

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

SHEET NO. INDEX OF SHEETS

C000	TITLE SHEET
C001	SUMMARY OF QUANTITIES
C002	GENERAL NOTES
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C116	ROCK ISLAND STA 97+70 TO STA 100+30
C117	ROCK ISLAND STA 100+30 TO STA 106+25
C121	TYPICAL STANDARD DETAILS
C122	TYPICAL MISCELLANEOUS DETAILS
C123	SIGNAGE & STRIPING PLAN – PETERSON ROAD

APPROVAL SIGNATURES			
TITLE	NAME	SIGNATURE	DATE
DIRECTOR, PARKS, REC. & CULT. SVS	BRITT HALEY	_____	_____
PARKS OPERATION & DEVELOPMENT MANAGER	JAY HEIN	_____	_____
CITY FORESTER	SCOTT ABBOTT	_____	_____
REG. SUPERVISOR, PARKS, TRAILS & OPEN SPACE	EMILY DUNCAN	_____	_____
CONSTRUCTION PROJECT MANAGER		_____	_____
COLORADO DEPARTMENT OF TRANSPORTATION		_____	_____
EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS	JENNIFER IRVINE, PE	_____	_____

STREET IMPROVEMENTS  
PLAN of the ROCK ISLAND MULTI-USE TRAIL  
SAND CREEK TO CONSTITUTION AVENUE COLORADO  
SPRINGS & EL PASO COUNTY, COLORADO  
14 March 2024

STATEMENTS

**Design Engineer's Statement:**

These detailed plans and specifications were prepared under my direction and supervision. Said plans and specifications have been prepared according to the criteria established by the County for detailed roadway, drainage, grading and erosion control plans and specifications, and said plans and specifications are in conformity with applicable master drainage plans and master transportation plans. Said plans and specifications meet the purposes for which the particular roadway and drainage facilities are designed and are correct to the best of my knowledge and belief. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparation of these detailed plans and specifications.

Richard N. Wray, P.E. #19310 \_\_\_\_\_ Date \_\_\_\_\_  
For and on behalf of Kiowa Engineering Corp.

**Owner/Developer's Statement:**

I, the owner/developer have read and will comply with all of the requirements specified in these detailed plans and specifications.

Colorado Springs, Colorado 80903

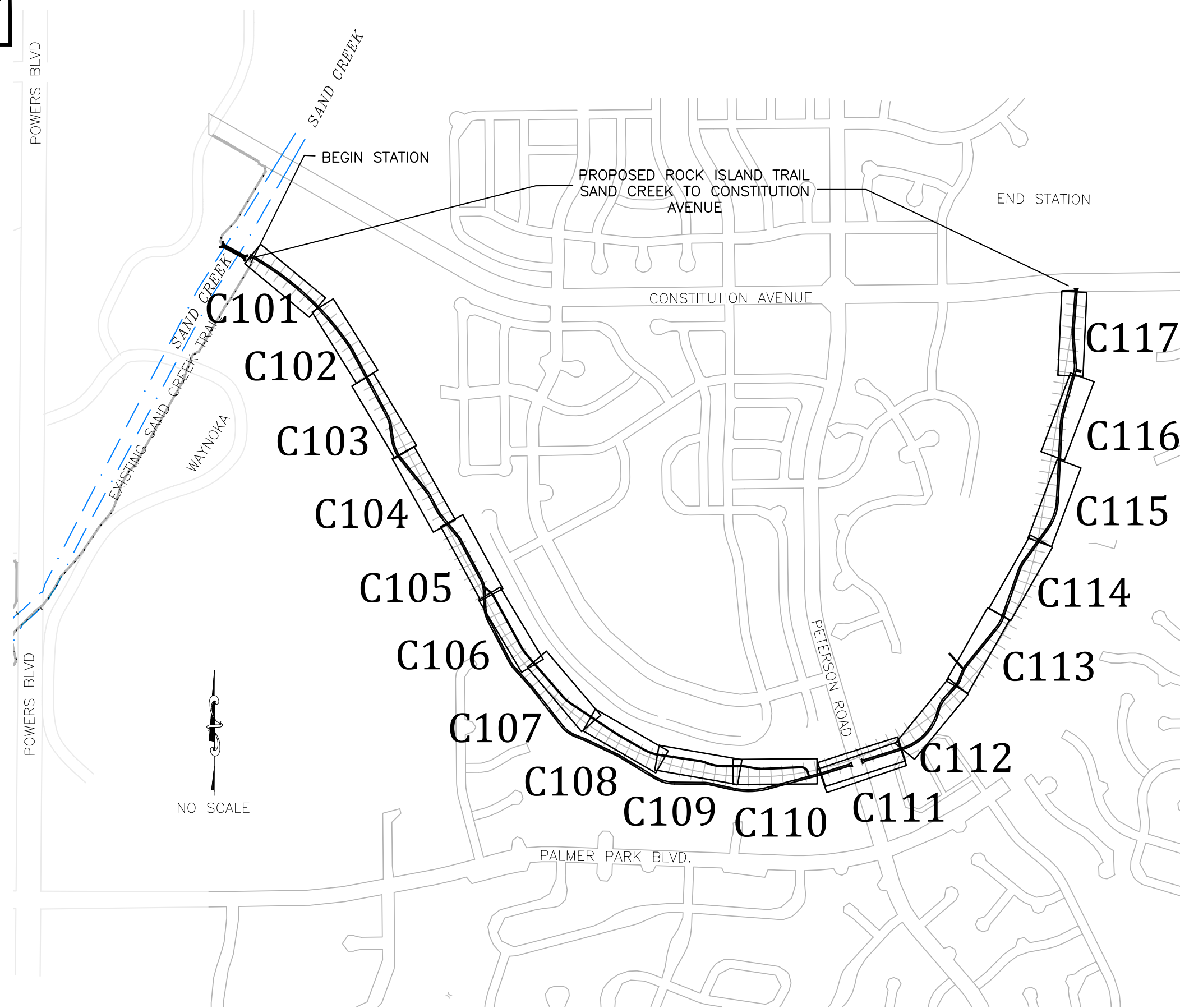
**El Paso County:**

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, 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 Directors discretion.

Jennifer Irvine, P.E., \_\_\_\_\_ Date \_\_\_\_\_  
County Engineer / ECM Administrator



VICINITY & SHEET INDEX MAP

TRAIL DESIGN DATA

BEGIN STATION ROCK ISLAND TRAIL	10+00
END STATION ROCK ISLAND TRAIL	106+25
MAXIMUM GRADE	8.33%
MINIMUM HORIZONTAL CURVE	25'
MINIMUM WIDTH	8'
TYPICAL WIDTH	10'
CROSS-SLOPE	2%
LENGTH SAND CREEK TRAIL	9449 LF

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

NATURAL GAS	YELLOW
ELECTRIC	RED
WATER	BLUE
WASTEWATER	GREEN

**811**  
Know what's below.  
Call before you dig.

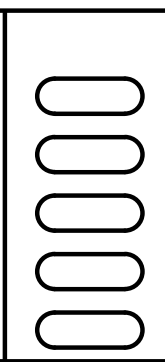
	<p>1604 South 21st Street Colorado Springs, Colorado 80904 (719) 630-7342</p>	Sheet Revisions	90% BID SET	Cover Sheet		Kiowa Proj. No. 16028
		No Revisions:	No Revisions:			TAP M240-162
		Revised:	Revised:	Designer: RNW	SubAccT No. 20391	
		Void:	Void:	Detailer: RNW	Date: 3/14/2024	Sheet Number C000



### SUMMARY OF APPROXIMATE QUANTITIES

CONTRACT ITEM NO.	CONTRACT ITEM	PROJECT TOTALS	
		QUANTITY	UNIT
Item No.	Description	Quantity	Units
201	Clearing and grubbing	1	EA
202.1	Remove and dispose concrete curb and gutter	80	LF
202.2	Remove and dispose concrete sidewalk	80	LF
202.3	Remove concrete bridge abutment	1	EA
202.4	Remove and dispose trees	12	EA
203.1	Excavation- cut to fill on site	2,000	CY
203.2	Scarify, rake and revegetate existing trails, 5-foot avg width	9,337	LF
207	Topsoil	950	CY
208.1	Storm Drain/Inlet protection	2	EA
208.2	Silt Fencing	11,500	LF
208.3	Concrete wash out area	2	EA
208.4	Vehicle tracking control	3	EA
208.5	Stabilized staging area	1	EA
212.1	Permanent seeding	3	AC
212.2	Mulching	3	AC
212.3	Sanitary facility	2	EA
304	Aggregate base course, Class 6	510	CY
406	Hot Mix Asphalt Pavement, 6-inch thick	91	SY
506	18-inch Type L soil riprap	10	CY
514	Smooth rail fence	104	LF
604	CDoT std. Type C inlet	2	EA
608.1	Concrete trail section A	9,449	LF
608.2	Breeze trail section, 4-feet wide	2,695	LF
608.3	EPC std. pedestrian ramps	3	EA
608.4	EPC Type A curb and gutter	32	LF
608.5	EPC Type B median curb and gutter	172	LF
608.6	EPC Std sidewalk, 4-inch thick	1,900	SF
608.7	Patterned and colored median concrete, 4-inch thick	504	SF
608.8	Concrete refuge island, 6-inch thick	144	SF
617.1	18-inch HDPE	80	LF
617.2	18-inch HDPE flared end section	2	EA
625	Construction staking	1	EA
627	Epoxy coated pavement markings	240	SF
630.1	Construction zone traffic control signs, 30" x 30"	4	EA
630.2	Trail signage, panel size 12" x 18"	6	EA
630.3	Traffic signage 12" x 18"	2	EA
630.4	Traffic signage 24" x 30"	2	EA
630.5	Traffic signage 24" x 24"	2	EA
630.6	Traffic signage 30" x 30"	2	EA
630.7	Traffic signage 12" x 36"	2	EA
712.1	Removable locking steel posts	3	EA
712.2	MSE retaining wall	390	SF

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.



Sheet Revisions

90% BID SET

No Revisions:

Revised:

Void:

**ROCK ISLAND TRAIL**  
Sand Creek to Constitution Avenue  
**SUMMARY OF QUANTITIES**

Designer: RNW

Detailer: RNW

Date: 3/14/2024

Kiowa Proj. No. 16028

TAP M240-162

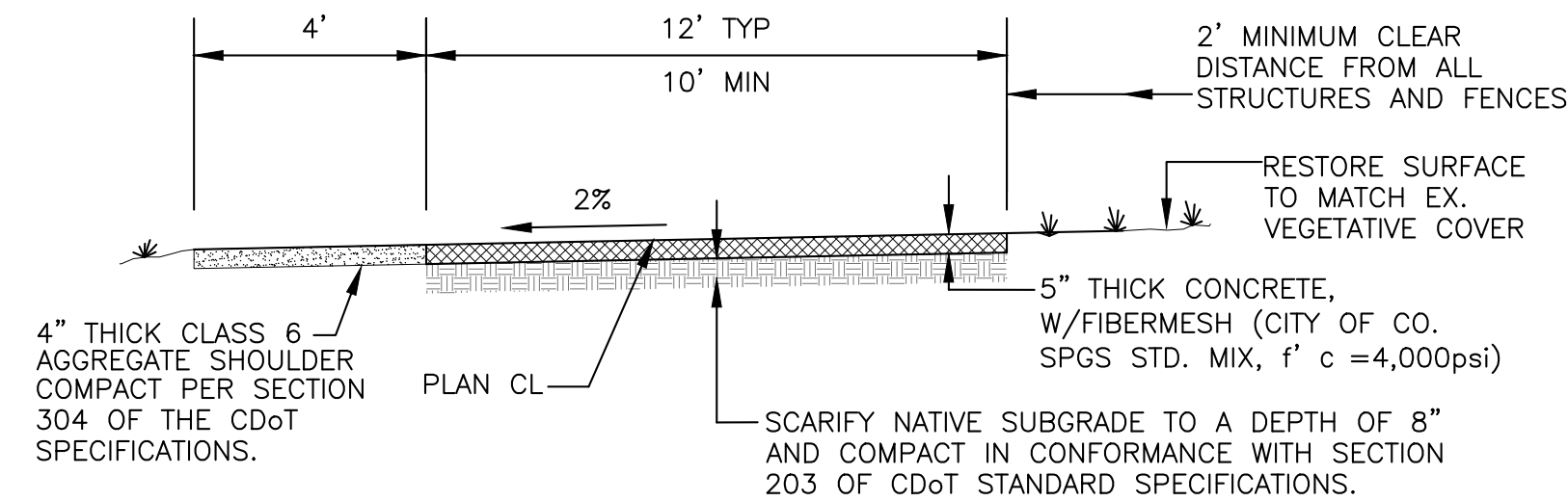
SubAcct No. 20391

Sheet Number **C001**

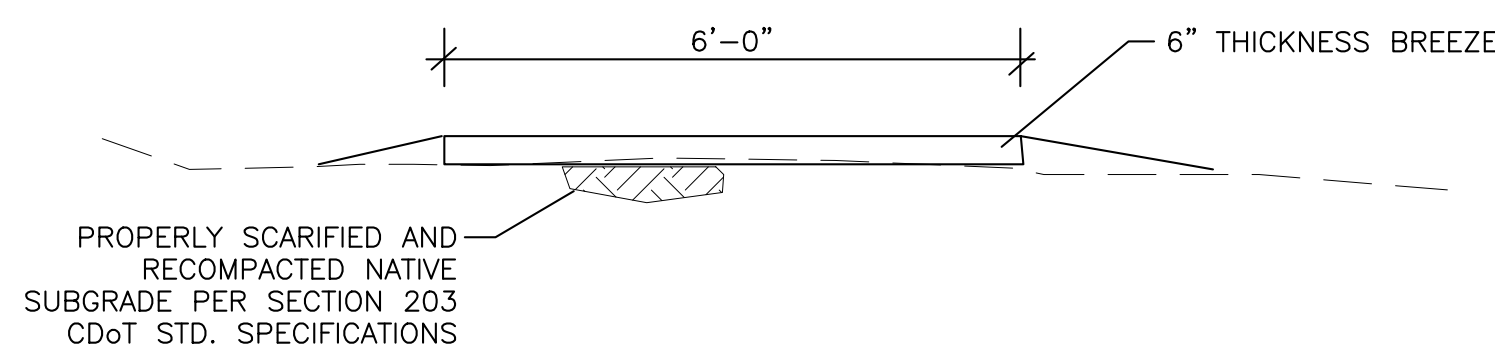


## GENERAL NOTES

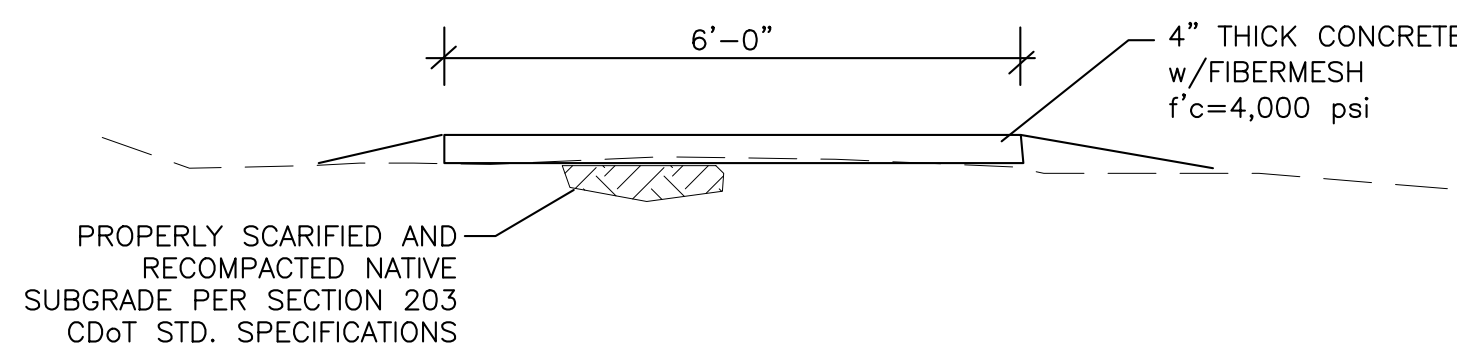
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE LATEST VERSION OF COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SUPPLEMENTED WITH THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY THE OWNER (CITY) AND ENGINEER OF ANY PROBLEM IN CONFORMING TO THE APPROVED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS CONSTRUCTION.
- 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.
- 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.
- SURVEYING FOR THIS PROJECT SHALL BE CONDUCTED IN ACCORDANCE WITH CDOT STANDARDS.
- BENCHMARK: FIMS MONUMENT SR10 IS A 2-INCH DIAMETER ALUMINUM CAP STAMPED "OSU FIMS CONTROL SR10" ON TOP OF THE NORTH CURB OF CONSTITUTION AVENUE AT THE NORTHWEST CORNER OF THE BRIDGE OVER SAND CREEK.
- ALL EXISTING MANHOLES TO BE MARKED WITH T-POSTS AND CAUTION TAPE PRIOR TO COMMENCING WITH THE CONSTRUCTION.
- 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.
- ALL REMOVED ASPHALT WILL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE DISPOSED OF OUTSIDE PROJECT LIMITS.
- THE SOIL TO BE PLACED AS TOPSOIL MATERIAL SHALL BE FREE OF REFUSE, STUMPS, ROOTS, ROCKS, BRUSH, WEEDS, HARD CLOUDS, TOXIC SUBSTANCES OR OTHER MATERIAL WHICH WOULD BE DETRIMENTAL TO ITS USE ON THE PROJECT. IT SHALL HAVE A MINIMUM P.I. OF 5 BUT SHALL NOT BE SUCH HEAVY CLAY AS TO PRECLUDE PLACEMENT WITH A SHOULDER MACHINE.
- SALVAGEABLE MATERIAL: MATERIAL THAT CAN BE SAVED OR SALVAGED. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT, ALL SALVABLE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- 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.
- 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.
- 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 RESETTling SAME, AT NO COST TO THE OWNER, AND SHALL BE RESPONSIBLE FOR ANY LOSS OF TIME THAT MAY BE CAUSED.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHERE UTILITIES CONFLICT WITH THE WORK IN CONFORMANCE WITH THE SPECIFICATIONS. WHERE FIELD VERIFICATION IS 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.
- ALL EXISTING AREAS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION ACTIVITIES SHALL BE REVEGETATED 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL OBTAIN CONSTRUCTION STORMWATER DISCHARGE PERMIT FROM CDPHE.



**TRAIL SECTION A**  
NOT TO SCALE



**TRAIL SECTION B - 6' BREEZE TRAIL**  
SCALE: 1"=2'



**TRAIL SECTION C**  
SCALE: 1"=2'

## KNOWN UTILITIES WITHIN PROJECT LIMITS

CONTRACTOR MUST VERIFY ALL UTILITIES  
PRIOR TO EXCAVATION

- CITY OF COLORADO SPRINGS DEPT. OF UTILITIES:  
ELECTRIC & GAS DIVISIONS
- CENTURY LINK
- LEVEL 3 COMMUNICATIONS
- CIMMARON WATER AND SANITATION 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.

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

NATURAL GAS	YELLOW
ELECTRIC	RED
WATER	BLUE
WASTEWATER	GREEN



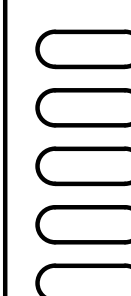
Know what's below.  
Call before you dig.

