VEHICLE TRACKING CONTROL, SEE DETAIL 2 ON SHEET C502
- 9 PROTECT EXISTING CURB AND GUTTER TO REMAIN INTACT

GENERAL NOTES

- 1. CONTRACTOR SHALL COORDINATE WITH PIKES PEAK LIBRARY DISTRICT (PPLD) FACILITIES SUPERVISOR, RICH EGAN, AT 719-243-0556(C) OR <u>REGAN@PPLD.ORG</u> REGARDING CONSTRUCTION SCHEDULE, WATER SHUT-OFF, AND ANY POSSIBLE WATER OUTAGES AT LEAST 3 DAYS PRIOR TO OUTAGE.
- 2. CONTRACTOR SHALL PROVIDE TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION. SUBMIT PLAN TO PPLD ONE WEEK PRIOR TO CONSTRUCTION.
- 3. OPEN TRENCHES SHALL NOT BE PERMITTED OUTSIDE OF NORMAL CONSTRUCTION AND BUSINESS HOURS.



223 WILLOW STREET FORT COLLINS, COLORADO 80524 (970) 484-7477 / info@f-w.com

> www.f-w.com Engineers | Architects | Surveyors | Scientists

DATE: DESCRIPTION:



PIKES PEAK LIBRARY DISTRICT

WATERMAIN REROUTE

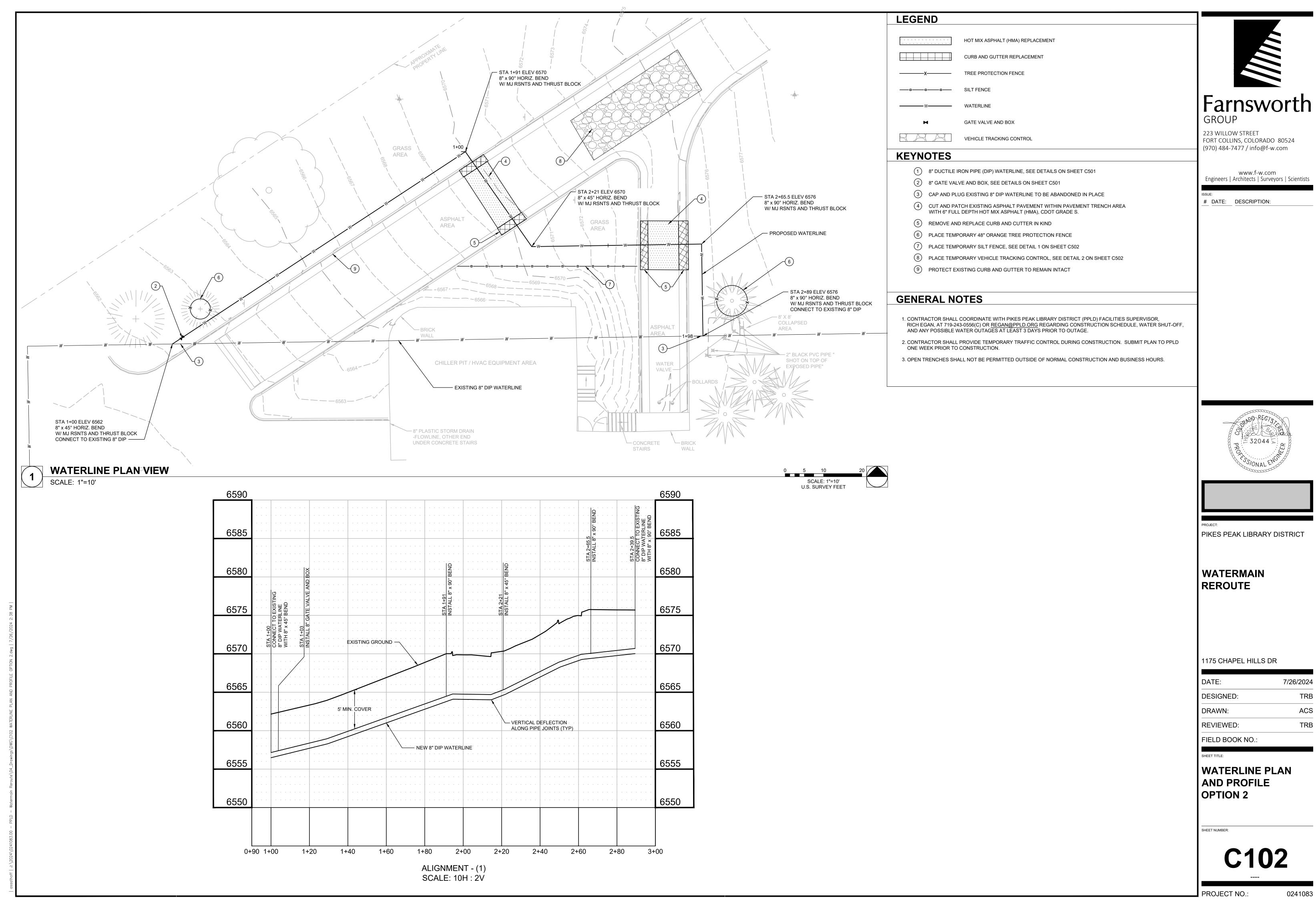
1175 CHAPEL HILLS DR

DATE: 7/26/2024 TRB DESIGNED: ACS DRAWN: TRB REVIEWED: FIELD BOOK NO.:

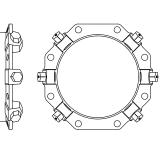
WATERLINE PLAN AND PROFILE OPTION 1

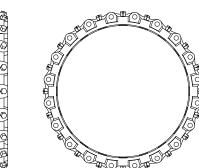
PROJECT NO.:

