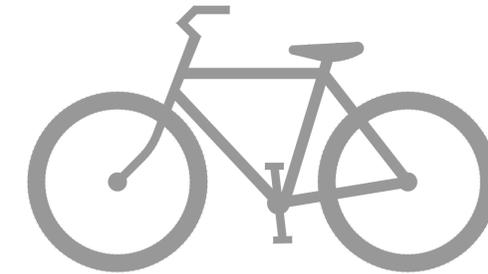


STATE OF COLORADO
DEPARTMENT OF TRANSPORTATION
CITY OF COLORADO SPRINGS
Parks, Recreation and Cultural Services Department
CAPITAL IMPROVEMENT PROJECT
TRAIL IMPROVEMENT PROGRAM
COMBINED FEDERAL AID PROJECT No. TAP M240-162, SubAccT. No.20391
STREET IMPROVEMENTS
PLAN of the ROCK ISLAND MULTI-USE TRAIL
SAND CREEK TO CONSTITUTION AVENUE
COLORADO SPRINGS & EL PASO COUNTY, COLORADO



22 NOVEMBER 2024

SHEET INDEX

| | |
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| C001 | SUMMARY OF QUANTITIES |
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| C114 | ROCK ISLAND STA 82+00 TO STA 87+50 |
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| C200 | PEDESTRIAN BRIDGE GENERAL INFORMATION |
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| C202 | PEDESTRIAN BRIDGE HYDRAULICS |
| C203 | PEDESTRIAN BRIDGE LAYOUT AND GRADING PLAN |
| C204 | PEDESTRIAN BRIDGE SECTION |
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| C501 | TYPICAL STANDARD DETAILS |
| C502 | TYPICAL MISCELLANEOUS DETAILS |
| C503 | TYPICAL HANDRAIL AND FENCE DETAILS |
| C504 | SITE SPECIFIC DETAILS |
| C511 | SIGNAGE & STRIPING PLAN - PETERSON ROAD |

APPROVAL SIGNATURES

| TITLE | NAME | SIGNATURE | DATE |
|---|---------------------|-----------|----------|
| DIRECTOR, PARKS, REC. & CULT. SVS PARKS OPERATION & DEVELOPMENT MANAGER CITY FORESTER | BRITT HALEY | | |
| REG. SUPERVISOR, PARKS, TRAILS & OPEN SPACE | SCOTT ABBOTT | | 11/15/24 |
| CONSTRUCTION PROJECT MANAGER | EMILY DUNCAN | | |
| COLORADO DEPARTMENT OF TRANSPORTATION | | | |
| EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS | JENNIFER IRVINE, PE | | |

TRAIL DATA DESIGN

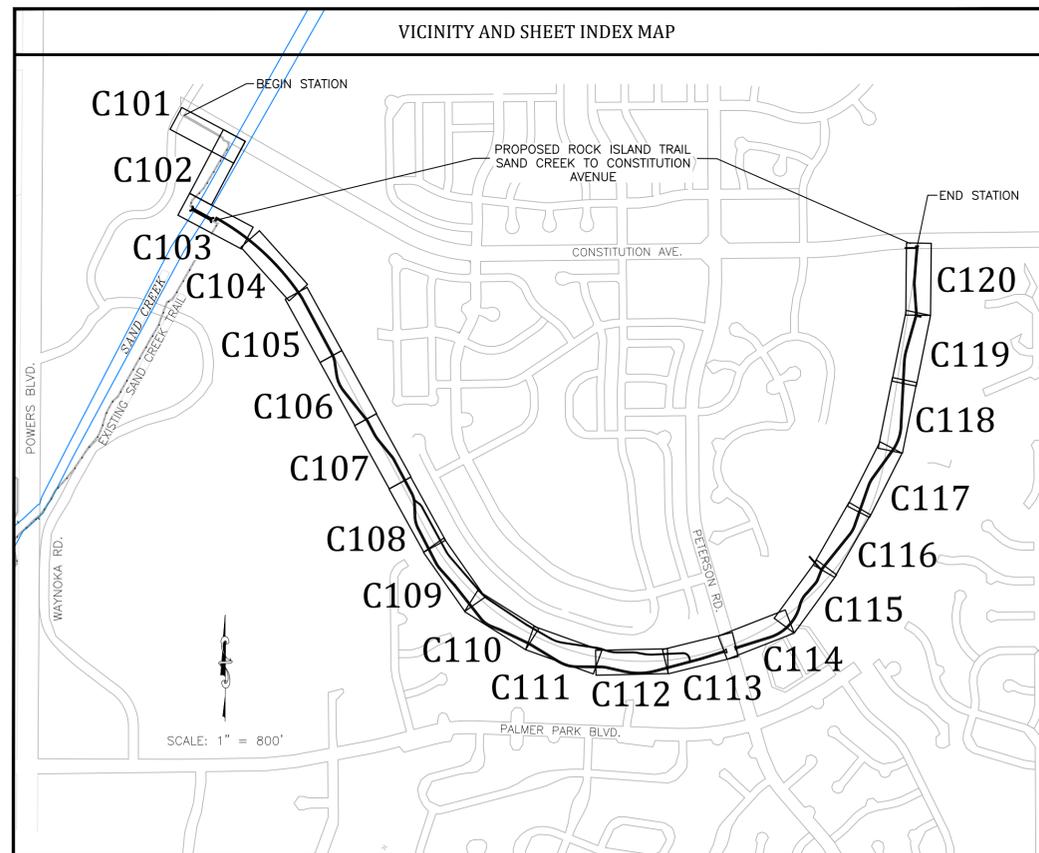
| | |
|--|------------|
| BEGIN STATION ROCK ISLAND TRAIL | 8+18 |
| END STATION ROCK ISLAND TRAIL | 117+25 |
| MAXIMUM GRADE | 8.33% |
| MINIMUM HORIZONTAL CURVE | 25' |
| MINIMUM WIDTH 8' | 8' |
| TYPICAL WIDTH | 10' |
| CROSS-SLOPE | 2% |
| LENGTH ROCK ISLAND TRAIL | 10,907 LF |
| AREA OF DISTURBANCE | 18.2 ACRES |
| CONSTRUCTION AREA | 22.8 ACRES |
| ANTICIPATED START | 01/01/2025 |
| ANTICIPATED CONSTRUCTION END | 10/01/2025 |
| ANTICIPATED STABILIZATION | 10/01/2025 |
| RECEIVING WATER | SAND CREEK |
| SITE IS NATIVE GRASS AND WILL REMAIN NATIVE GRASS. | |
| BENCHMARK: FIMS MONUMENT SR10 IS A 2-INCH DIAMETER ALUMINUM CAP STAMPED "CSU FIMS CONTROL SR10" ON TOP OF THE NORTH CURB OF CONSTITUTION AVENUE AT THE NORTHWEST CORNER OF THE BRIDGE OVER SAND CREEK. | |

*A.G.A./A.P.W.A. STANDARD UTILITY MARKING COLOR CODE

| | |
|-------------|--------|
| NATURAL GAS | YELLOW |
| ELECTRIC | RED |
| WATER | BLUE |
| WASTEWATER | GREEN |



Know what's below.
Call before you dig.



STATEMENTS

Engineer's Statement:

This Street Improvement Plan was prepared under my direction and supervision and is correct to the best of my knowledge and belief. Said Plan has been prepared according to the criteria established by the County for Street Improvement Plans. I accept responsibility for any liability caused by any negligent acts or omissions on my part in preparing this Plan.

Engineer of Record signature: Date: _____

Owner's Statement:

I, the owner/developer have read and will comply with the requirements of this Street Improvement Plan.

Signature: Date: 11/15/24

El Paso County:

County Plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/or elevations which shall be confirmed at the job site. The County through the approval of this document assumes no responsibility for completeness and/or accuracy of this document.

Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual Volumes 1 and 2, and Engineering Criteria Manual as amended.

In accordance with ECM Section 1.12, these construction documents will be valid for construction for a period of 2 years from the date signed by the El Paso County Engineer. If construction has not started within those 2 years, the Plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Director's discretion.

County Engineer/ECM Administrator: _____ Date: 5/15/2024



For and on Behalf of
Kiowa Engineering Corporation Date



1604 South 21st Street
Colorado Springs, Colorado 80904
(719) 630-7342



Sheet Revisions

IFC

No Revisions:

Revised:

Void:

ROCK ISLAND TRAIL
Sand Creek to Constitution Avenue
COVER SHEET

Designer: TAC
Detailer: JDC/TEG
Date: 05/08/2025

Kiowa Proj. No. 16028

TAP M240-162

SubAccT No. 20391

Sheet Number C000

| SUMMARY OF APPROXIMATE QUANTITIES | | | |
|-----------------------------------|--|----------------|-------|
| CONTRACT ITEM NO. | CONTRACT ITEM | PROJECT TOTALS | |
| | | Quantity | Units |
| 1.1 | Construction staking | 1 | EA |
| 1.2 | Construction zone traffic control signs 30" x 30" | 1 | LS |
| 1.3 | Mobilization | 1 | EA |
| 2.1 | Concrete wash out area | 2 | EA |
| 2.2 | Erosion Control Blanket (ECB) | 18,068 | SF |
| 2.3 | Sanitary facility | 2 | EA |
| 2.4 | Seeding & Mulching | 40,279 | SY |
| 2.5 | Silt Fencing | 13,451 | LF |
| 2.6 | Stabilized staging area | 1 | EA |
| 2.7 | Storm Drain/Inlet protection | 2 | EA |
| 2.8 | Vehicle tracking control | 3 | EA |
| 3.1 | Clearing and grubbing (Includes trees less than 10" DBH) | 18.2 | AC |
| 3.2 | Remove and dispose concrete curb and gutter | 54 | LF |
| 3.4 | Remove all concrete rubble located near sta 39+50 | 1 | LS |
| 3.5 | Remove and dispose concrete sidewalk | 144 | SF |
| 3.6 | Remove and dispose trees (Includes trees 10" DBH or greater) | 12 | EA |
| 3.7 | Remove east concrete bridge abutment | 1 | EA |
| 3.3 | Remove west concrete bridge abutment | 1 | LS |
| 4.1 | Topsoil | 950 | CY |
| 4.2 | Excavation - cut to fill on site | 2,000 | CY |
| 4.3 | Scarify, rake and revegetate existing trails, 5-foot avg width | 9,742 | LF |
| 5.1 | Trail Section A - Concrete - 12' wide | 9,518 | LF |
| 5.2 | Trail Section B - Concrete - 10' wide attached | 300 | LF |
| 5.3 | Trail Section C - Concrete - 10' wide detached | 619 | LF |
| 5.4 | Trail Section D - Concrete - 8' wide | 114 | LF |
| 5.5 | Trail Section E - Concrete - 6' wide | 140 | LF |
| 5.6 | Trail Section F - Breeze - 6' wide | 2,675 | LF |
| 6.1 | Aggregate base course, Class 6 | 4,636 | CY |
| 6.2 | Smooth rail fence | 7,876 | LF |
| 6.3 | Removable locking steel posts | 3 | EA |
| 7.1 | Concrete - curb and gutter - COS Type 1 | 30 | LF |
| 7.2 | Concrete - curb and gutter - COS Type 3 | 176 | LF |
| 7.3 | Concrete - patterned - 4-inch thick | 652 | SF |
| 7.4 | Concrete - pedestrian ramp - COS standard | 4 | EA |
| 7.5 | Concrete - refuge island - 6-inch thick | 144 | SF |
| 7.6 | Hot Mix Asphalt Pavement - 6-inch thick | 65 | SY |
| 7.7 | Inlet - CDoT std. Type C | 1 | EA |
| 8.1 | Bridge - 210' x 12' (inside) | 1 | EA |
| 8.2 | MSE retaining wall | 390 | SF |
| 9.1 | flared end section - HDPE - 18-inch | 2 | EA |
| 9.2 | Pipe - HDPE - 18-inch | 67 | LF |
| 9.3 | riprap - Type L 18-inch | 88 | CY |
| 10.1 | pavement markings - Epoxy coated - 12'x18" Ped xing | 6 | EA |
| 10.2 | pavement markings - Epoxy coated - stripe - 4" yellow dbl | 28 | LF |
| 10.3 | pavement markings - Epoxy coated - stripe - 4" yellow "island warning" | 71 | LF |
| 11.1 | Signage - Traffic - R1-6 "Yield to Pedestrians", 12" x 36" | 2 | EA |
| 11.2 | Signage - Traffic - R4-7 "Keep Right", 24" x 30" | 2 | EA |
| 11.3 | Signage - Traffic - W11-1 "Trail Crossing Ahead", 30" x 30" | 2 | EA |
| 11.4 | Signage - Traffic - W11A-2 "Pedestrian Crossing", 24" x 24" | 2 | EA |
| 11.5 | Signage - Traffic - W16-7P Arrow, 12" x 18" | 2 | EA |
| 11.6 | Signage - Trail - "Riders Dismount", 12" x 18" | 2 | EA |
| 11.7 | Signage - Trail - "Stop Ahead", 12" x 18" | 2 | EA |

| SWENT STANDARD GRADING AND EROSION CONTROL PLAN NOTES | |
|--|--|
| 1. | No clearing, grading, excavation, or other land disturbing activities shall be allowed (except for work directly related to the installation of Initial Control Measures) until a City GEC Permit has been issued. |
| 2. | All land disturbing activities must be performed in accordance with and the approved GEC Plan and CSWMP. |
| 3. | Initial Control Measures shall be installed and inspected prior to any land disturbance activities taking place. An initial site inspection will not be scheduled until a City GEC Permit has been "conditionally approved." Call City Stormwater Inspections, 385-5980, at least 48 hours prior to construction to schedule an initial inspection and obtain full permit approval. |
| 4. | Individuals shall comply with the "Colorado Water Quality Control Act" (Title 25, Article 8, CRS) and the "Clean Water Act" (33 USC 1344), including regulations promulgated and certifications or permits issued, in addition to the requirements included in the City's MS4 Permit, Stormwater Construction Manual. In the event of conflicts between these requirements and water quality control laws, rules, or regulations of other Federal or State agencies, the more restrictive laws, rules, or regulations shall apply. |
| 5. | Stormwater discharges from construction sites shall not cause or threaten to cause pollution, contamination, or degradation of State Waters. |
| 6. | All Construction Control Measures shall be maintained until permanent stabilization measures are implemented. Temporary Construction Control Measures must be removed prior to permit closeout. |
| 7. | Concrete wash water shall not be discharged to or allowed to runoff to State Waters or any surface or subsurface storm drainage system or facilities. |
| 8. | Building construction, excavation, or other waste materials shall not be temporarily placed or stored in the street, alley, or other public way, unless in accordance with an approved Traffic Control Plan. Construction Control Measures may be required by the GEC Inspector if deemed necessary based on specific conditions and circumstances (e.g., estimated time of exposure, season of the year, etc.). |
| 9. | All wastes composed of building materials must be removed from the construction site for disposal in accordance with local and state regulatory requirements. No building material wastes or unused building materials shall be buried, dumped, or discharged at the site. |
| 10. | The permittee shall be responsible for the removal of all construction debris, dirt, trash, rock, sediment, and sand that may accumulate in the storm sewer or other drainage conveyance system as a result of construction activities. |
| 11. | The quantity of materials stored on the project site shall be limited, as much as practical, to that quantity required to perform the work in an orderly sequence. All materials stored on-site shall be stored in a neat, orderly manner, in their original containers, with original manufacturer's labels. Materials shall not be stored in a location where they may be carried by stormwater runoff into the storm sewer system at any time. |
| 12. | Spill prevention and containment measures shall be used at all storage, equipment fueling, and equipment servicing areas so as to contain all spills and prevent any spilled material from entering the MS4, including any surface or subsurface storm drainage system or facility. Bulk storage structures for petroleum products and other chemicals shall have secondary containment or equivalent adequate protection. All spills shall be cleaned up immediately after discovery, or contained until appropriate cleanup methods can be employed. Manufacturer's recommended methods for spill cleanup shall be followed, along with proper disposal methods. |
| 13. | Sediment (mud and dirt) transported onto a public road, regardless of the size of the site, shall be cleaned as soon as possible after discovery. |
| 14. | No chemicals are to be added to the discharge unless permission for the use of a specific chemical is granted by the State. In granting the use of such chemicals, special conditions and monitoring may be required. |
| 15. | Control Measures for all slopes, channels, ditches, or any disturbed land area shall be completed within fourteen (14) calendar days after final grading or final land disturbance has been completed. Disturbed areas which are not at final grade but will remain dormant for longer than fourteen (14) days shall be roughened, mulched, tackified, or stabilized with tarps within fourteen (14) days after interim grading. An area that is going to remain in an interim state for more than sixty (60) days shall also be seeded, unless an alternative stabilization measure is accepted at the inspector's discretion. All temporary Construction Control Measures shall be maintained until final stabilization is achieved. |
| 16. | The GEC Plan will be subject to re-review and re-acceptance by the Stormwater Enterprise should any of the following occur: grading does not commence within twelve (12) months of the City's acceptance of the plan, the construction site is idle for twelve (12) consecutive months, a change in property ownership occurs, the planned development changes, or any other major modifications are proposed as defined in the Stormwater Construction Manual. |
| 17. | It is not permissible for any person to modify the grade of the earth on any utility easement or utility right-of-way without written approval from the utility owner. City acceptance of the GEC Plan and CSWMP does not satisfy this requirement. The plan shall not increase or divert water towards utility facilities. Any changes to existing utility facilities to accommodate the plan must be approved by the affected utility owner prior to implementing the plan. The cost to relocate or protect existing utilities or to provide interim access shall be at the applicant's expense. |
| 18. | Applicant represents and warrants that they have the legal authority to grade and/or construct improvements on adjacent property. The City has not reviewed the developer's authority to modify adjacent property. An approved GEC Permit does not provide approval for the Applicant to perform work on adjacent property. |

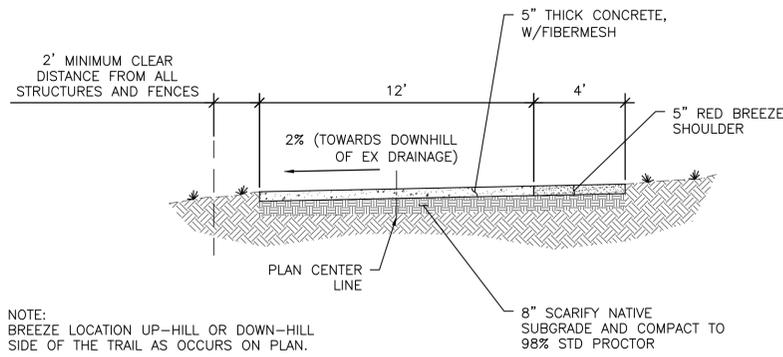
| KIOWA GENERAL NOTES | |
|---------------------|--|
| 1. | All materials and workmanship shall be in conformance with the latest version of Colorado Department of Transportation (CDOT) standard specifications for road and bridge construction and supplemented with the City of Colorado Springs standard specifications. |
| 2. | The contractor shall notify the owner (city) and engineer of any problem in conforming to the approved plans for any element of the proposed improvements prior to its construction. |
| 3. | The contractor shall protect all existing facilities in the general area of construction. The contractor shall repair any damage caused by construction operations at no cost to the project. |
| 4. | Utility lines as shown on these drawings are plotted from the best available information. The contractor shall call 811 for utility locations at least two working days prior to any digging. The contractor shall determine the exact location of all utilities prior to construction and shall protect them from damage during construction. |
| 5. | Surveying for this project shall be conducted in accordance with CDOT standards. |
| 6. | Benchmark: firms monument SR10 is a 2-inch diameter aluminum cap stamped "CSU FIMS control SR10" on top of the north curb of constitution avenue at the northwest corner of the bridge over sand creek. |
| 7. | All existing manholes to be marked with t-posts and caution tape prior to commencing with the construction. |
| 8. | water shall be used as a dust palliative where required. Locations shall be as directed by the engineer. Water will not be paid for separately, but will be subsidiary to the excavation item. |
| 9. | All removed asphalt will become the property of the contractor and will be disposed of outside project limits. |
| 10. | The soil to be placed as topsoil material shall be free of refuse, stumps, roots, rocks, brush, weeds, hard clods, toxic substances or other material which would be detrimental to its use on the project. It shall have a minimum p.l. Of 5 but shall not be such heavy clay as to preclude placement with a shoulder machine. |
| 11. | Salvageable material: material that can be saved or salvaged. Unless otherwise specified in the contract, all salvageable material shall become the property of the contractor. |
| 12. | Topographic data indicated on these drawings was compiled from field surveys. Contractor must verify extent of work within these areas. Dimensions, elevations, and locations of existing structures, pipelines, and utilities are approximate. Where such dimensions or locations determine the limits of the work, such dimensions or locations shall be verified in the field prior to construction. |
| 13. | The locations of existing structures, pipelines, utilities, etc., shown on the drawings have been approximated. There may be other structures, pipelines, utilities, etc., not shown on the drawings which presently exist in the area of construction. The engineer and/or owner assumes no responsibility for the accuracy or completeness of the information shown. The contractor will be responsible for locating and protecting all impacted existing structures, pipelines, utilities, etc., in the project site. |
| 14. | The contractor shall carefully preserve all monuments, benchmarks, property markers, reference points, and stakes. In case of his destruction of these, the contractor will be responsible for resetting same, at no cost to the owner, and shall be responsible for any loss of time that may be caused. |
| 15. | The contractor shall notify the engineer where utilities conflict with the work in conformance with the specifications. Where field verification is noted noted on the plans, this shall require the contractor to determine the location of the facility in question prior to construction. A determination shall be made by the contractor if the current design will conflict with the existing facility and notify the engineer in writing. |
| 16. | All existing areas disturbed outside the limits of construction activities shall be re-vegetated in conformance with the specifications at no additional cost to the project. All existing roadways and sidewalks damaged during construction shall be repaired or reconstructed in conformance with the specifications. |
| 17. | Signage shall follow the "manual on uniform traffic control devices" latest edition and the city of Colorado Springs traffic engineering signage & pavement marking standards. Contractor shall submit to the county a traffic control plan prior to commencing with the work. |
| 18. | Contractor shall establish trail corridor with stakes. The owner will then mark all trees to be saved in a walkthrough of the trail corridor with the contractor. |
| 19. | All discharges to drainage courses and storm sewer systems must comply with the applicable provisions of the Colorado water quality control act and the Colorado discharge permit regulations, and are subject to inspection by El Paso county and CDPHE. El Paso has a ms-4 permit. Contractor shall devise and implement a permanent plan for periodic removal and disposal of sediment from erosion control facilities and for maintenance of erosion control facilities. |
| 20. | The contractor shall obtain construction stormwater discharge permit from CDPHE. |



| Sheet Revisions | IFC |
|-----------------|---------------|
| | No Revisions: |
| | Revised: |
| | Void: |

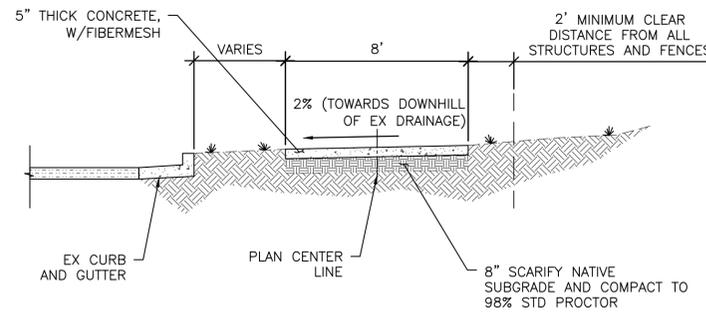
| ROCK ISLAND TRAIL Sand Creek to Constitution Avenue SUMMARY OF QUANTITIES | |
|---|------------|
| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

| |
|-----------------------|
| Kiowa Proj. No. 16028 |
| TAP M240-162 |
| SubAcct No. 20391 |
| Sheet Number C001 |

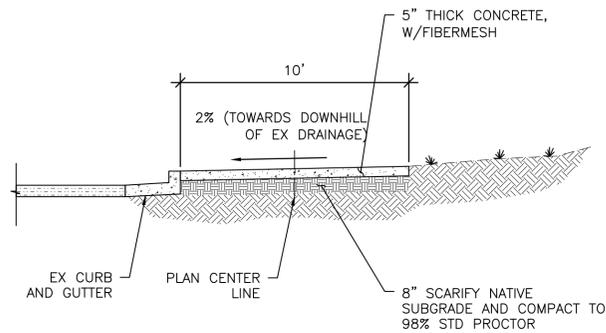


NOTE:
BREEZE LOCATION UP-HILL OR DOWN-HILL
SIDE OF THE TRAIL AS OCCURS ON PLAN.

