Town of Rico Memorandum

Date: December 10, 2025

TO: Town of Rico Boad of Trustees

FROM: Chauncey McCarthy, Rico Town Manager

SUBJECT: December Board of Trustees Meeting

Consideration of second reading of Ordinance 2025-07 an ordinance of the Town of Rico, Colorado repealing ordinance no, 241 (Pg. 19-22)

In 1974, the Town of Rico adopted Ordinance No. 241, which authorized the Town Clerk to enter into an agreement with the Colorado Division of Employment for Town officers and employees to participate in the State of Colorado's Public Employee Social Security Retirement System pursuant to Section 218 of the Federal Social Security Act.

Since that time, the Town has also enrolled its employees in the Public Employees' Retirement Association of Colorado (PERA), a qualified public retirement plan under Section 401(a) of the Internal Revenue Code. Although the Town has continued to make payments under the Social Security agreement authorized by Ordinance 241, it now intends to cease participation in Social Security and rely solely on PERA as its employee retirement program.

Repeal of Ordinance No. 241 is therefore necessary to formally authorize the Town to terminate Social Security contributions and eliminate any conflict or duplication between the two retirement systems.

The first reading of this ordinance was approved at the November 19, 2025 meeting.

Motion

Move to approve the first reading of Ordinance No. 2025-07, an ordinance of the Town of Rico, Colorado repealing Ordinance No. 241.

Moved by Trustee Scott Poston, seconded by Trustee Benn Vernadakis.

Vote. A roll call vote was taken, and the motion was approved, 7-0. Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, Trustee Gregg Anderson, Trustee Thomas Clark, Mayor Patrick Fallon and Trustee Scott Poston.

Recommended motion: I move to approve the second reading of Ordinance No. 2025-07, an ordinance of the Town of Rico, Colorado repealing Ordinance No. 241.

Consideration of Resolution 2025-06 a resolution of the Board of Trustees of the Town of Rico, Colorado, setting the water rate and fee schedule for the period beginning January 1, 2026 and ending December 31, 2026, and providing for the annual adjustment of the water rate and fee schedule. (Pg. 23-24)

In 2023, the Board of Trustees directed staff to work with a consultant to conduct a study to establish water system impact fees. GovRate, the firm that completed the impact fee study, delivered a dynamic spreadsheet designed to be updated as project costs change, new capital improvements are identified, and available grant funding or principal forgiveness opportunities are revised.

In March 2024, the Board adopted Ordinance 2024-01 imposing a water system impact fee to be collected through the subdivision process or upon the issuance of a building permit. Ordinance 2024-01 has since been incorporated into the Town's revised Water Rules and Regulations, adopted in May 2025. These Water Rules and Regulations authorize the Board of Trustees to set water rates and fees by resolution, including providing for an annual inflationary adjustment if no action is taken by the Board in a given year.

In 2025, the Town's contracted engineering firm completed the Water Project Needs Assessment, which refined and updated the Town's projected capital costs for key water system improvements. These revised costs were incorporated into the GovRate impact fee model, including updated estimates for the intake pond, water treatment plant, transmission line, and water tank replacement projects, as well as the 2025 bid for the Dolores River Crossing distribution line improvement. As a result, the total value of identified capital improvements increased from $4,973,750 in the 2024 impact fee study to $9,268,100. This revised capital project estimate increases the calculated impact fee from $6,110.00 per EQR to $9,535.00 per EQR.

The proposed Resolution 2025-06 does not increase monthly water rates or water tap fees for 2026. The only change reflected in the proposed fee schedule is the adjustment to impact fees based on the updated capital project costs identified in the 2025 Project Needs Assessment and Dolores River bid.

Recommended motion: I move to approve resolution 2025-06 a resolution of the Board of Trustees of the Town of Rico, Colorado, setting the water rate and fee schedule for the period beginning January 1, 2026 and ending December 31, 2026, and providing for the annual adjustment of the water rate and fee schedule.