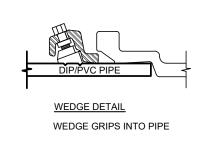
0241083



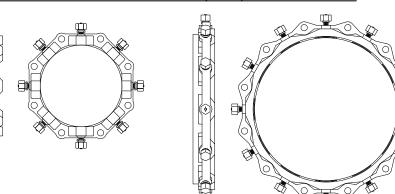
7/26/2024



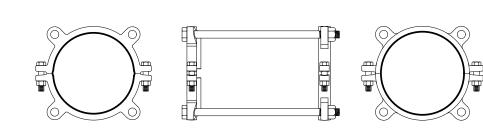


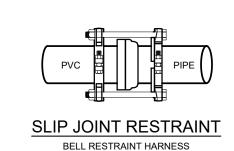


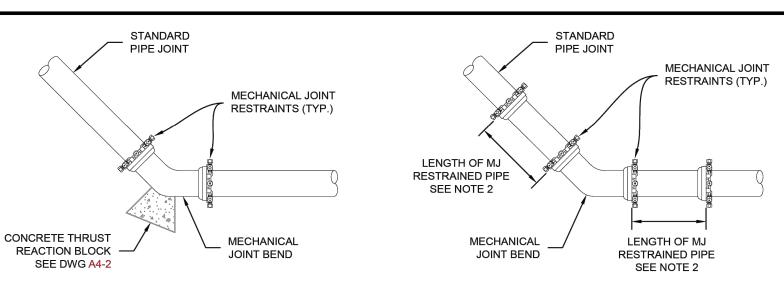
PVC MECHANICAL JOINT (M.J.) RESTRAINTS



SLIP JOINT RESTRAINTS BELL RESTRAINT HARNESS

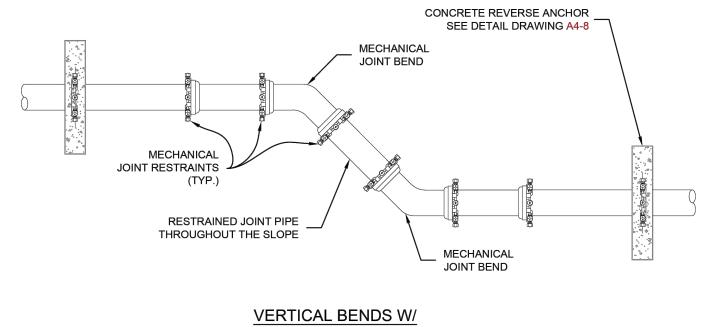






HORIZONTAL BENDS W/MJ RESTRAINTS AND CTRB

HORIZONTAL BENDS W/MJ RESTRAINTS WITHOUT CTRB

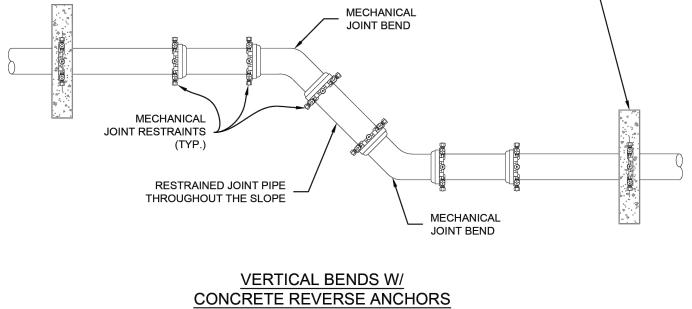


ON SLOPES 10% OR GREATER

CONCRETE THRUST REACTION BLOCK REQUIREMENTS FOR TEES OR TAPS

WATER MAIN SIZE (INCHES)

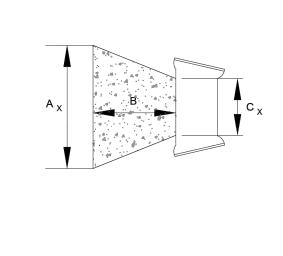


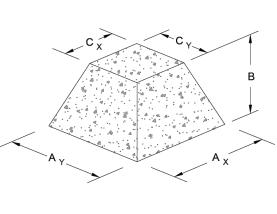


BEND CONFIGURATIONS AND RESTRAINTS

THRUST BLOCK DIMENSIONS and VOLUMES - PVC & DIP 250 psi FITTING 4 11.25° BEND 4 45° BEND 4 TEE & DEAD END 4.75 2.18 2.18 0.67 0.33 2.00 6 22.5° BEND 3.75 1.94 1.94 0.38 0.50 2.00 9.50 8 11.25° BEND 8 45° BEND 12.50 3.57 3.50 0.67 0.67 2.00 8 TEE & DEAD END 16.25 4.64 3.50 