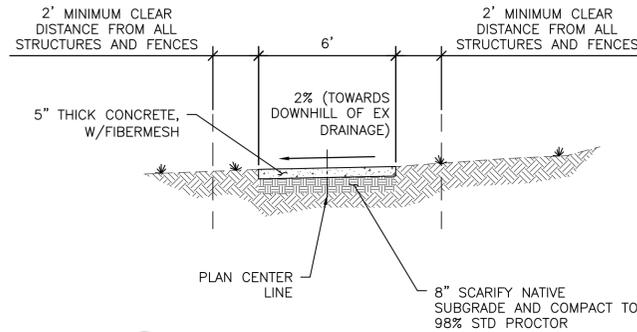
A TRAIL SECTION A - 12' CONCRETE TRAIL
C002 Scale: 1" = 4'



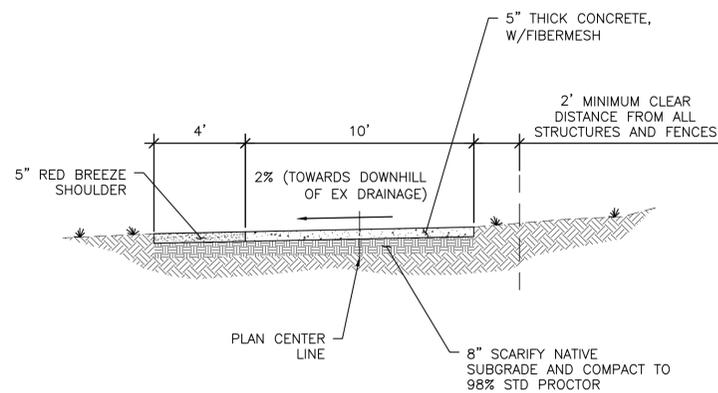
D TRAIL SECTION D - 8' CONCRETE TRAIL DETACHED
C002 Scale: 1" = 4'



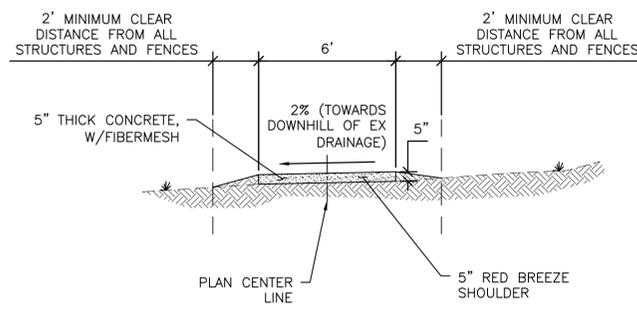
B TRAIL SECTION B - 10' CONCRETE TRAIL
C002 Scale: 1" = 4'



E TRAIL SECTION E - 6' CONCRETE TRAIL
C002 Scale: 1" = 4'



C TRAIL SECTION C - 10' CONCRETE TRAIL DETACHED
C002 Scale: 1" = 4'



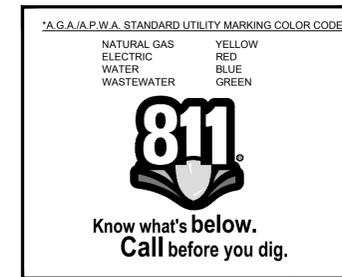
F TRAIL SECTION F - 6' BREEZE TRAIL
C002 Scale: 1" = 4'

KNOWN UTILITIES WITHIN PROJECT LIMITS

- CONTRACTOR MUST VERIFY ALL UTILITIES PRIOR TO EXCAVATION
1. COLORADO SPRINGS UTILITIES: ELECTRIC & GAS DIVISIONS
 2. CENTURY LINK
 3. LEVEL 3 COMMUNICATIONS
 4. CIMARRON WATER AND SANITATION DISTRICT
 5. CHEROKEE METRO DISTRICT

PRE-EXCAVATION CHECKLIST

- GAS AND OTHER UTILITY LINES OF RECORD SHOWN ON PLANS.
- UTILITIES CENTRAL LOCATING CALLED AT LEAST 2 BUSINESS DAYS AHEAD. (811)
- UTILITIES LOCATED AND MARKED.
- EMPLOYEES BRIEFED ON MARKING AND COLOR CODES.*
- EMPLOYEES TRAINED ON EXCAVATION AND SAFETY PROCEDURES FOR NATURAL GAS LINES.
- WHEN EXCAVATION APPROACHES GAS LINES, EMPLOYEES EXPOSE LINES BY CAREFUL PROBING AND HAND DIGGING.



LEGEND

- BOLLARD
- x — x — FENCE
- — — — — GUARDRAIL
- — — — — SIGN
- — — — — ELECTRIC POWER POLE
- E — — — — — ELECTRIC LINE
- [E] — — — — — ELECTRIC VAULT
- G — — — — — GAS MAIN
- GvO — — — — — GAS VENT
- — — — — SANITARY SEWER MAIN
- [O] — — — — — SANITARY SEWER MANHOLE
- — — — — TELEPHONE MAIN
- [O] — — — — — TELEPHONE MANHOLE
- [T] — — — — — TELEPHONE RISER
- — — — — WATER MAIN
- [V] — — — — — WATER VALVE



Kiowa
Engineering Corporation
1604 South 21st Street
Colorado Springs, Colorado 80904
(719) 630-7342



Sheet Revisions

IFC

No Revisions:

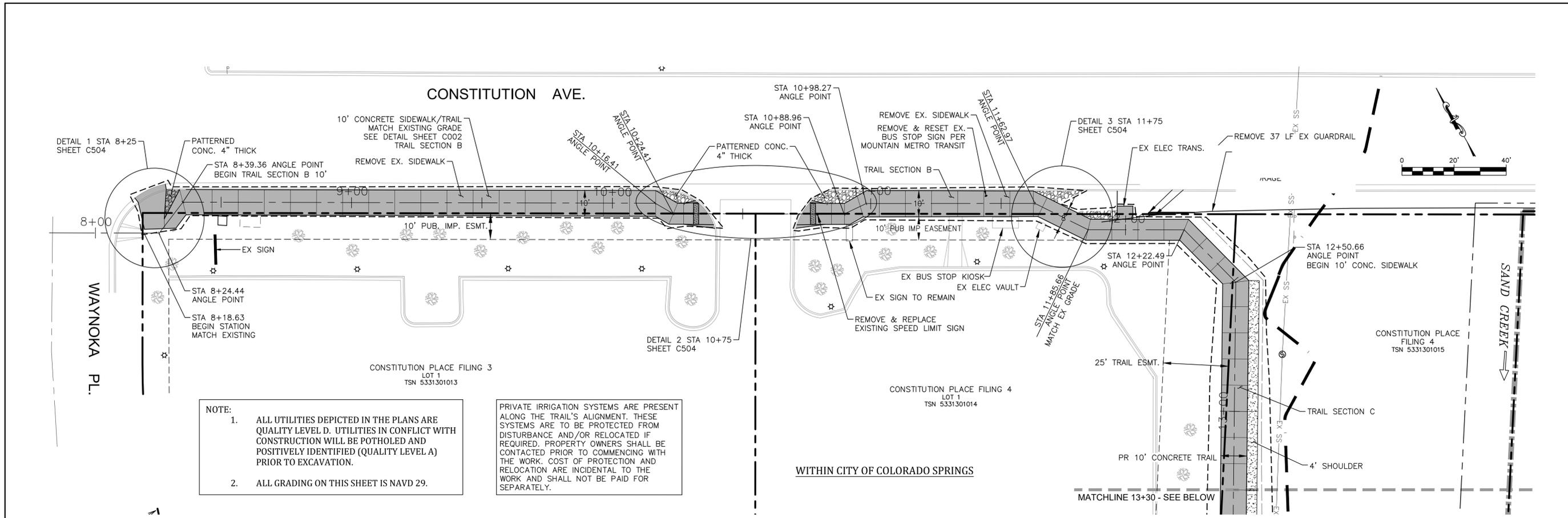
Revised:

Void:

ROCK ISLAND TRAIL
Sand Creek to Constitution Avenue
GENERAL NOTES

Designer: TAC
Detailer: JDC/TEG
Date: 05/08/2025

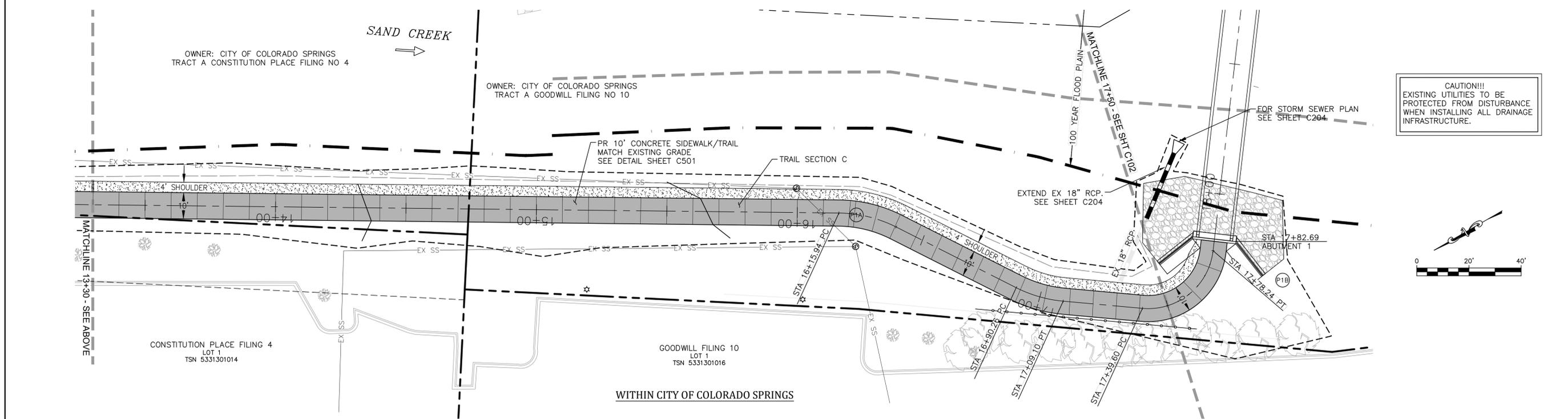
Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number C002



NOTE:

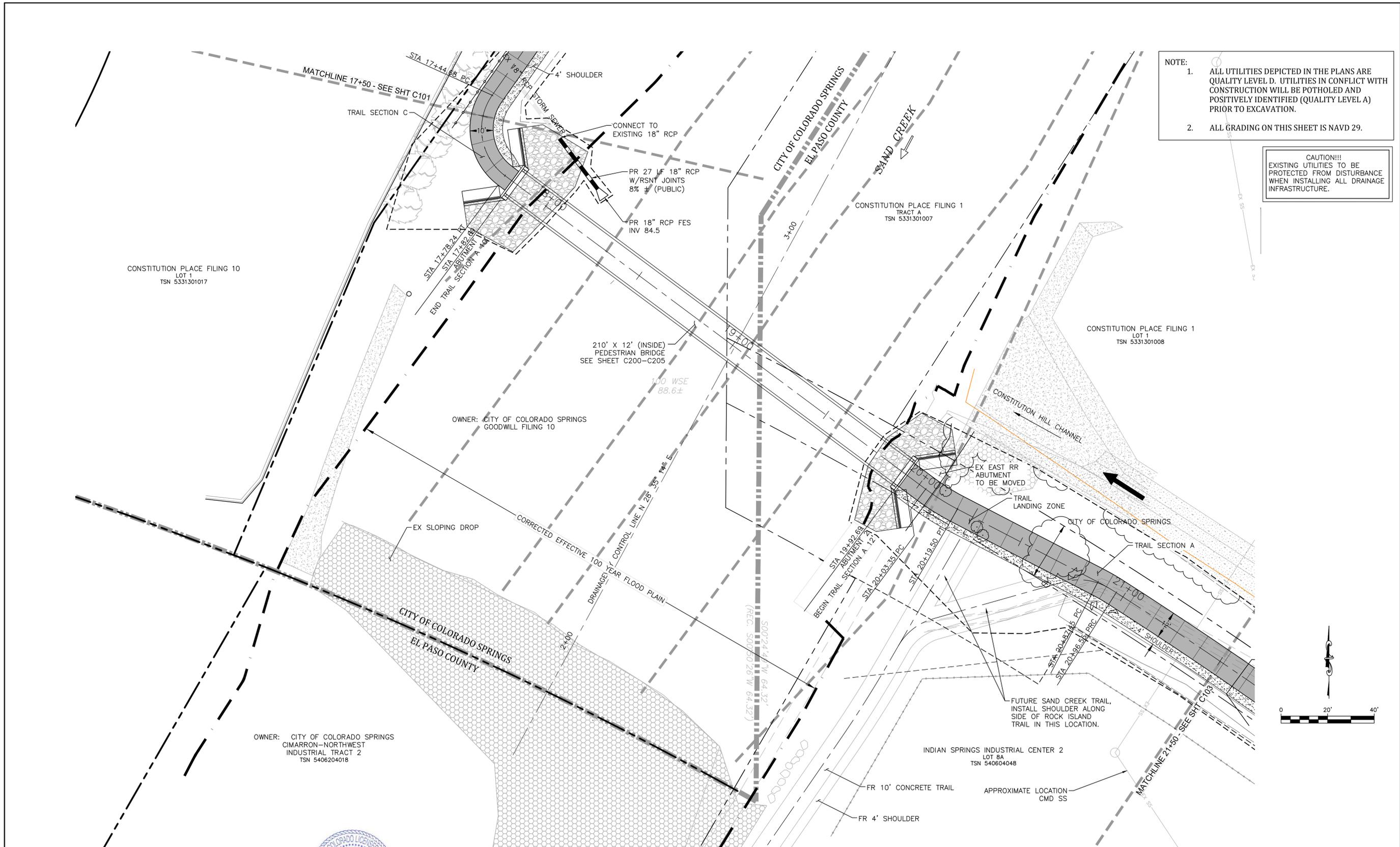
- ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
- ALL GRADING ON THIS SHEET IS NAVD 29.

PRIVATE IRRIGATION SYSTEMS ARE PRESENT ALONG THE TRAIL'S ALIGNMENT. THESE SYSTEMS ARE TO BE PROTECTED FROM DISTURBANCE AND/OR RELOCATED IF REQUIRED. PROPERTY OWNERS SHALL BE CONTACTED PRIOR TO COMMENCING WITH THE WORK. COST OF PROTECTION AND RELOCATION ARE INCIDENTAL TO THE WORK AND SHALL NOT BE PAID FOR SEPARATELY.



CAUTION!!!
EXISTING UTILITIES TO BE PROTECTED FROM DISTURBANCE WHEN INSTALLING ALL DRAINAGE INFRASTRUCTURE.

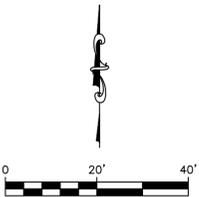
| | | | | | | | | |
|--|--|--|-----------------|--|---------------|--|--|-----------------------|
| | | | Sheet Revisions | | IFC | ROCK ISLAND TRAIL | | Kiowa Proj. No. 16028 |
| | | | | | | Sand Creek to Constitution Avenue | | |
| | | | | | No Revisions: | FINAL TRAIL PLAN STA 8+00 TO STA 17+50 | | TAP M240-162 |
| | | | | | Revised: | Designer: TAC | | SubAcct No. 20391 |
| | | | | | Void: | Detailer: JDC/TEG | | Sheet Number C101 |
| | | | | | | Date: 05/08/2025 | | |



NOTE:

1. ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
2. ALL GRADING ON THIS SHEET IS NAVD 29.

CAUTION!!!
EXISTING UTILITIES TO BE PROTECTED FROM DISTURBANCE WHEN INSTALLING ALL DRAINAGE INFRASTRUCTURE.



Kiowa
Engineering Corporation
1604 South 21st Street
Colorado Springs, Colorado 80904
(719) 630-7342

For and on Behalf of
Kiowa Engineering Corporation Date

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Sheet Revisions

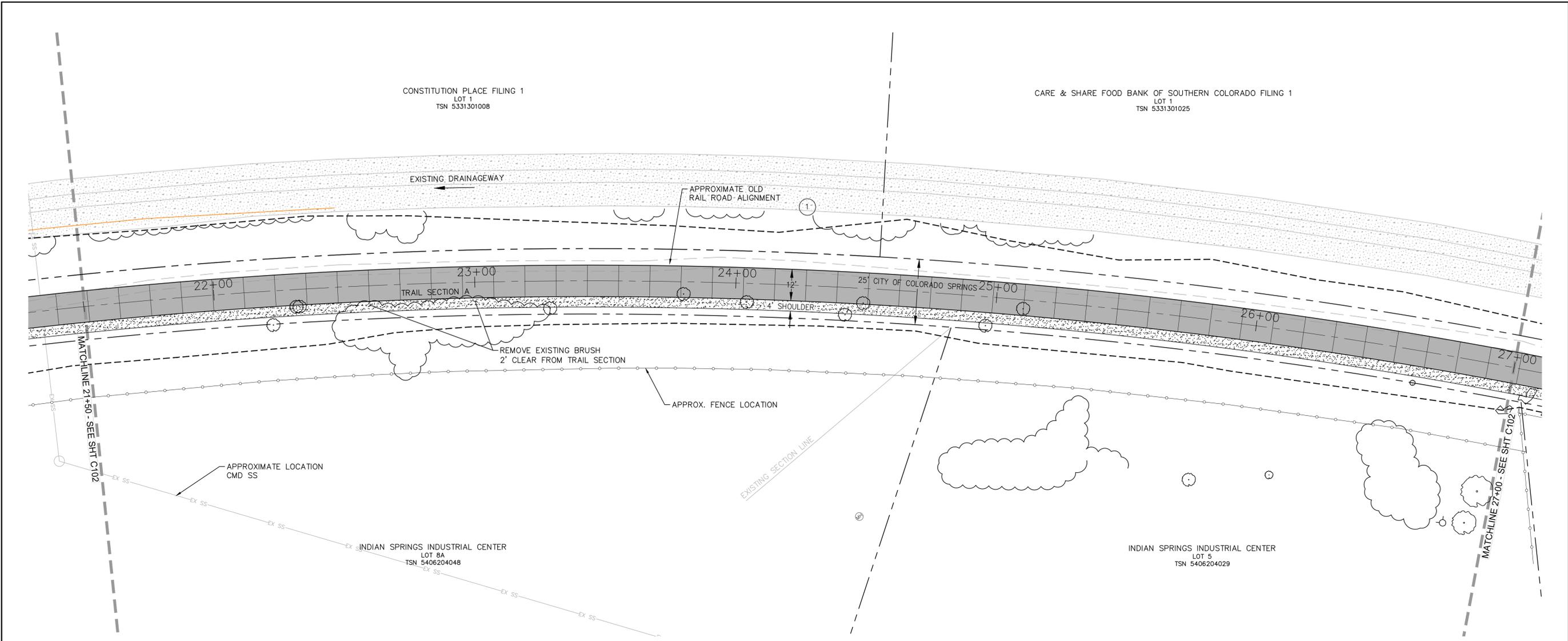
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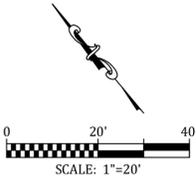
ROCK ISLAND TRAIL
Sand Creek to Constitution Avenue
FINAL TRAIL PLAN STA 17+50 TO STA 21+50
Designer: TAC
Detailer: JDC/TEG
Date: 05/08/2025

Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number C102



NOTE:

1. ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
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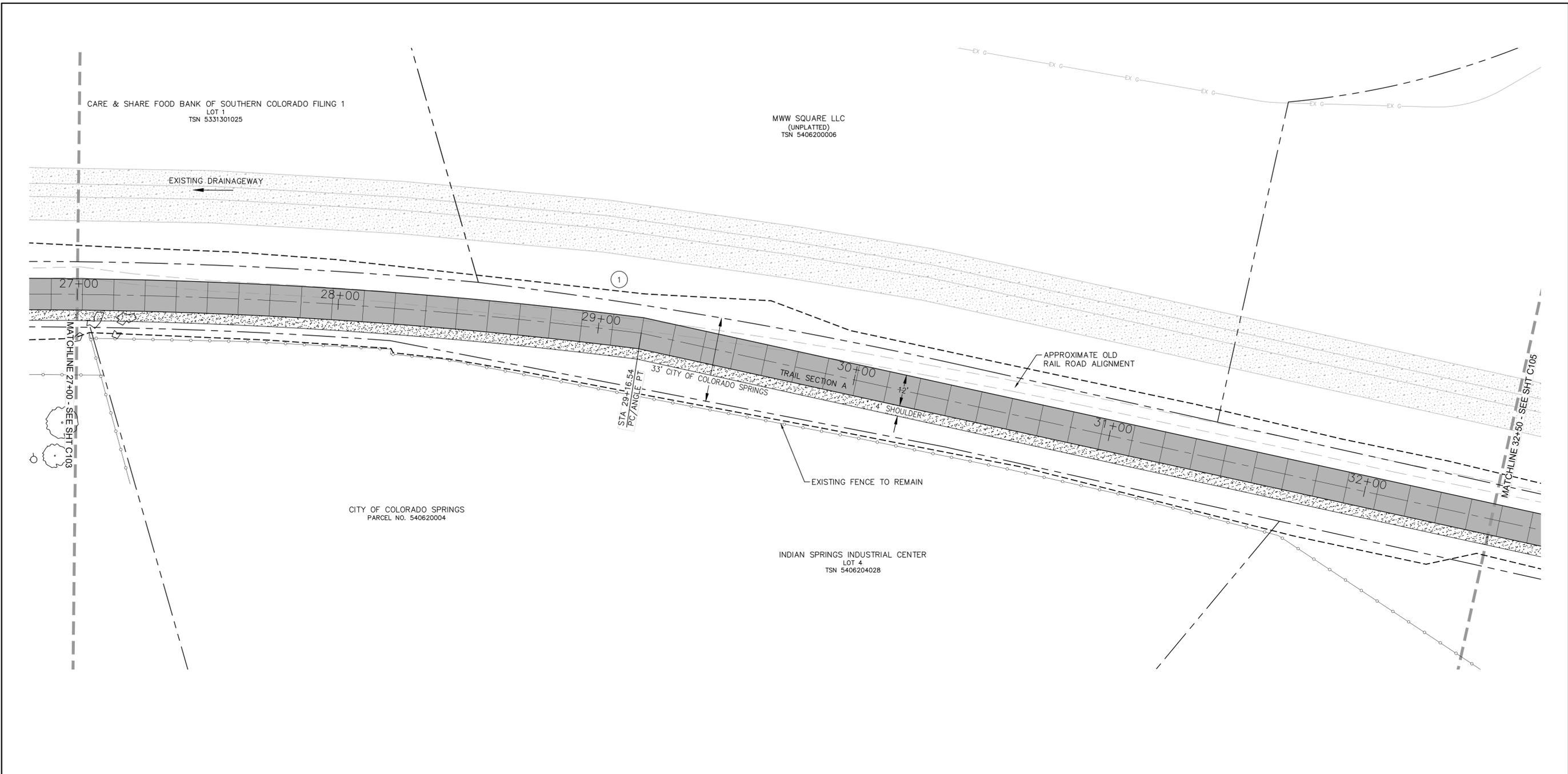
Revised:

Void:

ROCK ISLAND TRAIL
Sand Creek to Constitution Avenue
FINAL TRAIL PLAN STA 21+50 TO STA 27+00
Designer: TAC
Detailer: JDC/TEG
Date: 05/08/2025

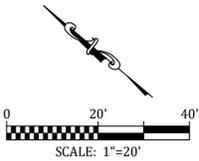
Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number C103

For and on Behalf of
Kiowa Engineering Corporation Date



NOTE:

1. ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
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Kiowa Engineering Corporation Date

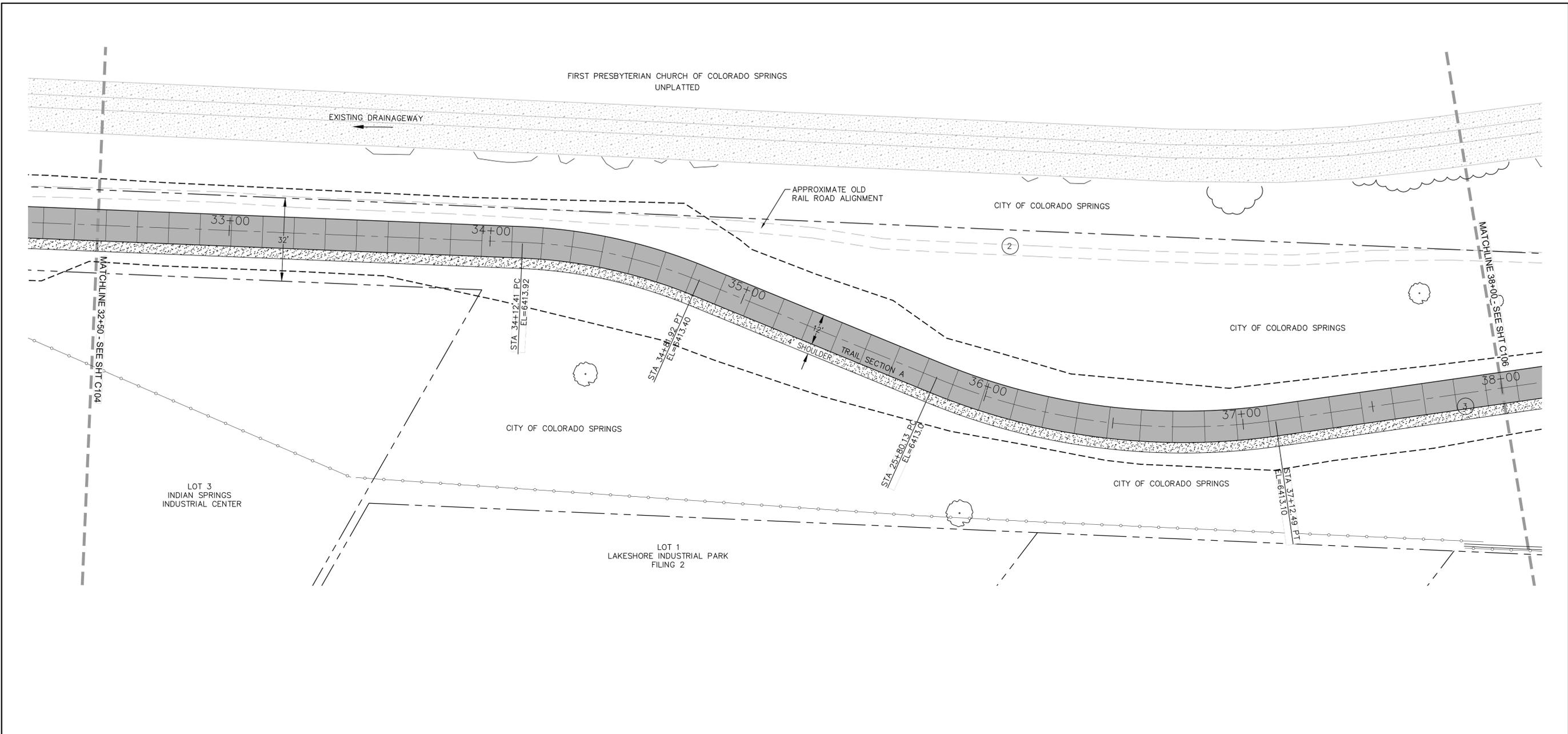


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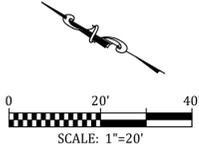
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| ROCK ISLAND TRAIL | |
| Sand Creek to Constitution Avenue | |
| FINAL TRAIL PLAN STA 27+00 TO STA 32+50 | |
| Designer: TAC | |
| Detailer: JDC/TEG | |
| Date: 05/08/2025 | |

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| Kiowa Proj. No. 16028 |
| TAP M240-162 |
| SubAcct No. 20391 |
| Sheet Number C104 |



NOTE:

1. ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
2. ALL GRADING ON THIS SHEET IS NAVD 29.