Consideration of a Zone Amendment, Atlantic Cable Headframe parcel, Endless Possibilities LLC applicant (Pg. 25-44)

Endless Possibilities, LLC has submitted an application requesting an amendment to the Official Zone District Map to change the zoning of the Atlantic Cable Headframe

parcel on Highway 145 from Historic Commercial to Commercial in order to support commercial development consistent with surrounding land uses north of Silver Creek. The application asserts that the Historic Commercial designation was adopted in error, and the proposed rezoning may also meet the criteria for compatibility, community benefit, and consistency with the Rico Regional Master Plan under RLUC §418. A staff memo evaluating the request and all required submittal materials are included in the packet.

A public hearing for this application was held by the planning commission at their December 10, 2025 meeting. Their recommendation is provided below:

Motion

Move to recommend approval of zone amendment from historic commercial to commercial at the Atlantic headframe parcel, Endless possibilities LLC applicant

Moved by, Andrew Romanyshyn seconded by Skip Zeller

Vote. A roll call vote was taken, and the motion was approved, 3-0. Voting Yes Kiplynn Smith, Andrew Romanyshyn, Skip Zeller.

Appointment of Rico Planning Commission seats (Pg. 45-46)

Included in this packet are two letters of interest for the open seats on the Planning Commission.

Rico Land Use Code § 702:

702.1 MEMBERSHIP Composition. The RPC shall consist of five regular members and first and second alternate members who shall be appointed by the Board of Trustees.

702.2 Terms. Members shall be appointed for two-year staggered terms commencing on January 1st. The term for 3 regular members and the second alternate shall commence on even numbered years and the term for 2 regular members and the first alternate shall be commence on odd numbered years.

The Planning Commission currently has five (5) open seats:

- Three regular seats with expiring terms (eligible for new two-year appointments beginning January 1, 2026)
- Two alternate seats, both vacant

Staff will continue to advertise and solicit applications for the remaining vacancies following these appointments.

Recommended Motion: I move to appoint Kiplynn Smith and Andrew Romanyshyn to the Rico Planning Commission for new two-year terms commencing January 1, 2026.

Appointment of San Miguel Authority for Regional Transportation Board of Directors seat

With the resignation of Trustee Joe Dillsworth, the Board of Trustees must appoint a new Trustee to represent the Town of Rico on the SMART Board. Rico holds one voting seat on the SMART Board. The SMART Board meets on the second Thursday of each month at 3:00 PM, and meetings are typically conducted virtually.

Recommended action is for the Board to appoint one of its members to serve as Rico's SMART Board representative.

Discolored soil discovered in road segments that previously tested below action levels (Pg. 47-79)

Included in the Board packet is a staff memorandum addressing discolored soil observed in road segments previously classified as below action levels, along with other supporting documents to provide context to the discussion. These include a memo titled "Rico Road Base Sampling Summary," the document "2023 Lead Concentrations in Unpaved Road and Alley Samples," which contains a map showing the road segments that will be remediated per the existing VCUP agreement and a figure titled "Lead Concentrations in Unpaved Road and Alley Samples (0–2" Depth)."

The figure was created by ARCO in 2022 and compiles sampling data from 2004, 2008, and 2014 to illustrate the roadway segments where lead concentrations exceeded 761 mg/kg at the 0–2 inch sampling depth.

Stormwater 95% design and draft request for proposal review (Pg. 80-465)

Included in the Board packet are the 95% design documents for the Town-wide stormwater components and road remediation along with the draft Request for Proposal for the Phase 1 Road Remediation and Stormwater Improvements Project. Representatives from Anderson Engineering will be in attendance to present these materials.

Voluntary Clean Up, VCUP, year in review (Pg. 466-473)

Included in the Board packet is a memorandum from the Town's Environmental Attorney, Tom Bloomfield. A memo from ARCO providing a year-end review of accomplishments completed during the first year of the VCUP Program is expected to be circulated to the Board no later than Monday December 15, 2025. These materials summarize progress to date and document the status of required deliverables under the VCUP Implementation, Funding, and Settlement Agreement.