## LEGEND

○	BOLLARD
×	FENCE
—	GUARDRAIL
—	SIGN
—	ELECTRIC POWER POLE
—	ELECTRIC LINE
□	ELECTRIC VAULT
—	GAS MAIN
○	GAS VENT
—	SANITARY SEWER MAIN
○	SANITARY SEWER MANHOLE
—	TELEPHONE MAIN
⊙	TELEPHONE MANHOLE
□	TELEPHONE RISER
—	WATER MAIN
⊕	WATER VALVE



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



### Sheet Revisions

No Revisions:

Revised:

Void:

### ROCK ISLAND TRAIL Sand Creek to Constitution Avenue GENERAL NOTES

Designer: RNW  
Detailer: RNW  
Date: 3/14/2024

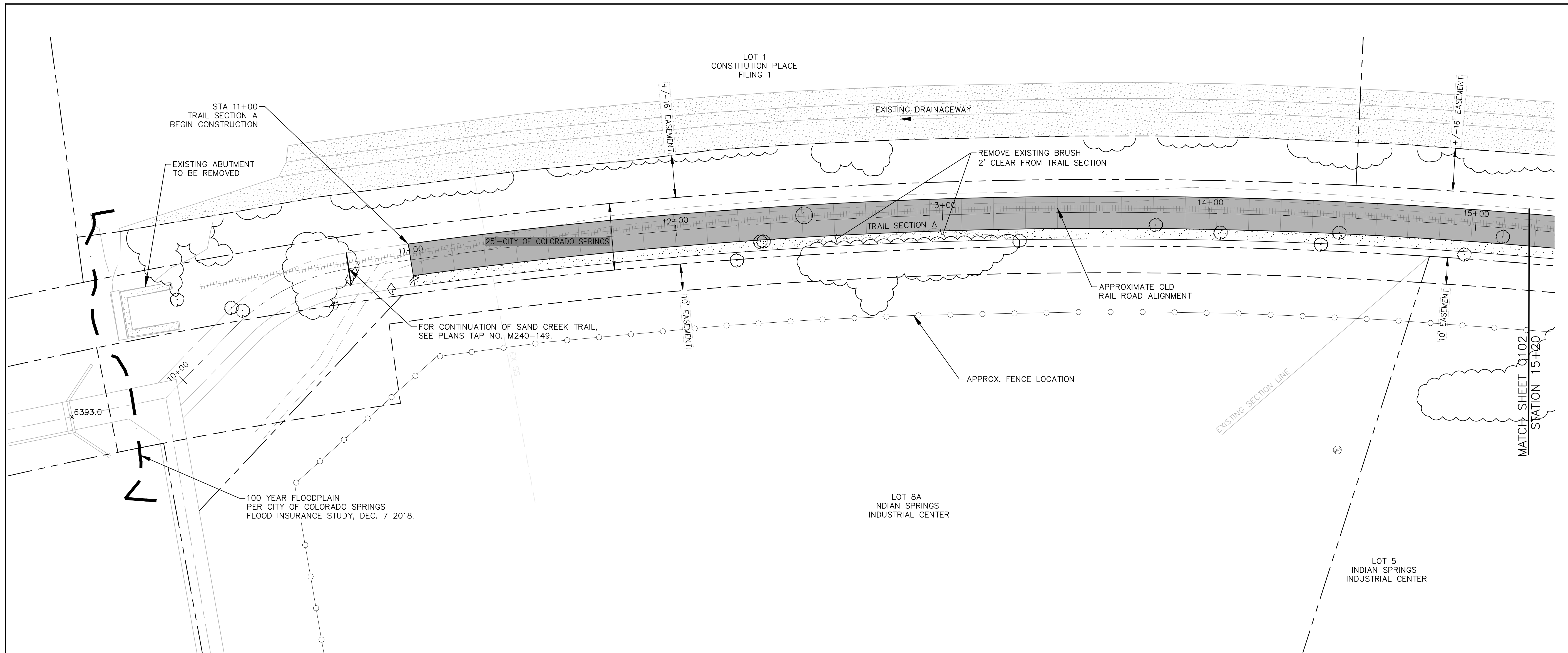
Kiowa Proj. No. 16028

TAP M240-162

SubAcct No. 20391

Sheet Number **C002**

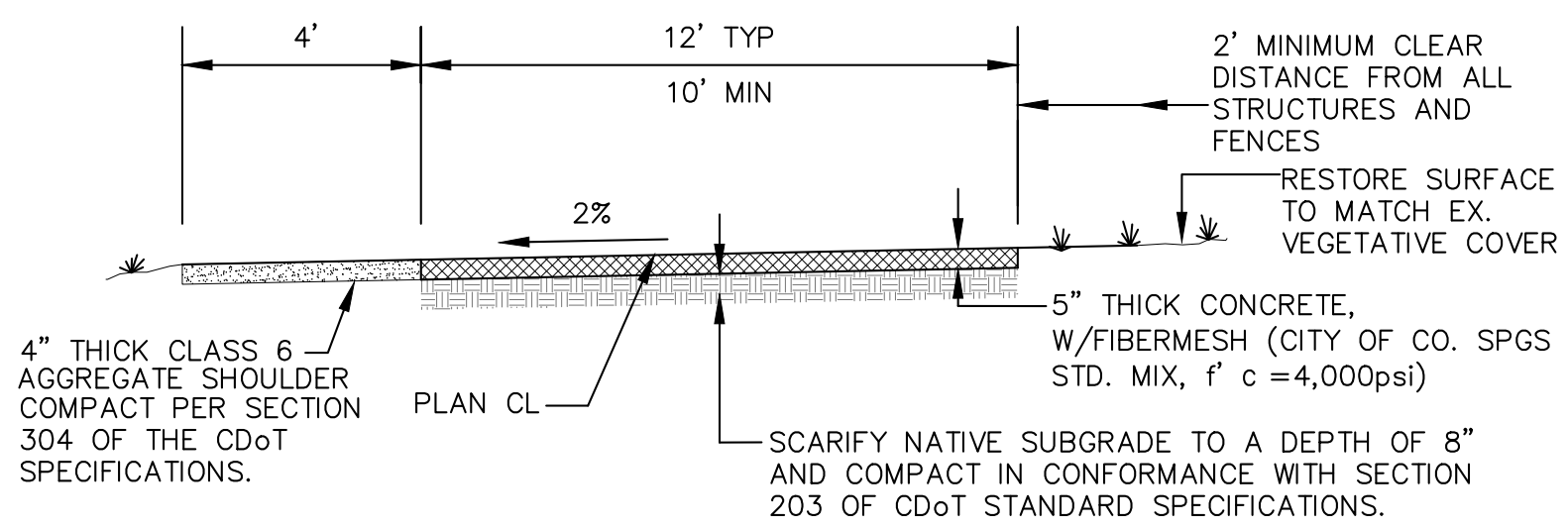




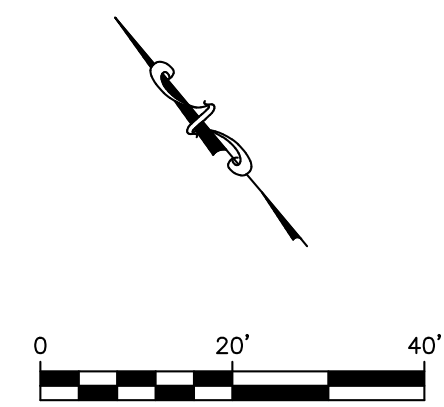
NOTE:  
 ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D.  
 UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE  
 POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A)  
 PRIOR TO EXCAVATION.

COORDINATES				
PT#	N	E	DESCRIPTION	ELEVATION
100	1378591.13	3224761.21	BEGIN TRAIL	6394.8
101	1388610.98	3224772.35	PC	6394.9

CURVE DATA  
 ① R=1910.00'  
 L=916.54'  
 $\Delta=27^{\circ}29'39''$

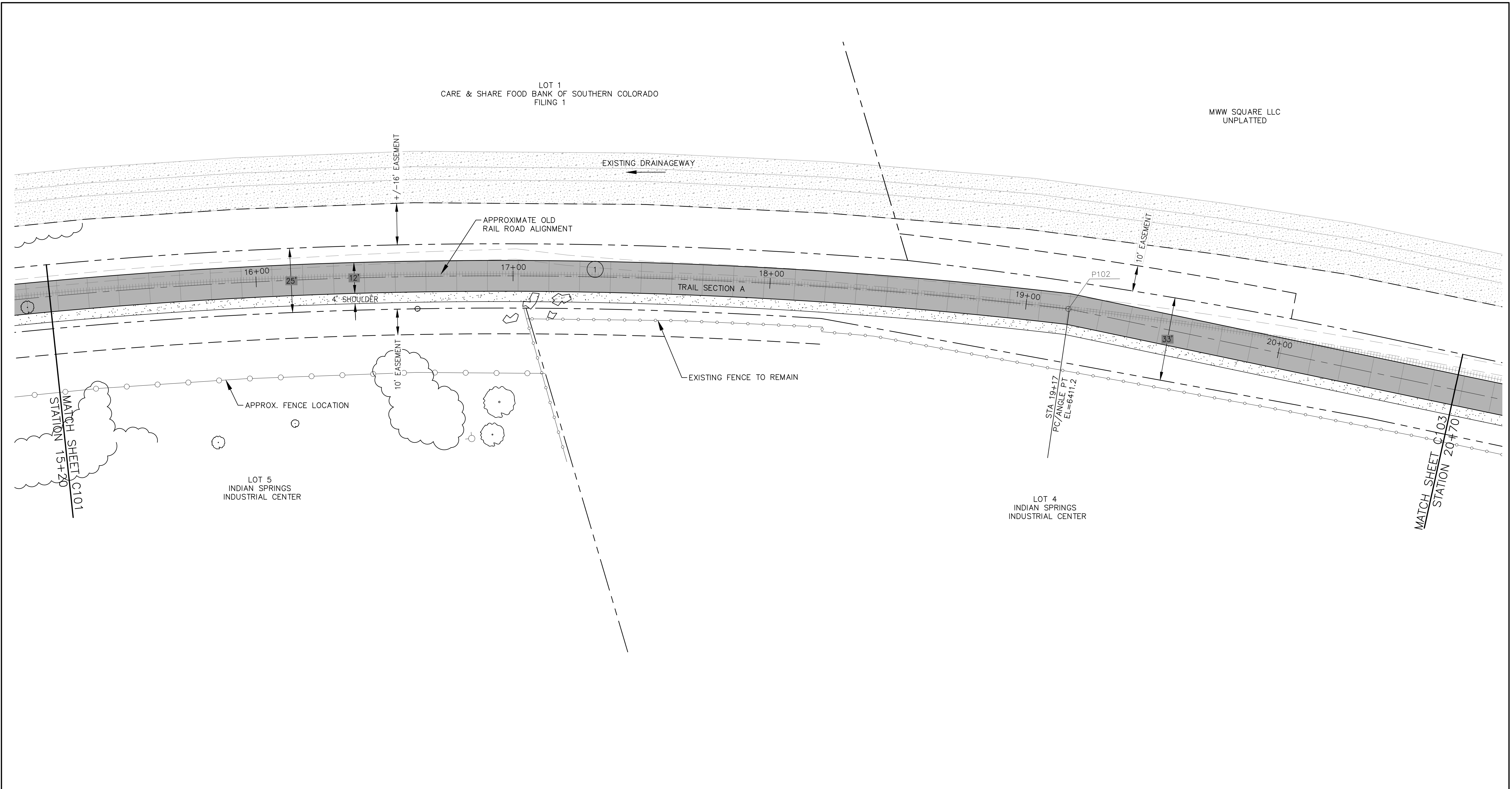


**TRAIL SECTION A**  
 NOT TO SCALE



	<p style="font-size: small;">1804 South 21st Street          Colorado Springs, Colorado 80904          (719) 630-7342</p>	Sheet Revisions	<b>ROCK ISLAND TRAIL</b> Sand Creek to Constitution Avenue <b>FINAL TRAIL PLAN STA 10+00 TO STA 15+20</b>		Kiowa Proj. No. 16028
		No Revisions:	Designer: RNW		TAP M240-162
		Revised:	Detailer: RNW		SubAcct No. 20391
		Void:	Date: 3/14/2024		Sheet Number <b>C101</b>

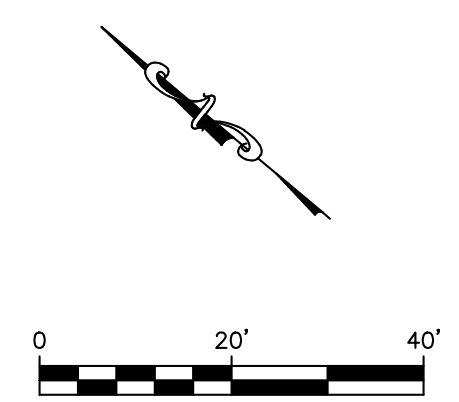




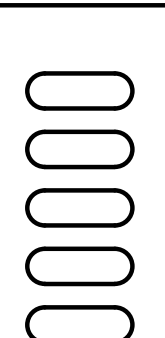


COORDINATES				
PT#	N	E	DESCRIPTION	ELEVATION
102	1377992.88	3225437.19	PC/ANGLE PT	6411.2

1 CURVE DATA  
 R=1910.00'  
 L=916.54'  
 Δ=27°29'39"

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.



			<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="2">Sheet Revisions</th></tr> <tr><td> </td><td> </td></tr> <tr><td>No Revisions:</td><td> </td></tr> <tr><td>Revised:</td><td> </td></tr> <tr><td>Void:</td><td> </td></tr> </table>	Sheet Revisions				No Revisions:		Revised:		Void:		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="2">ROCK ISLAND TRAIL</th></tr> <tr><td colspan="2">Sand Creek to Constitution Avenue</td></tr> <tr><td colspan="2">FINAL TRAIL PLAN STA 15+20 TO STA 20+70</td></tr> <tr><td>Designer:</td><td>RNW</td></tr> <tr><td>Detailer:</td><td>RNW</td></tr> <tr><td>Date:</td><td>3/14/2024</td></tr> </table>	ROCK ISLAND TRAIL		Sand Creek to Constitution Avenue		FINAL TRAIL PLAN STA 15+20 TO STA 20+70		Designer:	RNW	Detailer:	RNW	Date:	3/14/2024	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td colspan="2">Kiowa Proj. No. 16028</td></tr> <tr><td colspan="2">TAP M240-162</td></tr> <tr><td colspan="2">SubAcct No. 20391</td></tr> <tr><td colspan="2">Sheet Number <b>C102</b></td></tr> </table>	Kiowa Proj. No. 16028		TAP M240-162		SubAcct No. 20391		Sheet Number <b>C102</b>	
		Sheet Revisions																																	
No Revisions:																																			
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Sand Creek to Constitution Avenue																																			
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Designer:	RNW																																		
Detailer:	RNW																																		
Date:	3/14/2024																																		
Kiowa Proj. No. 16028																																			
TAP M240-162																																			
SubAcct No. 20391																																			
Sheet Number <b>C102</b>																																			
16028-C101-C103-C02s.dwg/Mar 14, 2024																																			



FIRST PRESBYTERIAN CHURCH OF COLORADO SPRINGS  
UNPLATTED

EXISTING DRAINAGEWAY

APPROXIMATE OLD  
RAIL ROAD ALIGNMENT

CITY OF COLORADO SPRINGS

EX FOOTPATH TO BE  
SCARIFIED AND REVEGETATED

CITY OF COLORADO SPRINGS

LOT 1  
LAKESHORE INDUSTRIAL PARK  
FILING 2

LOT 4  
INDIAN SPRINGS  
INDUSTRIAL CENTER

LOT 3  
INDIAN SPRINGS  
INDUSTRIAL CENTER

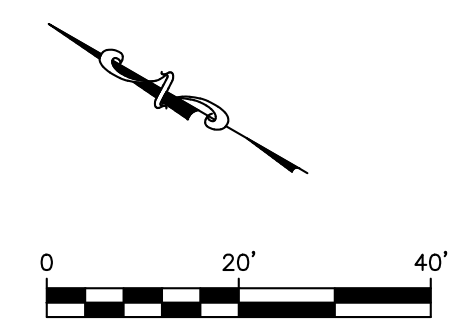
MATCH SHEET C102  
STATION 20+70

MATCH SHEET C104  
STATION 26+50

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.

PT#	COORDINATES		DESCRIPTION	ELEVATION
	N	E		
103	1377555.89	3225671.54	PC	6413.92
104	1377490.20	3225693.19	PT	6413.40
105	1375707.35	3225707.35	PC	6413.10

CURVE DATA	
② R=200.00' L=69.51' Δ=19°54'52"	③ R=250.00' L=132.27' Δ=30°20'11"

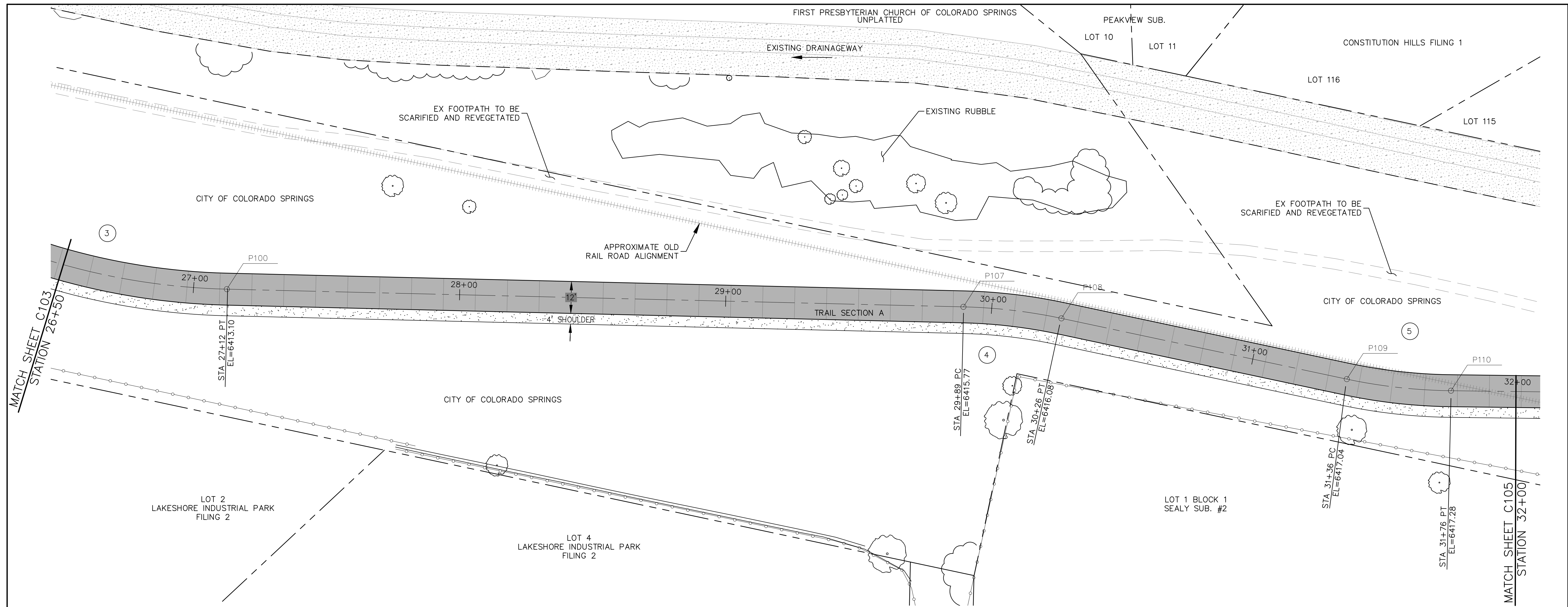


Sheet Revisions	

No Revisions:		ROCK ISLAND TRAIL Sand Creek to Constitution Avenue	
		FINAL TRAIL PLAN STA 20+70 TO STA 26+50	
Revised:	Designer: RNW		
Void:	Detailer: RNW		
	Date: 3/14/2024		

Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number <b>C103</b>





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.