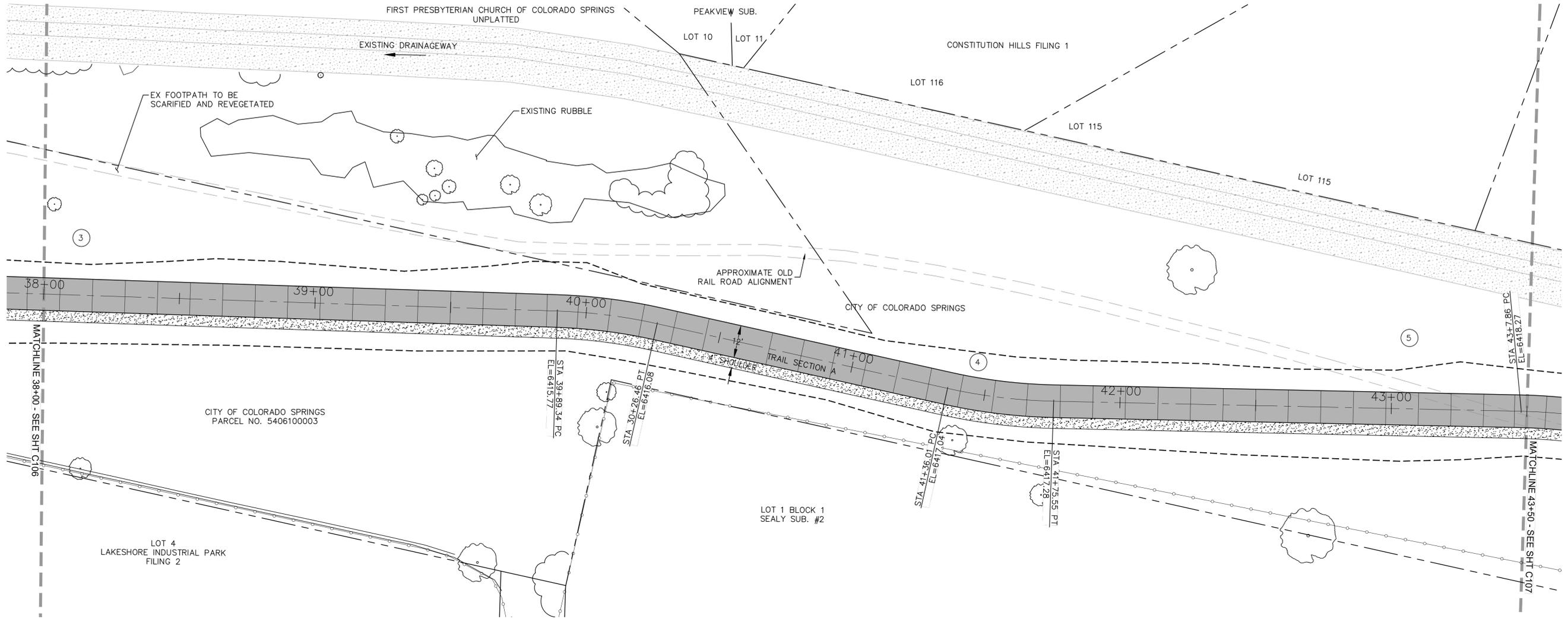
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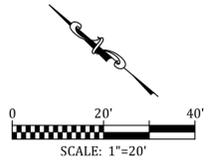
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| Sand Creek to Constitution Avenue | |
| FINAL TRAIL PLAN STA 32+50 TO STA 38+00 | |
| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

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| Kiowa Proj. No. 16028 |
| TAP M240-162 |
| SubAcct No. 20391 |
| Sheet Number C105 |

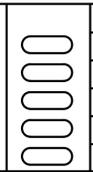


NOTE:

1. ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
2. ALL GRADING ON THIS SHEET IS NAVD 29.



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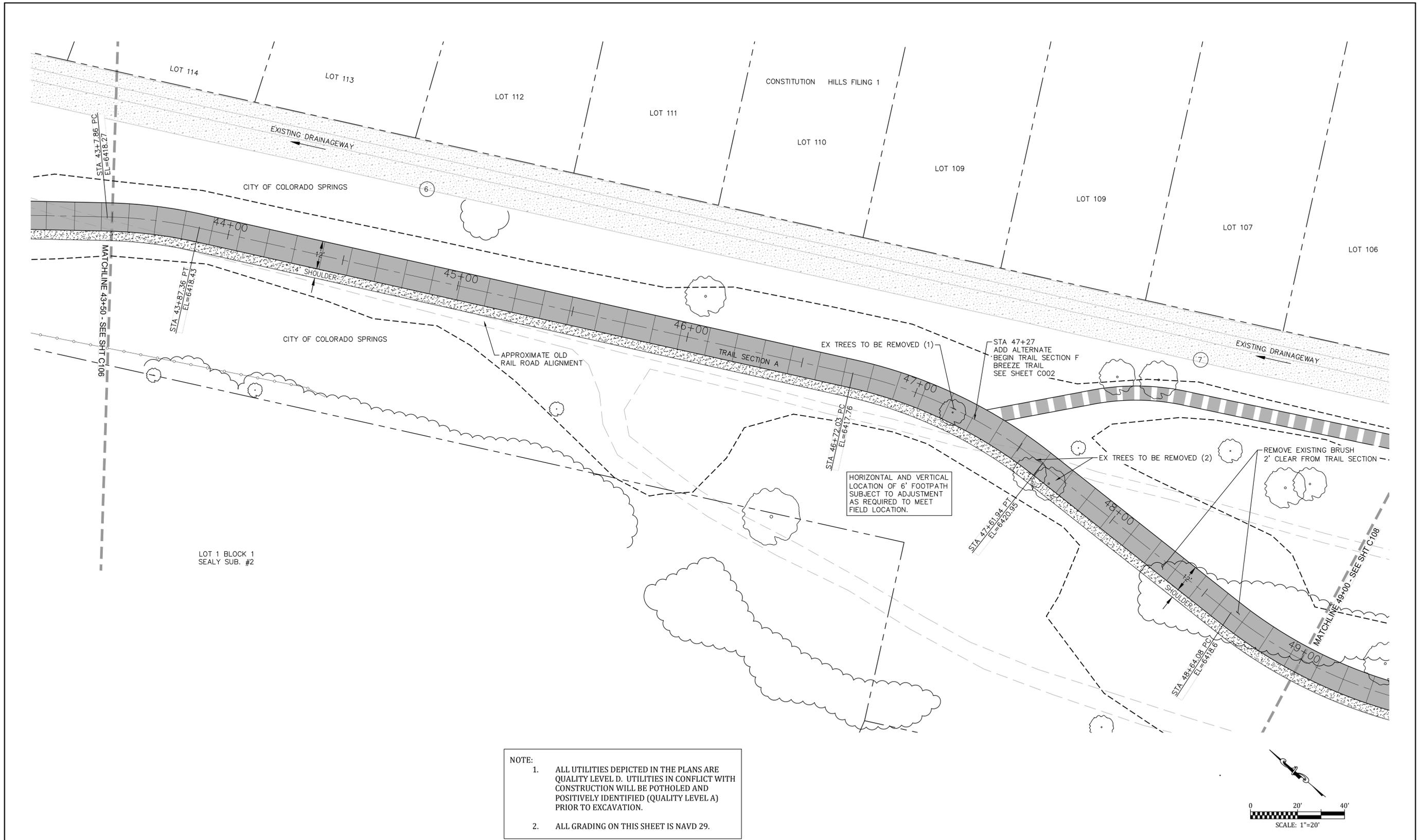


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ROCK ISLAND TRAIL
Sand Creek to Constitution Avenue
FINAL TRAIL PLAN STA 38+00 TO STA 43+50
Designer: TAC
Detailer: JDC/TEG
Date: 05/08/2025

Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number C106



NOTE:

- ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
- ALL GRADING ON THIS SHEET IS NAVD 29.



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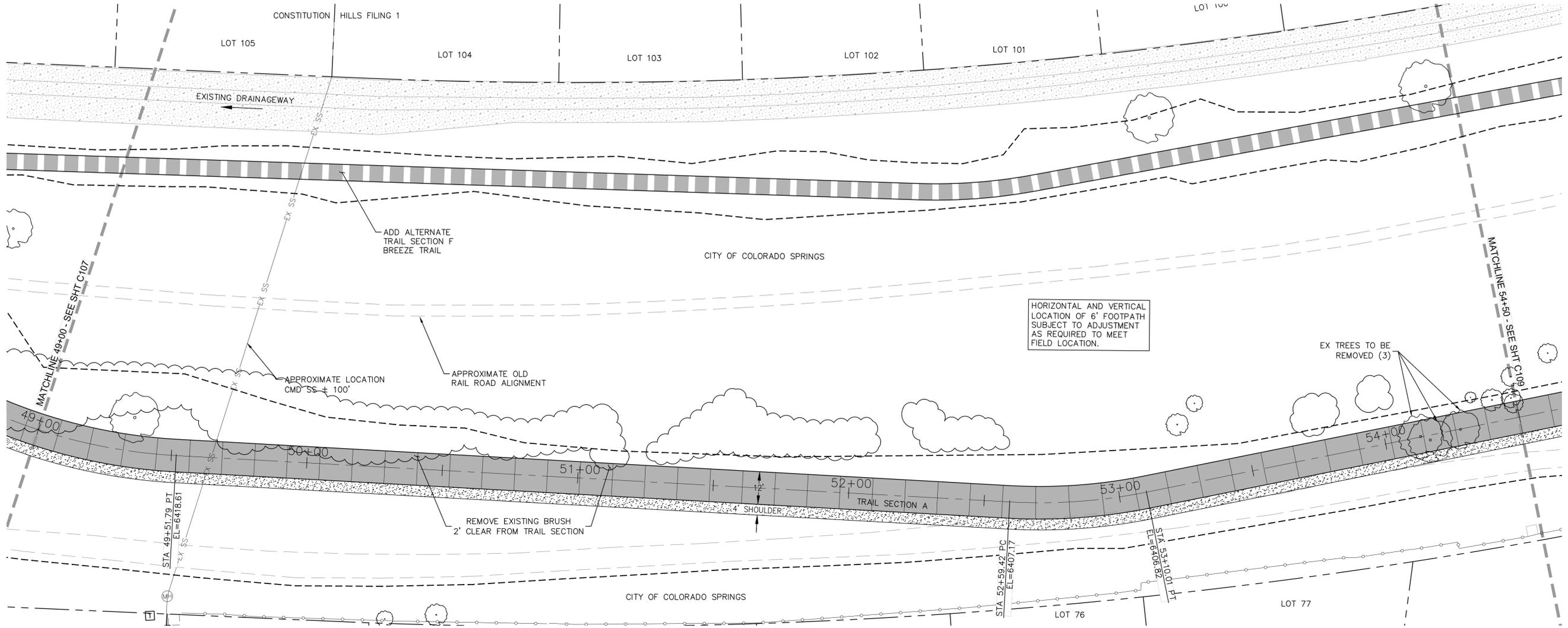
Revised:

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ROCK ISLAND TRAIL
Sand Creek to Constitution Avenue
FINAL TRAIL PLAN STA 43+50 TO STA 49+00

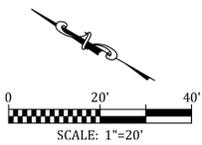
Designer: TAC
Detailer: JDC/TEG
Date: 05/08/2025

Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number C107



NOTE:

1. ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
2. ALL GRADING ON THIS SHEET IS NAVD 29.



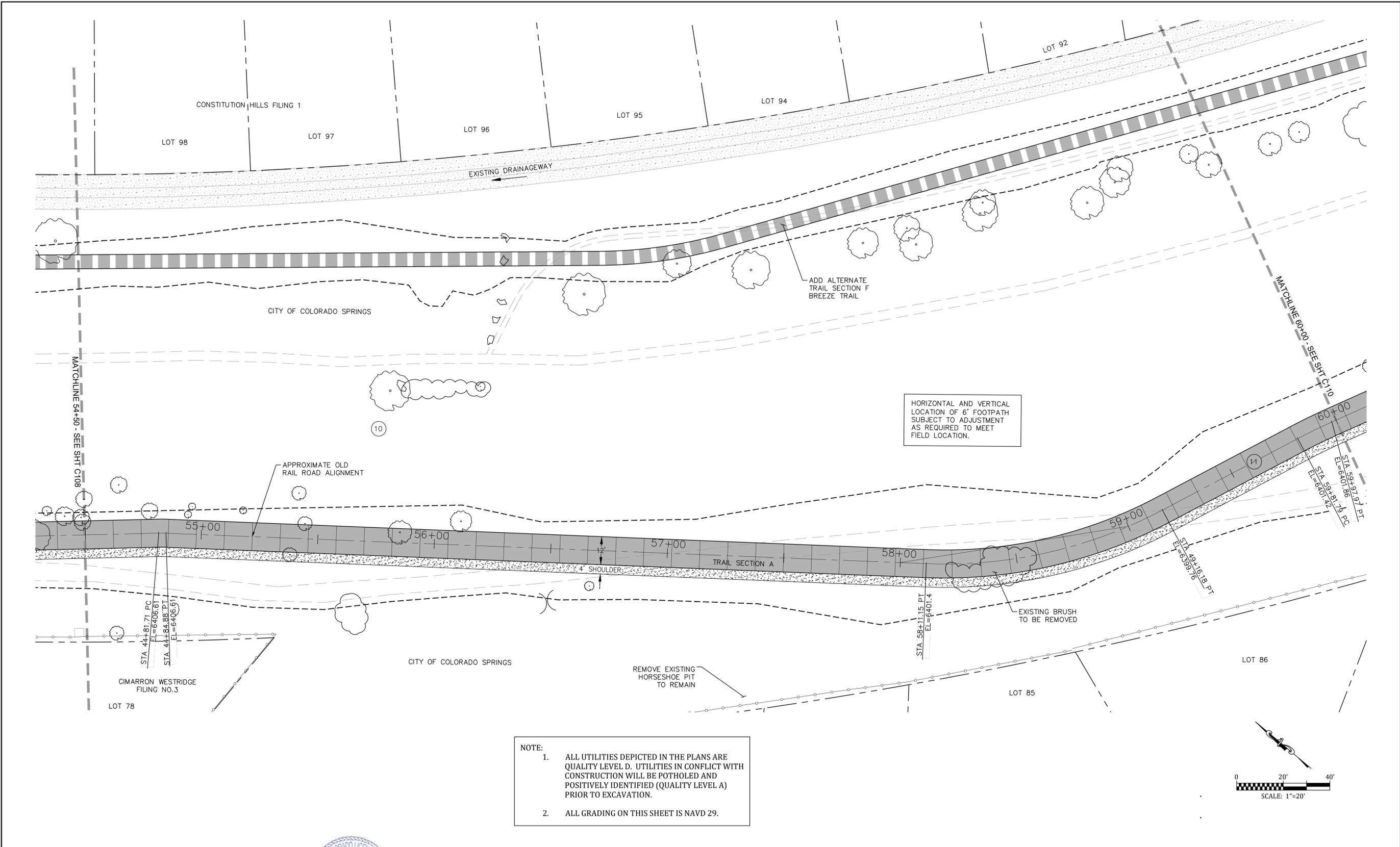
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| Sheet Revisions | IFC |
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| ROCK ISLAND TRAIL Sand Creek to Constitution Avenue FINAL TRAIL PLAN STA 49+00 TO STA 54+50 | |
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| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

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| Kiowa Proj. No. 16028 |
| TAP M240-162 |
| SubAcct No. 20391 |
| Sheet Number C108 |

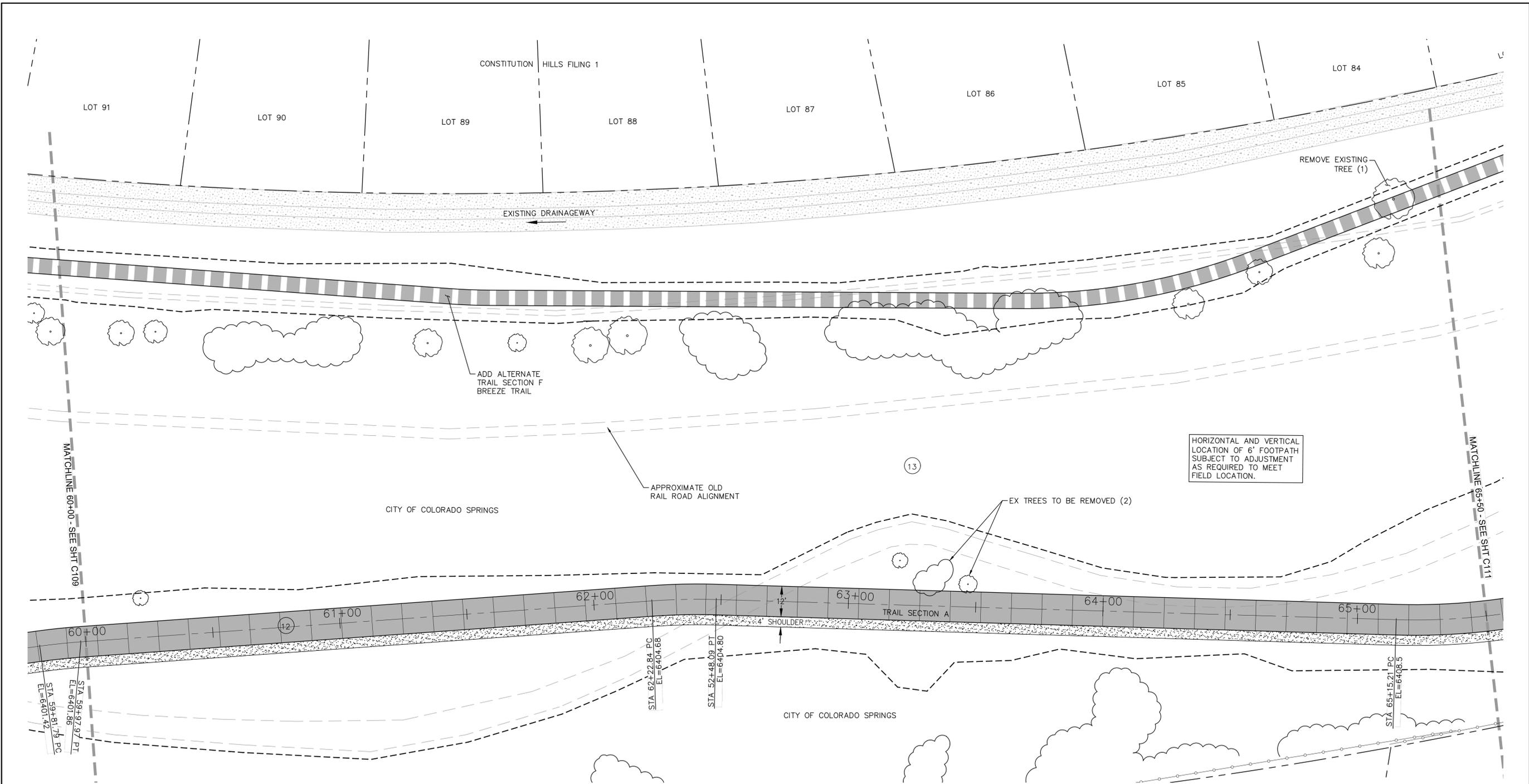


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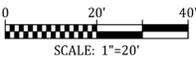
ROCK ISLAND TRAIL
Sand Creek to Constitution Avenue
FINAL TRAIL PLAN STA 54+50 TO STA 60+00
Designer: TAC
Detailer: JDC/TEG
Date: 05/08/2025

Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number C109

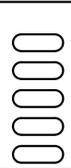


NOTE:

1. ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
2. ALL GRADING ON THIS SHEET IS NAVD 29.



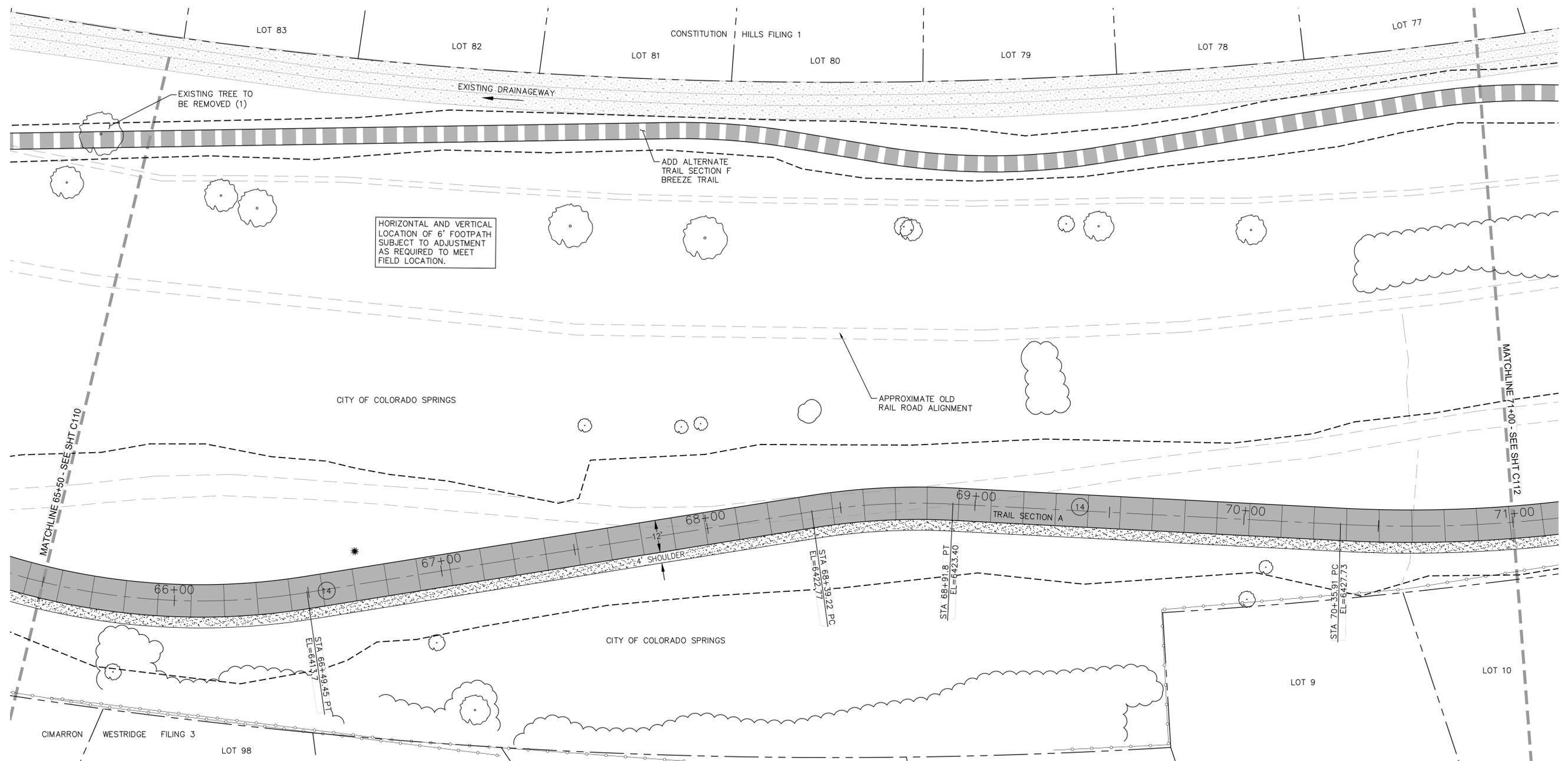
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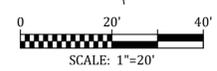
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| ROCK ISLAND TRAIL | |
| Sand Creek to Constitution Avenue | |
| FINAL TRAIL PLAN STA 60+00 TO STA 65+50 | |
| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

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| Kiowa Proj. No. 16028 | |
| TAP M240-162 | |
| SubAcct No. 20391 | |
| Sheet Number C110 | |



HORIZONTAL AND VERTICAL LOCATION OF 6' FOOTPATH SUBJECT TO ADJUSTMENT AS REQUIRED TO MEET FIELD LOCATION.

- NOTE:
1. ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
 2. ALL GRADING ON THIS SHEET IS NAVD 29.