2026 and beyond work plan (Pg. 474-479)

Included in the packet is the 2024 and beyond work plan for the Board's review. This document is being circulated in advance so that Trustees can become familiar with the past areas of focus and be fully up to speed prior to discussion. The Work Plan will be reviewed at a future meeting. The Board should be prepared to discuss whether this Work Plan can receive adequate attention during the regular January meeting, or whether a special meeting should be scheduled

January meeting date

Staff may have a scheduling conflict with the January 21 regular Board meeting date and is requesting Board consideration of an alternate date. If agreeable to the Board, the meeting could be rescheduled to either Thursday, January 22 or Wednesday, January 28. However, if changing the date creates conflicts for Trustees, staff can adjust schedules as needed and will attend the January 21 meeting as originally planned.

Year-end bonus

The mayor has requested that the Board consider year-end bonuses for Town staff. Historically, full-time employees working under the Town Manager have received bonuses ranging from $1,000 to $1,500, while part-time staff have typically received $500. New employees hired within three months of the end of the year have not received a bonus, as they are based on performance during the prior year. The Town Manager's bonus has been determined separately by the Board of Trustees based on a performance review, with past bonuses ranging from $1,500 to $2,500

RICO TOWN BOARD MEETING MINUTES

Date: December 3, 2025
Call to Order 7:00 PM

Trustees Present:

Mayor Patrick Fallon
Mayor Pro Tem Cristal Hibbard
Trustee Gerrish Willis (zoom)
Trustee Benn Vernadakis
Trustee Gregg Anderson
Trustee Scott Poston

Trustees Absent:

Trustee Thomas Clark

Staff Present. Chauncey McCarthy, Anna Wolf (zoom)

Approval of the Agenda
Motion
To approve the agenda with the changes.
Moved by Trustee Benn Vernadakis, seconded by Trustee Cristal Hibbard

Vote. A roll call vote was taken, and the motion was approved, 6-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, and Trustee Scott Poston, Mayor Patrick Fallon, Trustee Gregg Anderson.

Action Items
Consideration of second read of Ordinance 2025-08 an ordinance of the Town of Rico, Colorado, amending ordinance no 2001-7, and 2005-5 to implement the amendments to the mill levy for the street reconstruction and maintenance fund, the allocation of sales tax revenue for street reconstruction and maintenance from the general operating fund, and the reallocation of existing mills levied for the sewer fund to the street reconstruction and maintenance fund as authorized by the Rico electorate at the November 4, 2025 election.
Mayor Patrick Fallon give introduction.
Town Manager Chauncey McCarthy gives summary.
The Board has discussion.

Motion
I move to approve the second read of Ordinance 2025-08 an ordinance of the Town of Rico, Colorado, amending ordinance no 2001-7, and 2005-5 to implement the amendments to the mill levy for the street reconstruction and maintenance fund, the allocation of sales tax revenue for street reconstruction and maintenance from the general operating fund, and the reallocation of existing mills levied for the sewer fund to the street

reconstruction and maintenance fund as authorized by the Rico electorate at the November 4, 2025 election

Moved by Mayor Patrick Fallon, seconded by Mayor Pro Tem Cristal Hibbard.

Vote. A roll call vote was taken, and the motion was approved, 6-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, and Trustee Scott Poston, Mayor Patrick Fallon, Trustee Gregg Anderson.

Consideration of second reading of Ordinance 2025-06 an ordinance of the Town of Rico, Colorado adopting the year 2026 town budget; appropriating sums of money; and setting and certifying town mill levies
Mayor Patrick Fallon gives summary.
Board has discussion.