PT#	N	COORDINATES		DESCRIPTION	ELEVATION
		E			
106	1377272.22	3225760.05		PT	6413.10
107	1377056.72	3225932.24		PC	6415.77
108	1377026.62	3225952.13		PT	6416.08
109	1376928.93	3226004.06		PC	6417.04
110	1376896.14	3226025.87		PT	6417.28

CURVE DATA

③	R=250.00' L=132.27' Δ=30°20'11"	④	R=200.00' L=37.13' Δ=10°38'09"	⑤	R=200.00' L=39.45' Δ=11°18'04"
---	---------------------------------------	---	--------------------------------------	---	--------------------------------------

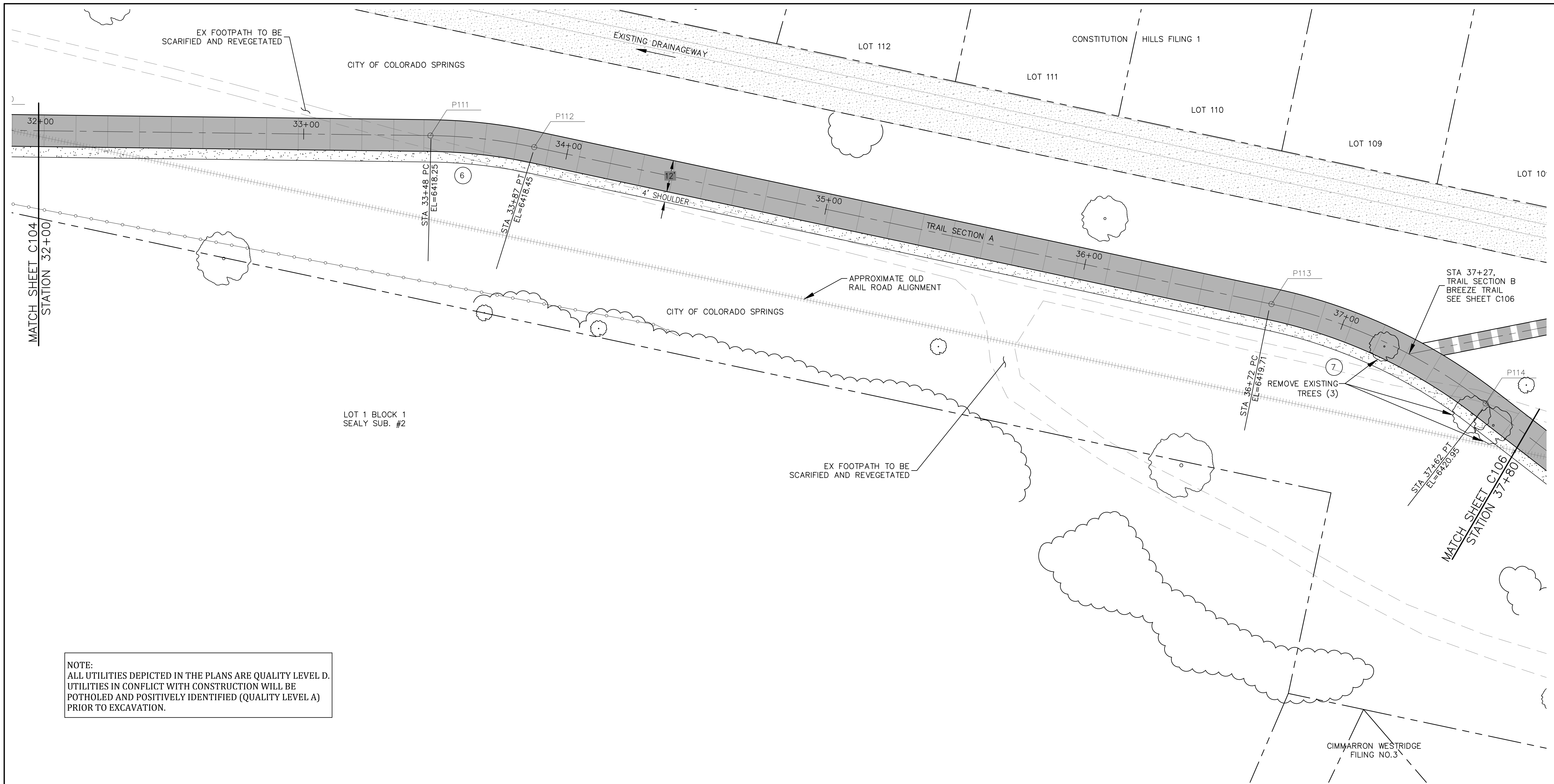


Sheet Revisions	
	No Revisions:
	Revised:
	Void:

ROCK ISLAND TRAIL	
Sand Creek to Constitution Avenue	
FINAL TRAIL PLAN STA 26+50 TO STA 32+00	
Designer:	RNW
Detailer:	RNW
Date:	3/14/2024

Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number <b>C104</b>





NOTE:  
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 UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE  
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 PRIOR TO EXCAVATION.

PT#	N	COORDINATES		DESCRIPTION	ELEVATION
		E			
111	1376762.79	3226134.99		PC	6418.25
112	1376729.95	3226156.83		PT	6418.45
113	1376478.54	3226290.37		PC	6419.71
114	1376393.46	3226313.55		PT	6420.95

CURVE DATA

⑥	R=200.00'	⑦	R=200.00'
	L=39.50'		L=89.91'
	Δ=11°18'58"		Δ=25°45'27"

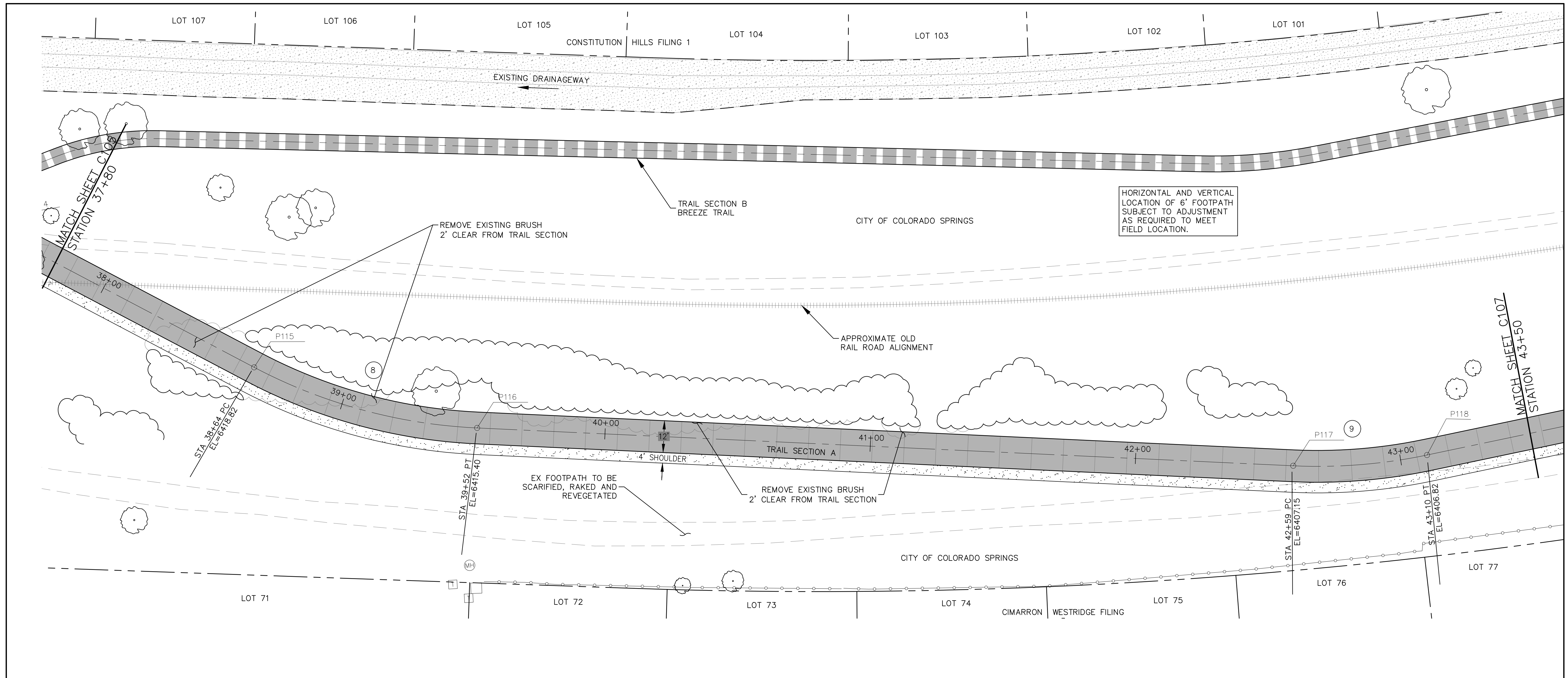


Sheet Revisions	
	No Revisions:
	Revised:
	Void:

ROCK ISLAND TRAIL	
Sand Creek to Constitution Avenue	
FINAL TRAIL PLAN STA 32+00 TO STA 37+80	
Designer:	RNW
Detailer:	RNW
Date:	3/14/2024

Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number <b>C105</b>





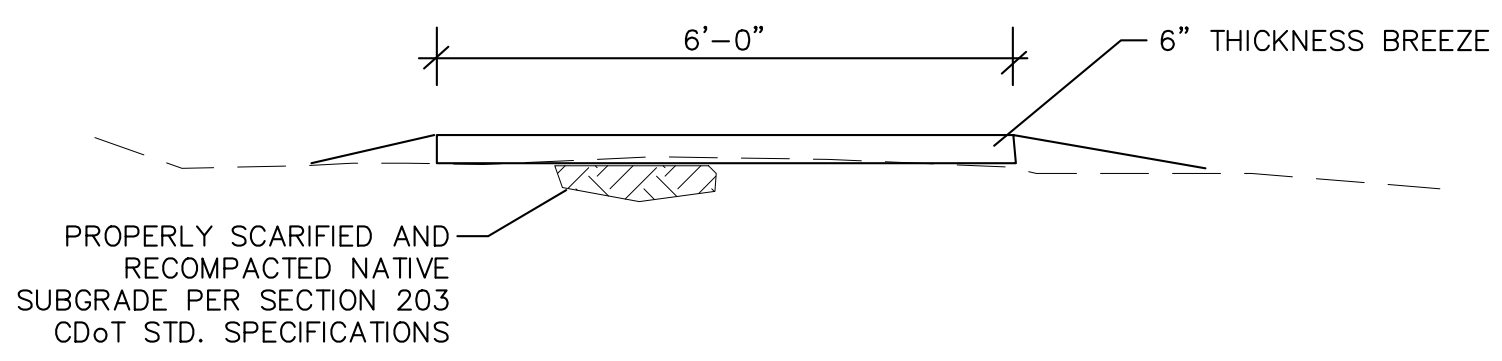
HORIZONTAL AND VERTICAL LOCATION OF 6' FOOTPATH SUBJECT TO ADJUSTMENT AS REQUIRED TO MEET FIELD LOCATION.

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.

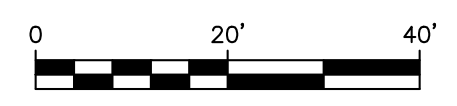
PT#	N	E	DESCRIPTION	ELEVATION
115	1376290.41	3226317.15	PC	6418.82
116	1376206.27	3226339.74	PT	6415.40
117	1375933.01	3226481.05	PC	6407.15
118	1375891.41	3226509.75	PT	6406.82

CURVE DATA

⑧	R=200.00' L=87.71' Δ=25°7'38"	⑨	R=200.00' L=50.68' Δ=14°31'08"
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TRAIL SECTION B - 6' BREEZE TRAIL  
SCALE: 1"=2'

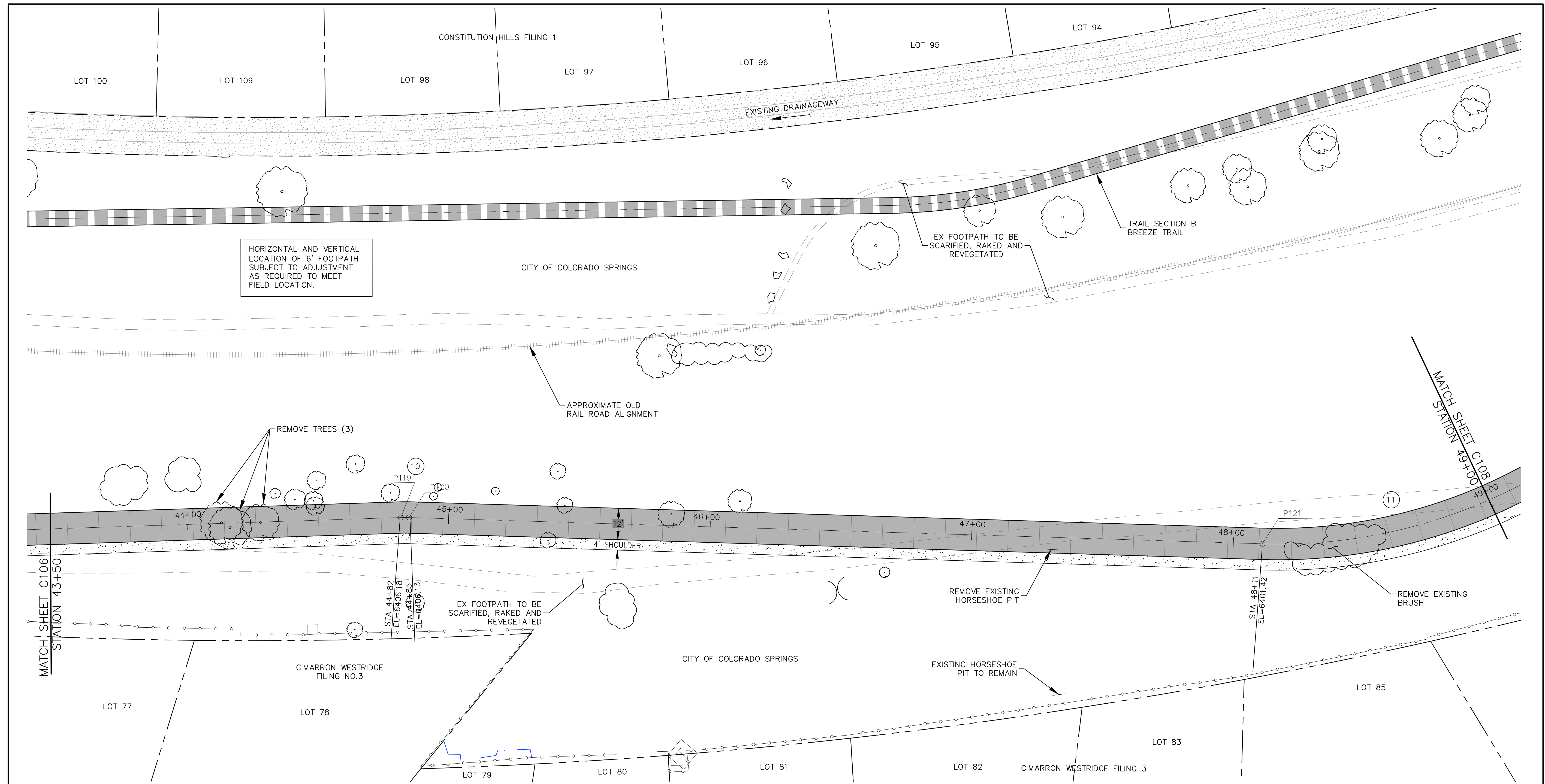


Sheet Revisions	
	No Revisions:
	Revised:
	Void:

<b>ROCK ISLAND TRAIL</b> Sand Creek to Constitution Avenue	
<b>FINAL TRAIL PLAN STA 37+80 TO STA 43+50</b>	
Designer:	RNW
Detailer:	RNW
Date:	3/14/2024

Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number <b>C106</b>



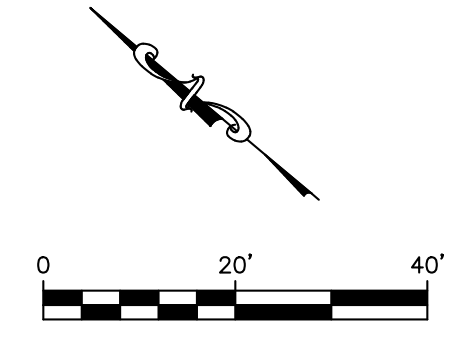


HORIZONTAL AND VERTICAL LOCATION OF 6" FOOTPATH SUBJECT TO ADJUSTMENT AS REQUIRED TO MEET FIELD LOCATION.