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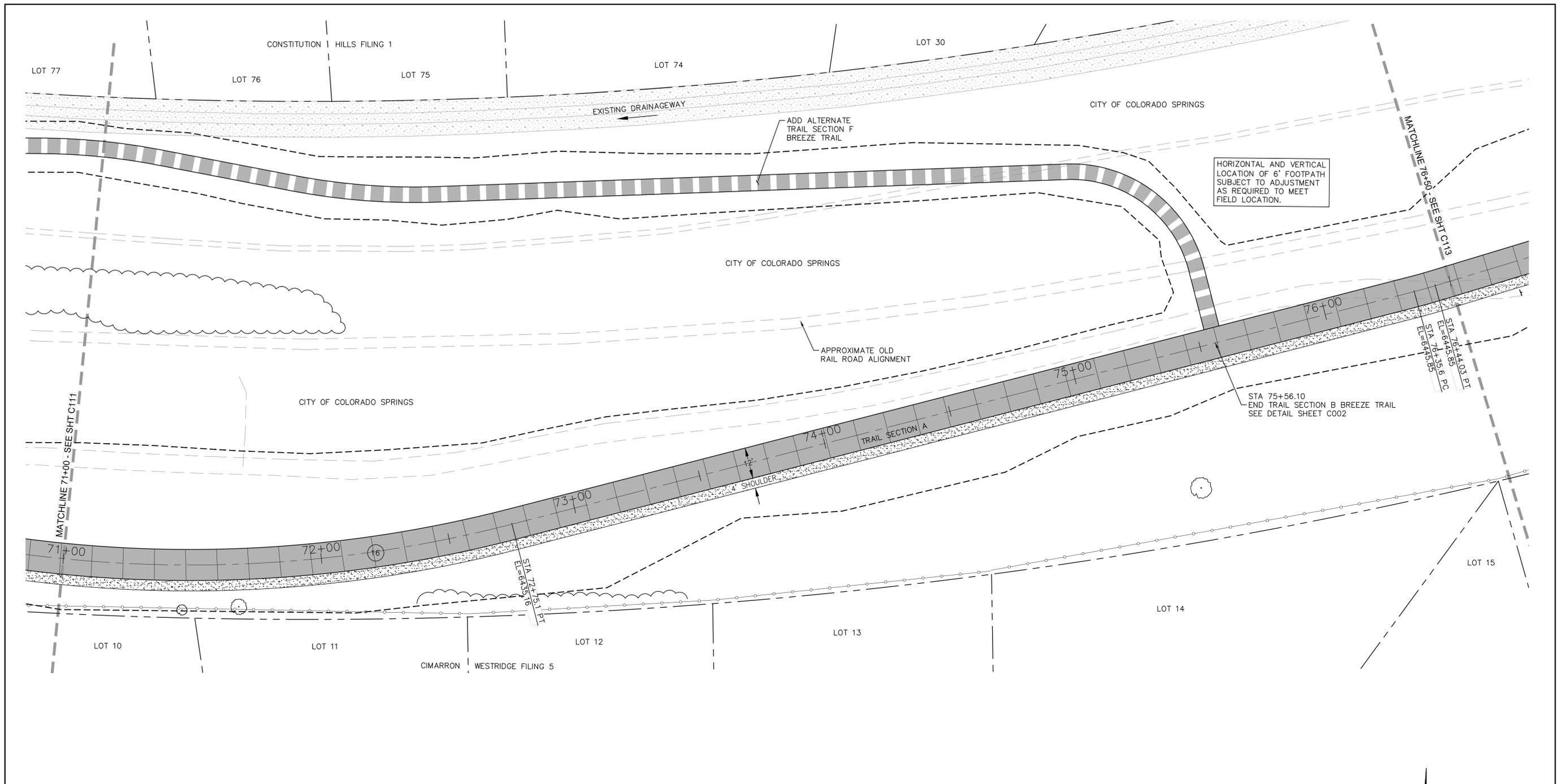
For and on Behalf of
Kiowa Engineering Corporation Date



| Sheet Revisions | IFC |
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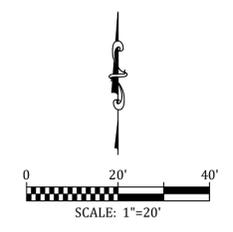
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|---|------------|
| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

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| Kiowa Proj. No. 16028 |
| TAP M240-162 |
| SubAcct No. 20391 |
| Sheet Number C111 |

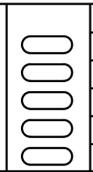


NOTE:

1. ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
2. ALL GRADING ON THIS SHEET IS NAVD 29.



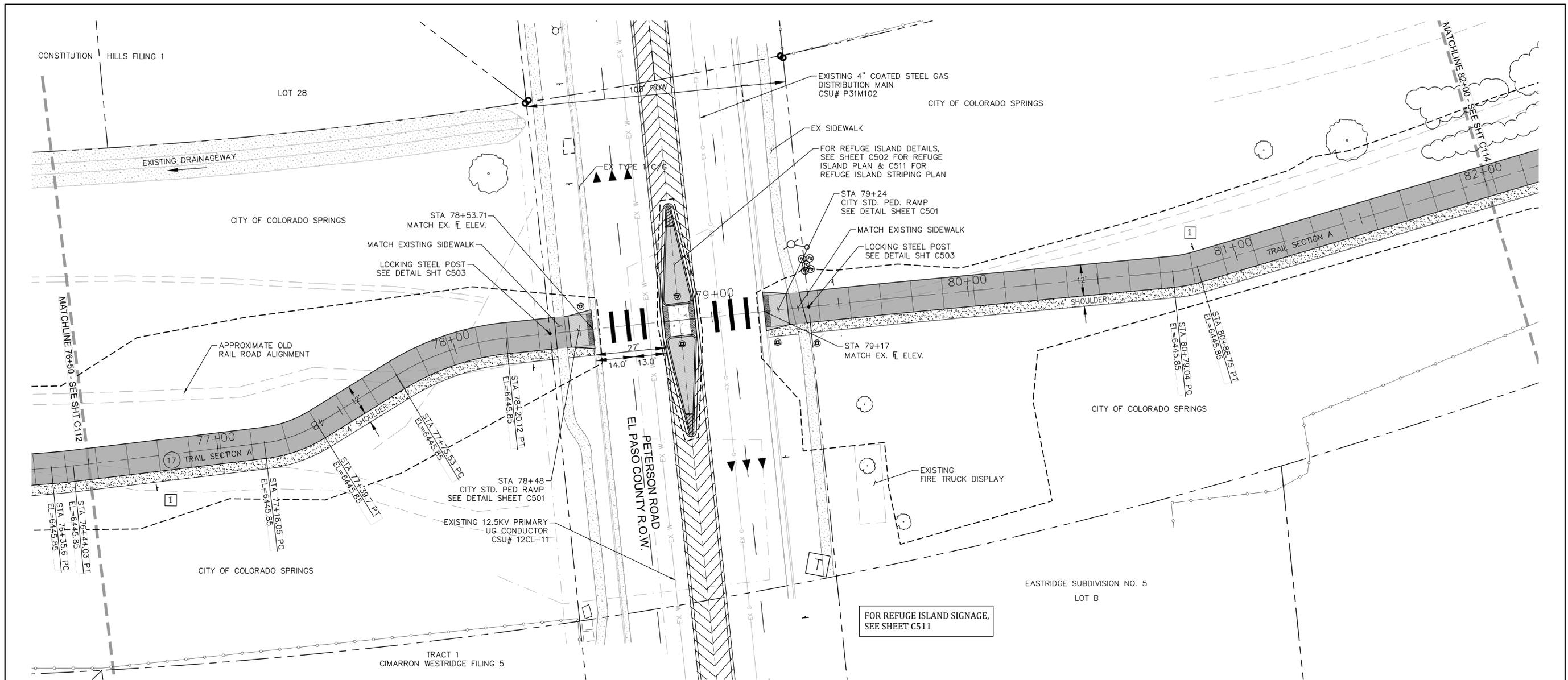
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| ROCK ISLAND TRAIL Sand Creek to Constitution Avenue FINAL TRAIL PLAN STA 71+00 TO STA 76+50 | |
|---|------------|
| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

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| Kiowa Proj. No. 16028 |
| TAP M240-162 |
| SubAcct No. 20391 |
| Sheet Number C112 |

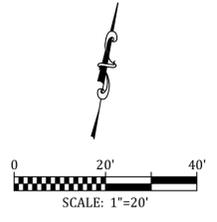


NOTE:

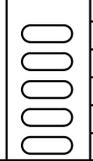
1. ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
2. ALL GRADING ON THIS SHEET IS NAVD 29.

NOTES:

1. CONTRACTOR TO OBTAIN EPC-DPW ROAD CUT WORK PERMIT FOR WORK IN RIGHT-OF-WAY.
2. CONTRACTOR TO SUPPLY TO EPC-DPW CONSTRUCTION TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WITH ANY WORK WITHIN THE PETERSON ROAD RIGHT-OF-WAY.



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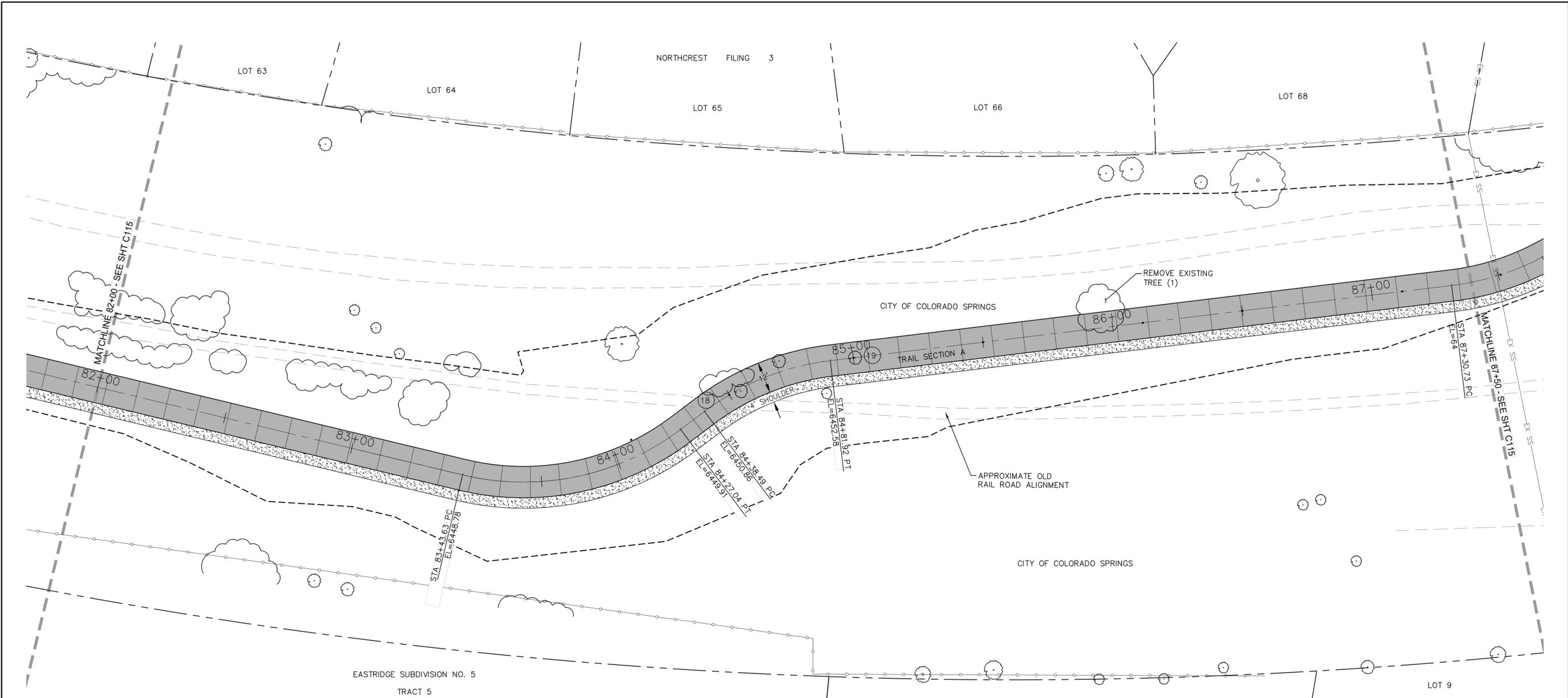


| Sheet Revisions | IFC |
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| ROCK ISLAND TRAIL | |
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| Sand Creek to Constitution Avenue | |
| FINAL TRAIL PLAN STA 76+50 TO STA 82+00 | |
| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

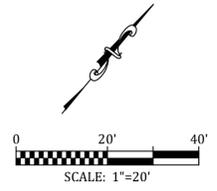
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| Kiowa Proj. No. 16028 |
| TAP M240-162 |
| SubAcct No. 20391 |
| Sheet Number C113 |

For and on Behalf of
Kiowa Engineering Corporation Date



NOTE:

1. ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
2. ALL GRADING ON THIS SHEET IS NAVD 29.



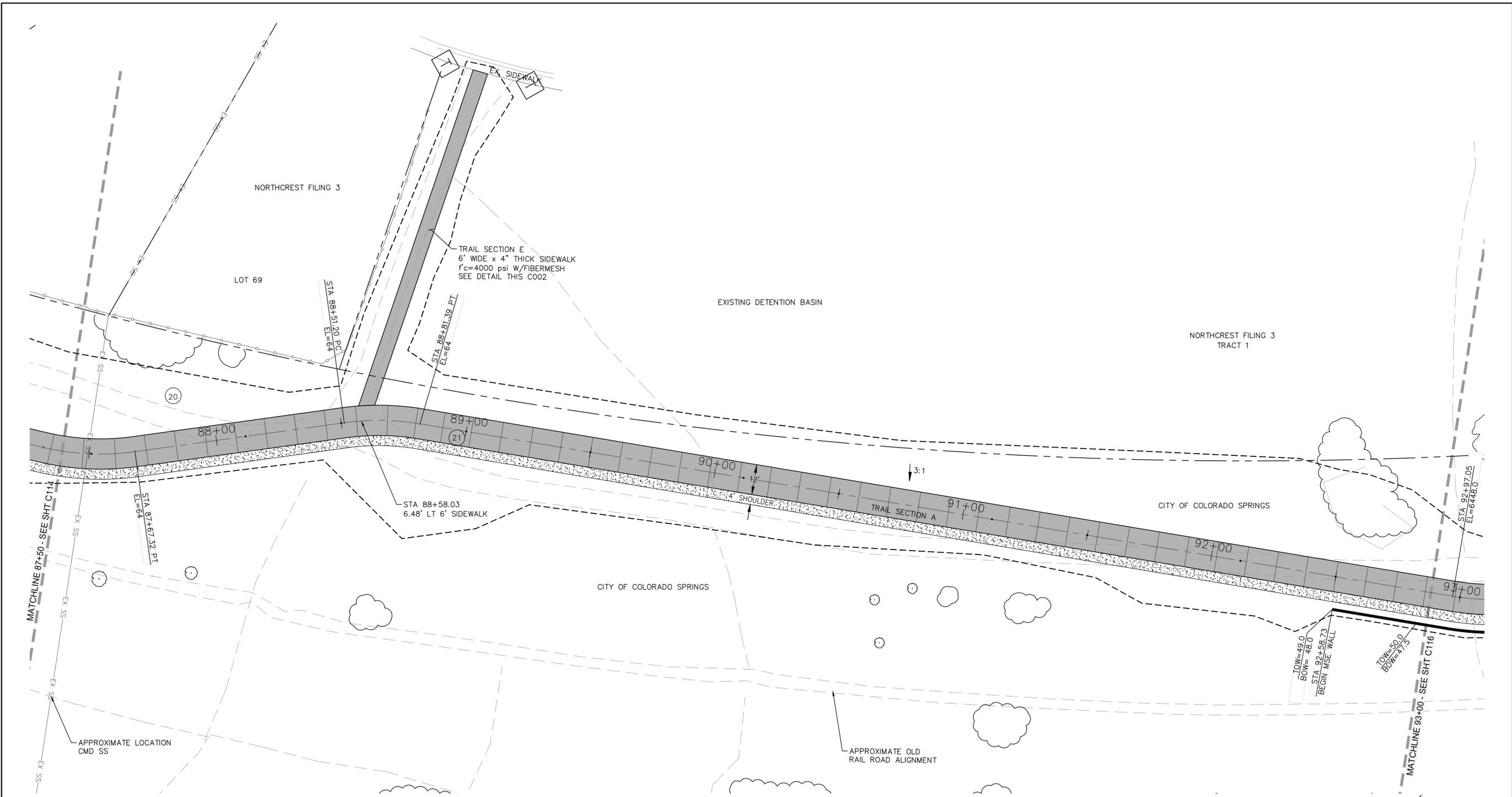
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Engineering Corporation
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Colorado Springs, Colorado 80904
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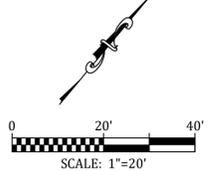
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| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

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| Kiowa Proj. No. 16028 |
| TAP M240-162 |
| SubAcct No. 20391 |
| Sheet Number C114 |



NOTE:

1. ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
2. ALL GRADING ON THIS SHEET IS NAVD 29.



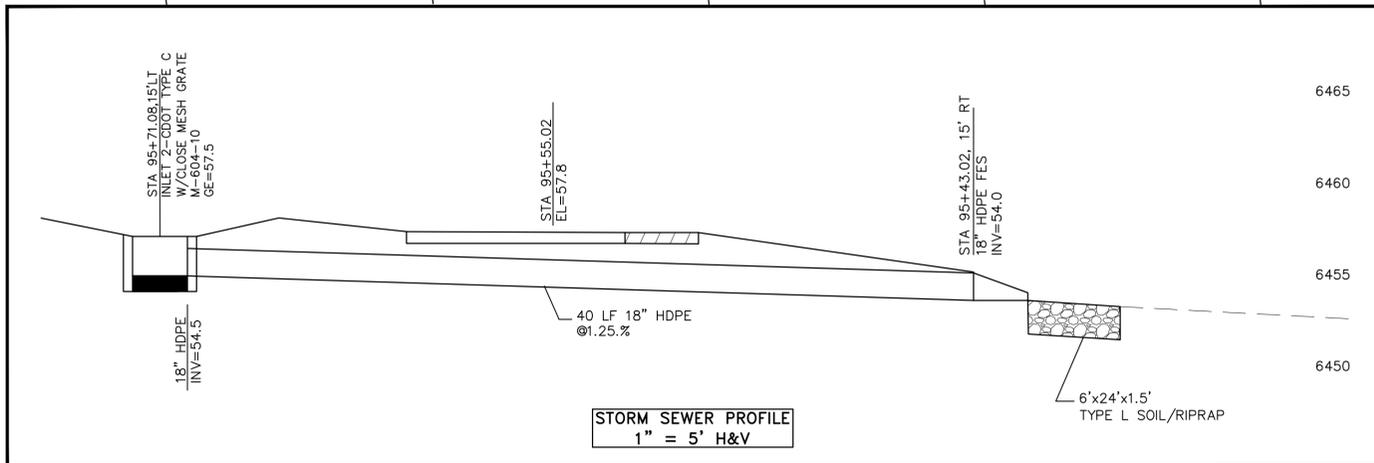
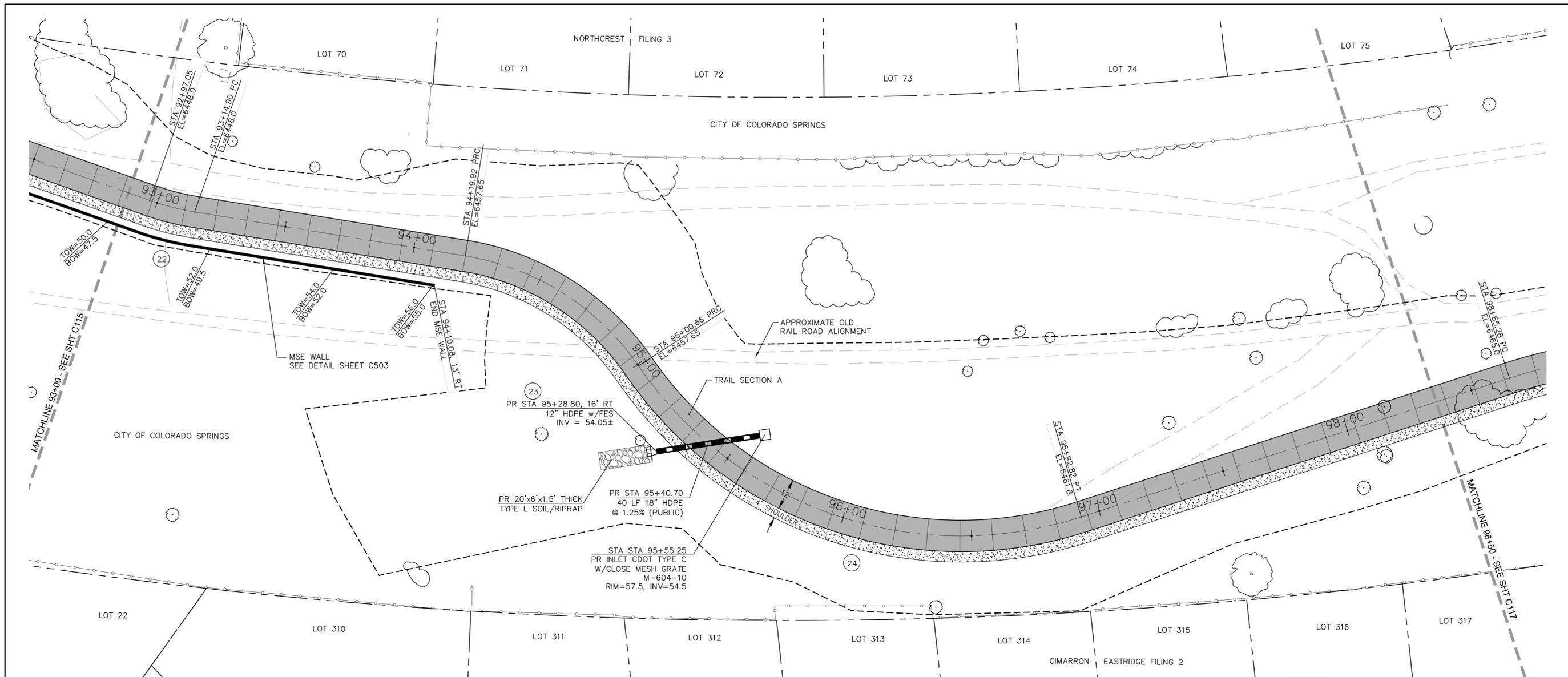
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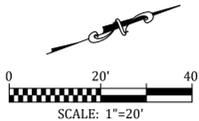
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| Sand Creek to Constitution Avenue | |
| FINAL TRAIL PLAN STA 87+50 TO STA 93+00 | |
| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

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| Kiowa Proj. No. 16028 |
| TAP M240-162 |
| SubAcct No. 20391 |
| Sheet Number C115 |



NOTE:

- ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
- ALL GRADING ON THIS SHEET IS NAVD 29.

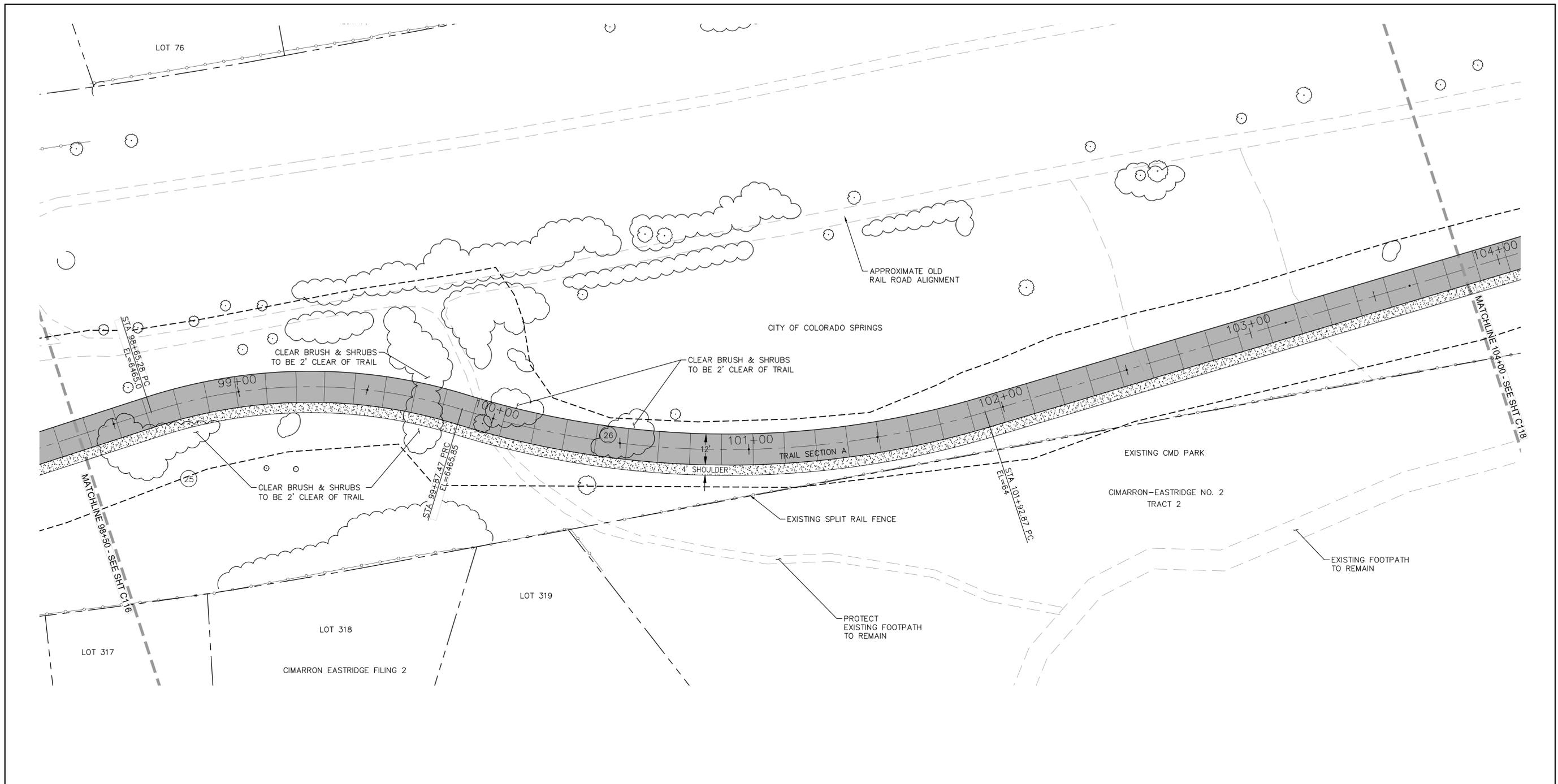


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Engineering Corporation
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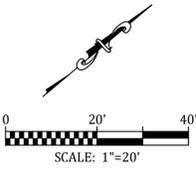
| ROCK ISLAND TRAIL Sand Creek to Constitution Avenue FINAL TRAIL PLAN STA 93+00 TO STA 98+50 | |
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| Designer: TAC | Date: 05/08/2025 |
| Detailer: JDC/TEG | |

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| Kiowa Proj. No. 16028 |
| TAP M240-162 |
| SubAcct No. 20391 |
| Sheet Number C116 |



NOTE:

1. ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
2. ALL GRADING ON THIS SHEET IS NAVD 29.