1.08 0.67 2.00 THRUST BLOCK DIMENSIONS and VOLUMES - PVC (Maximum Static Pressure = 170 psi) TYPE OF MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM APPROXIMATE FITTING SURFACE AREA $A_{\chi}(ft)$ $A_{\chi}(ft)$ $C_{\chi}(ft)$ $C_{\chi}(ft)$ $A_{\chi}(ft)$ $A_{\chi}(f$ 12 11.25° BEND 2.18 2.18 0.43 1.00 2.00 4.75 3.04 3.04 0.64 1.00 2.00 12 45° BEND 18.00 4.92 3.66 1.00 1.00 2.00 16 22.5° BEND 16 45° BEND 40.50 10.80 3.75 1.92 1.33 4.44 THRUST BLOCK DIMENSIONS and VOLUMES - DIP (Maximum Static Pressure = 250 psi) BEARING MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM APPRO FITTING SURFACE AREA A (ft) A (ft) C (ft) C (ft) B (ft) VOLU 16 11.25° BEND 11.75 3.43 3.43 0.44 1.33 2.00 16 45° BEND 12.13 3.75 1.00 1.33 5.57

TYPICAL RESTRAINED JOINT PIPE DEVICES





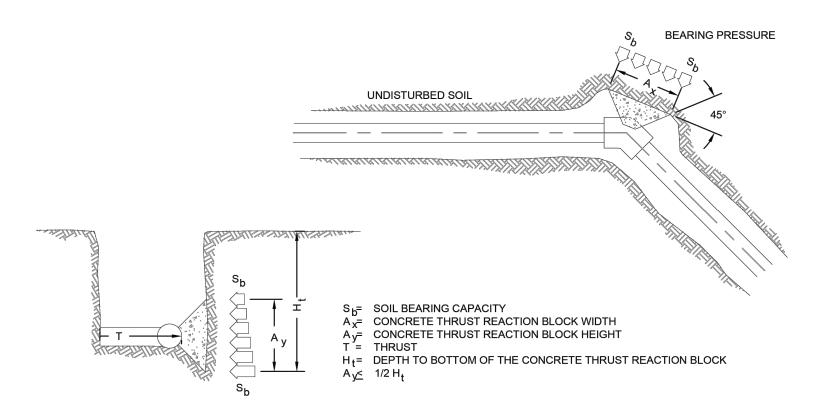
0.50	В
0.75	
1.75	
3.00	
	Ax
ROXIMATE .UME (yd³)	
0.50	
0.50	
1.50	
2.25	
0.50	
1.00	
	1

1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FEET. REFERENCE AWWA M-23 AND M-41.