COORDINATES				
PT#	N	E	DESCRIPTION	ELEVATION
119	1375763.61	3226624.28	PC	6406.18
120	1375761.18	3226626.32	PT	6406.13
121	1376828.23	3225504.85	PC	6401.42

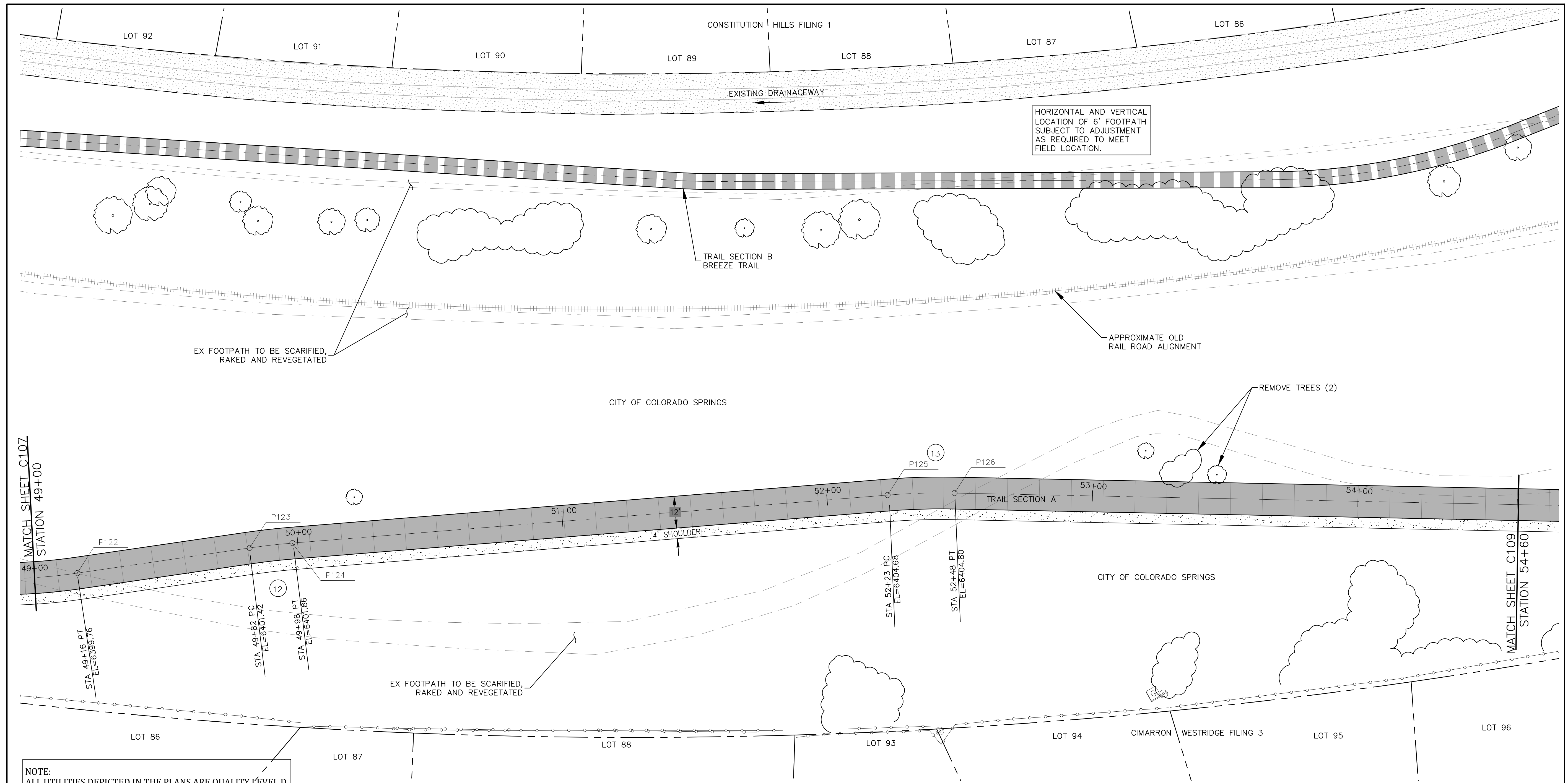
CURVE DATA			
10	R=50.00'	L=3.17'	$\Delta=3^{\circ}37'52''$
11	R=200.00'	L=105.03'	$\Delta=30^{\circ}05'19''$

NOTE:  
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	<p style="font-size: 8px;">1604 South 21st Street Colorado Springs, Colorado 80904 (719) 630-7342</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Sheet Revisions</th> </tr> </thead> <tbody> <tr><td style="width: 50px; height: 15px;"> </td><td> </td></tr> <tr><td style="width: 50px; height: 15px;"> </td><td> </td></tr> <tr><td style="width: 50px; height: 15px;"> </td><td> </td></tr> <tr><td style="width: 50px; height: 15px;"> </td><td> </td></tr> </tbody> </table>	Sheet Revisions										<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"> <b>ROCK ISLAND TRAIL</b>            Sand Creek to Constitution Avenue  <b>FINAL TRAIL PLAN STA 43+50 TO STA 49+00</b> </td> </tr> <tr> <td style="width: 50%;">No Revisions:</td> <td> </td> </tr> <tr> <td>Revised:</td> <td> </td> </tr> <tr> <td>Void:</td> <td> </td> </tr> <tr> <td>Designer:</td> <td>RNW</td> </tr> <tr> <td>Detailer:</td> <td>RNW</td> </tr> <tr> <td>Date:</td> <td>3/14/2024</td> </tr> </table>	<b>ROCK ISLAND TRAIL</b> Sand Creek to Constitution Avenue <b>FINAL TRAIL PLAN STA 43+50 TO STA 49+00</b>		No Revisions:		Revised:		Void:		Designer:	RNW	Detailer:	RNW	Date:	3/14/2024	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">Kiowa Proj. No. 16028</td> </tr> <tr> <td style="font-size: 8px;">TAP M240-162</td> </tr> <tr> <td style="font-size: 8px;">SubAcct No. 20391</td> </tr> <tr> <td style="font-size: 8px;">Sheet Number <b>C107</b></td> </tr> </table>	Kiowa Proj. No. 16028	TAP M240-162	SubAcct No. 20391	Sheet Number <b>C107</b>
		Sheet Revisions																														
<b>ROCK ISLAND TRAIL</b> Sand Creek to Constitution Avenue <b>FINAL TRAIL PLAN STA 43+50 TO STA 49+00</b>																																
No Revisions:																																
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Date:	3/14/2024																															
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TAP M240-162																																
SubAcct No. 20391																																
Sheet Number <b>C107</b>																																
				<small>16028-C101-C123-CD.dwg/Mar 14, 2024</small>																												





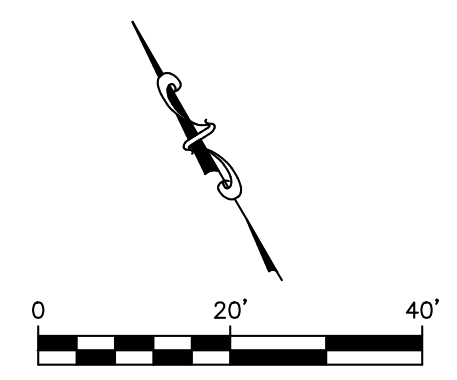
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PT#	COORDINATES		DESCRIPTION	ELEVATION
	N	E		
122	1375442.81	3226911.45	PT	6399.76
123	1375418.57	3226972.42	PC	6401.42
124	1375412.12	3226987.25	PT	6401.85
125	1375315.71	3227190.40	PC	6404.68
126	1375303.75	3227212.63	PT	6404.80

CURVE DATA

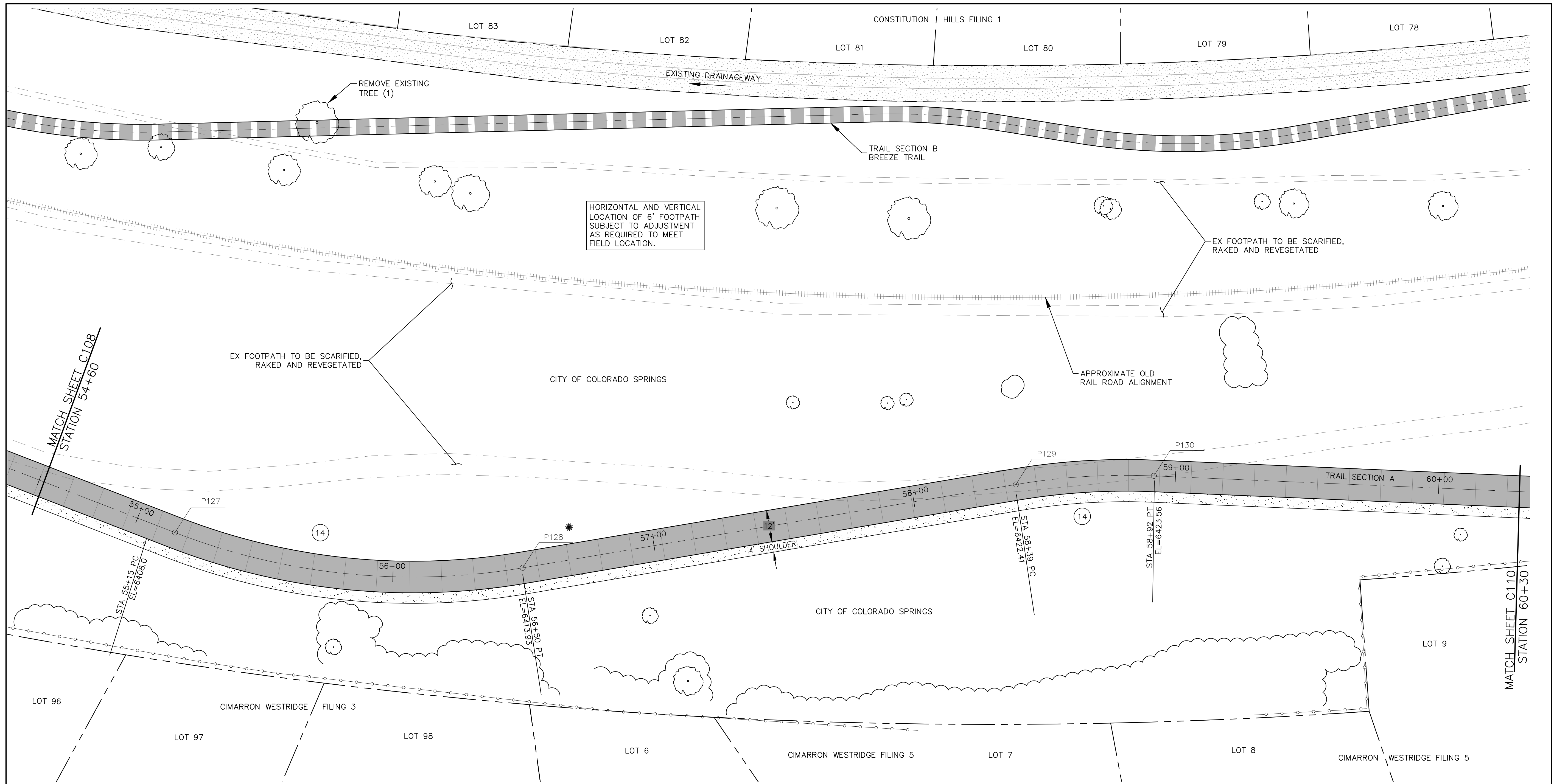
(12) R=250.00'  
L=16.18'  
Δ=3°42'29"

(13) R=250.00'  
L=25.25'  
Δ=5°47'11"



	 1604 South 21st Street Colorado Springs, Colorado 80904 (719) 630-7342	Sheet Revisions		<b>ROCK ISLAND TRAIL</b> Sand Creek to Constitution Avenue <b>FINAL TRAIL PLAN STA 49+00 TO STA 54+60</b>		Kiowa Proj. No. 16028
		No Revisions:			Designer: RNW	SubAcct No. 20391
		Revised:			Detailer: RNW	Sheet Number <b>C108</b>
		Void:			Date: 3/14/2024	

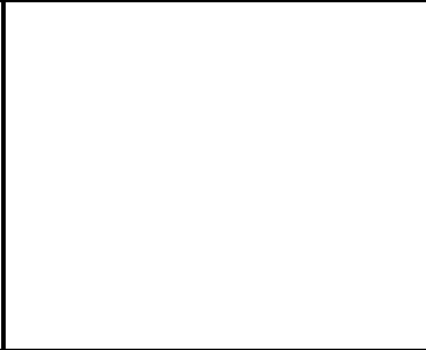
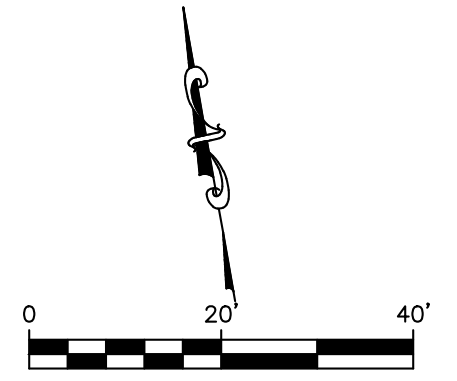




COORDINATES				
PT#	N	E	DESCRIPTION	ELEVATION
127	1375165.48	3227441.18	PC	6408.0
128	1375129.39	3227568.81	PT	6413.93
129	1375128.03	3227758.58	PC	6422.41
130	1375122.15	3227810.73	PT	6423.56

CURVE DATA		
14	R=250.00' L=134.24' Δ=30°45'53"	15 R=250.00' L=52.58' Δ=12°3'2"

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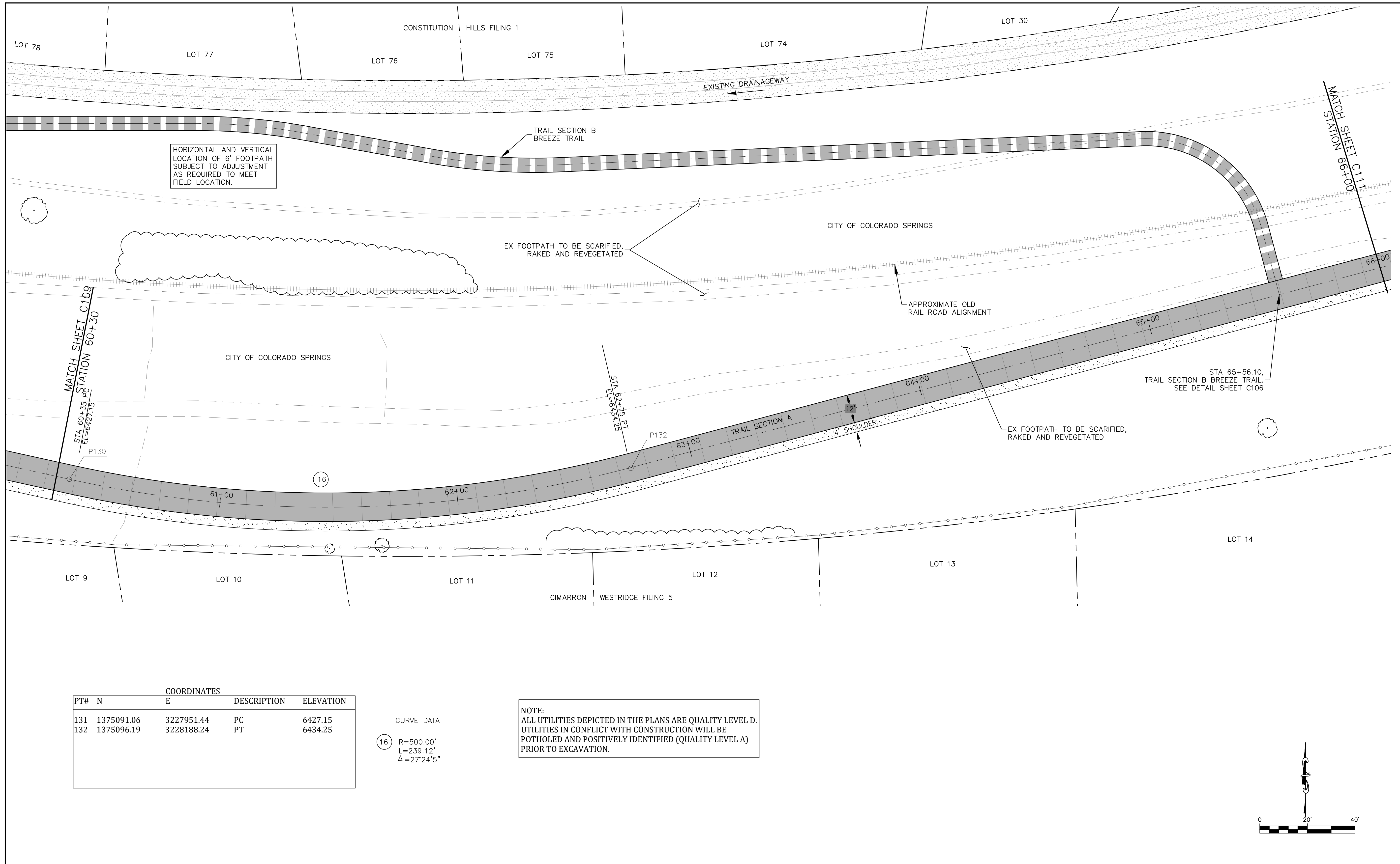
1604 South 21st Street  
Colorado Springs, Colorado 80904  
(719) 630-7342

Sheet Revisions	

ROCK ISLAND TRAIL Sand Creek to Constitution Avenue	
FINAL TRAIL PLAN STA 54+60 TO STA 60+30	
Designer:	RNW
Detailer:	RNW
Date:	3/14/2024

Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number <b>C109</b>

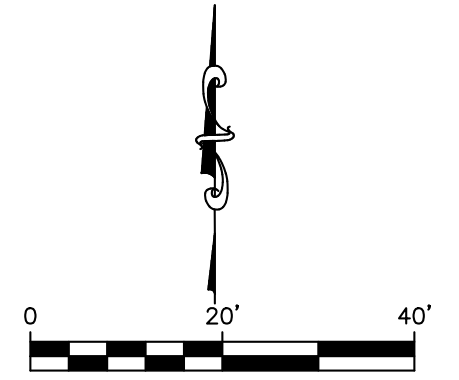




COORDINATES				
PT#	N	E	DESCRIPTION	ELEVATION
131	1375091.06	3227951.44	PC	6427.15
132	1375096.19	3228188.24	PT	6434.25

CURVE DATA  
 16 R=500.00'  
 L=239.12'  
 Δ=27°24'5"

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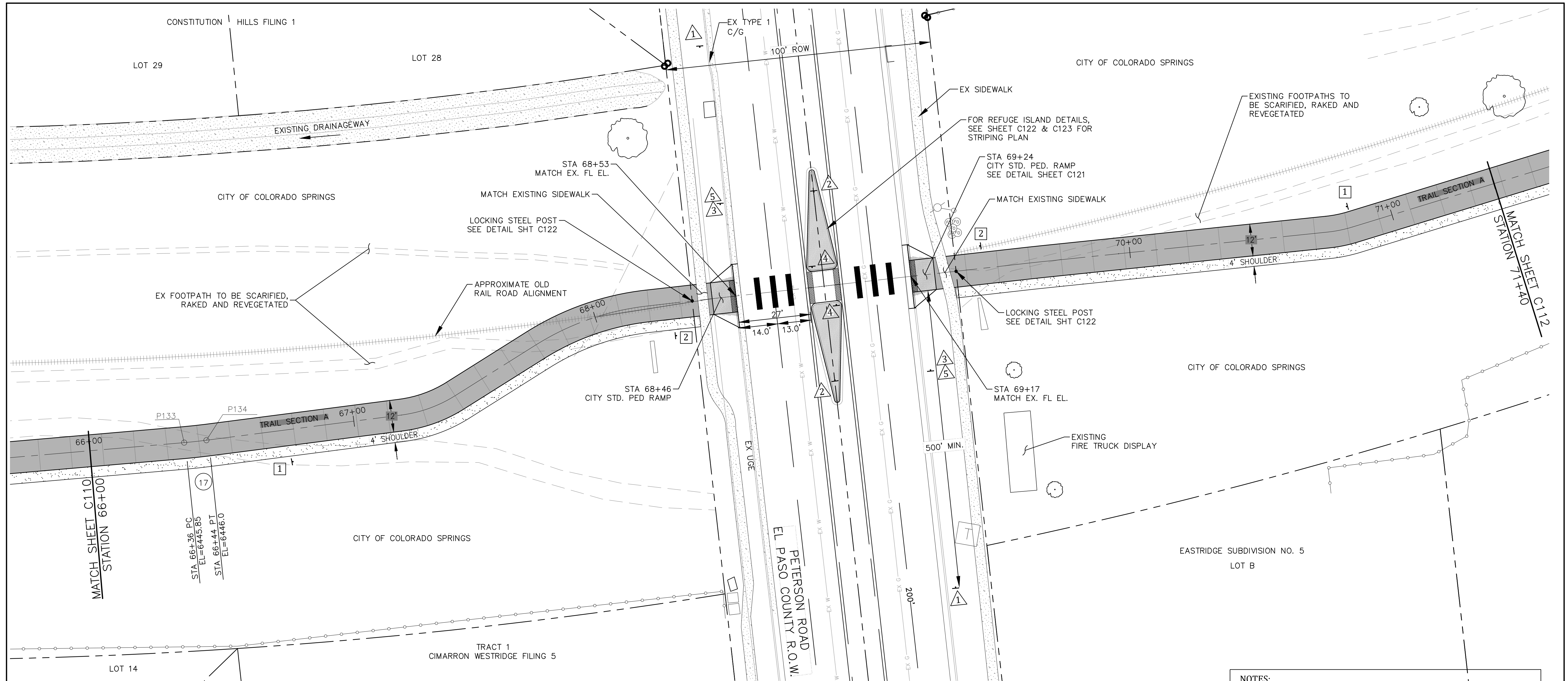


Sheet Revisions	

ROCK ISLAND TRAIL Sand Creek to Constitution Avenue	
FINAL TRAIL PLAN STA 60+30 TO STA 66+00	
Designer:	RNW
Detailer:	RNW
Date:	3/14/2024

Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number <b>C110</b>





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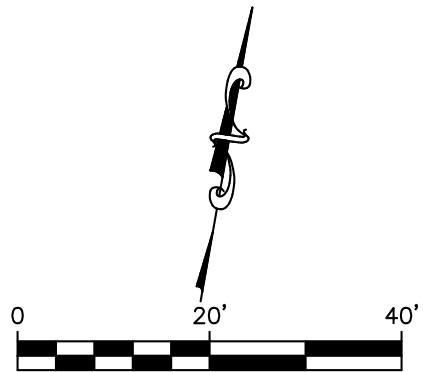
NOTES:  
1. CONTRACTOR TO OBTAIN EPC-DPW ROAD CUT WORK PERMIT FOR WORK IN RIGHT-OF-WAY.  
2. CONTRACTOR TO SUPPLY TO EPC-DPW CONSTRUCTION TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WITH ANY WORK WITHIN THE PETERSON ROAD RIGHT-OF-WAY.