Motion
move to approve the second reading of Ordinance 2025-06 an ordinance of the Town of Rico, Colorado adopting the year 2026 town budget; appropriating sums of money; and setting and certifying town mill levies

Moved by Mayor Pro Tem Cristal Hibbard, seconded by Trustee Benn Vernadakis.

Vote. A roll call vote was taken, and the motion was approved, 6-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, and Trustee Scott Poston, Mayor Patrick Fallon, Trustee Gregg Anderson.

Motion
To Adjourn

Moved by Trustee Benn Vernadakis, seconded by Mayor Pro Tem Cristal Hibbard.

Vote. A roll call vote was taken, and the motion was approved, 6-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, and Trustee Scott Poston, Mayor Patrick Fallon, Trustee Gregg Anderson.

_____ _____

Anna Wolf
Rico Town Clerk

Patrick Fallon
Mayor

RICO TOWN BOARD MEETING MINUTES

Date: November 19, 2025
Call to Order 7:00 PM

Trustees Present:

Mayor Patrick Fallon
Mayor Pro Tem Cristal Hibbard
Trustee Gerrish Willis (zoom)
Trustee Scott Poston
Trustee Benn Vernadakis

Trustees Absent:

Trustee Joe Dillsworth
Trustee Chris Condon

Staff Present. Chauncey McCarthy, Anna Wolf, Wilton Anderson (zoom)

Approval of the Agenda
Motion
To approve the agenda with the changes.
Moved by Trustee Benn Vernadakis, seconded by Mayor Pro Tem Cristal Hibbard

Vote. A roll call vote was taken, and the motion was approved, 5-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, and Trustee Scott Poston, Mayor Patrick Fallon.

Approval of the Minutes
Pat abstains from the vote as he was not present.
Motion
To approve the minutes.
Moved by, Mayor Pro Tem Cristal Hibbard, seconded by Trustee Benn Vernadakis.

Vote. A roll call vote was taken, and the motion was approved, 4-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, and Trustee Scott Poston,
Abstained Mayor Patrick Fallon.

Consent Agenda
Payment of the Bills

Motion
To approve payment of the bills.

Moved by Mayor Pro Tem Cristal Hibbard, seconded by Trustee Benn Vernadakis

Vote. A roll call vote was taken, and the motion was approved, 5-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, and Trustee Scott Poston, Mayor Patrick Fallon.

Action Items
Consideration of second reading of Ordinance 2025-05 an ordinance of the Town of Rico, Colorado amending the year 2025 budget and approving supplemental appropriations of money
Mayor Patrick Fallon gives summary.

Motion
Move to approve the second reading of Ordinance 2025-05 an ordinance of the Town of Rico, Colorado amending the year 2025 budget and approving supplemental appropriations of money

Moved by Trustee Benn Vernadakis, seconded by Mayor Pro Tem Cristal Hibbard

Vote. A roll call vote was taken, and the motion was approved, 5-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, and Trustee Scott Poston, Mayor Patrick Fallon.

Swearing in of the new members of the Rico Board of Trustees

Trustees Present:

Mayor Patrick Fallon
Mayor Pro Tem Cristal Hibbard
Trustee Gerrish Willis (zoom)
Trustee Scott Poston
Trustee Benn Vernadakis
Trustee Thomas Clark
Trustee Gregg Anderson

Trustees Absent:

Public Comment:

Presentation
Performance Services
Stephen Riveras, Dave Koch, Kate Sawyer and give presentation.
The Board has a discussion.
Public Comment: Jim Baron

Montelores Coalition
Kalin Grigg and Tom Rice gives their presentation.

Action Items
Consideration of a proposal for code-compliance and renovation of a 1-bedroom house, Presbyterian Manse
Mayor Patrick Fallon and Benn Vernadakis recuse themselves due to financial gains.
Mayor Pre Tem give introduction
Town Manager Chauncey McCarthy gives summary.
Public Comment: Jim Baron
Motion
I move to approve the proposal from Uncle Woody's Woodwork for code-compliance and renovation of the one-bedroom house at 110 E. Mantz Avenue in an amount not to exceed $33,425, and to authorize Town staff to purchase materials necessary for the project, with a total project cost not to exceed $43,425.