For and on Behalf of
Kiowa Engineering Corporation Date

Kiowa
Engineering Corporation

1604 South 21st Street
Colorado Springs, Colorado 80904
(719) 630-7342



Sheet Revisions

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No Revisions:

Revised:

Void:

ROCK ISLAND TRAIL

Sand Creek to Constitution Avenue

FINAL TRAIL PLAN STA 98+50 TO STA 104+00

Designer: TAC

Detailer: JDC/TEG

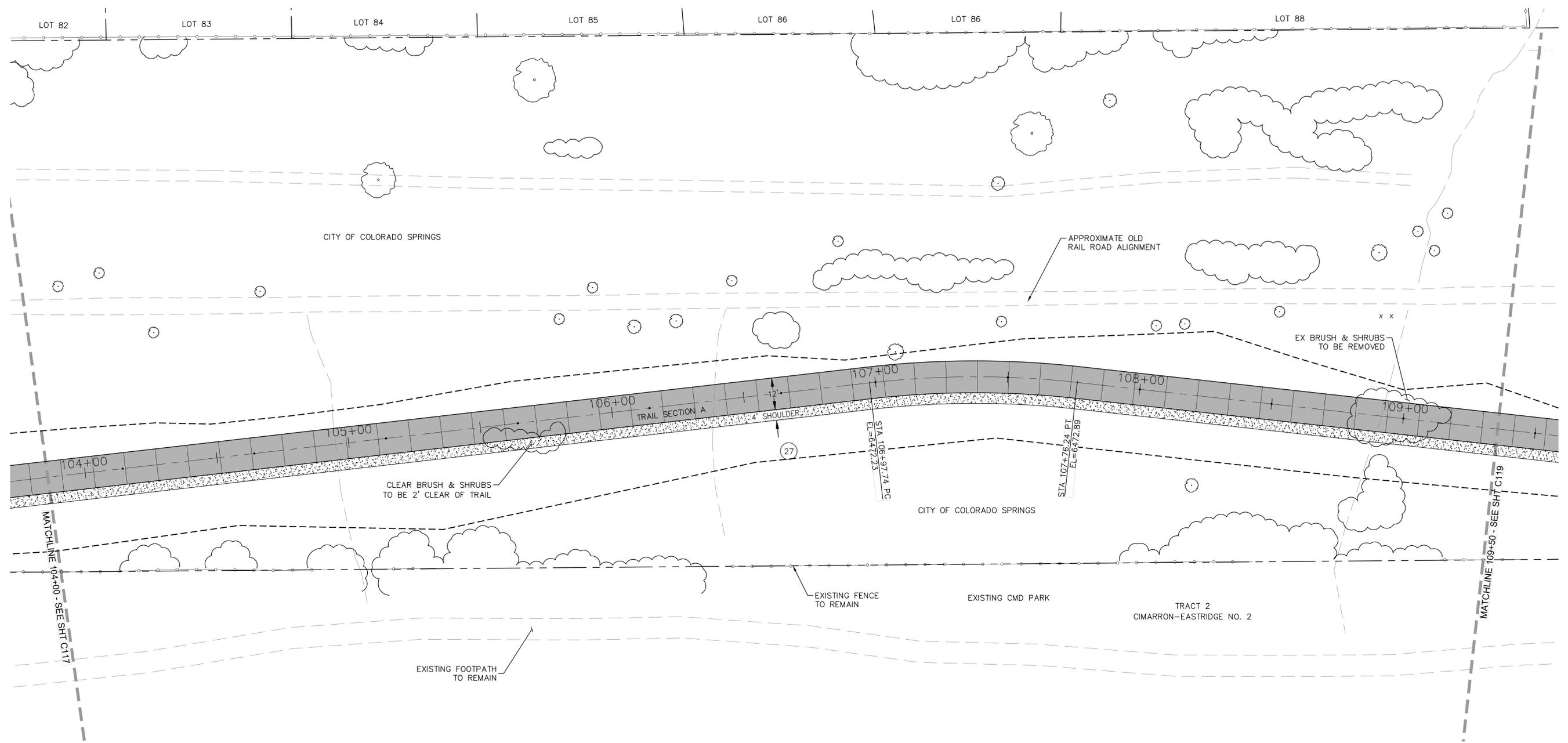
Date: 05/08/2025

Kiowa Proj. No. 16028

TAP M240-162

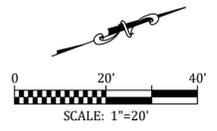
SubAcct No. 20391

Sheet Number C117

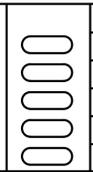


NOTE:

1. ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
2. ALL GRADING ON THIS SHEET IS NAVD 29.



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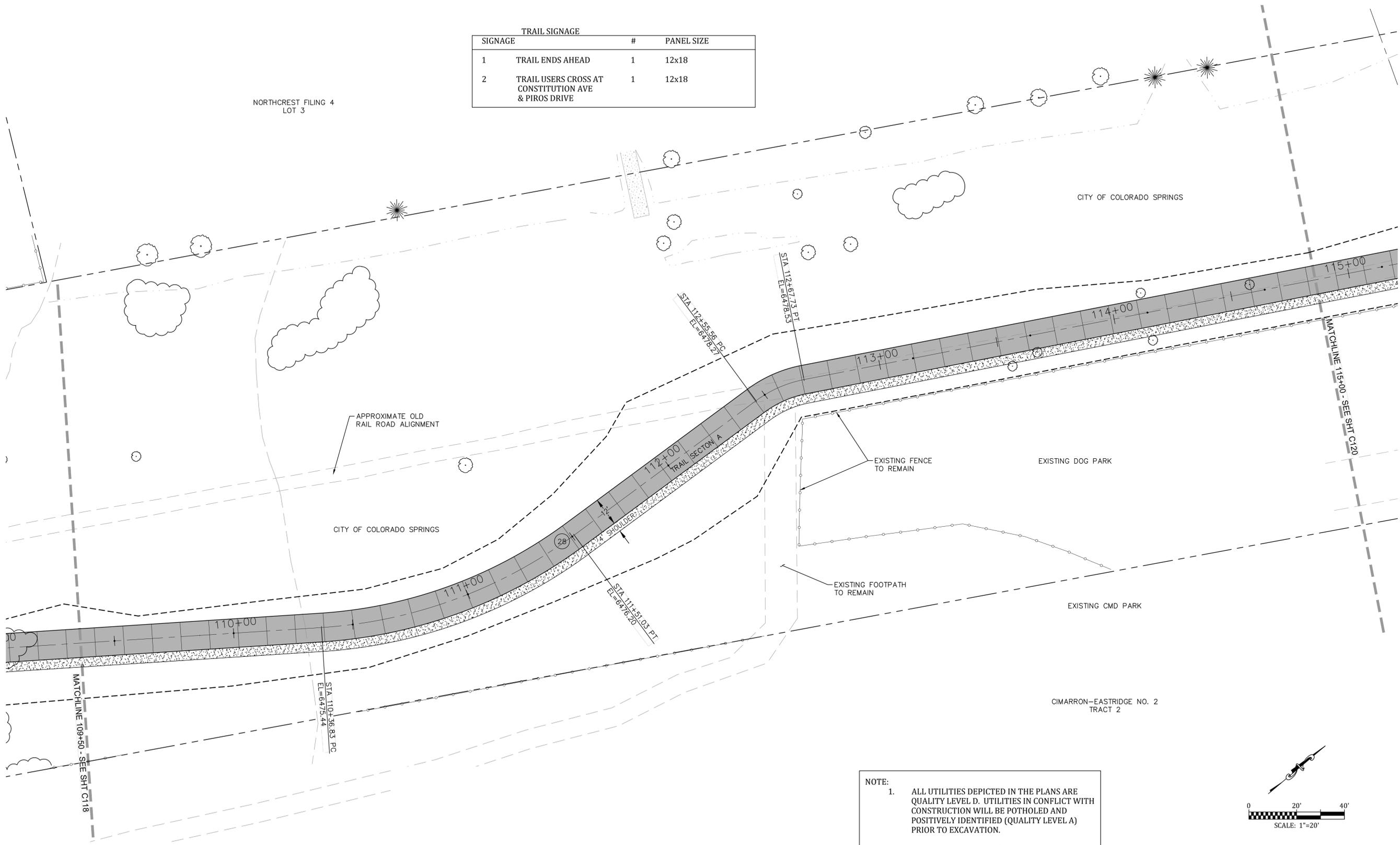
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ROCK ISLAND TRAIL
Sand Creek to Constitution Avenue
FINAL TRAIL PLAN STA 104+00 TO STA 109+50
Designer: TAC
Detailer: JDC/TEG
Date: 05/08/2025

Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number C118

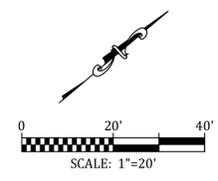
| TRAIL SIGNAGE | | | |
|---------------|---|---|------------|
| SIGNAGE | | # | PANEL SIZE |
| 1 | TRAIL ENDS AHEAD | 1 | 12x18 |
| 2 | TRAIL USERS CROSS AT CONSTITUTION AVE & PIROS DRIVE | 1 | 12x18 |

NORTHCREST FILING 4
LOT 3



NOTE:

- ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
- ALL GRADING ON THIS SHEET IS NAVD 29.



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Colorado Springs, Colorado 80904
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For and on Behalf of
Kiowa Engineering Corporation Date

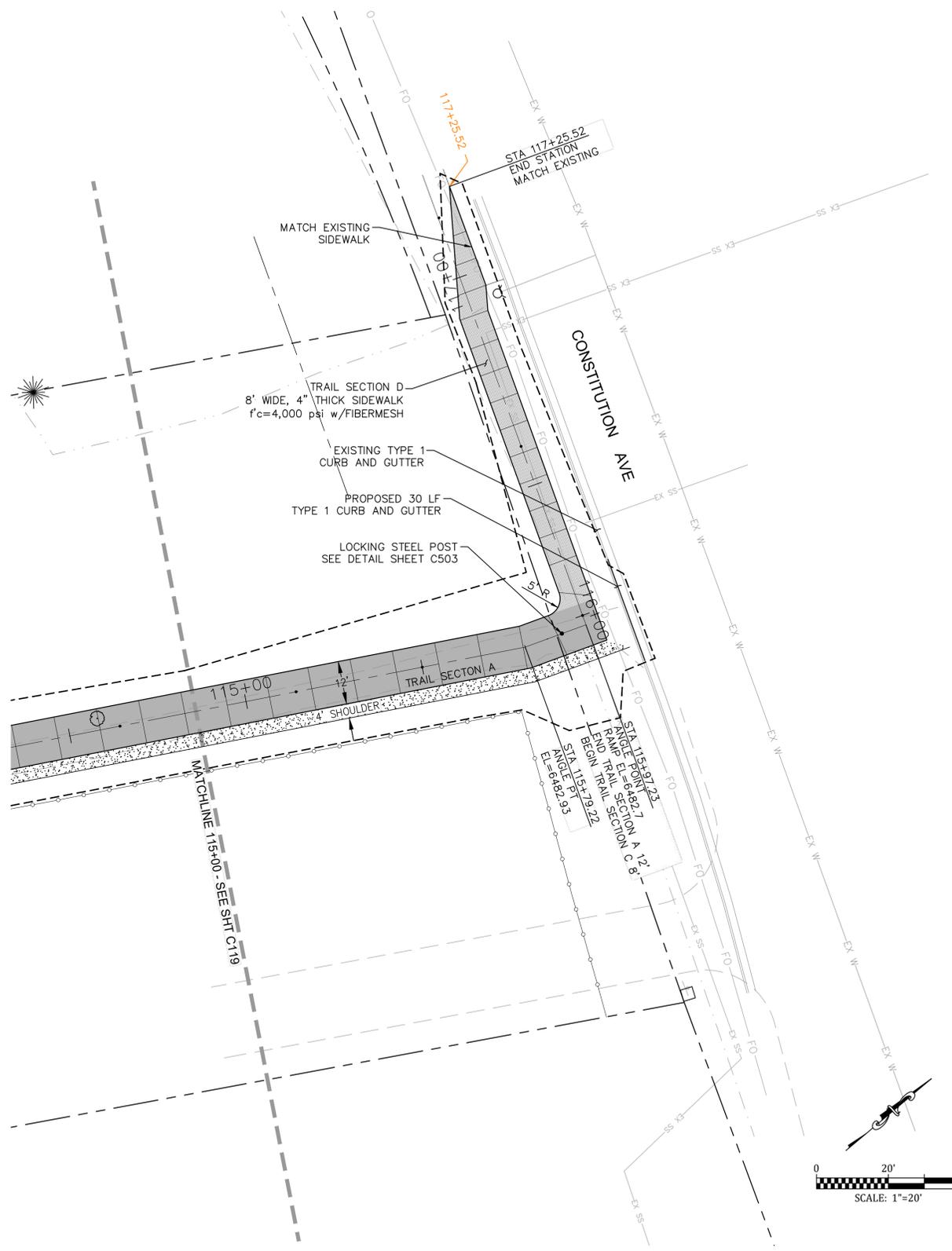
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| Sheet Revisions | IFC |
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| | No Revisions: |
| | Revised: |
| | Void: |

| ROCK ISLAND TRAIL | |
|---|------------|
| Sand Creek to Constitution Avenue | |
| FINAL TRAIL PLAN STA 109+50 TO STA 115+00 | |
| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

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| Kiowa Proj. No. 16028 |
| TAP M240-162 |
| SubAcct No. 20391 |
| Sheet Number C119 |

| TRAIL SIGNAGE | | | |
|---------------|---|---|------------|
| SIGNAGE | TRAIL SIGNAGE | # | PANEL SIZE |
| 1 | TRAIL ENDS AHEAD | 1 | 12x18 |
| 2 | TRAIL USERS CROSS AT CONSTITUTION AVE & PIROS DRIVE | 1 | 12x18 |

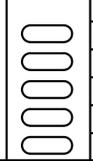


NOTE:

- ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D. UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A) PRIOR TO EXCAVATION.
- ALL GRADING ON THIS SHEET IS NAVD 29.



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| ROCK ISLAND TRAIL | |
|---|------------|
| Sand Creek to Constitution Avenue | |
| FINAL TRAIL PLAN STA 115+00 TO STA 117+50 | |
| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

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| Kiowa Proj. No. 16028 |
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| SubAcct No. 20391 |
| Sheet Number C120 |

PEDESTRIAN BRIDGE GENERAL INFORMATION

SPECIFICATIONS FOR BRIDGE GIRDER AND DECK UNIT (ITEM 628)

GENERAL

IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL AND ERECT A FULLY ENGINEERED, PREFABRICATED BRIDGE GIRDER AND DECK UNIT. THIS WORK SHALL CONSIST OF ALL LABOR, MATERIALS, AND EQUIPMENT FOR INSTALLATION OF THE SUPERSTRUCTURE AS SHOWN ON THE PLANS. FABRICATION AND DELIVERY OF THE BRIDGE GIRDER AND DECK UNIT SHALL BE FURNISHED BY THE CITY OF COLORADO SPRINGS. FABRICATION AND CONSTRUCTION OF THE BRIDGE AND ITS COMPONENTS SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS ON THE PLANS.

GEOMETRY

SPAN LENGTHS, DECK WIDTH AND ELEVATIONS SHALL BE IN ACCORDANCE WITH BRIDGE PLANS.

REQUIREMENTS FOR PEDESTRIAN AND BICYCLE RAILING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

DESIGN DATA

THE SUPERSTRUCTURE SHALL BE DESIGNED FOR A MINIMUM PEDESTRIAN LOAD OF 90 psf
THE SUPERSTRUCTURE SHALL ALSO BE DESIGNED FOR A VEHICLE LOAD OF 20,000 POUNDS (H10 TRUCK).

OTHER LOADS FOR SUPERSTRUCTURE DESIGN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AASHTO GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES.

MATERIALS

THE BRIDGE SHALL BE FABRICATED FROM HIGH STRENGTH, SELF-WEATHERING, LOW ALLOY, ATMOSPHERIC CORROSION RESISTANT ASTM A847 COLD-FORMED WELDED SQUARE AND RECTANGULAR TUBING AND ASTM A588, ASTM A606, OR ASTM A 242 PLATE AND STRUCTURAL STEEL SHAPES ($f_y=50,000$ psi). ALL BOLTS SHALL BE ASTM A325 HIGH STRENGTH BOLTS. DECK SHALL BE 6" THICK CDOT CLASS D REINFORCED CONCRETE OVER 20 GAGE GALVANIZED STEEL FORM DECKING. REINFORCING STEEL SHALL BE GRADE 60 STEEL REBAR.

EXPANSION JOINT MATERIAL SHALL MEET AASHTO M-213.

SHOP DRAWINGS

THE CONTRACTOR SHALL SUBMIT SHOP FABRICATION DRAWINGS AND DESIGN CALCULATIONS TO THE CITY OF COLORADO SPRINGS FOR APPROVAL. ALL DRAWINGS AND CALCULATIONS THAT ARE SUBMITTED SHALL BE APPROVED, SIGNED, AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF COLORADO.

DESIGN DATA

- UNIFORM PEDESTRIAN LOAD = 85 psf
- VEHICLE LOAD = 10,000 lbs (H5 TRUCK)
- REINFORCED CONCRETE CLASS B2: $f_c=4,000$ psi
- ABUTMENT STRUCTURAL STEEL: AASHTO M-183 (ASTM A-36)

BRIDGE DESCRIPTION

- PRE-FABRICATED SINGLE SPAN PEDESTRIAN BRIDGE
- WITH SELF-WEATHERING STEEL AND WITH CONCRETE DECKING CDOT CLASS D
- LENGTH = 210 FEET (STA 18+87)
- WIDTH = 12 FEET
- RAILING HEIGHT = 54 INCHES (MINIMUM)

SOILS LEGEND

LEGEND



TOPSOIL.



FILL: POORLY TO WELL-GRADED SAND WITH SILT (SP-SM, SW-SM) WITH OCCASIONAL CLAYEY TO SILTY SAND LAYERS, SLIGHTLY MOIST TO MOIST, TAN TO BROWN. OCCASIONAL ASPHALT DEBRIS IN BORING 4.



POORLY TO WELL-GRADED SAND WITH SILT (SP-SM, SW-SM) WITH OCCASIONAL POORLY GRADED SAND (SP) AND SILTY TO CLAYEY LAYERS, MEDIUM DENSE TO VERY DENSE, MOIST TO WET, TAN TO GRAY.



CLAYSTONE BEDROCK, VERY HARD, MOIST, DARK GRAY.



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

25/12 DRIVE SAMPLE BLOW COUNT. INDICATES THAT 25 BLOWS OF A 140-POUND HAMMER FALLING 30 INCHES WERE REQUIRED TO DRIVE THE SAMPLER 12 INCHES.



DEPTH TO WATER LEVEL AND NUMBER OF DAYS AFTER DRILLING MEASUREMENT WAS MADE.

→ DEPTH AT WHICH BORING CAVED.

NOTES

1. THE EXPLORATORY BORINGS WERE DRILLED ON MARCH 17, 2011 WITH A 4-INCH DIAMETER CONTINUOUS FLIGHT POWER AUGER.
2. THE LOCATIONS OF THE EXPLORATORY BORINGS WERE MEASURED APPROXIMATELY BY TAPING FROM FEATURES SHOWN ON THE SITE PLAN PROVIDED.
3. THE ELEVATIONS OF THE EXPLORATORY BORINGS WERE OBTAINED BY INTERPOLATION BETWEEN CONTOURS ON THE SITE PLAN PROVIDED.
4. THE EXPLORATORY BORING LOCATIONS AND ELEVATIONS SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
5. THE LINES BETWEEN MATERIALS SHOWN ON THE EXPLORATORY BORING LOGS REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN MATERIAL TYPES AND THE TRANSITIONS MAY BE GRADUAL.
6. GROUND WATER LEVELS SHOWN ON THE LOGS WERE MEASURED AT THE TIME AND UNDER CONDITIONS INDICATED. FLUCTUATIONS IN THE WATER LEVEL MAY OCCUR WITH TIME.
7. LABORATORY TEST RESULTS:
WC = WATER CONTENT (%) (ASTM D 2216);
DD = DRY DENSITY (pcf) (ASTM D 2216);
+4 = PERCENTAGE RETAINED ON NO. 4 SIEVE (ASTM D 422);
-200 = PERCENTAGE PASSING NO. 200 SIEVE (ASTM D 1140);
LL = LIQUID LIMIT (ASTM D 4318);
PI = PLASTICITY INDEX (ASTM D 4318);
NP = NON-PLASTIC (ASTM D 4318);
WSS = WATER SOLUBLE SULFATES (%) (AASHTO T 290).



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Sheet Revisions

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Revised:

Void:

ROCK ISLAND TRAIL

Sand Creek to Constitution Avenue

Pedestrian Bridge General Information

Designer: TAC

Detailer: JDC/TEG

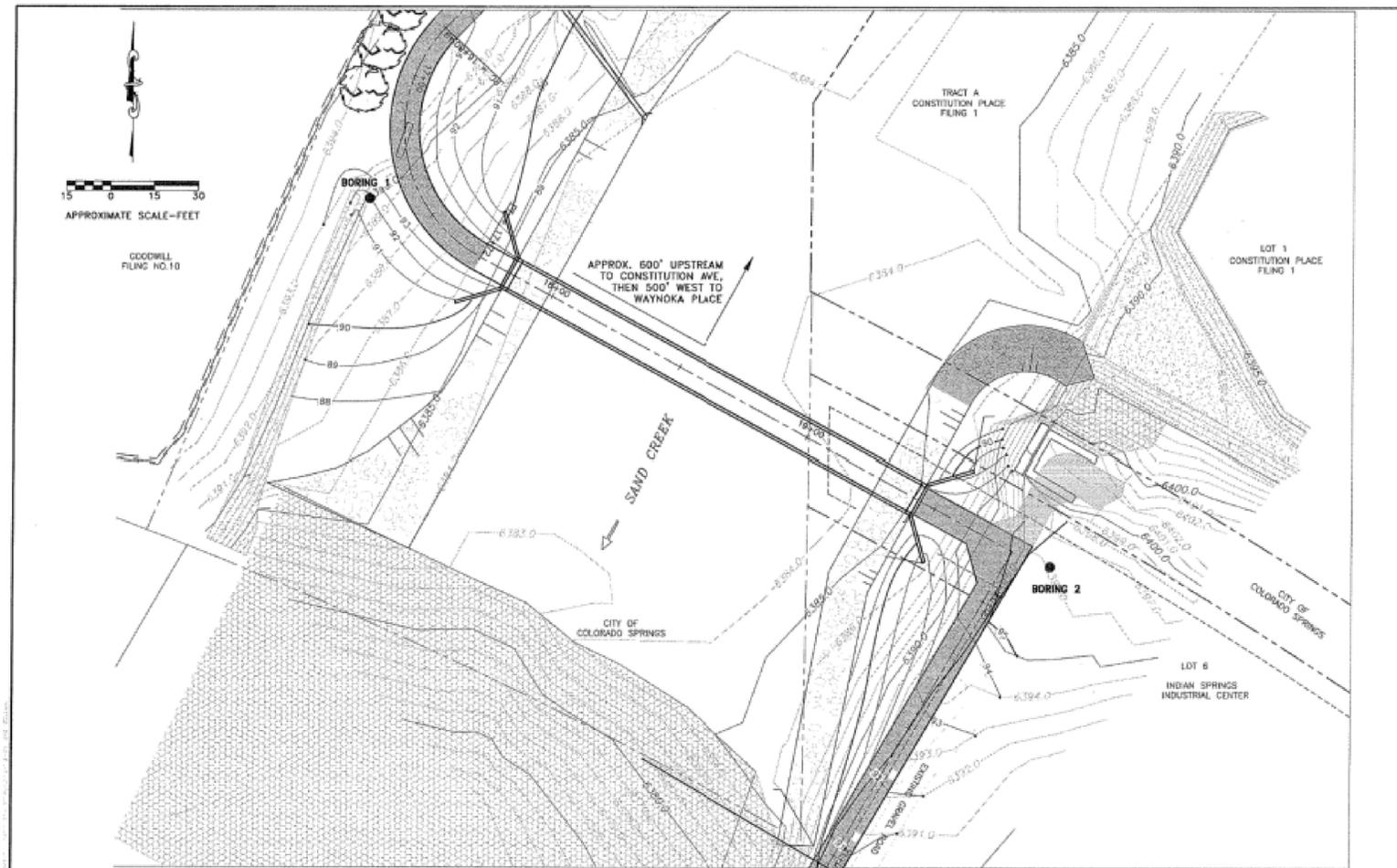
Date: 05/08/2025

Kiowa Proj. No. 16028

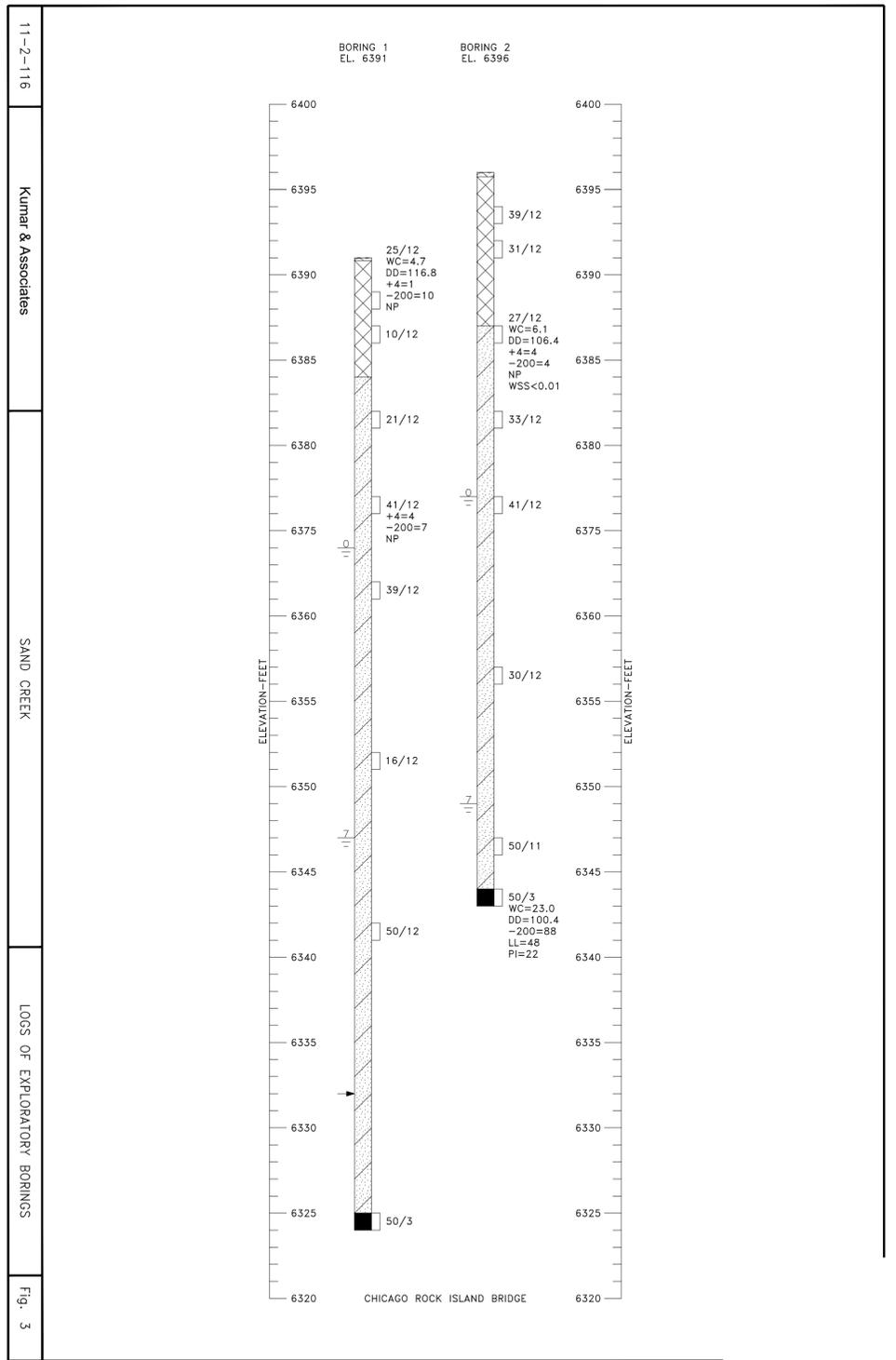
TAP M240-162

SubAcct No. 20391

Sheet Number C200



11-2-116 Kumar & Associates CHICAGO ROCK ISLAND BRIDGE LOCATION OF EXPLORATORY BORINGS Fig. 1