- 2. THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS THE DESIGN ENGINEER SHALL PROVIDE A SITE SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWWA M-41, DUCTILE-IRON PIPE AND FITTINGS. SITE SPECIFIC DESIGNS INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITTED TO COLORADO SPRINGS UTILITIES FOR 3. THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST
- IS ROUNDED UP TO THE NEAREST 0.25 CUBIC YARDS. 5. THESE CHARTS MAY ONLY BE USED IF THE BLOCK HEIGHT (Ay) IS EQUAL TO OR LESS THAN ONE HALF THE TOTAL DEPTH (Ht) FROM THE FINISHED GRADE TO THE BOTTOM OF THE BLOCK. THE MINIMUM DIMENSIONS SHOWN ARE BASED ON A PIPE DEPTH OF 5 FEET. SEE DETAIL DRAWING A4-3. 6. A SITE SPECIFIC DESIGN SHALL BE REQUIRED FOR PIPES LARGER THAN 16 INCHES OR MAX STATIC PIPE PRESSURES GREATER THAN 250 POUNDS PER SQUARE

4. THE APPROXIMATE VOLUMES SHOWN ARE BASED ON THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME

- INCH. THE DESIGN ENGINEER HAS THE OPTION OF PROVIDING A SITE SPECIFIC DESIGN FOR PIPES SMALLER THAN 16 INCHES OR MAX STATIC PRESSURES LESS
- THAN 250 POUNDS PER SQUARE INCH. 7. ALL CALCULATIONS SHALL BE PROVIDED TO COLORADO SPRINGS UTILITIES FOR REVIEW.



INDICATES THAT A CONCRETE THRUST REACTION BLOCK IS REQUIRED

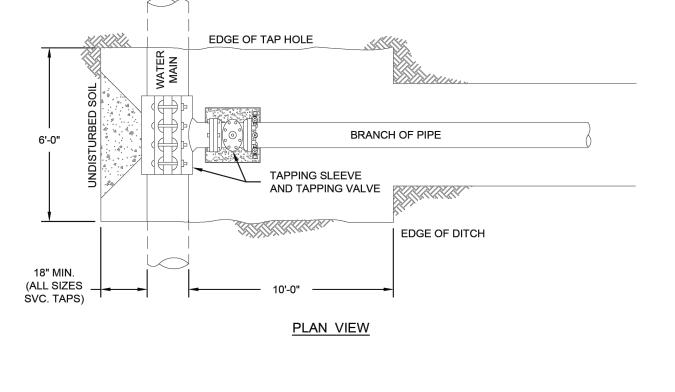
- A SITE SPECIFIC DESIGN SHALL BE REQUIRED FOR CONNECTIONS OR FITTING SIZE COMBINATIONS NOT SHOWN ABOVE. THE CONCRETE THRUST REACTION BLOCK SHALL BEAR AGAINST UNDISTURBED SOIL.
- 3. THE CONCRETE THRUST REACTION BLOCK SHALL BE INSTALLED WITH A 45° ANGLE FROM THE FITTING TO THE UNDISTURBED SOIL AS SHOWN IN THE DRAWING ABOVE.
- 4. REFER TO DETAIL DRAWING A4-2 FOR STANDARD CONCRETE THRUST REACTION BLOCK DIMENSIONS AND VOLUMES. 5. DUCTILE IRON FITTINGS AND PIPE SHALL BE WRAPPED IN POLYETHYLENE TUBING WHERE ADJACENT TO CONCRETE.