COORDINATES				
PT#	N	E	DESCRIPTION	ELEVATION
133	1375189.16	3228536.61	PC	6444.85
134	1375191.51	3228544.71	PT	6446.0
135	1375252.48	3228739.76	EX.WEST FL	MATCH EX.
136	1375271.64	3228803.12	EX. EAST FL	MATCH EX.
137	1375277.35	3228822.28	ANGLE PT	6451.4

CURVE DATA  
 (17) R=200.00'  
 L=8.23'  
 Δ=2°24'54"

TRAFFIC SIGNAGE			
SIGNAGE	#	PANEL SIZE	
(1) TRAIL CROSSING AHEAD	2	30x30 W11-1	
(2) KEEP RIGHT	2	24x30 R4-7	
(3) PEDESTRIAN CROSSING	2	24x24 W11A-2	
(4) YIELD TO PEDESTRIANS	2	12x36 R1-6	
(5) [Symbol]	2	12X18 W16-7P	

TRAIL SIGNAGE			
SIGNAGE	#	PANEL SIZE	
(1) STOP AHEAD	2	12x18	
(2) RIDERS DISMOUNT	2	12x18	

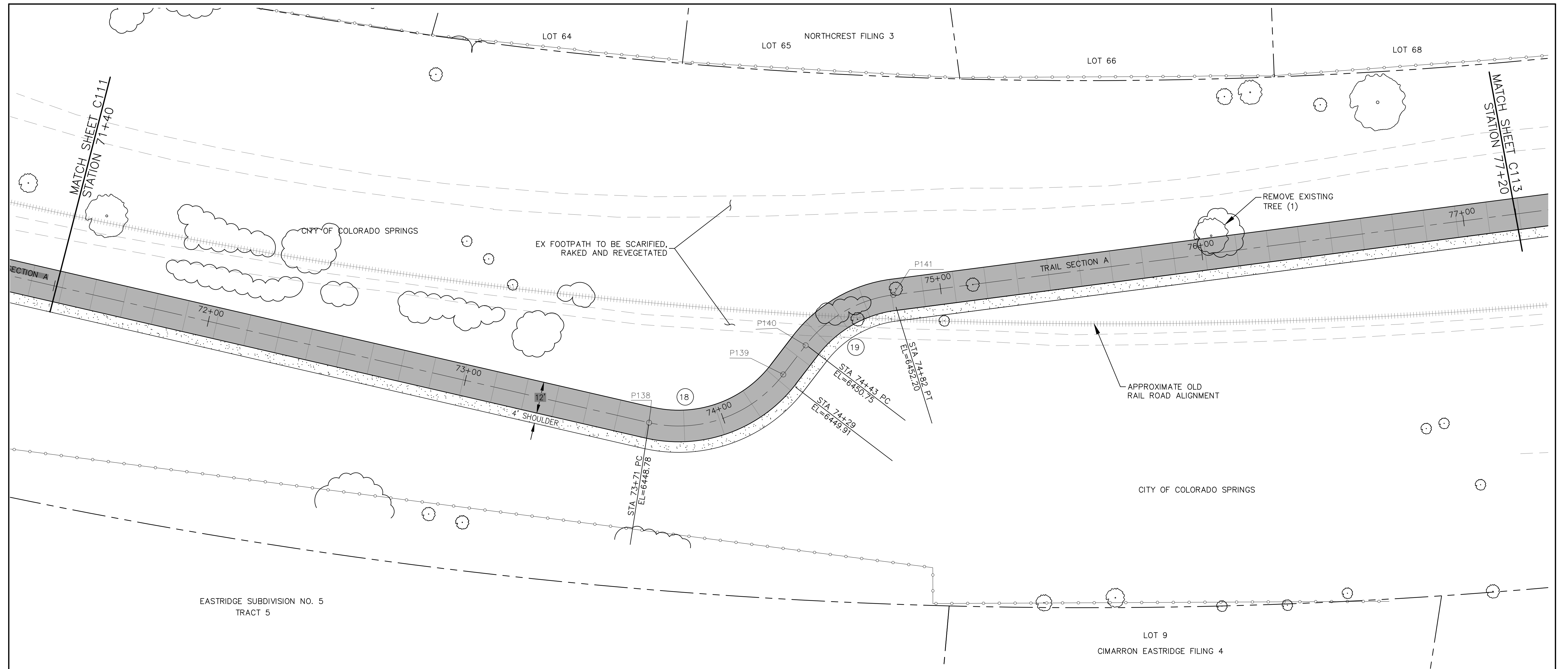


Sheet Revisions	

ROCK ISLAND TRAIL Sand Creek to Constitution Avenue			
FINAL TRAIL PLAN STA 66+00 TO STA 71+40			
Designer:	RNW		
Detailer:	RNW		
Date:	3/14/2024		

Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number <b>C111</b>



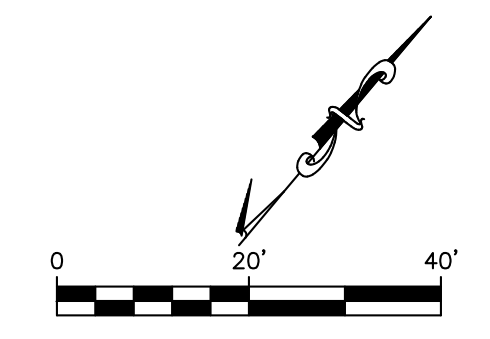


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PT#	COORDINATES		DESCRIPTION	ELEVATION
	N	E		
138	1375475.97	3229211.44	PC	6448.78
139	1375522.69	3229258.66	PT	6449.91
140	1375536.62	3229238.05	PC	6450.75
141	1375572.64	3229251.20	PT	6452.20

CURVE DATA

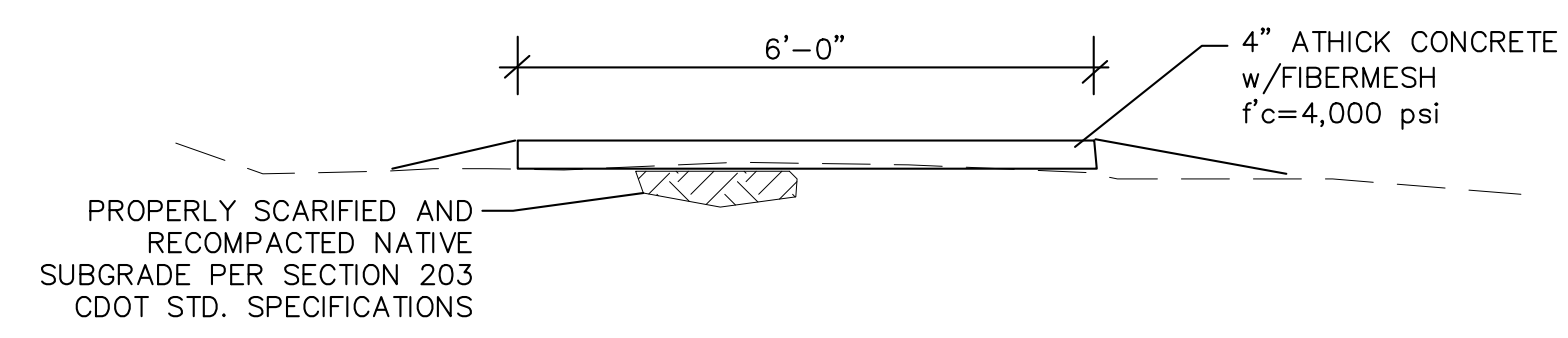
(18)	R=50.00'	(19)	R=50.00'
	L=57.13'		L=39.36'
	$\Delta=65^{\circ}27'56''$		$\Delta=45^{\circ}6'10''$



	<p style="font-size: 8px;">1604 South 21st Street          Colorado Springs, Colorado 80904          (719) 630-7342</p>	Sheet Revisions	<b>ROCK ISLAND TRAIL</b> Sand Creek to Constitution Avenue <b>FINAL TRAIL PLAN STA 71+40 TO STA 77+20</b>		Kiowa Proj. No. 16028
		No Revisions:	Designer: RNW		TAP M240-162
		Revised:	Detailer: RNW		SubAcct No. 20391
		Void:	Date: 3/14/2024		Sheet Number <b>C112</b>



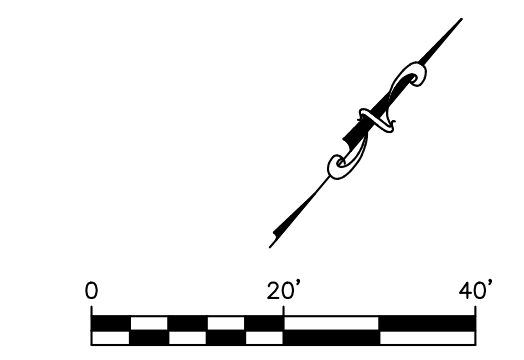
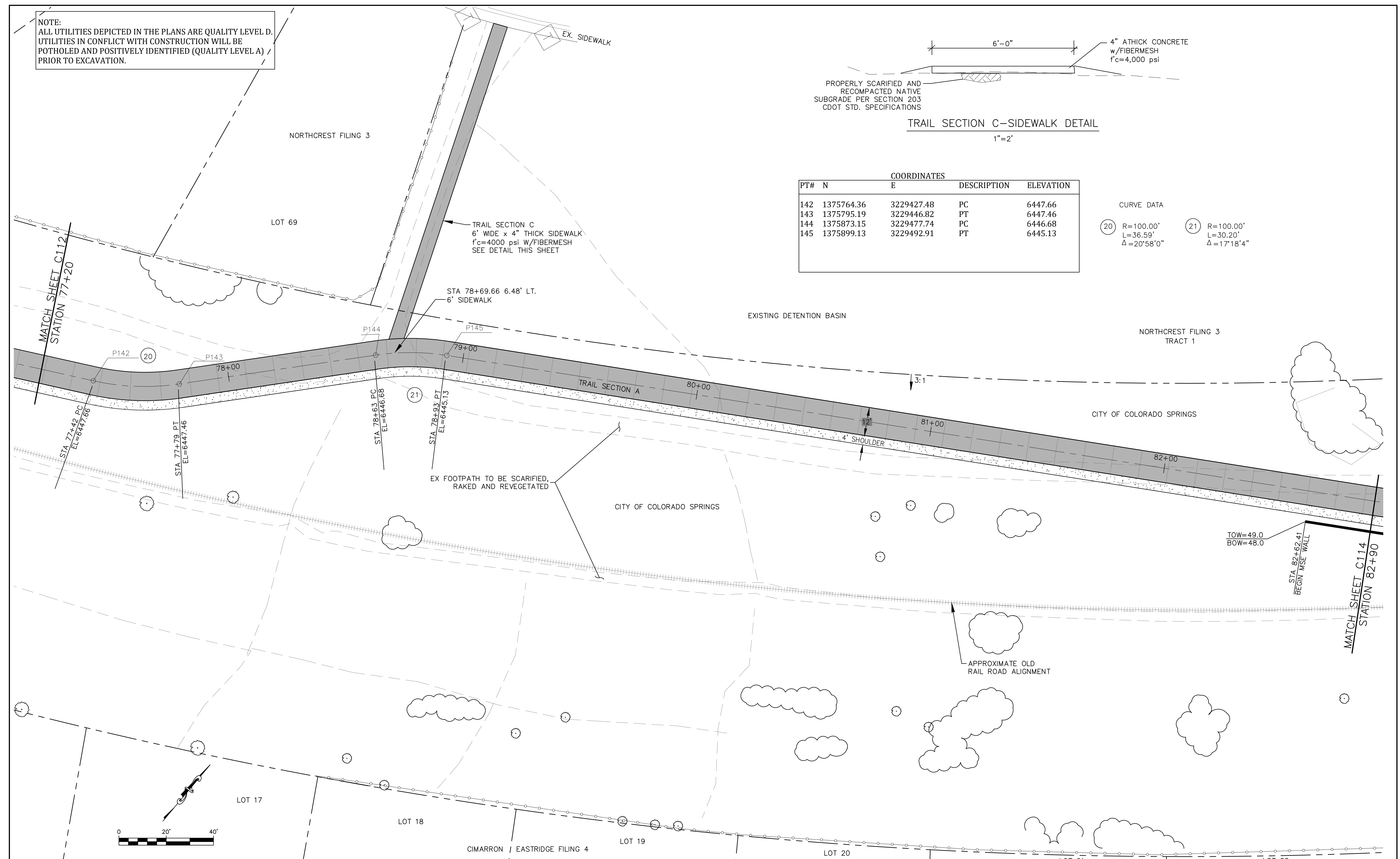
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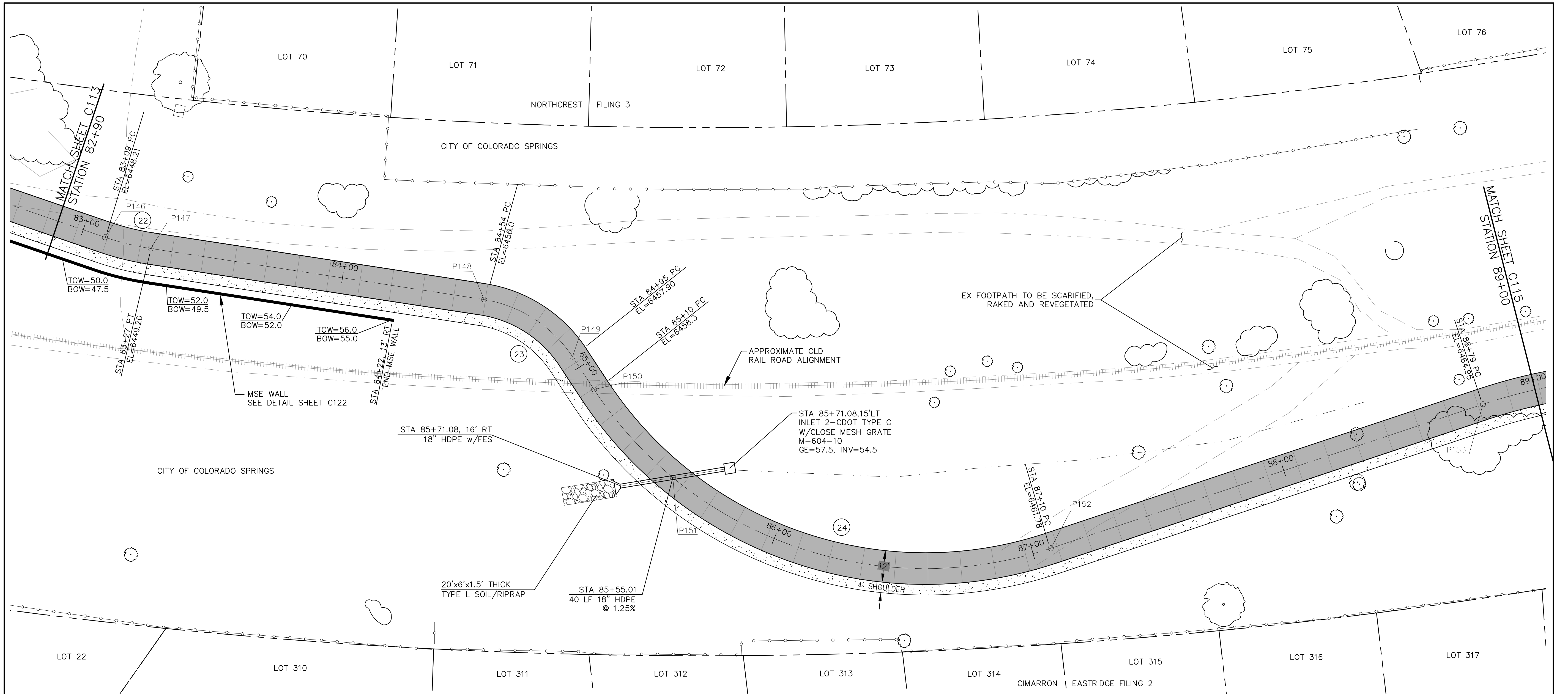
PT#	COORDINATES		DESCRIPTION	ELEVATION
	N	E		
142	1375764.36	3229427.48	PC	6447.66
143	1375795.19	3229446.82	PT	6447.46
144	1375873.15	3229477.74	PC	6446.68
145	1375899.13	3229492.91	PT	6445.13

CURVE DATA

(20)	R=100.00'	(21)	R=100.00'
	L=36.59'		L=30.20'
	Δ=20°58'0"		Δ=17°18'4"



 <b>COLORADO SPRINGS</b>	 <b>Kiowa</b> Engineering Corporation <small>1604 South 21st Street          Colorado Springs, Colorado 80904          (719) 630-7342</small>	Sheet Revisions		<b>ROCK ISLAND TRAIL</b> Sand Creek to Constitution Avenue <b>FINAL TRAIL PLAN STA 77+20 TO STA 82+90</b>		Kiowa Proj. No. 16028 TAP M240-162	
		No Revisions:	Designer: RNW Detailer: RNW		SubAcct No. 20391		
		Revised:	Date: 3/14/2024		Sheet Number <b>C113</b>		
		Void:					

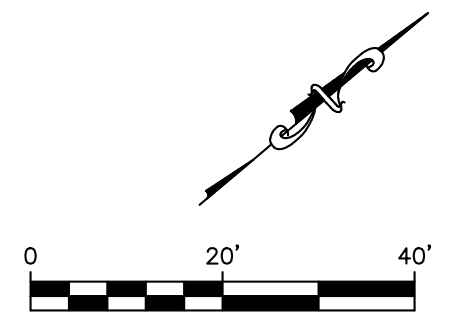
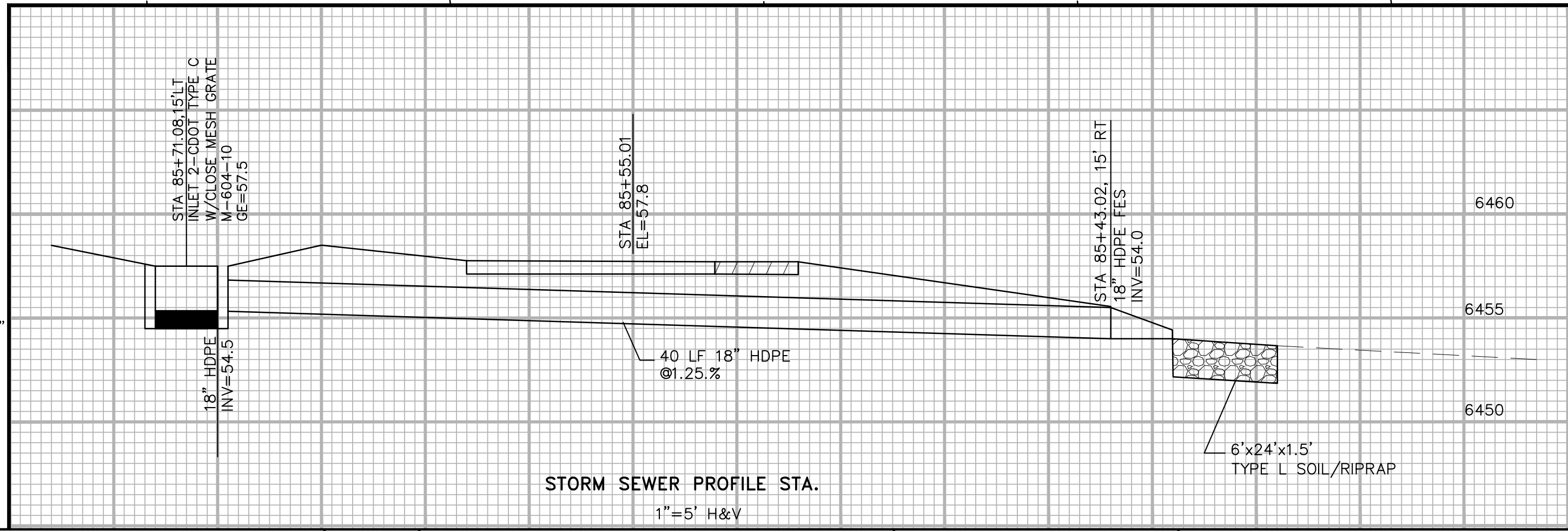


NOTE:  
ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D.  
UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE  
POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A)  
PRIOR TO EXCAVATION.