11-2-116 Kumar & Associates SAND CREEK LOSS OF EXPLORATORY BORINGS Fig. 3

SOILS BORINGS FOR BORING LEGEND SEE SHEET C200



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| ROCK ISLAND TRAIL Sand Creek to Constitution Avenue Pedestrian Bridge Boring Log | |
|--|------------------|
| Designer: TAC | Date: 05/08/2025 |
| Detailer: JDC/TEG | |

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| Kiowa Proj. No. 16028 |
| TAP M240-162 |
| SubAcct No. 20391 |
| Sheet Number C201 |

For and on Behalf of
Kiowa Engineering Corporation Date

RECURRENCE INTERVAL IN YEARS

SOURCE: FINAL AS-BUILT
HYDROLOGY SAND CREEK
DETENTION BASIN NO. 1
PREPARED BY KIOWA ENGINEERING

CHANNEL DESCRIPTION

BOTTOM MATERIAL - COHESIVE NON-COHESIVE
 BOTTOM MATERIAL SIZE - CLAY SILT SAND
 GRAVEL COBBLES OTHER
 STREAM FORM - STRAIGHT MEANDERING BRAIDED
 MANNINGS 'n' FOR DESIGN - CHANNEL .03 OVERBANK .04
 DEBRIS - BRUSH TREES/LOGS ICE OTHER

COMPARISON OF HYDRAULICS (100-YEAR)

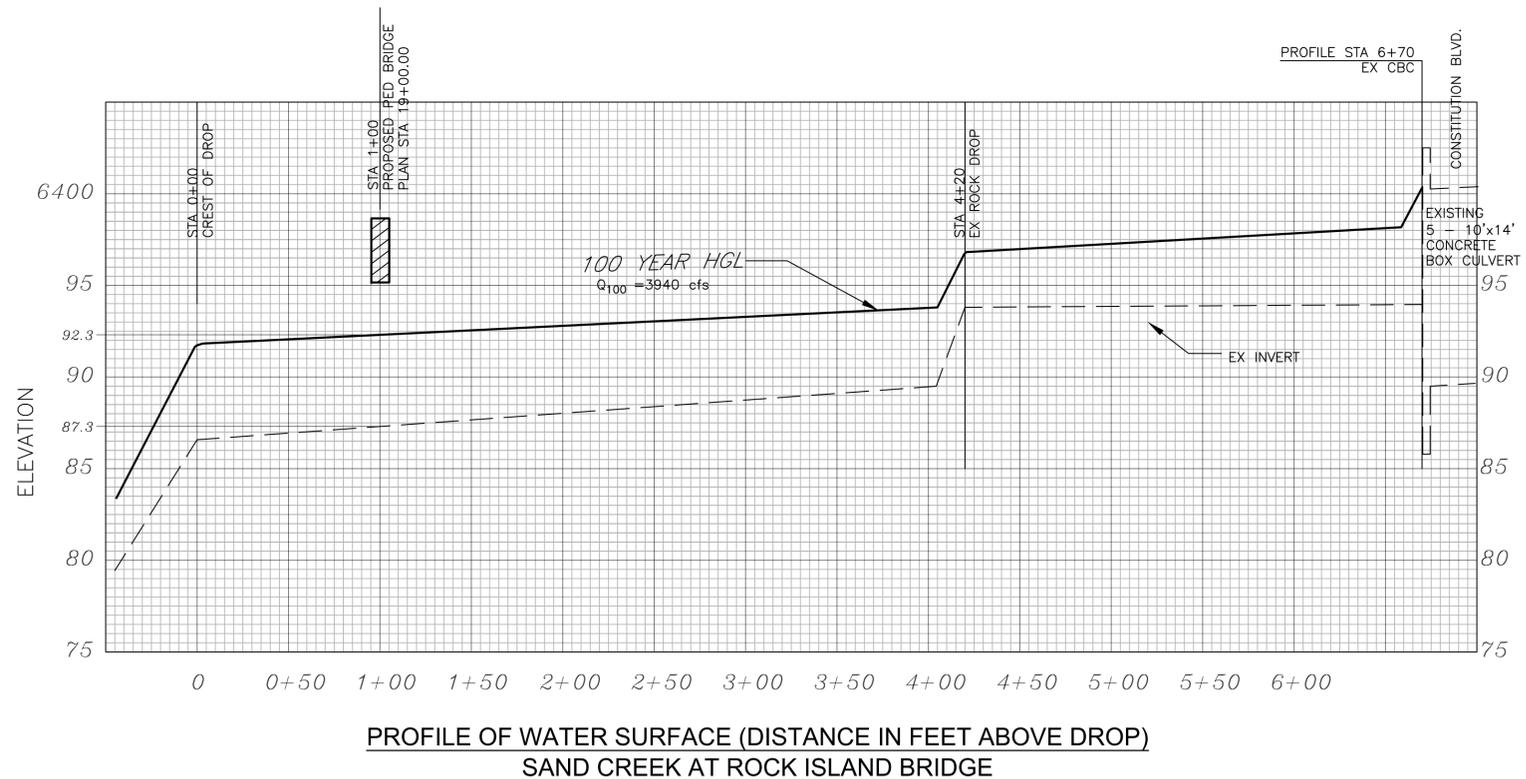
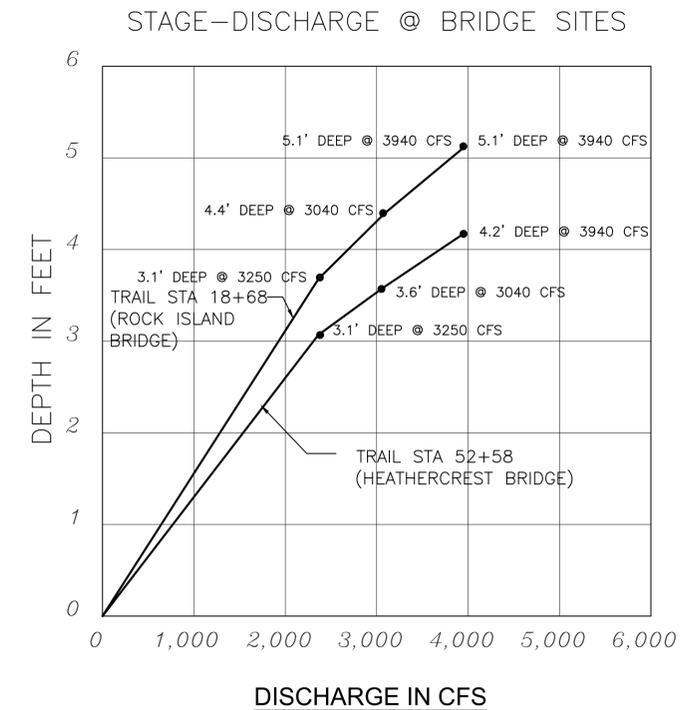
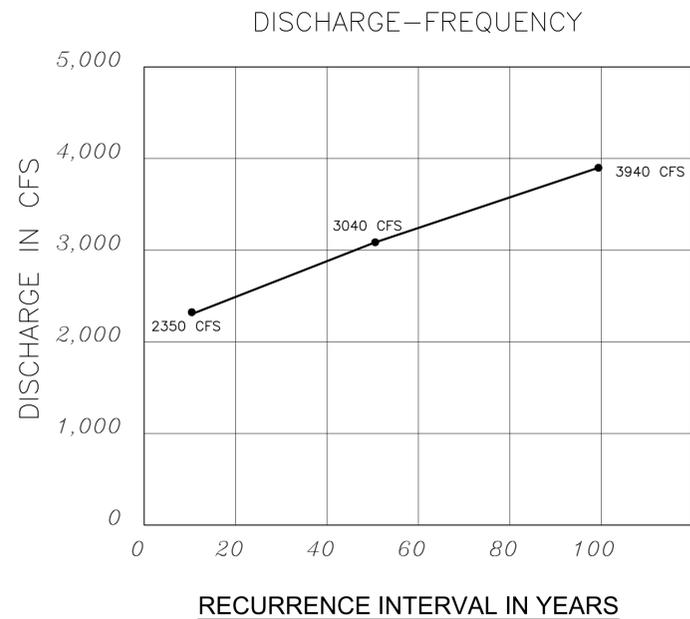
VELOCITY FREEBOARD MAX. BACKWATER

CHICAGO ROCK ISLAND BRIDGE

① EXISTING 6.2 3.2 0.0 ft
 ② PROPOSED 6.5 2.5 0.0 ft

COMMENTS

- (1) DISTANCE TO LOW STEEL OF BRIDGE.
- (2) CURRENT RBD 100 WSE IS 6392.3 BASED ON ALTERNATE DATUM.
- (3) ELEVATIONS SHOWN ON THIS PAGE ARE NAVD 88.



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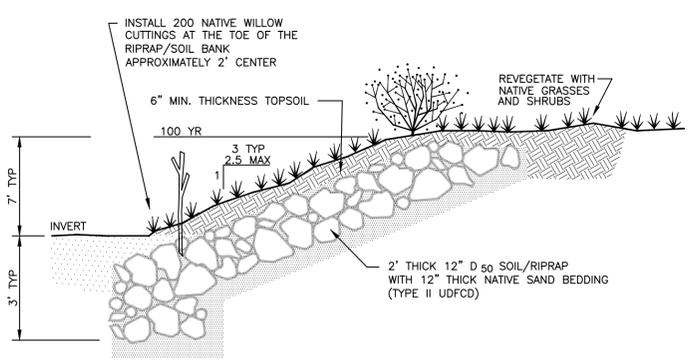
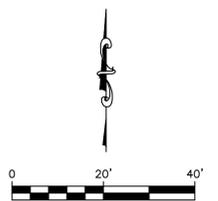


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| ROCK ISLAND TRAIL Sand Creek to Constitution Avenue Pedestrian Bridge Hydraulics | |
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| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

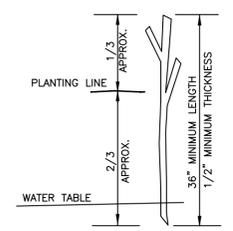
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| Kiowa Proj. No. 16028 |
| TAP M240-162 |
| SubAcct No. 20391 |
| Sheet Number C202 |

NOTE:
ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D.
UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE
POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A)
PRIOR TO EXCAVATION.



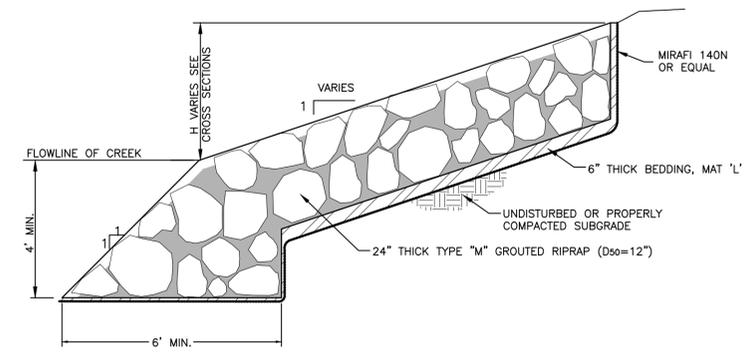
A RIPRAP & SOIL BANK LINING DETAIL
C203 NOT TO SCALE

PLANTING SCHEDULE
*Salix exigua** sandbar willow 200 2' O.C.
 *3/8" LIVE WILLOW STAKES, HARVESTED LOCALLY, AND TO BE INSTALLED PER DETAIL.

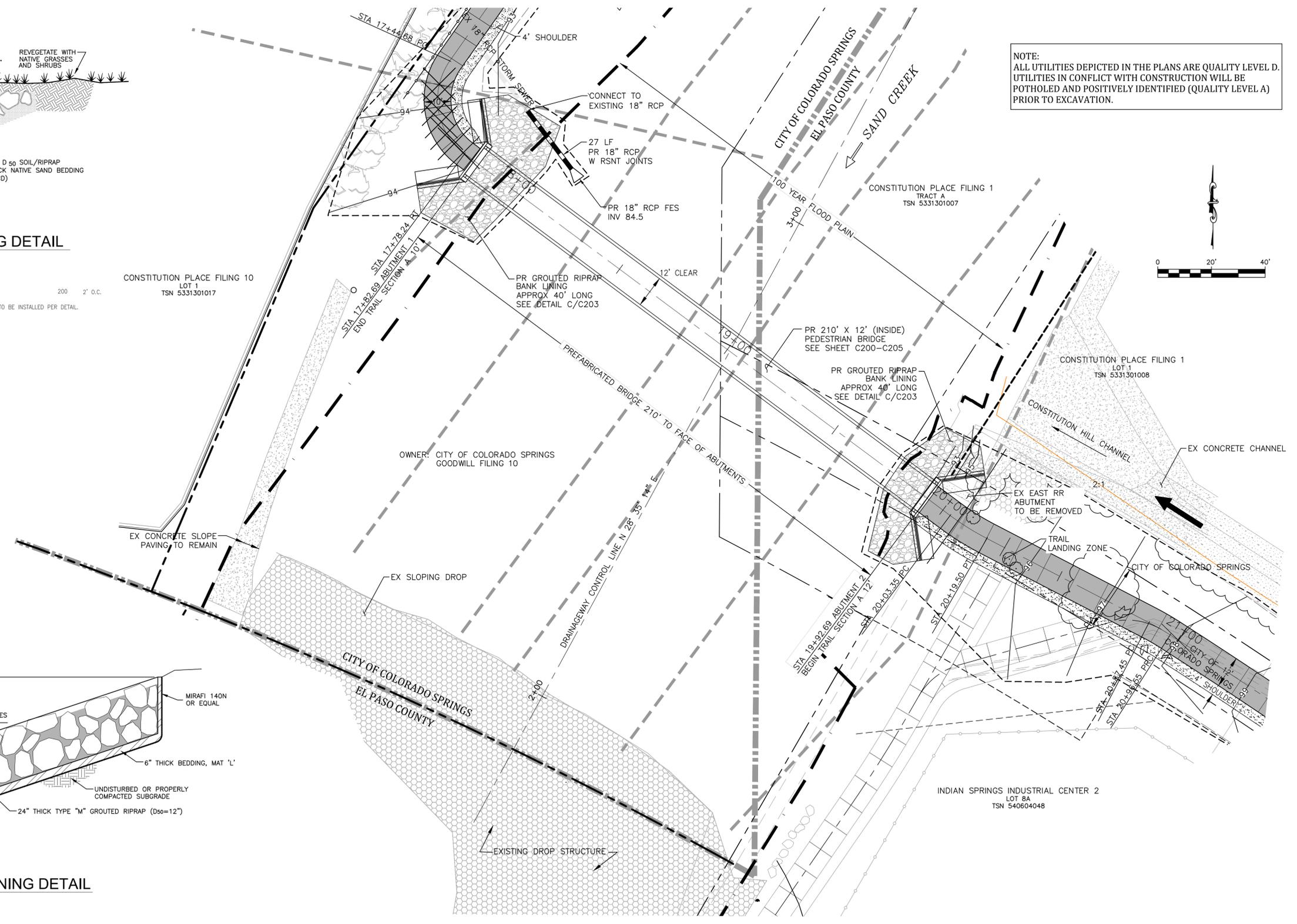


B WILLOW CUTTING DETAIL
C203 NATIVE SANDBAR WILLOW STAKE
SALIX EXIGUA

PROTECT LIVE WILLOW STAKES FROM DAMAGE DURING INSTALLATION. EITHER USE PRY BAR OR PROBE TO MAKE OPENING BETWEEN ROCKS OR USE TUBING TO PROVIDE OPENINGS. REMOVE TUBING AND TAMP NATIVE SOIL TO ELIMINATE VOIDS AROUND STEM. PLANT GROWTH END UP.



C GROUTED RIPRAP BANK LINING DETAIL
C203 NOT TO SCALE



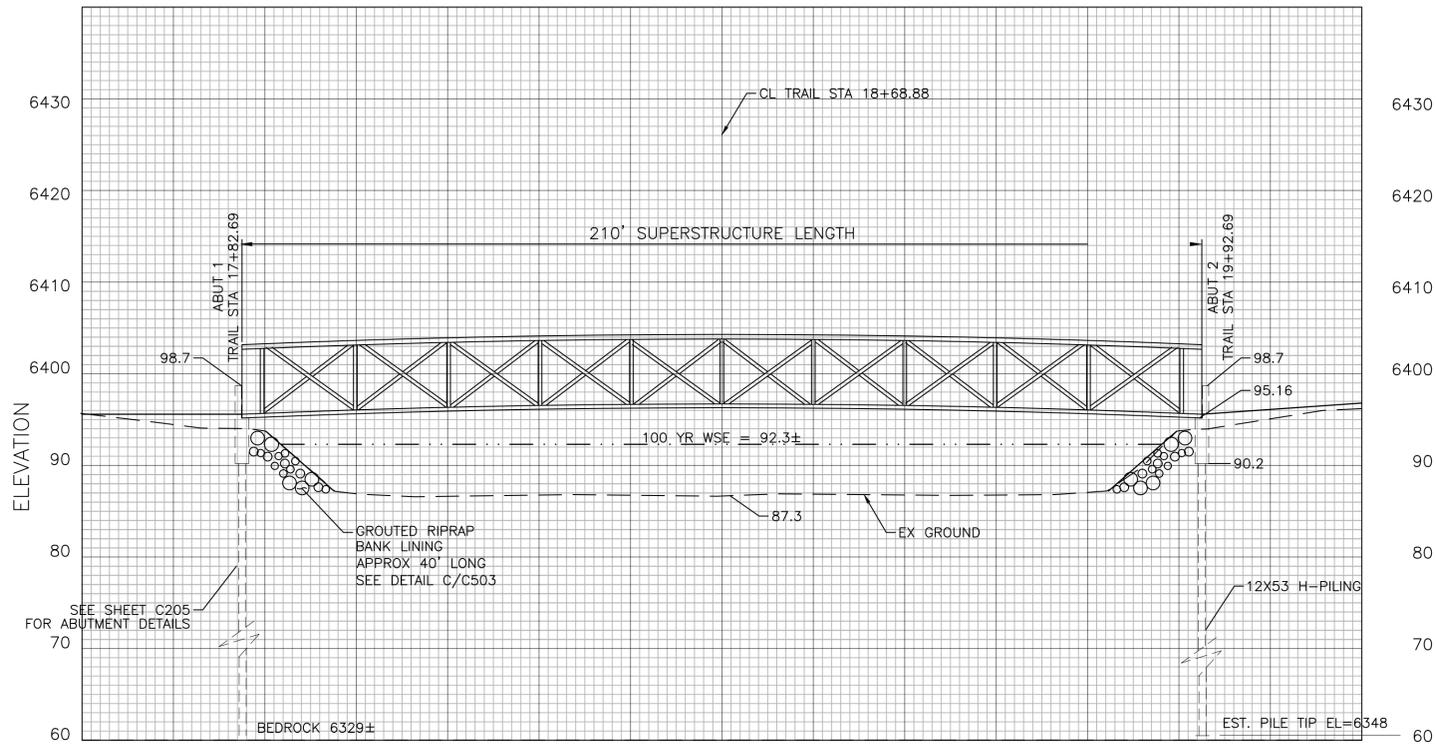
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| ROCK ISLAND TRAIL | |
| Sand Creek to Constitution Avenue | |
| Pedestrian Bridge Layout & Grading Plan | |
| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

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| Kiowa Proj. No. 16028 |
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| SubAcct No. 20391 |
| Sheet Number C203 |



CHICAGO, ROCK ISLAND & PACIFIC PEDESTRIAN BRIDGE
LONGITUDINAL SECTION LOOKING NORTHEAST
 SCALE: 1" = 20' (H) & 1" = 10' (V)

NOTES:

1. ELEVATIONS SHOWN ARE IN NAVD 88.
2. PAY ITEM 628 SHALL INCLUDE THE INSTALLATION OF HE BRIDGE GIRDER, DECK UNIT, BEARING PLATES AND BEARING PADS. FABRICATION AND DELIVERY OF THE BRIDGE, DECK UNIT, BEARING LATE AND BEARING PADS SHALL BE PROVIDED BY THE CITY OF COLORADO SPRINGS.