CONCRETE THRUST REACTION BLOCK DETAIL

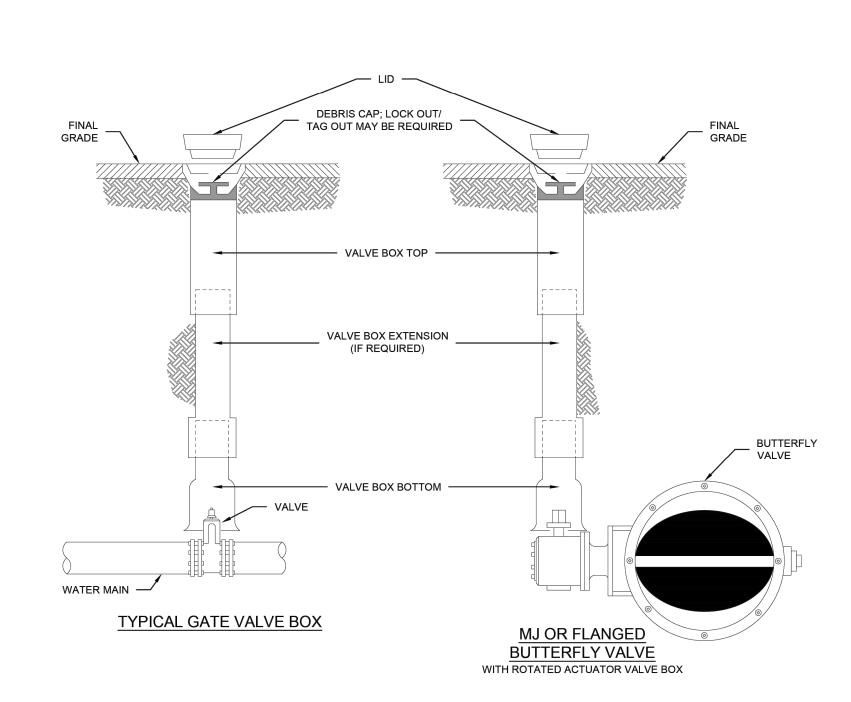
59.50 15.87 3.75 1.92 1.33 6.98

BLOCKS. CONCRETE MIX SHALL BE PER MATERIAL CHAPTER 4.

16 TEE & DEAD END



TAPPING SLEEVE DETAIL



- MAIN AND FIRE HYDRANT VALVES AND VALVE BOXES SHALL NOT BE IN THE CURB PAN, CURB OR SIDEWALK.
- VALVE BOXES SHALL BE SLIP TYPE, PER CHAPTER 4. DEBRIS CAPS SHALL BE INSTALLED AS CLOSE UNDER THE CAST IRON COVER WITHOUT INTERFERING WITH COVER OPERATIONS.
- DEBRIS CAPS WITH FLEXIBLE SKIRTS SHALL BE TRIMMED TO PROVIDE A SMOOTH CONTACT WITH THE INTERIOR OF THE VALVE BOX. FOR SERVICE LINES 4" AND GREATER, TRACER WIRE WILL BE BROUGHT UP IN THE SECONDARY VALVE BOX.

GATE VALVE AND BOX



223 WILLOW STREET FORT COLLINS, COLORADO 80524 (970) 484-7477 / info@f-w.com

www.f-w.com Engineers | Architects | Surveyors | Scientists

DATE: DESCRIPTION:

Project Status FOR CONSTRUCTION

PIKES PEAK LIBRARY DISTRICT

WATERMAIN REROUTE

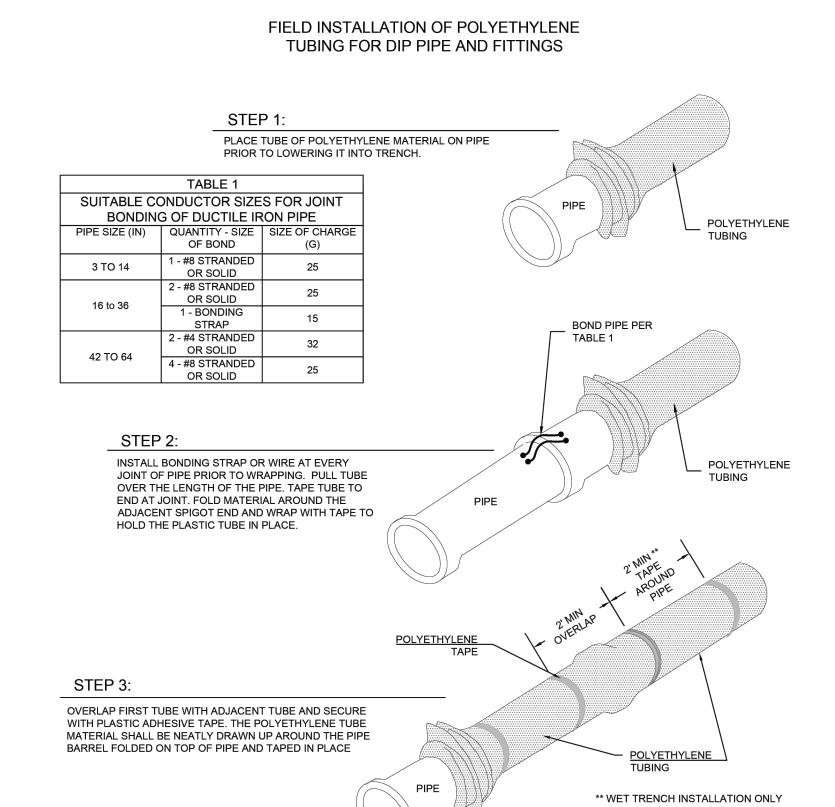
1175 CHAPEL HILLS DR

DATE:	7/26/2024
DESIGNED:	TRE
DRAWN:	ACS
REVIEWED:	TRE
FIELD BOOK NO.:	

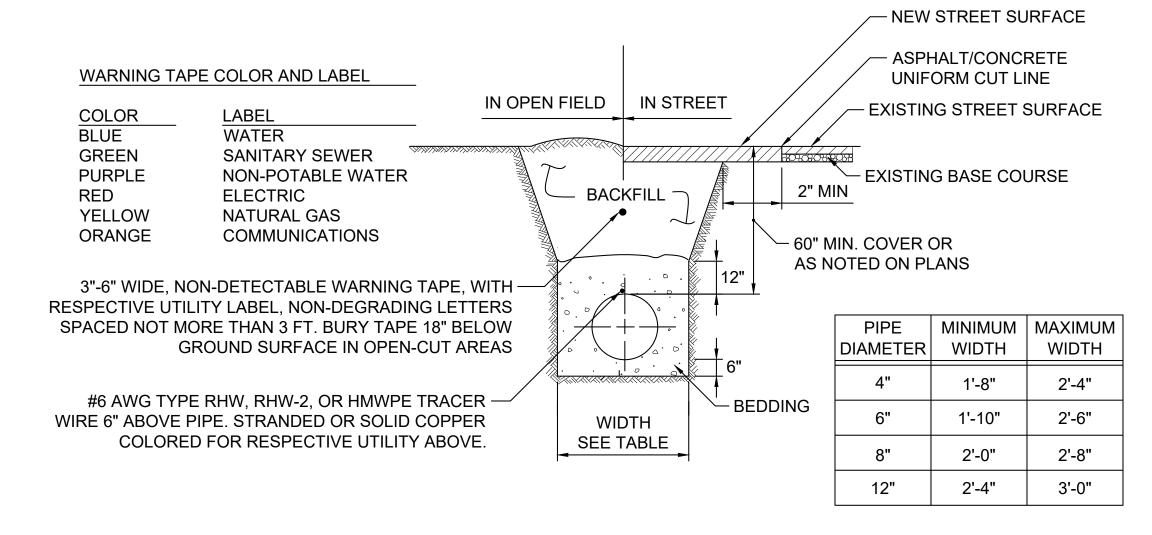
SHEET NUMBER:

WATER DETAILS

PROJECT NO.



1. ANY TEARS OR HOLES SHALL BE REPAIRED WITH POLYETHYLENE TUBING AND TAPE. 2. WHEN WORKING AROUND EXISTING POLY WRAPPED PIPE, ANY TEARS AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED.



NOTES:

- 1. TRENCH TO BE BRACED OR SHEETED AS REQUIRED BY OSHA.
- 2. THE CONTRACTOR SHALL CUT BACK THE ASPHALT TO THE EDGE OF CONCRETE IN THOSE AREAS WHERE THE TRENCH IS WITHIN 3 FEET OF THE EDGE OF THE GUTTER.
- 3. THE SUBGRADE, PIPE BEDDING MATERIAL AND BACKFILL SHALL BE STABILIZED AND COMPACTED AS REQUIRED IN THE PROJECT SPECIFICATIONS.
- 4. DETAIL IS FOR OPEN-CUT TRENCHES ONLY.