COORDINATES				
PT#	N	E	DESCRIPTION	ELEVATION
146	1376222.47	3229754.11	PC	6448.21
147	1376237.28	3229764.03	PT	6449.20
148	1376349.33	3229825.39	PC	6456.0
149	1376373.35	3229857.16	PT	6457.90
150	1376376.78	3229871.63	PC	6458.30
151	1376393.39	3229913.16	CL 18" HDPE	6457.8
152	1376518.71	3229987.26	PT	6461.78
153	1376691.11	3229991.97	PC	6464.95

CURVE DATA

22	R=100.00' L=17.85' Δ=10°13'45"	23	R=50.00' L=41.87' Δ=47°58'28"
24	R=150.00' L=196.65' Δ=75°6'53"		

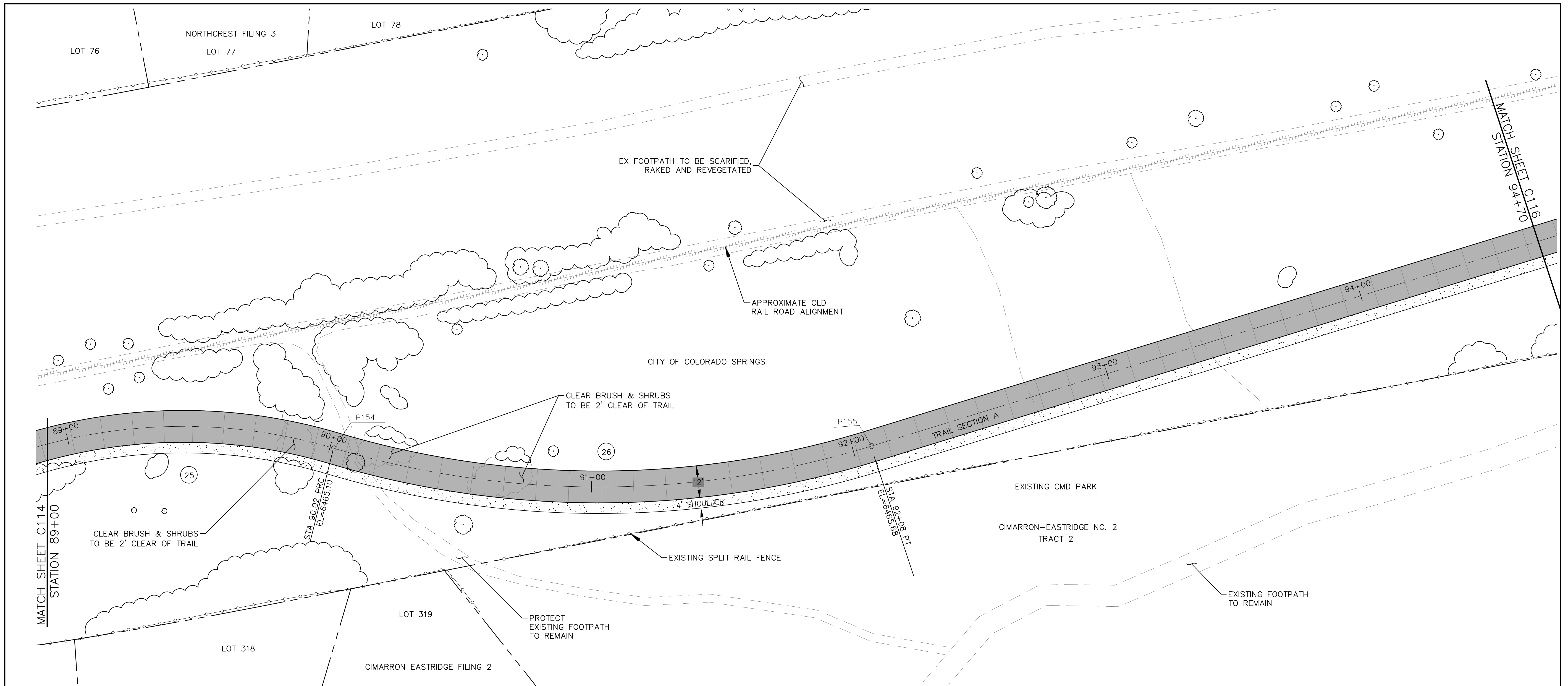


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	Revised:
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ROCK ISLAND TRAIL Sand Creek to Constitution Avenue	
FINAL TRAIL PLAN STA 82+90 TO STA 89+00	
Designer:	RNW
Detailer:	RNW
Date:	3/14/2024

Kiowa Proj. No.	16028
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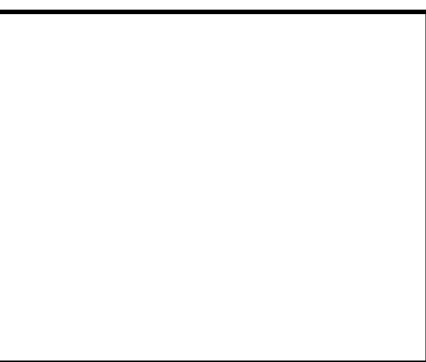
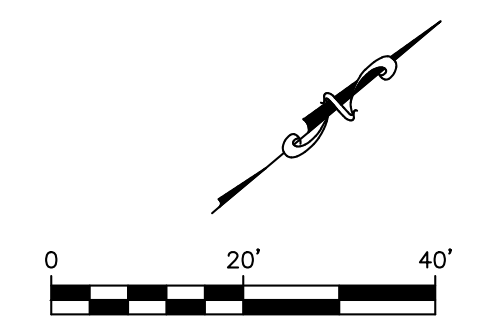
NOTE:  
 ALL UTILITIES DEPICTED IN THE PLANS ARE QUALITY LEVEL D.  
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 POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A)  
 PRIOR TO EXCAVATION.

PT#	COORDINATES		DESCRIPTION	ELEVATION
	N	E		
154	1376804.80	3220031.26	PRC	6465.10
155	1376995.36	3220099.68	PT	6465.68

CURVE DATA

(25) R=200.00'  
 L=122.18'  
 $\Delta=35^{\circ}0'7''$

(26) R=350.00'  
 L=205.40'  
 $\Delta=33^{\circ}37'30''$

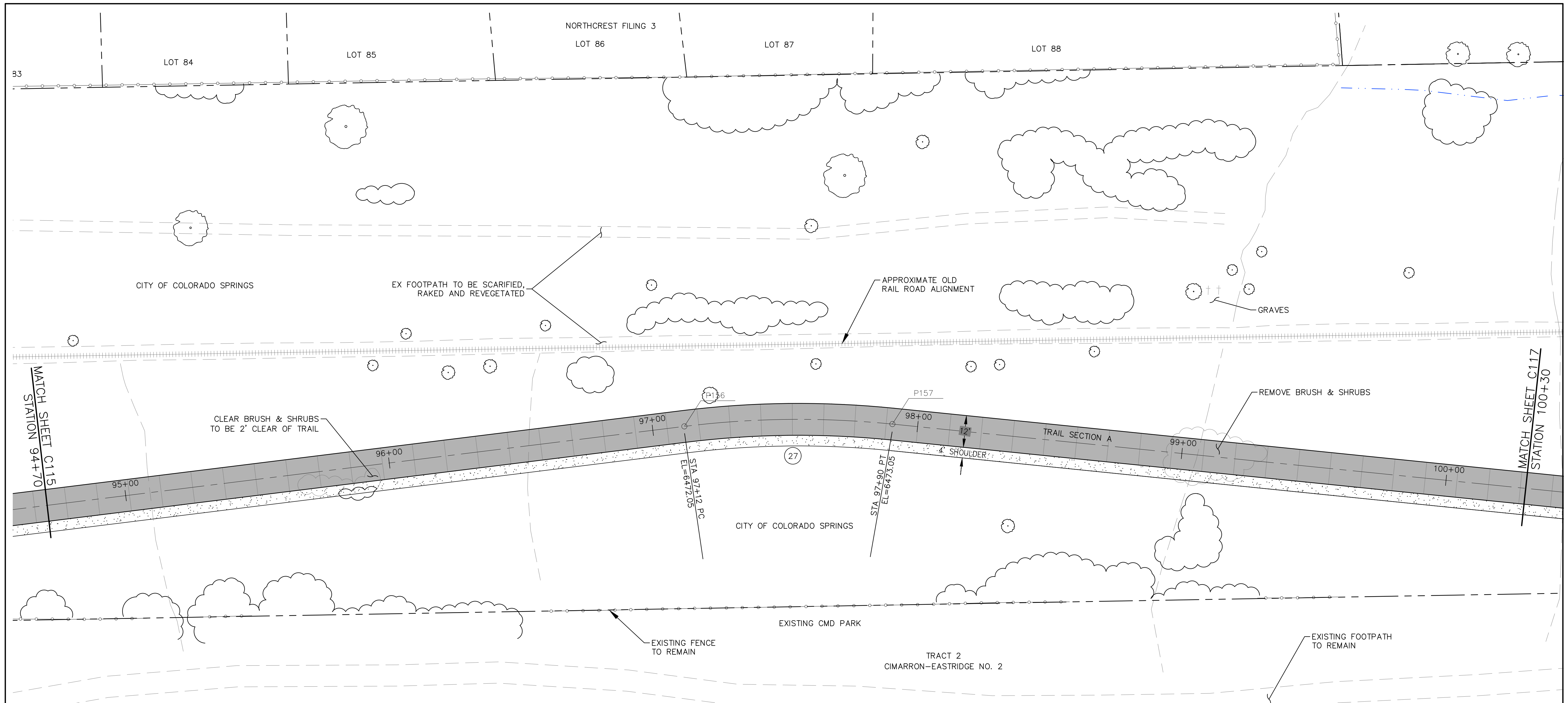


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ROCK ISLAND TRAIL Sand Creek to Constitution Avenue	
FINAL TRAIL PLAN STA 89+00 TO STA 94+70	
Designer:	RNW
Detailer:	RNW
Date:	3/14/2024

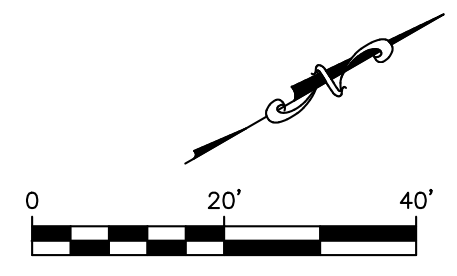
Kiowa Proj. No. 16028
TAP M240-162
SubAcct No. 20391
Sheet Number <b>C115</b>



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 UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE  
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 PRIOR TO EXCAVATION.

PT#	COORDINATES		DESCRIPTION	ELEVATION
	N	E		
156	1377499.57	322012557	PC	6472.05
157	1377576.86	3220138.32	PT	6473.05

CURVE DATA  
 27 R=350.00'  
 L=78.50'  
 Δ=12°51'3"



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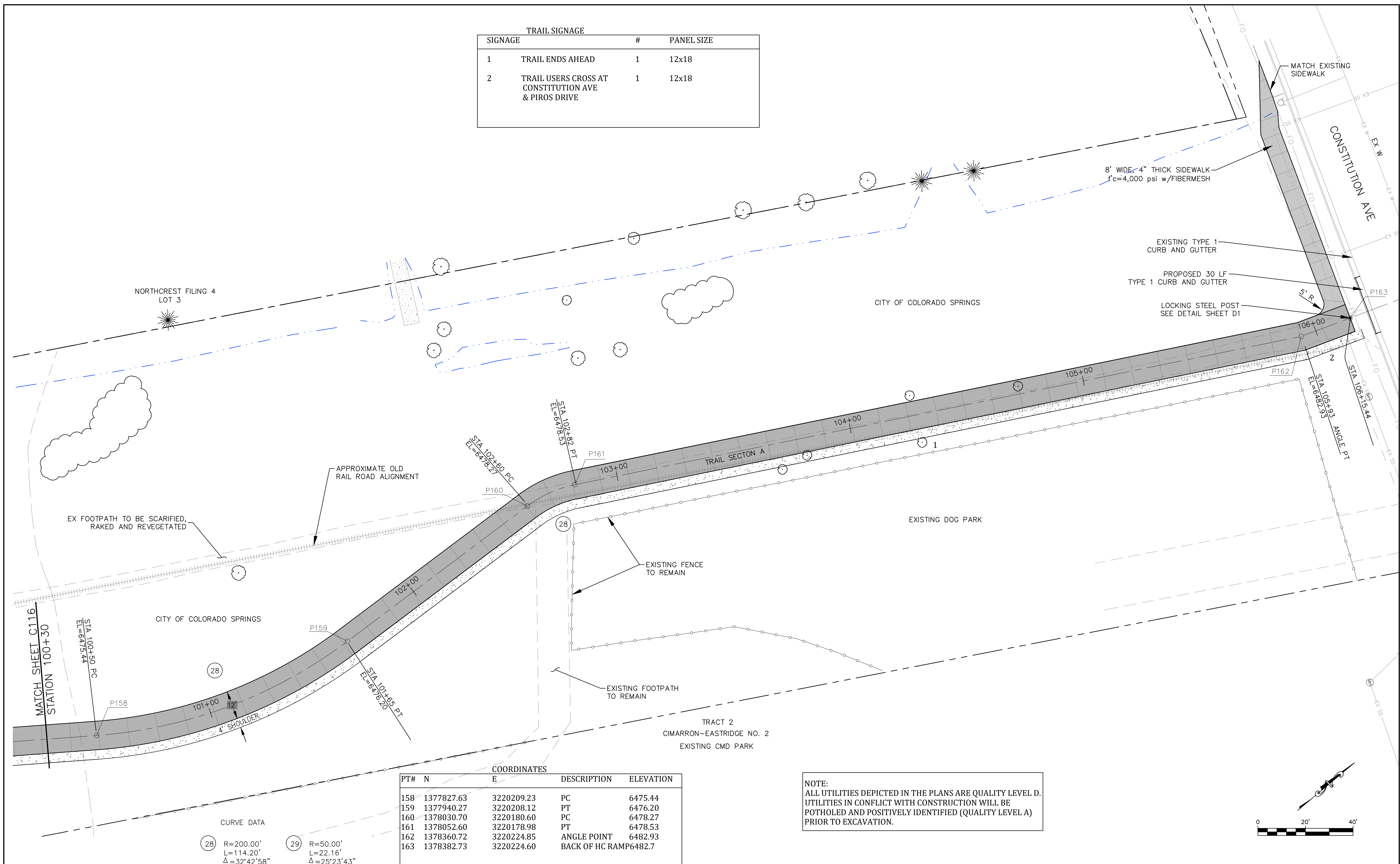
**ROCK ISLAND TRAIL**  
 Sand Creek to Constitution Avenue  
**FINAL TRAIL PLAN STA 94+70 TO STA 100+30**

Designer: RNW  
 Detailer: RNW  
 Date: 3/14/2024

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



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

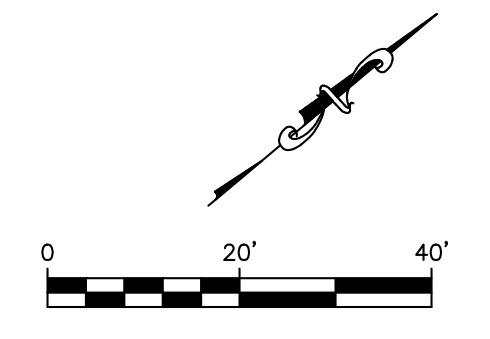


CURVE DATA

(28)	R=200.00'	(29)	R=50.00'
	L=114.20'		L=22.16'
	$\Delta=32^{\circ}42'58''$		$\Delta=25^{\circ}23'43''$

COORDINATES				
PT#	N	E	DESCRIPTION	ELEVATION
158	1377827.63	3220209.23	PC	6475.44
159	1377940.27	3220208.12	PT	6476.20
160	1378030.70	3220180.60	PC	6478.27
161	1378052.60	3220178.98	PT	6478.53
162	1378360.72	3220224.85	ANGLE POINT	6482.93
163	1378382.73	3220224.60	BACK OF HC RAMP	6482.7

NOTE:  
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UTILITIES IN CONFLICT WITH CONSTRUCTION WILL BE  
POTHOLED AND POSITIVELY IDENTIFIED (QUALITY LEVEL A)  
PRIOR TO EXCAVATION.