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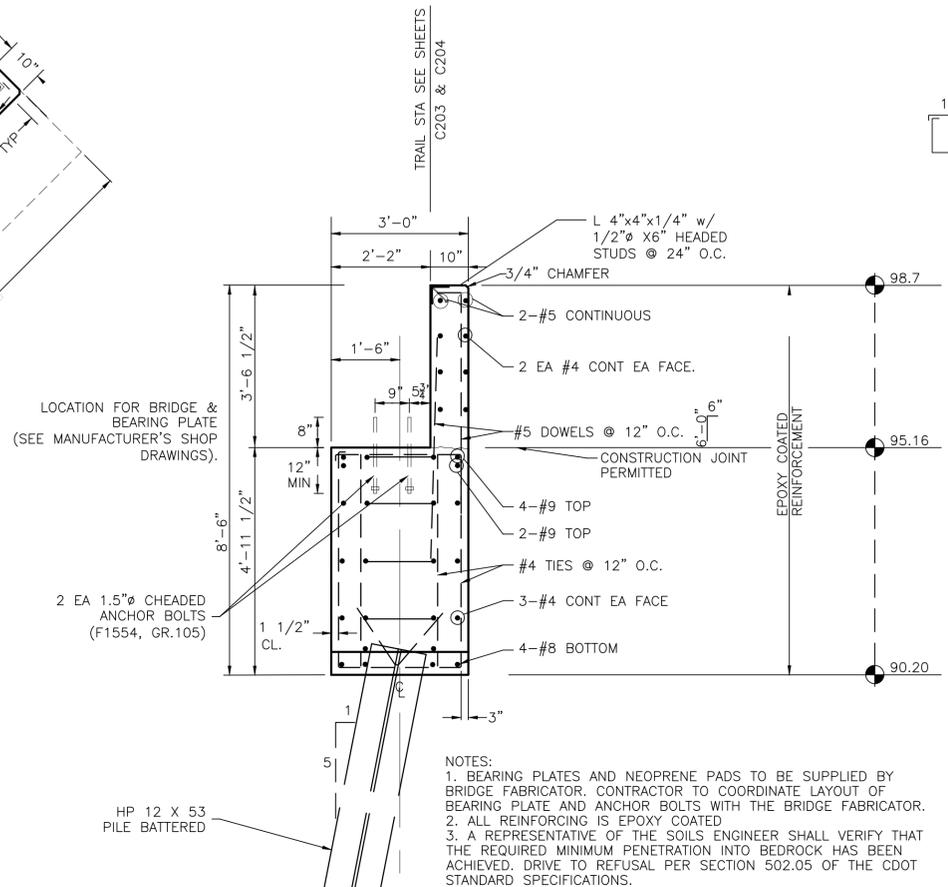
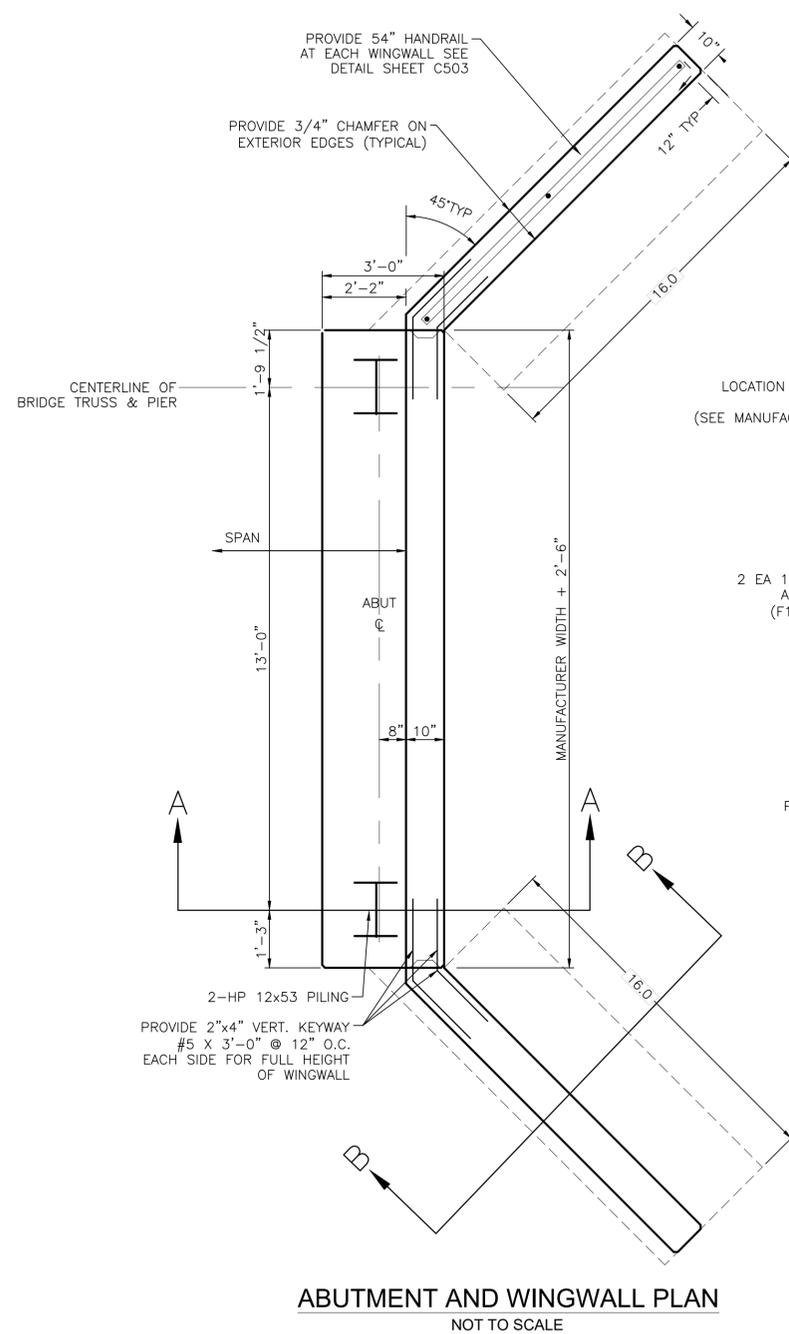
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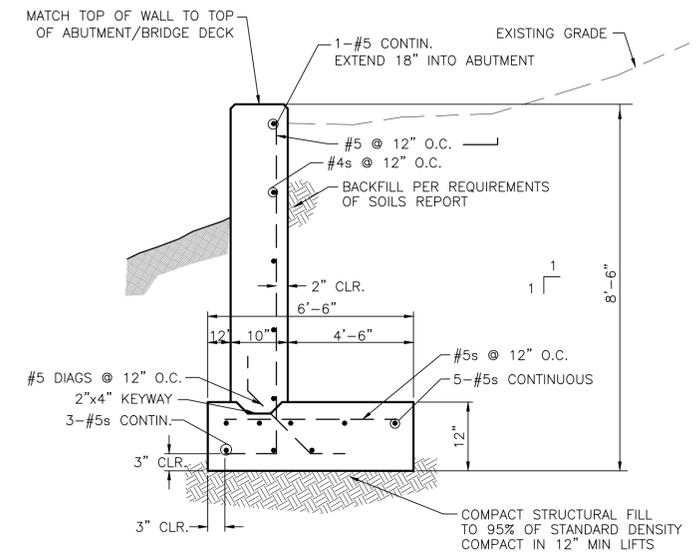
ROCK ISLAND TRAIL
 Sand Creek to Constitution Avenue
 Pedestrian Bridge Section

Designer: TAC
 Detailer: JDC/TEG
 Date: 05/08/2025

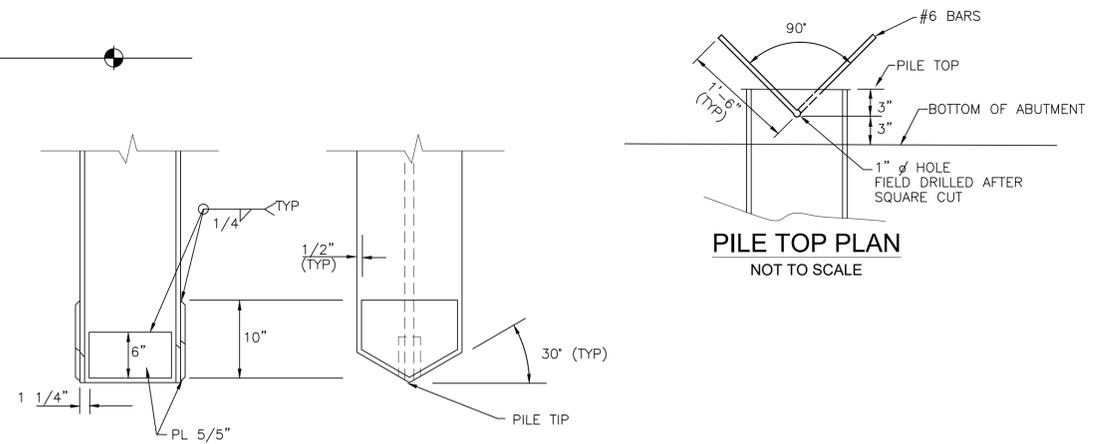
Kiowa Proj. No. 16028
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 SubAcct No. 20391
 Sheet Number C204



NOTES:
 1. BEARING PLATES AND NEOPRENE PADS TO BE SUPPLIED BY BRIDGE FABRICATOR. CONTRACTOR TO COORDINATE LAYOUT OF BEARING PLATE AND ANCHOR BOLTS WITH THE BRIDGE FABRICATOR.
 2. ALL REINFORCING IS EPOXY COATED
 3. A REPRESENTATIVE OF THE SOILS ENGINEER SHALL VERIFY THAT THE REQUIRED MINIMUM PENETRATION INTO BEDROCK HAS BEEN ACHIEVED. DRIVE TO REFUSAL PER SECTION 502.05 OF THE CDOT STANDARD SPECIFICATIONS.



SECTION BB WINGWALLS
NOT TO SCALE



PILE TIP DETAIL
NOT TO SCALE

AN APPROVED COMMERCIAL PILE TIP MAY BE USED

NOTES:
 1. ELEVATIONS SHOWN ON THIS PAGE ARE NAVD 88.



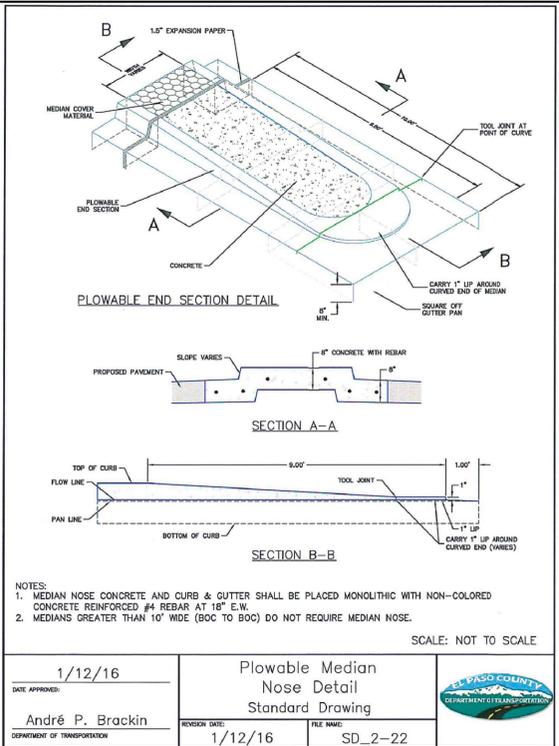
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| ROCK ISLAND TRAIL Sand Creek to Constitution Avenue Pedestrian Bridge Abutment Details | |
| Designer: TAC | |
| Detailer: JDC/TEG | |
| Date: 05/08/2025 | |

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| Kiowa Proj. No. 16028 |
| TAP M240-162 |
| SubAcct No. 20391 |
| Sheet Number C205 |

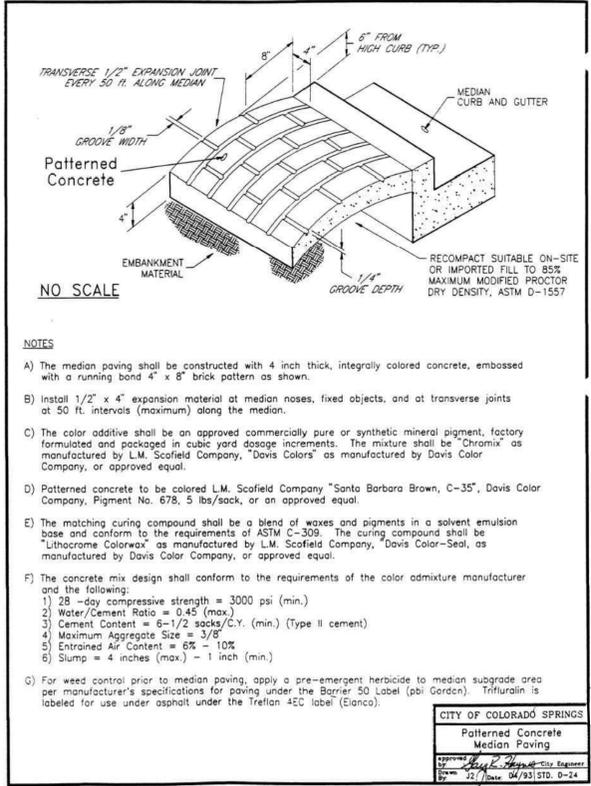


NOTES:
 1. MEDIAN NOSE CONCRETE AND CURB & GUTTER SHALL BE PLACED MONOLITHIC WITH NON-COLORED CONCRETE REINFORCED #4 REBAR AT 18\"/>

| | | | |
|---------------------------|----------------------------------|---------------------------|-----------------------|
| DATE APPROVED: 1/12/16 | DESIGNED BY: André P. Brackin | REVISION DATE: 1/12/16 | FILE NAME: SD_2-22 |
|---------------------------|----------------------------------|---------------------------|-----------------------|

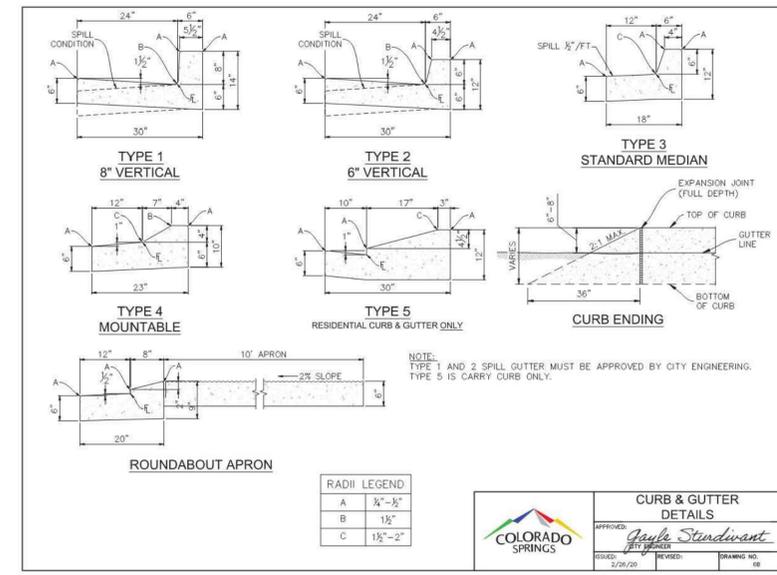
SCALE: NOT TO SCALE

MEDIAN DETAIL



- NOTES
- The median paving shall be constructed with 4 inch thick, integrally colored concrete, embossed with a running bond 4\"/>
 - Install 1/2\"/>
 - The color additive shall be an approved commercially pure or synthetic mineral pigment, factory formulated and packaged in cubic yard dosage increments. The mixture shall be "Chromix" as manufactured by L.M. Scofield Company, "Davis Colors" as manufactured by Davis Color Company, or approved equal.
 - Patterned concrete to be colored L.M. Scofield Company "Santa Barbara Brown, C-35", Davis Color Company, Pigment No. 678, 5 lbs./sack, or an approved equal.
 - The matching curing compound shall be a blend of waxes and pigments in a solvent emulsion base and conform to the requirements of ASTM C-309. The curing compound shall be "Lithochrome Colorwax" as manufactured by L.M. Scofield Company, "Davis Color-Seal", as manufactured by Davis Color Company, or approved equal.
 - The concrete mix design shall conform to the requirements of the color admixture manufacturer and the following:
 - 28-day compressive strength = 3000 psi (min.)
 - Water/Cement Ratio = 0.45 (max.)
 - Cement Content = 6-1/2 sacks/C.Y. (min.) (Type II cement)
 - Maximum Aggregate Size = 3/8"
 - Entrained Air Content = 6% - 10%
 - Slump = 4 inches (max.) - 1 inch (min.)
 - For weed control prior to median paving, apply a pre-emergent herbicide to median subgrade area per manufacturer's specifications for paving under the Barrier 50 Label (pbi Gordon). Trifluralin is labeled for use under asphalt under the Treflan 45C label (Eianco).

MEDIAN DETAIL



RADII LEGEND

| | |
|---|-------------|
| A | 3/4\"-3/2\" |
| B | 1 1/2\" |
| C | 1 1/2\"-2\" |

CURB & GUTTER DETAILS

APPROVED: *Jayla Steward*

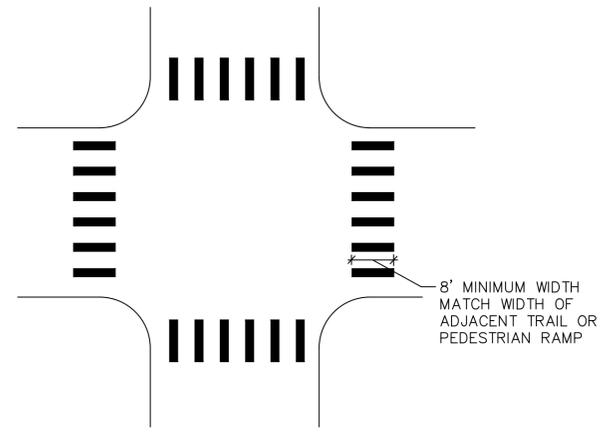
DESIGNED BY: *Jayla Steward*

ISSUED: 3/28/2019

REVISIONS:

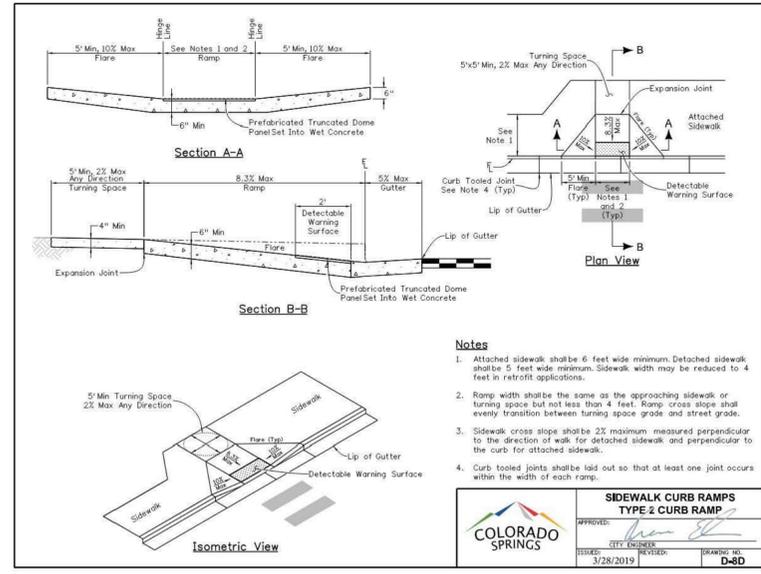
DRAWING NO. 08

STANDARD CURB AND GUTTER



CROSSWALK MARKING DETAIL

- NOTES:
 CENTER CROSSWALK MARKINGS ON PEDESTRIAN RAMPS. CROSSWALK MARKINGS SHALL BE 24\"/>



NOTES

- Attached sidewalk shall be 6 feet wide minimum. Detached sidewalk shall be 5 feet wide minimum. Sidewalk width may be reduced to 4 feet in retrofit applications.
- Ramp width shall be the same as the approaching sidewalk or turning space but not less than 4 feet. Ramp cross slope shall evenly transition between turning space grade and street grade.
- Sidewalk cross slope shall be 2% maximum measured perpendicular to the direction of walk for detached sidewalk and perpendicular to the curb for attached sidewalk.
- Curb tooled joints shall be laid out so that at least one joint occurs within the width of each ramp.

SIDEWALK CURB RAMPS
 TYPE 2 CURB RAMP

APPROVED: *[Signature]*

DESIGNED BY: *[Signature]*

ISSUED: 3/28/2019

REVISIONS:

DRAWING NO. D-8D

EPC STANDARD RAMP DETAIL



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ROCK ISLAND TRAIL
 Sand Creek to Constitution Avenue
 STANDARD DETAILS

Designer: TAC
 Detailer: JDC/TEG
 Date: 05/08/2025

Kiowa Proj. No. 16028
 TAP M240-162
 SubAcct No. 20391
 Sheet Number C501

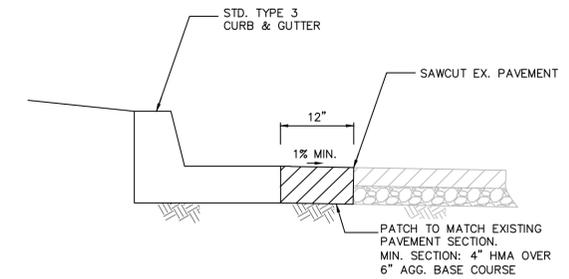
SOIL RIPRAP

THE SOIL MATERIAL SHALL BE NATIVE OR TOPSOIL AND MIXED WITH SIXTY FIVE PERCENT (65%) RIPRAP AND THIRTY FIVE PERCENT (35%) SOIL BY VOLUME.
 SOIL RIPRAP SHALL CONSIST OF A UNIFORM MIXTURE OF SOIL AND RIPRAP WITHOUT VOIDS.
 CONTRACTOR SHALL COOPERATE WITH ENGINEER IN OBTAINING AND PROVIDING SAMPLES OF ALL SPECIFIED MATERIALS.
 CONTRACTOR SHALL SUBMIT CERTIFIED LABORATORY TEST CERTIFICATES FOR ALL ITEMS REQUIRED FOR SOIL RIPRAP.
 RIPRAP USED SHALL BE THE TYPE DESIGNATED ON THE DRAWINGS AND SHALL CONFORM TO TABLE SHOWN TO THE RIGHT.
 THE RIPRAP DESIGNATION AND TOTAL THICKNESS OF RIPRAP SHALL BE AS SHOWN ON THE DRAWINGS. THE MAXIMUM STONE SIZE SHALL NOT LARGER THAN THE THICKNESS OF THE RIPRAP.
 NEITHER WIDTH NOR THICKNESS OF A SINGLE STONE OF RIPRAP SHALL BE LESS THAN ONE-THIRD (1/3) OF ITS LENGTH.
 THE SPECIFIC GRAVITY OF THE RIPRAP SHALL BE TWO AND ONE-HALF (2.5) OR GREATER.
 MINIMUM DENSITY FOR ACCEPTABLE RIPRAP SHALL BE ONE HUNDRED AND SIXTY FIVE (165) POUNDS PER CUBIC FOOT.
 RIPRAP SPECIFIC GRAVITY SHALL BE ACCORDING TO THE BULK-SATURATED, SURFACE-DRY BASIS, IN ACCORDANCE WITH AASHTO T85.
 THE RIPRAP SHALL HAVE A PERCENTAGE LOSS OF NOT MORE THAN FORTY PERCENT (40%) AFTER FIVE HUNDRED (500) REVOLUTIONS WHEN TESTED IN ACCORDANCE WITH AASHTO T96.
 THE RIPRAP SHALL HAVE A PERCENTAGE LOSS OF NOT MORE THAN TEN (10%) AFTER FIVE (5) CYCLES WHEN TESTED IN ACCORDANCE WITH AASHTO T104 FOR LEDGE ROCK USING SODIUM SULFATE.
 THE RIPRAP SHALL HAVE A PERCENTAGE LOSS OF NOT MORE THAN TEN PERCENT (10%) AFTER TWELVE (12) CYCLES OF FREEZING AND THAWING WHEN TESTED IN ACCORDANCE WITH AASHTO T103 FOR LEDGE ROCK, PROCEDURE A. ROCK SHALL BE FREE FROM CALCITE INTRUSIONS.
 RUBBLE FOR USE AS SOIL/RIPRAP SHALL BE GRADED TO MEET THE EQUIVALENT ROCK RIPRAP GRADATION. RUBBLE PROPOSED FOR USE IN PLACE OF ROCK RIPRAP SHALL BE STOCKPILED FOR OBSERVATION BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE WORK.
GRADATION:
 A. EACH LOAD OF RIPRAP SHALL BE REASONABLY WELL GRADED FROM THE SMALLEST TO THE LARGEST SIZE SPECIFIED.
 B. STONES SMALLER THAN THE TWO TO TEN PERCENT (2%-10%) SIZE WILL NOT BE PERMITTED IN AN AMOUNT EXCEEDING TEN PERCENT (10%) BY WEIGHT OF EACH LOAD.
 C. CONTROL OF GRADATION SHALL BE BY VISUAL INSPECTION. HOWEVER IN THE EVENT THE ENGINEER DETERMINES THE RIPRAP TO BE UNACCEPTABLE, THE ENGINEER SHALL PICK TWO (2) RANDOM TRUCKLOADS TO BE DUMPED AND CHECKED FOR GRADATION.
 1) MECHANICAL EQUIPMENT AND LABOR NEEDED TO ASSIST IN CHECKING GRADATION SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST.
 BROKEN ASPHALT PAVEMENT SHALL NOT BE ACCEPTABLE FOR USE IN THE WORK.
 ROUNDED RIPRAP (RIVER ROCK) IS NOT ACCEPTABLE, UNLESS SPECIFICALLY DESIGNATED ON THE DRAWINGS.