TRENCH DETAIL

Scale: NOT TO SCALE



223 WILLOW STREET FORT COLLINS, COLORADO 80524 (970) 484-7477 / info@f-w.com

> www.f-w.com Engineers | Architects | Surveyors | Scientists

DATE: DESCRIPTION:



PIKES PEAK LIBRARY DISTRICT

WATERMAIN REROUTE

1175 CHAPEL HILLS DR

DATE:	7/26/2024
——————————————————————————————————————	7720/2024
DESIGNED:	TRB
DRAWN:	ACS
REVIEWED:	TRB
FIELD BOOK NO.:	

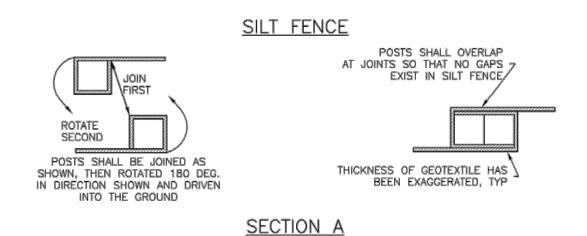
WATER DETAILS

PROJECT NO.:

0241083

3. WHEN WORKING AROUND EXISTING BONDED PIPE, ANY BROKEN BONDS AS A RESULT OF CONSTRUCTION, SHALL BE REPAIRED. **POLYTHYLENE TUBING DETAIL**

NON-WOVEN GEOTEXTILE



SF-1. SILT FENCE

SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE

TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE

A UNIFORM 6" x 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO

COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT

SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG

. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS.

6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE

SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10'-20').

FOLLOWING A STORM THAT CAUSES SURFACES EROSION, AND PERFORM NECESSARY MAINTENANCE.

CONTOUR TO CREATE A "J-HOOK". THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF

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)

FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION.

SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE

. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL

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

FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".

REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.

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

CONSTRUCTION FENCE INSTALLATION NOTES

SILT FENCE MAINTENANCE NOTES

SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.

ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.

SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.

STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.

INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.

Y. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.

SF-3

COMPACTED SUBGRADE -

LOCATION OF CONSTRUCTION ENTRANCE(S) / EXIT(S)

- TYPE OF CONSTRUCTION ENTRANCE(S) / EXIT(S) (WITH / WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
- VEHICULAR ACCESS.
- ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
- #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

- 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
- OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED

WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

SILT FENCE DETAIL

AGGREGATE VEHICLE TRACKING CONTROL

(WIDTH CAN BE LESS IF CONST. VEHICLES ARE PHYSICALLY CONFINED ON BOTH SIDES) SIDEWALK OR OTHER 50 FOOT (MIN.) PAVED SURFACE UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, USE - CDOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" NON-WOVEN GEOTEXTILE FABRIC BETWEEN SOIL AND ROCK UNLESS OTHERWISE SPECIFIED BY LOCAL INSTALL ROCK FLUSH WITH JURISDICTION, USE COOT SECT. #703, AASHTO OR BELOW TOP OF PAVEMENT #3 COARSE AGGREGATE OR 6" MINUS ROCK

Vehicle Tracking Control (VTC)

VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

November 2010 Urban Drainage and Flood Control District VTC-3

Urban Storm Drainage Criteria Manual Volume 3

- 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
- 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
- 6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO

STABILIZED CONSTRUCTION ENTRANCE / EXIT MAINTENANCE NOTES

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE

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

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.

Farnsworth

223 WILLOW STREET FORT COLLINS, COLORADO 80524 (970) 484-7477 / info@f-w.com

www.f-w.com Engineers | Architects | Surveyors | Scientists

DATE: DESCRIPTION:

PIKES PEAK LIBRARY DISTRICT

WATERMAIN REROUTE

1175 CHAPEL HILLS DR

DATE: 7/26/2024 DESIGNED: TRB DRAWN: TRB REVIEWED: FIELD BOOK NO.:

| EROSION CONTROL DETAILS

PROJECT NO .:

0241083