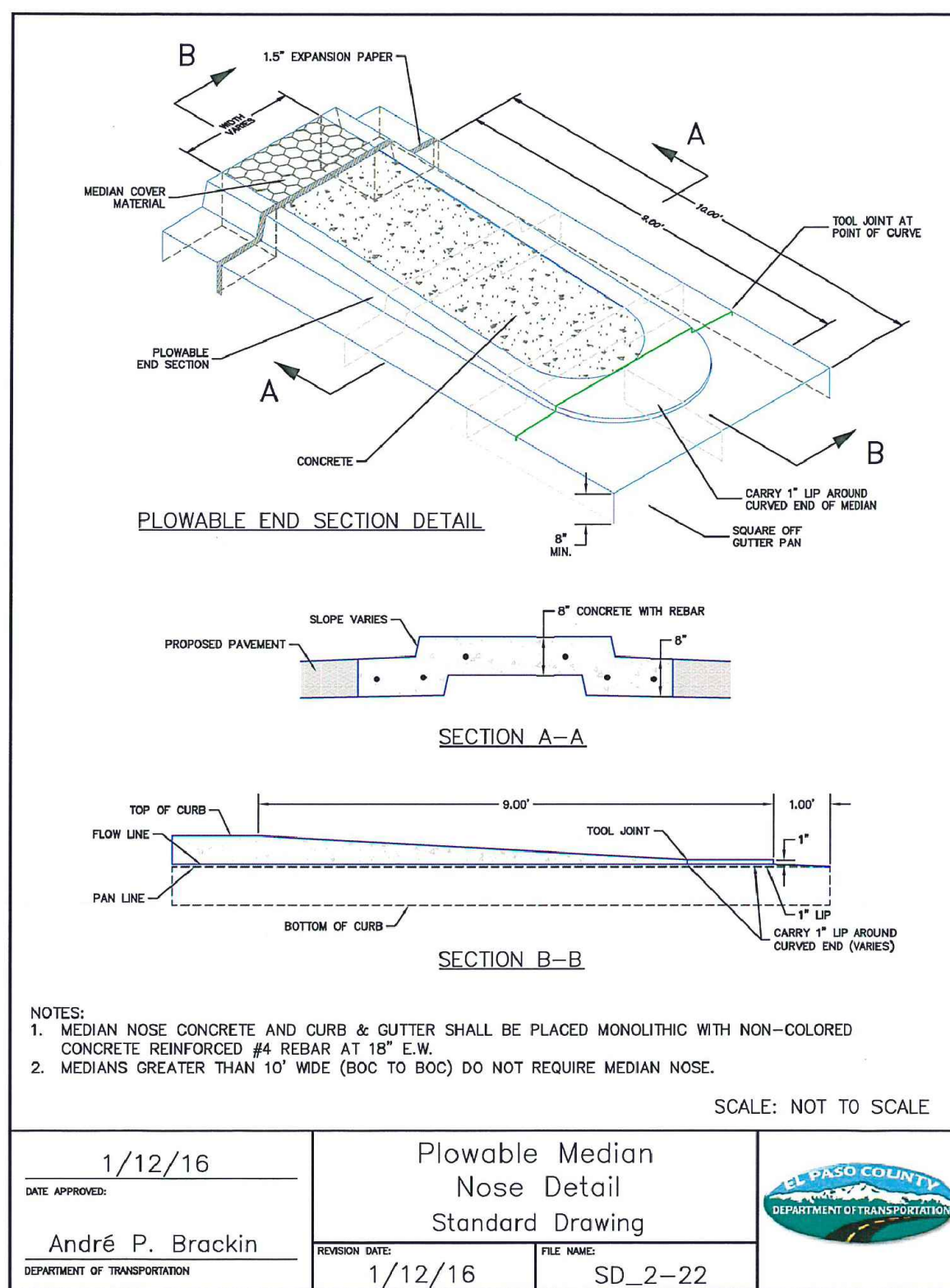


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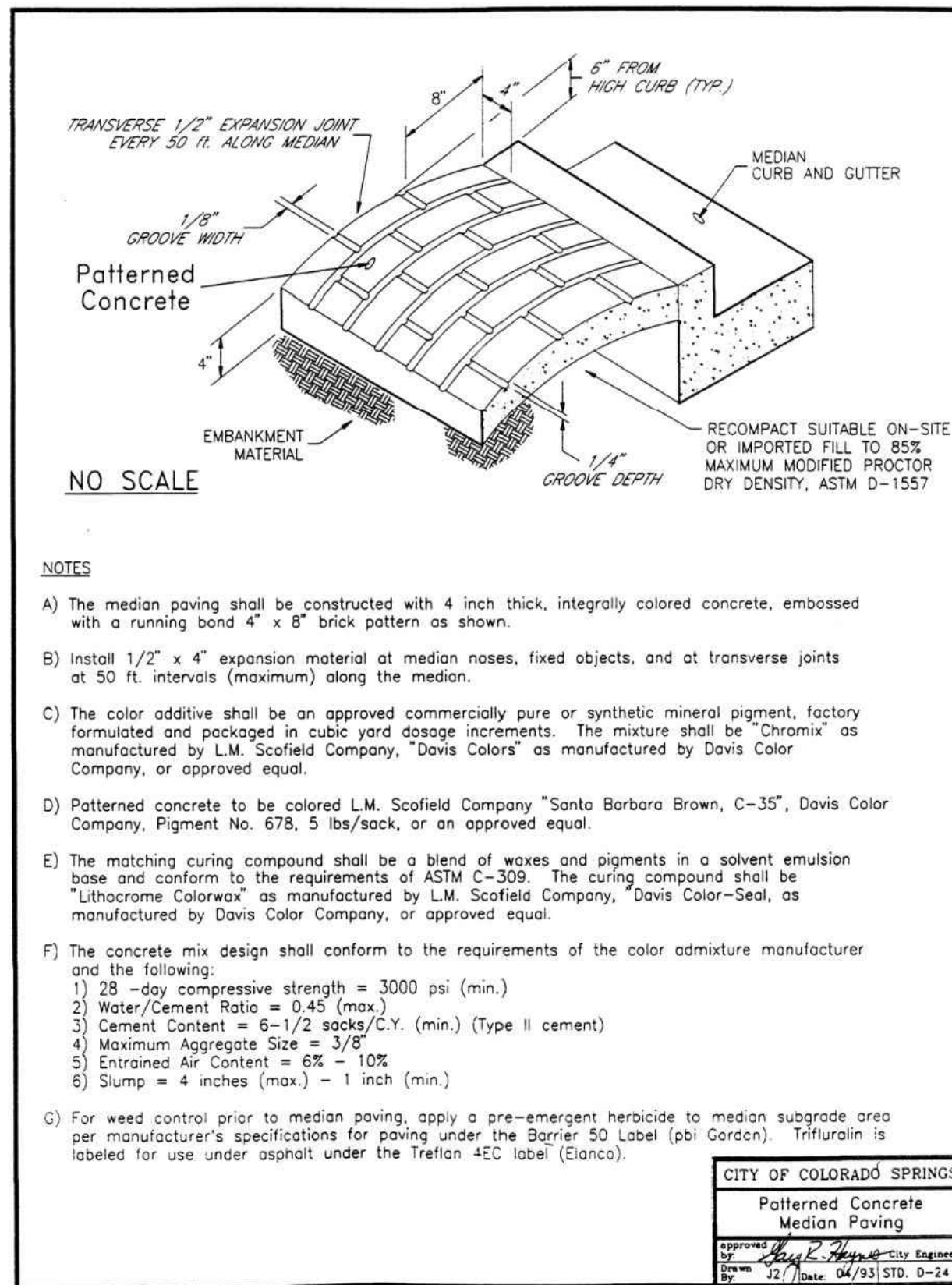
ROCK ISLAND TRAIL	
Sand Creek to Constitution Avenue	
FINAL TRAIL PLAN STA 100+30 TO STA 106+25	
Designer:	RNW
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Date:	3/14/2024

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Sheet Number <b>C117</b>

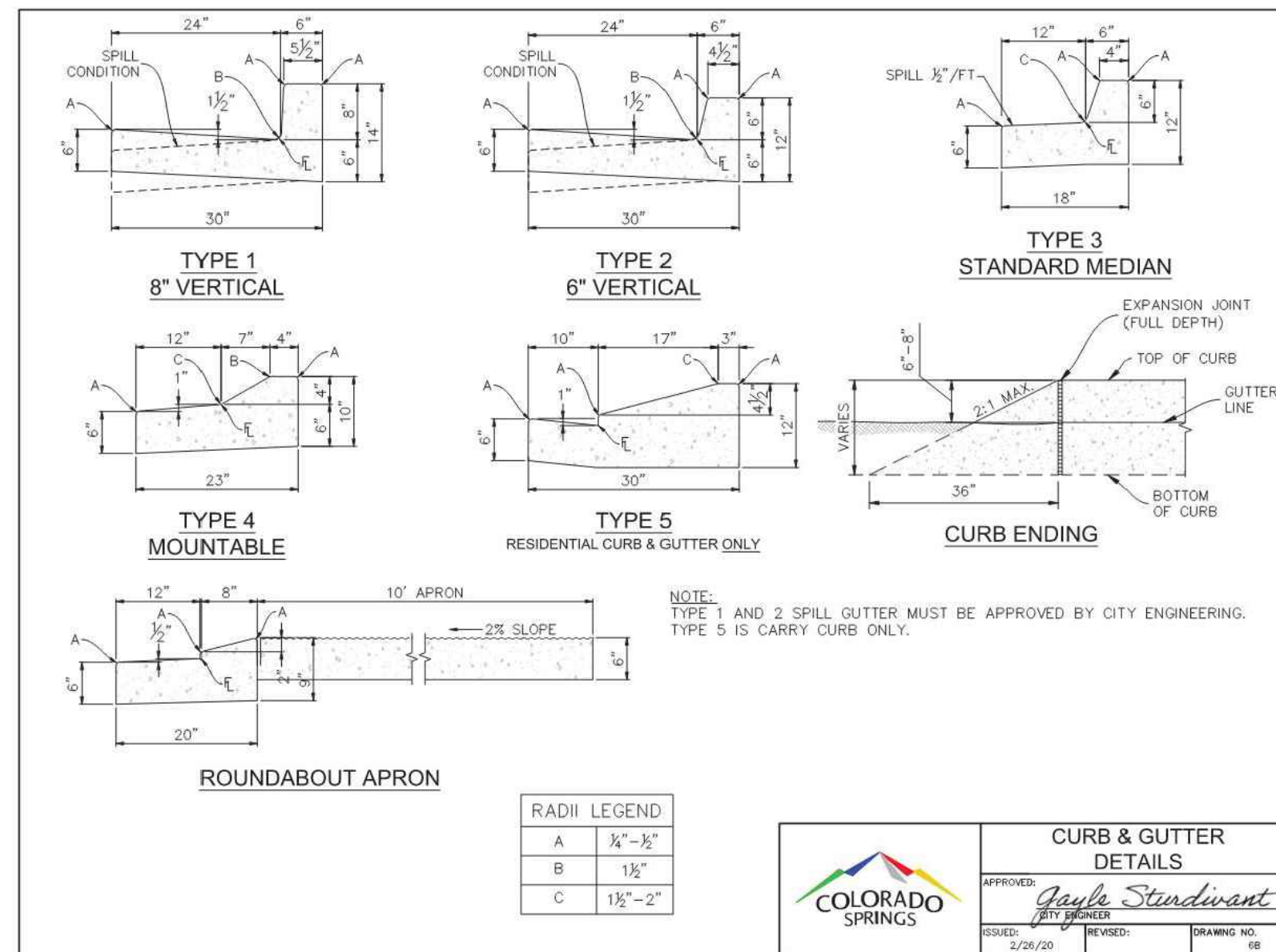




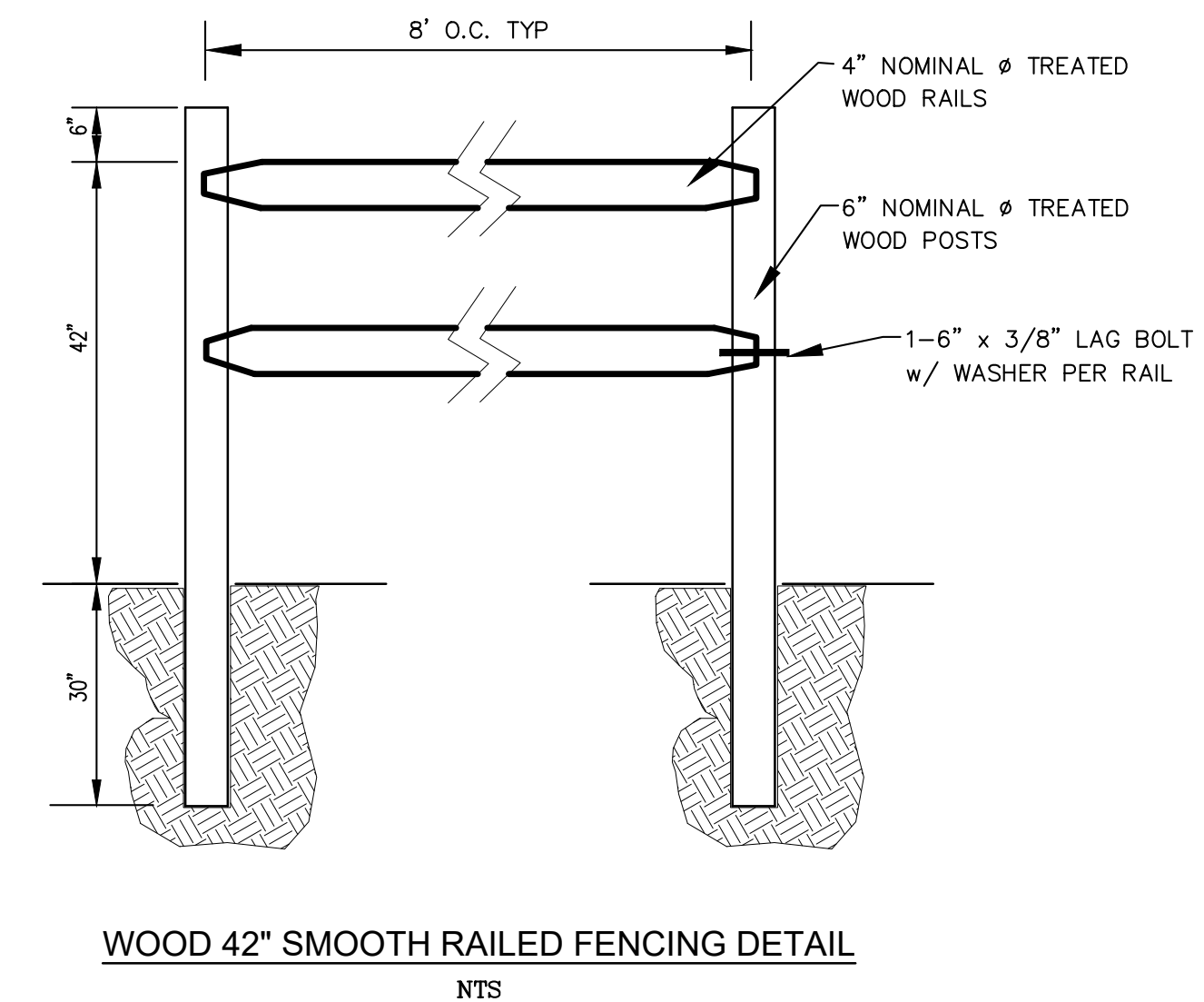
MEDIAN DETAIL



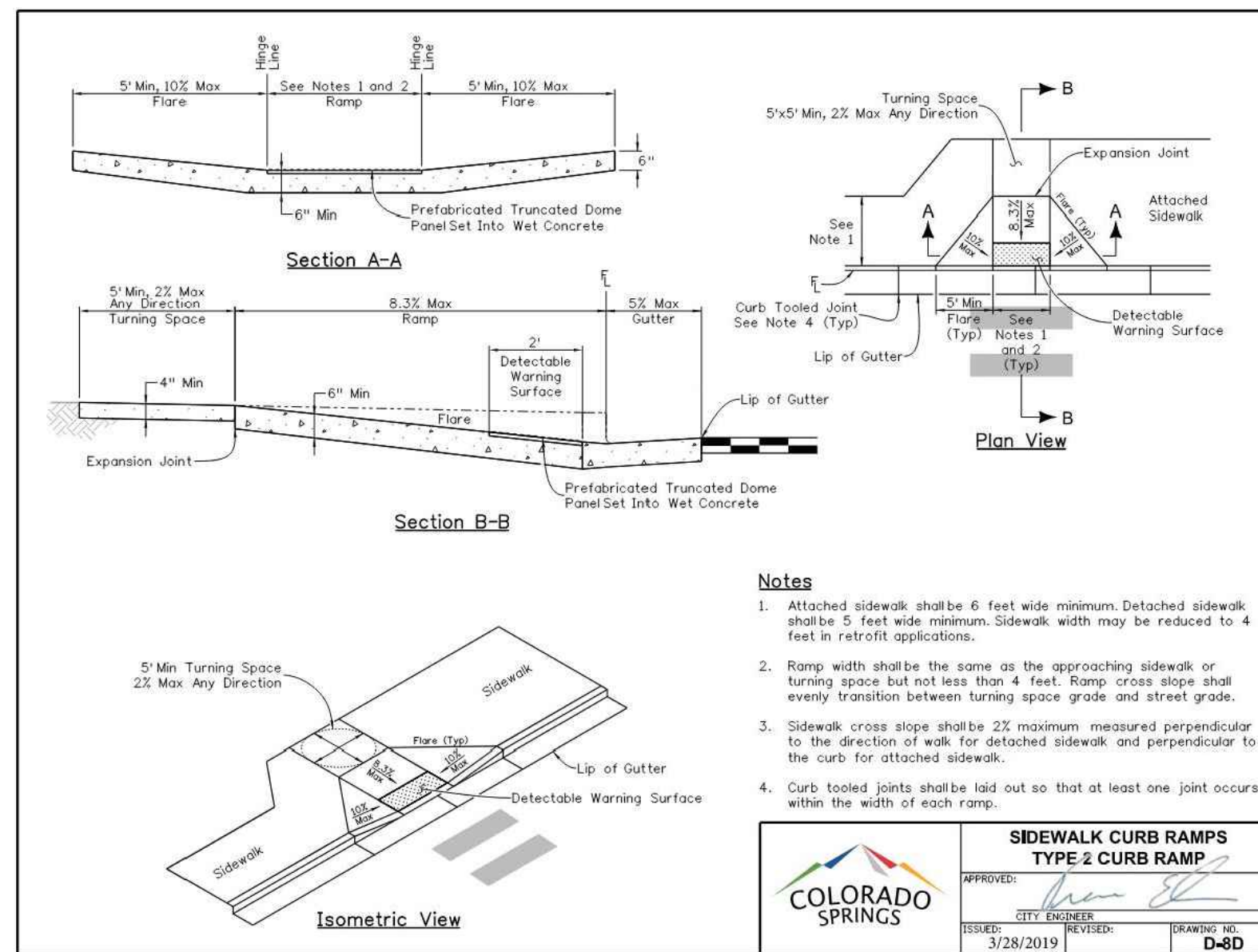
MEDIAN DETAIL



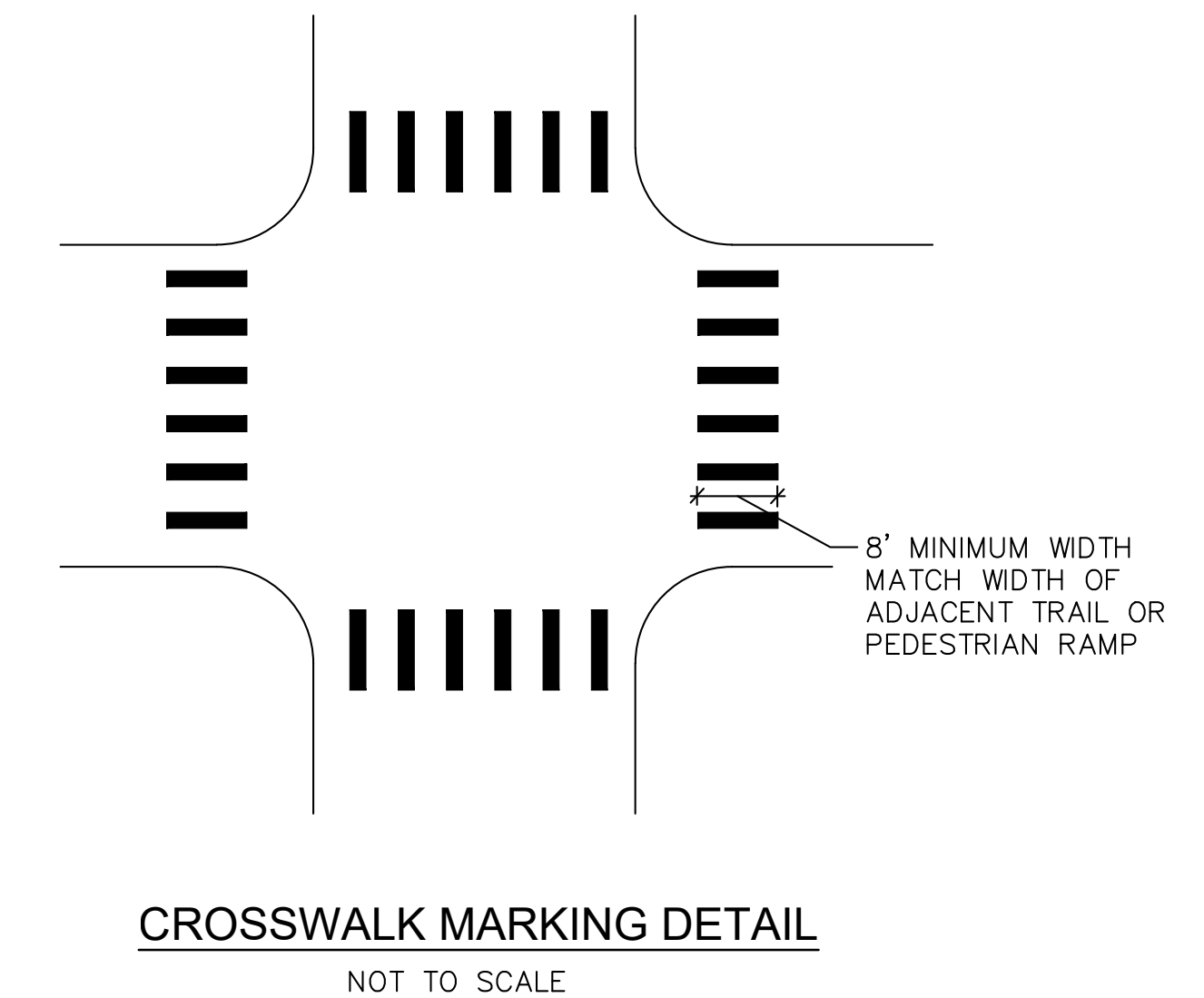
STANDARD CURB AND GUTTER



WOOD 42" SMOOTH RAILED FENCING DETAIL



EPC STANDARD RAMP DETAIL



CROSSWALK MARKING DETAIL



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ROCK ISLAND TRAIL Sand Creek to Constitution Avenue DETAILS			
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Date:	3/14/2024		