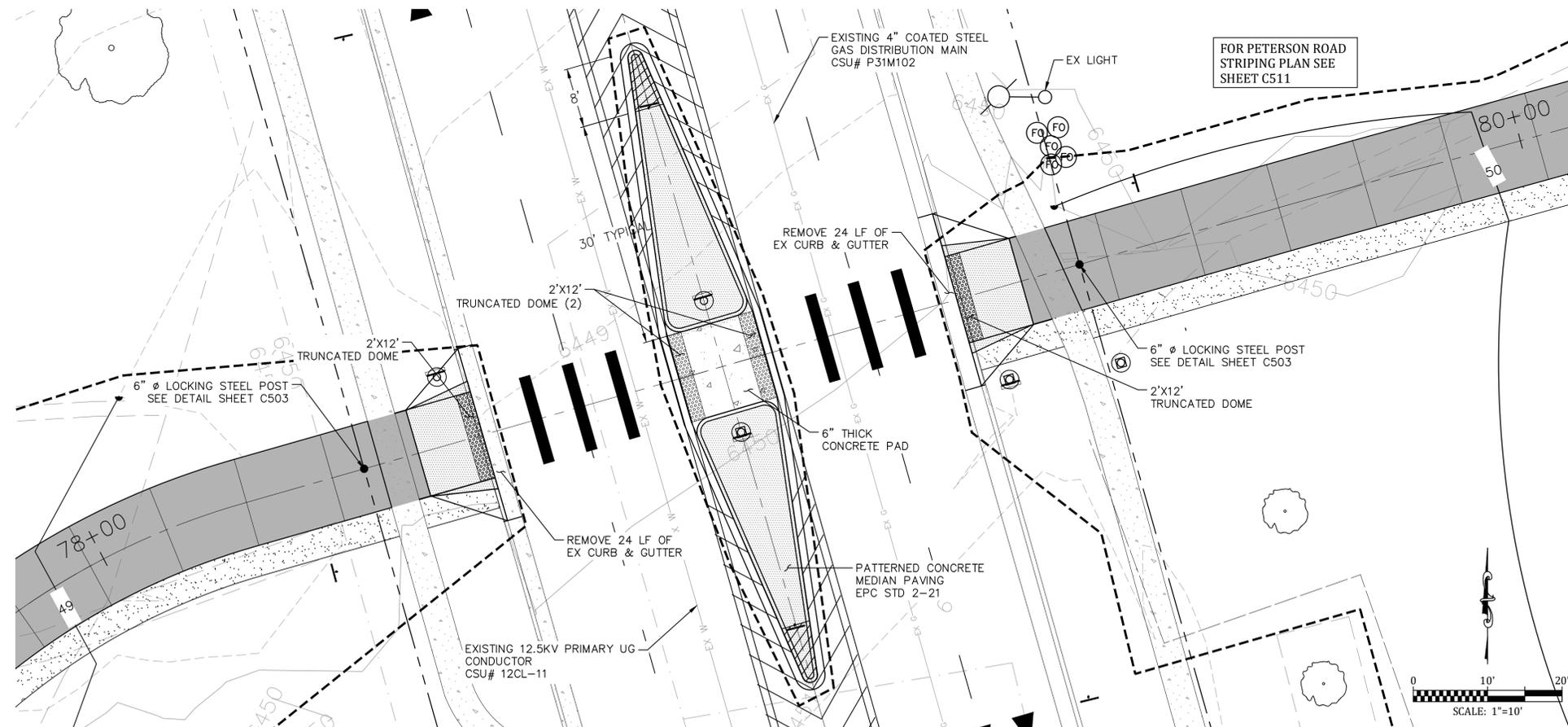
CLASSIFICATION AND GRADATION OF RIPRAP

| RIPRAP DESIGNATION | % SMALLER THAN GIVEN SIZE BY WEIGHT | INTERMEDIATE ROCK DIMENSION (INCHES) | d50* (INCHES) |
|--------------------|-------------------------------------|--------------------------------------|---------------|
| TYPE VL | 70-100 | 12 | 6** |
| | 50-70 | 9 | |
| | 35-50 | 6 | |
| | 2-10 | 2 | |
| TYPE L | 70-100 | 15 | 9** |
| | 50-70 | 12 | |
| | 35-50 | 9 | |
| | 2-10 | 3 | |
| TYPE M | 70-100 | 21 | 12** |
| | 50-70 | 18 | |
| | 35-50 | 12 | |
| | 2-10 | 4 | |
| TYPE H | 100 | 30 | 18 |
| | 50-70 | 24 | |
| | 35-50 | 18 | |
| | 2-10 | 6 | |
| TYPE VH | 100 | 42 | 24 |
| | 50-70 | 33 | |
| | 35-50 | 24 | |
| | 2-10 | 9 | |

* d50=MEAN PARTICLE SIZE (INTERMEDIATE DIMENSION) BY WEIGHT.
 ** MIX VL, L AND M RIPRAP WITH 35% TOPSOIL (BY VOLUME) AND BURY WITH 4-6 INCHES OF TOPSOIL, ALL VIBRATION COMPACTED & REVEGETATE.
 (TABLE MD-7: CLASSIFICATION AND GRADATION OF ORDINARY RIPRAP. UDFCD, DRAINAGE CRITERIA MANUAL, VOL. 1)



1 REFUGE ISLAND CURB CUT
 NOT TO SCALE



2 REFUGE ISLAND PLAN
 SCALE: 1" = 10'

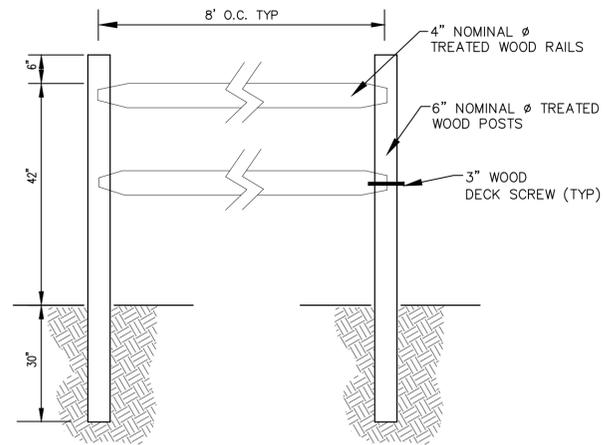


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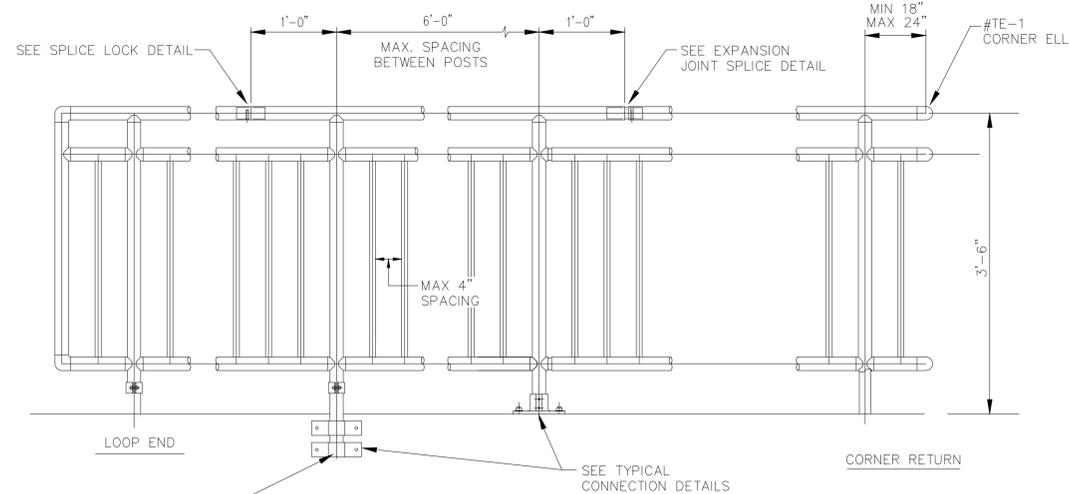
| Sheet Revisions | IFC |
|-----------------|---------------|
| | No Revisions: |
| | Revised: |
| | Void: |

ROCK ISLAND TRAIL
 Sand Creek to Constitution Avenue
 TYPICAL MISCELLANEOUS DETAILS
 Designer: TAC
 Detailer: JDC/TEG
 Date: 05/08/2025

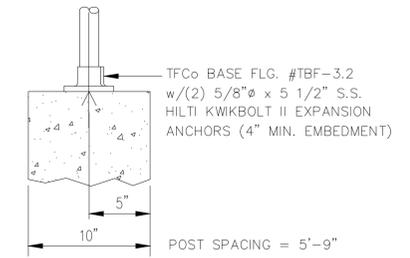
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 Sheet Number C502



A FENCE WOOD SMOOTH DOWEL
C503 NOT TO SCALE



C1 HANDRAIL STEEL
C503 NOT TO SCALE

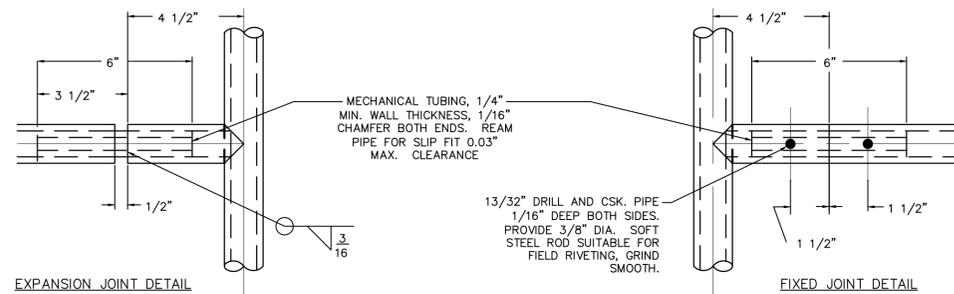


TYPICAL TOP MOUNT CONNECTION TO CONCRETE WALL

C2 STEEL HANDRAIL CONNECTION DETAIL
C503 NOT TO SCALE

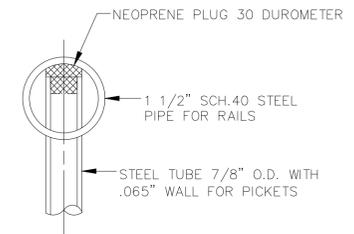
- NOTES:
 1. HANDRAIL SHALL BE TOP MOUNTED OR SIDE MOUNTED.
 2. 2 HANDRAILS SHALL BE PAINTED OXFORD BROWN OR EQUIVALENT APPROVED BY PM, POWDER COATED.

2-12 GA BRACKETS
W/ 4-5/8" X 4"
SCREW ANCHORS

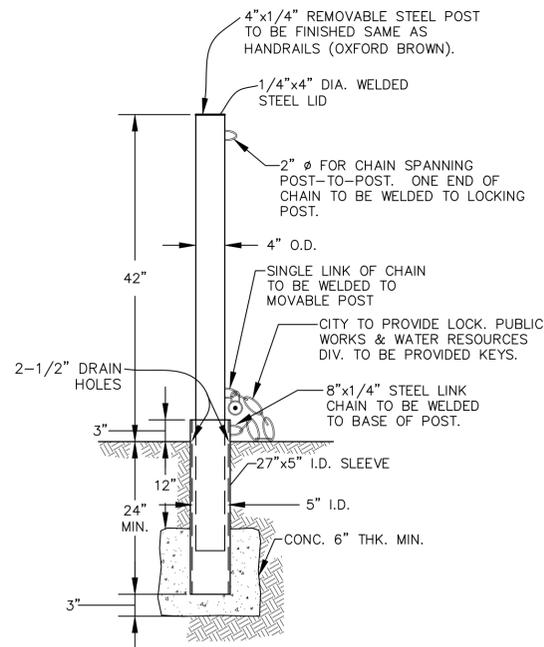


C3 STEEL HANDRAIL JOINT DETAIL
C503 NOT TO SCALE

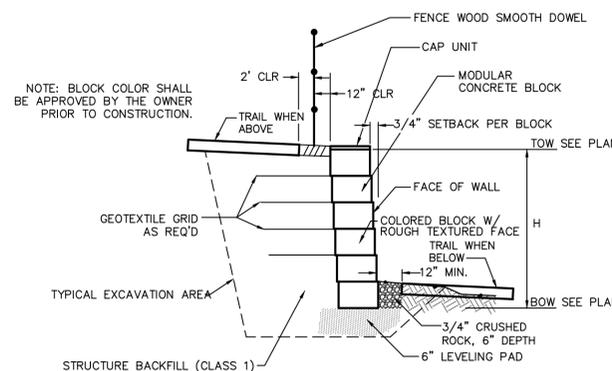
- NOTES:
 1. EXPANSION JOINTS SHALL BE A MAXIMUM OF 20' APART.



C4 STEEL HAND RAIL CONNECTION
C503 NOT TO SCALE



B LOCKING STEEL POST DETAIL
C503 NOT TO SCALE



D CONCRETE BLOCK FACING MSE WALL CROSS SECTION
C503 NOT TO SCALE

- WALL NOTES:
 1. SHOP DRAWINGS DEPICTING THE DESIGN OF BLOCK WALL SHALL BE SUBMITTED TO ENGINEER PRIOR TO CONSTRUCTION PER THE PROJECT SPECIFICATIONS. DESIGN SHALL BE COMPLETED UNDER THE DIRECT SUPERVISION OF A PROPERLY REGISTERED PROFESSIONAL ENGINEER WITH THE STATE OF COLORADO. FINAL CONSTRUCTION DRAWINGS SHALL BEAR HIS/HER SEAL AND SIGNATURE.
 2. CONTRACTOR TO OBTAIN EPC-DPW ROAD CUT WORK PERMIT FOR WORK IN RIGHT-OF-WAY.
 3. CONTRACTOR TO SUPPLY TO EPC-DPW CONSTRUCTION TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WITH ANY WORK WITHIN THE PETERSON ROAD RIGHT-OF-WAY.

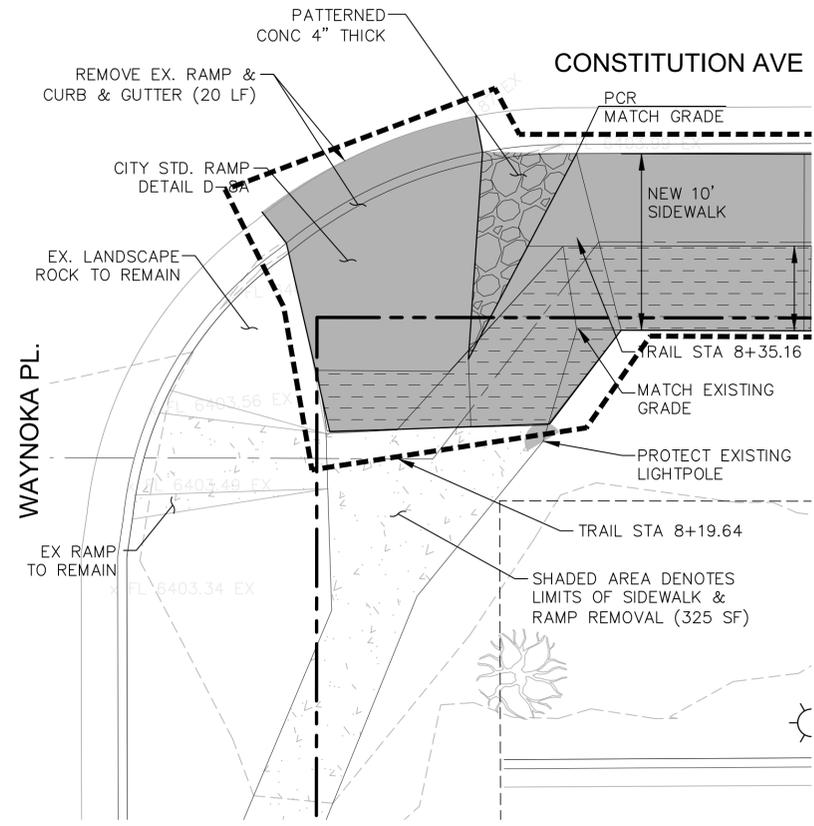


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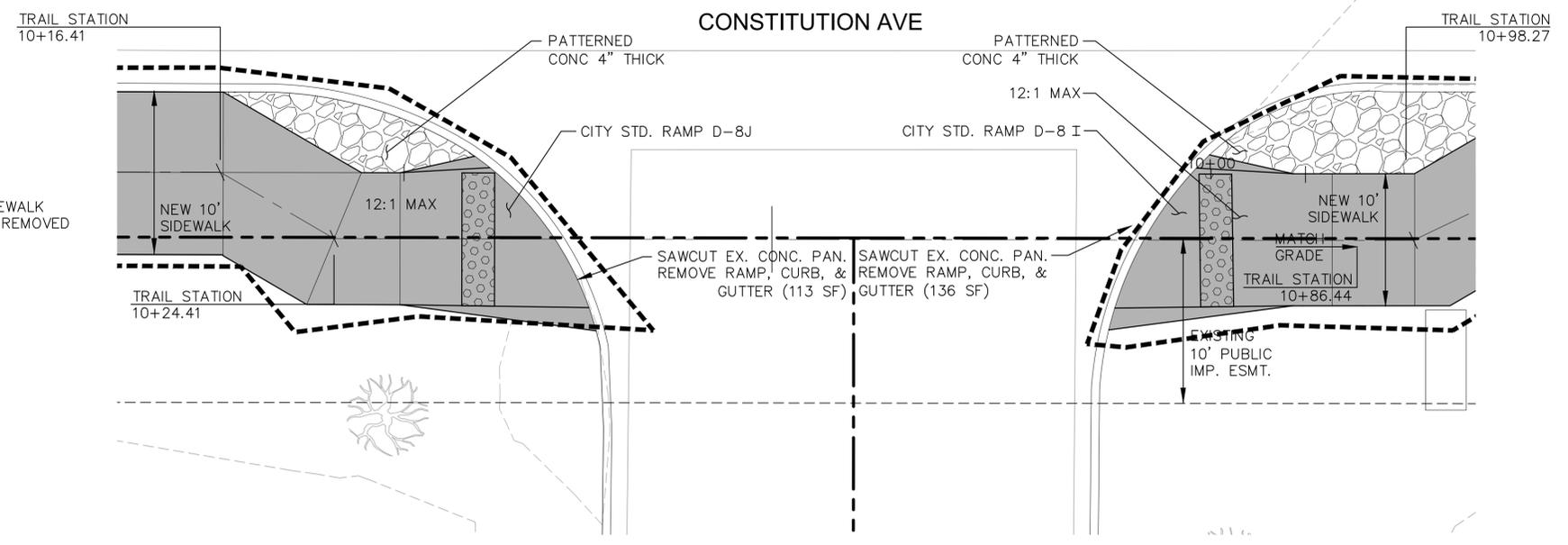
| Sheet Revisions | IFC |
|-----------------|---------------|
| | No Revisions: |
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ROCK ISLAND TRAIL
Sand Creek to Constitution Avenue
TYPICAL HANDRAIL & FENCE DETAILS
Designer: TAC
Detailer: JDC/TEG
Date: 05/08/2025

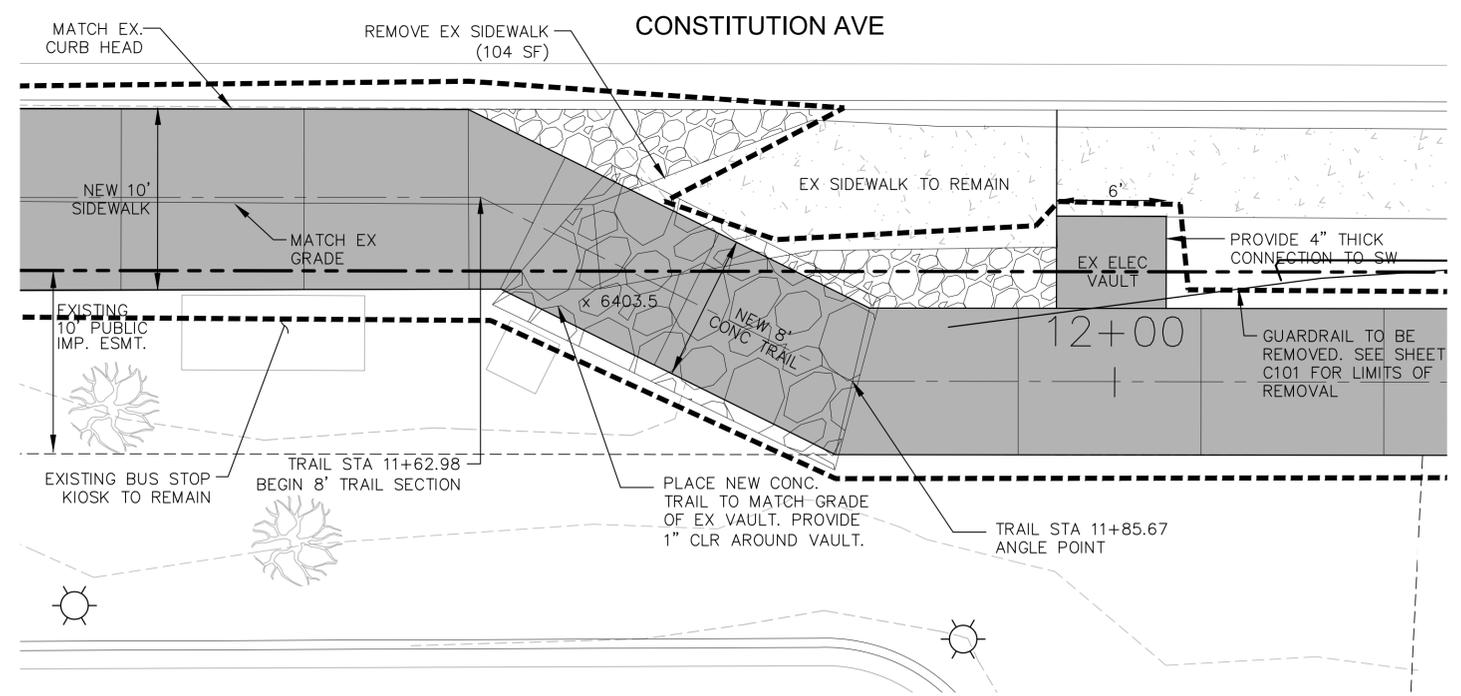
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DETAIL 1: STA 8+25
SCALE: 1" = 5'



DETAIL 2: STA 10+75
SCALE: 1" = 5'



DETAIL 3: STA 11+75
SCALE: 1" = 5'

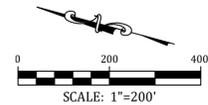
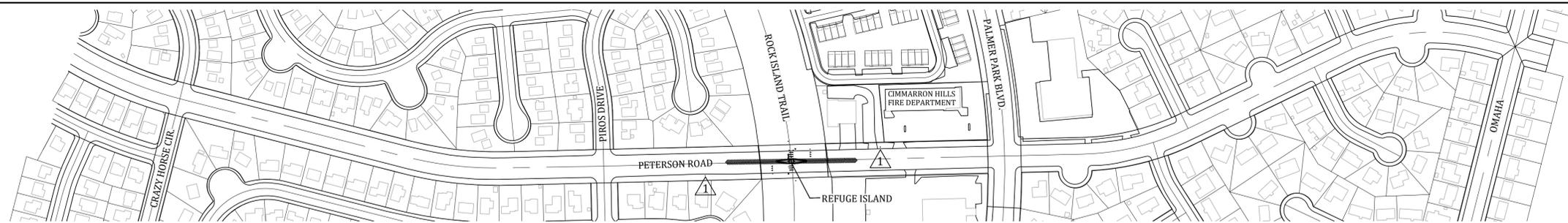


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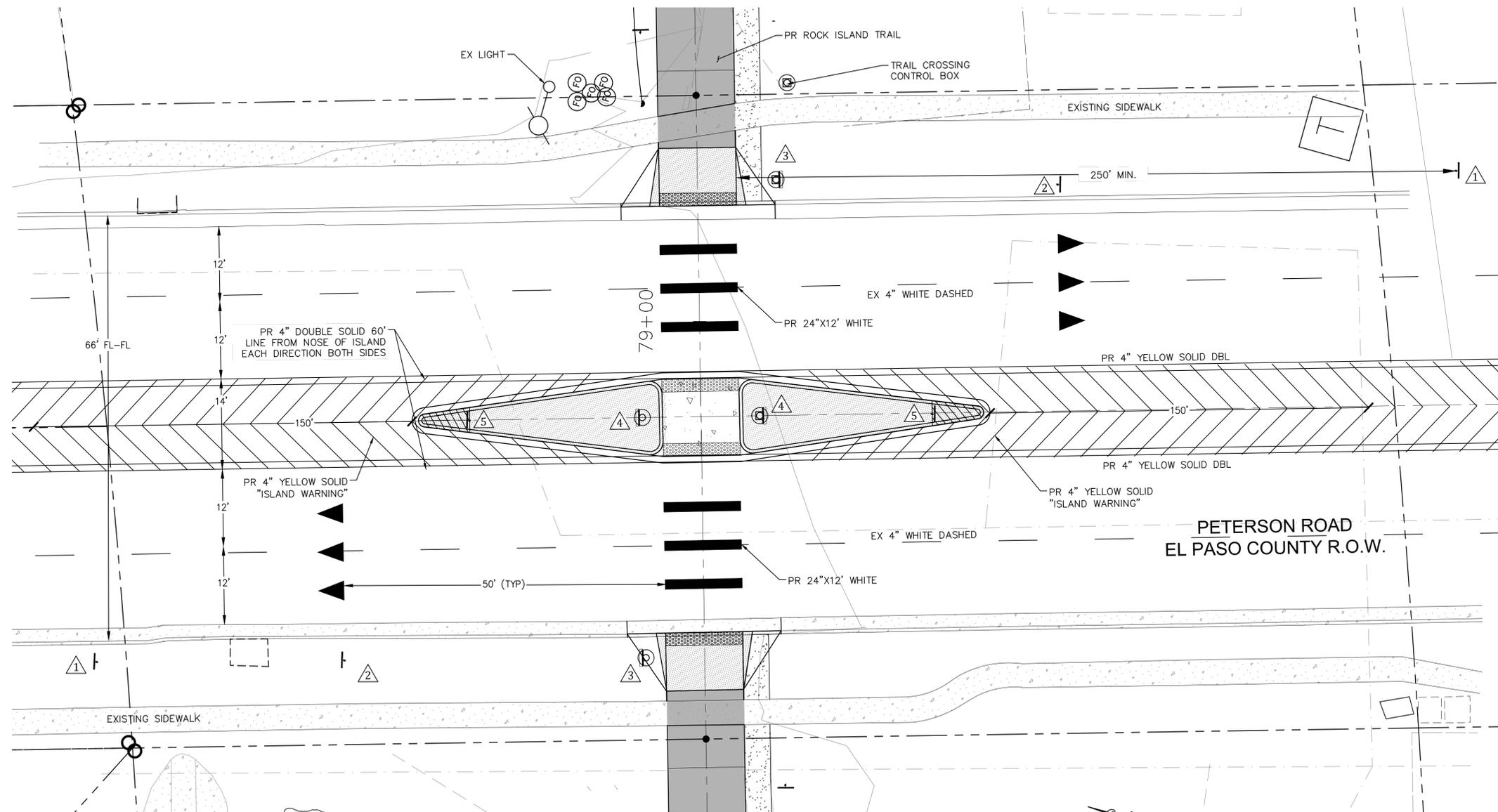
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| | Void: |

| ROCK ISLAND TRAIL Sand Creek to Constitution Avenue SITE SPECIFIC DETAILS | |
|---|------------|
| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

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PETERSON ROAD SIGNAGE PLAN



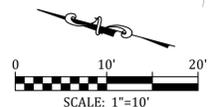
| TRAIL SIGNAGE | | |
|---------------|-----------------|---------|
| SIGNAGE | | # PANEL |
| 1 | STOP AHEAD | 2 |
| 2 | RIDERS DISMOUNT | 2 |

| TRAFFIC SIGNAGE | | |
|-----------------|-----------------------------|---------------------------------|
| SIGNAGE | | # PANEL |
| 1 | TRAIL CROSSING AHEAD | 2 W11-2 & X16-9P |
| 2 | YIELD HERE | 2 R1-5 |
| 3 | TRAIL CROSSING W L ARROW | 2 W11-15, W16-7P, RRFB & PAB |
| 4 | TRAIL CROSSING W R ARROW | 2 W11-2, W16-7P, RRFB & PAB |
| 5 | KEEP RIGHT | 2 OM-3L |

RRFB - RAPID RECTANGULAR FLASHING BEACONS
PAB - PEDESTRIAN ACTIVATED PUSH BUTTON

City to provide RRFB & PAB, Contractor to install.

REFUGE ISLAND SIGN & STRIPING PLAN



FOR ADDITIONAL REFUGE ISLAND SIGNAGE, SEE SHEET C111

PETERSON ROAD IS A MINOR ARTERIAL ROADWAY.



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| ROCK ISLAND TRAIL | |
| Sand Creek to Constitution Avenue | |
| SIGNAGE & STRIPING PLAN - PETERSON ROAD | |
| Designer: | TAC |
| Detailer: | JDC/TEG |
| Date: | 05/08/2025 |

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| Kiowa Proj. No. 16028 |
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| SubAcct No. 20391 |
| Sheet Number C511 |