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Sheet Number <b>C121</b>



**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

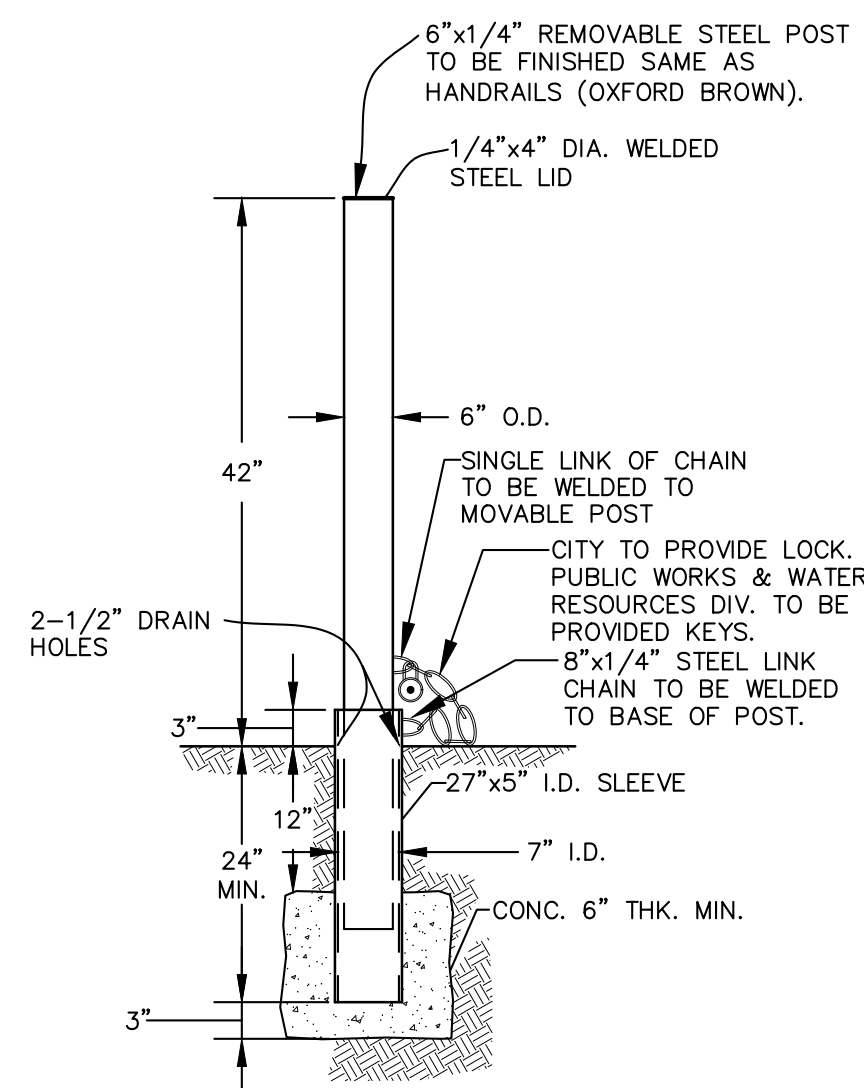
**GRADATION:**

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.

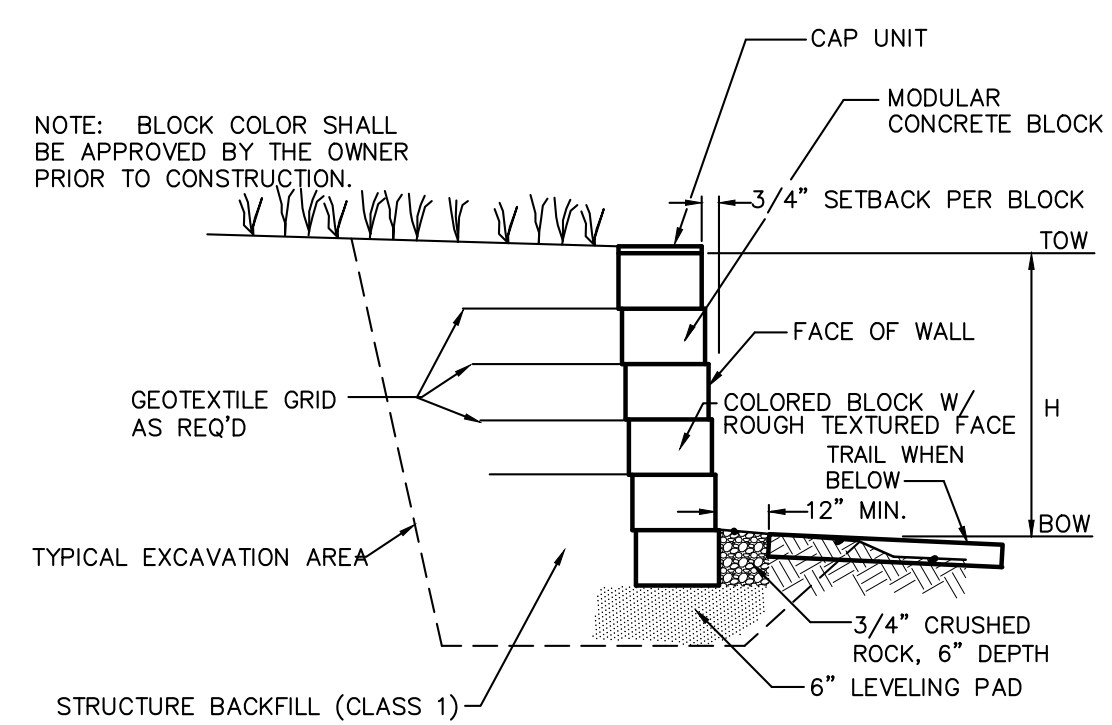
1) MECHANICAL EQUIPMENT AND LABOR NEEDED TO ASSIST IN CHECKING GRADATION SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST.

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.

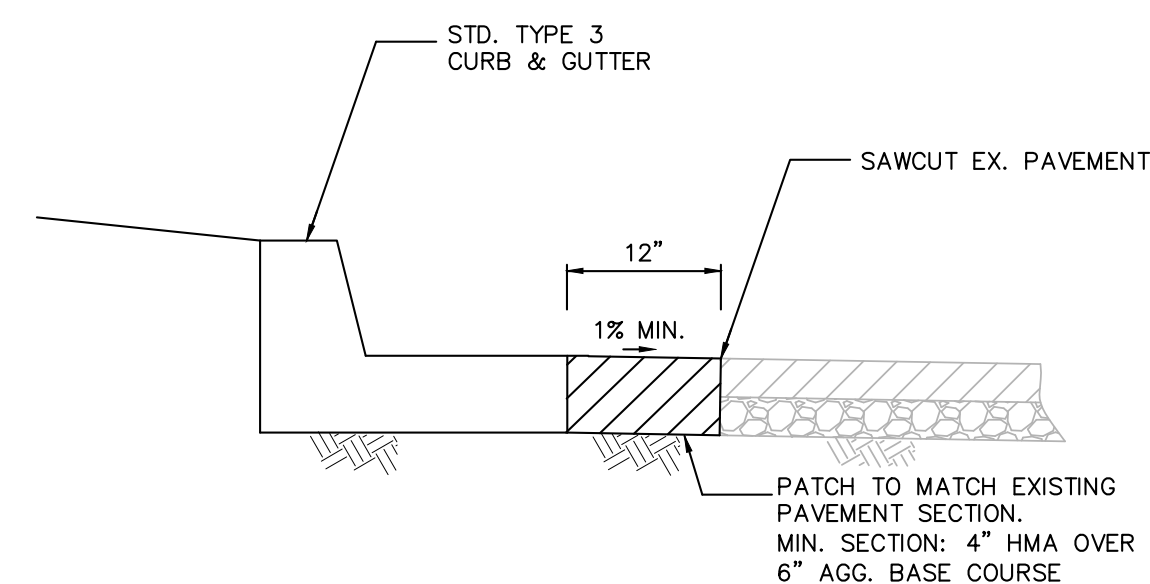


1 LOCKING STEEL POST DETAIL NOT TO SCALE

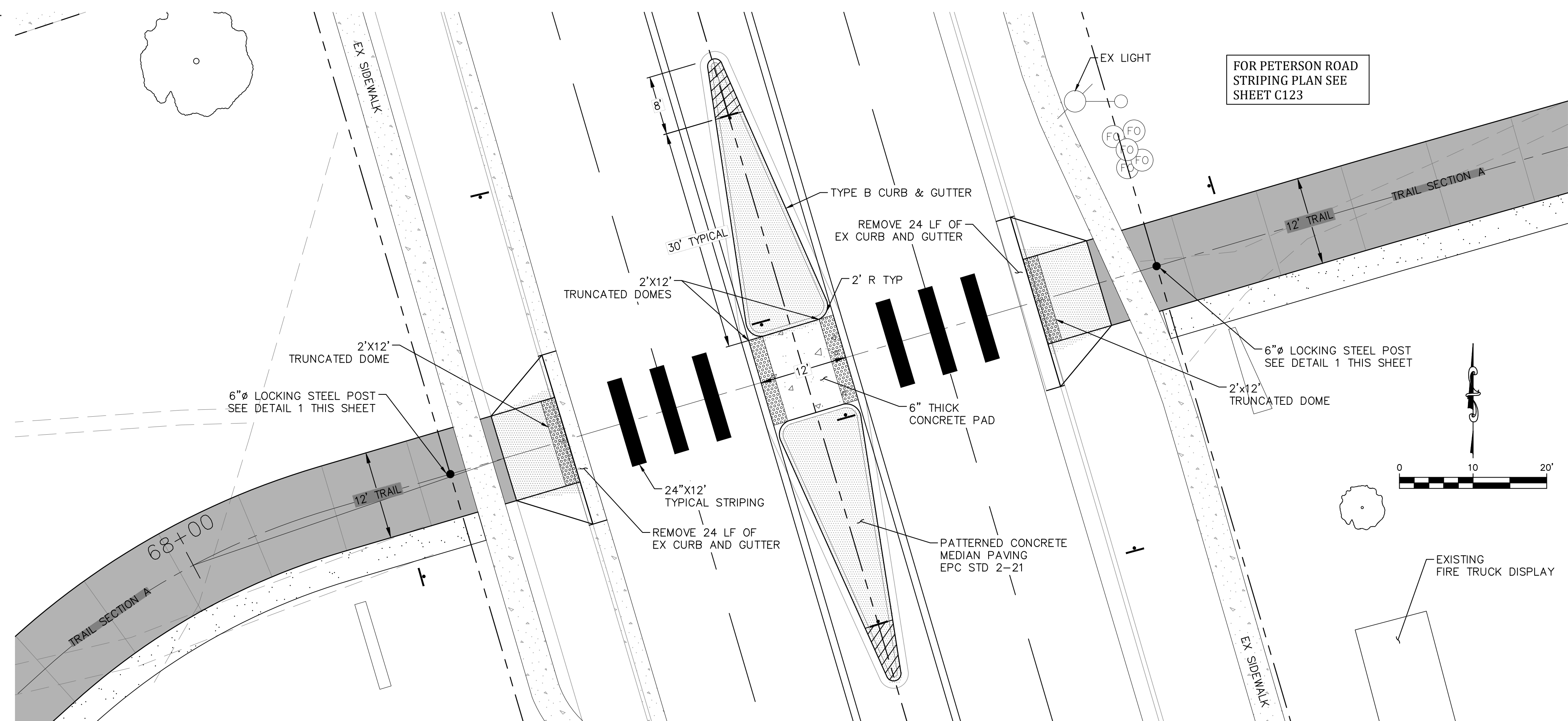


2 CONCRETE BLOCK FACING MSE WALL CROSS SECTION NOT TO SCALE

- 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. BUILDING PERMITS FOR THE INSTALLATION OF THE MSE WALL MAY BE REQUIRED THROUGH THE PIKES PEAK REGIONAL BUILDING DEPARTMENT.
  3. CONTRACTOR TO OBTAIN EPC-DPW ROAD CUT WORK PERMIT FOR WORK IN RIGHT-OF-WAY.
  4. 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.



4 REFUGE ISLAND CURB CUT NOT TO SCALE



3 REFUGE ISLAND PLAN SCALE: 1" = 10'

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)

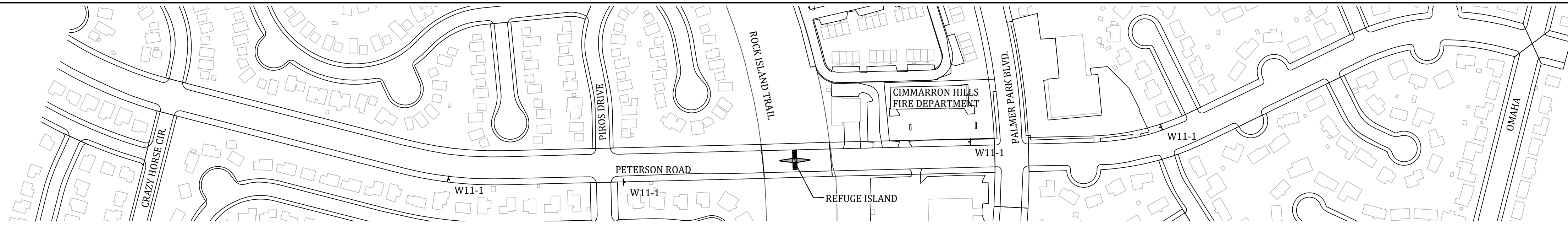


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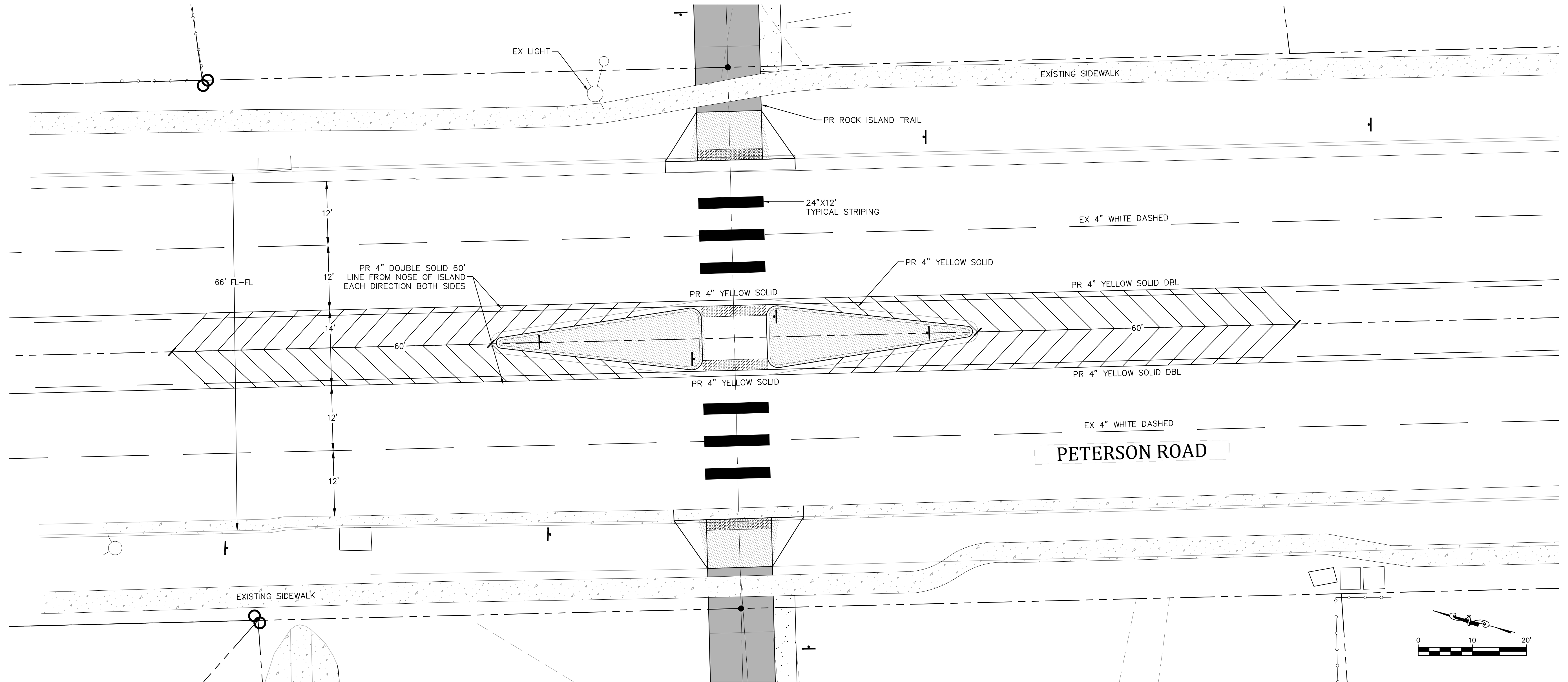
ROCK ISLAND TRAIL Sand Creek to Constitution Avenue TYPICAL MISCELLANEOUS DETAILS	
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PETERSON ROAD SIGNAGE PLAN



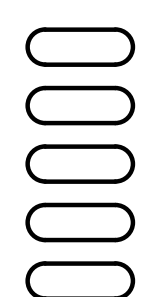
PETERSON ROAD IS A  
MINOR ARTERIAL ROADWAY.

REFUGE ISLAND STRIPING PLAN

FOR REFUGE ISLAND  
SIGNAGE, SEE SHEET C111



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Engineering Corporation  
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Colorado Springs, Colorado 80904  
(719) 630-7342



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**ROCK ISLAND TRAIL**  
Sand Creek to Constitution Avenue  
**SIGNAGE & STRIPING PLAN - PETERSON ROAD**  
Designer: RNW  
Detailer: RNW  
Date: 3/14/2024

Kiowa Proj. No. 16028

TAP M240-162

SubAcct No. 20391

Sheet Number **C123**