Moved by Trustee Gregg Anderson, seconded by Trustee Scott Poston.

Vote. A roll call vote was taken, and the motion was approved, 5-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Gregg Anderson, Trustee Thomas Clark, and Trustee Scott Poston,
Abstained Mayor Patrick Fallon, Trustee Benn Vernadakis.

Consideration of first reading of Ordinance 2025-06 an ordinance of the Town of Rico, Colorado adopting the year 2026 town budget; appropriating sums of money; and setting and certifying town mill levies
Mayor Patrick Fallon gives summary.
Board has discussion.

Motion
move to approve the first reading of Ordinance 2025-06 an ordinance of the Town of Rico, Colorado adopting the year 2026 town budget; appropriating sums of money; and setting and certifying town mill levies with the Manse improvements added as a line item of $43,425.

Moved by Trustee Benn Vernadakis, seconded by Mayor Pro Tem Cristal Hibbard.

Vote. A roll call vote was taken, and the motion was approved, 7-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, Trustee Gregg Anderson, Trustee Thomas Clark, Mayor Patrick Fallon and Trustee Scott Poston.

Consideration of first reading of Ordinance 2025-07 an ordinance of the Town of Rico, Colorado repealing ordinance no, 241
Town Manager Chauncey McCarthy gives summary.
Board has discussion.

Motion
Move to approve the first reading of Ordinance No. 2025-07, an ordinance of the Town of Rico, Colorado repealing Ordinance No. 241.

Moved by Trustee Scott Poston, seconded by Trustee Benn Vernadakis.

Vote. A roll call vote was taken, and the motion was approved, 7-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, Trustee Gregg Anderson, Trustee Thomas Clark, Mayor Patrick Fallon and Trustee Scott Poston.

Consideration of first read of Ordinance 2025-08 an ordinance of the Town of Rico, Colorado, amending ordinance no 2001-7, and 2005-5 to implement the amendments to the mill levy for the street reconstruction and maintenance fund, the allocation of sales tax revenue for street reconstruction and maintenance from the general operating fund, and the reallocation of existing mills levied for the sewer fund to the street reconstruction and maintenance fund as authorized by the Rico electorate at the November 4, 2025 election.
Mayor Patrick Fallon gives summary.
The Board has a discussion.
Public comment: Jim Baron.
Legal to give path forward.

Motion
I move to approve on first reading Ordinance No. 2025-08, an ordinance of the Town of Rico, Colorado, amending Ordinance Nos. 2001-7 and 2005-5 to implement the amendments to the mill levy and the reallocation of revenues for the Street Reconstruction and Maintenance Fund as authorized by the Rico electorate at the November 4, 2025 election.

Moved by Mayor Pro Tem Cristal Hibbard, seconded by Trustee Scott Poston.

Vote. A roll call vote was taken, and the motion was approved, 7-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, Trustee Gregg Anderson, Trustee Thomas Clark, Mayor Patrick Fallon and Trustee Scott Poston.

Water usage fee waiver request, Account 120, Jude Guthridge
Town Manager Chauncey McCarthy gave summary
Town Board has discussion

Motion
I move to approve a reduction of Account No. 120's water bill from $2,362 to the standard monthly rate of $42.

Moved by Trustee Benn Vernadakis, seconded by Trustee Gregg Anderson.

Vote. A roll call vote was taken, and the motion was approved, 7-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, Trustee Gregg Anderson, Trustee Thomas Clark, Mayor Patrick Fallon and Trustee Scott Poston.

Staff Report
Clerk's report:
Election update.
Getting the New Marshal set up.
CMCA conference update
Ordinance review to come to the Town Board soon.
Reorganizing the Court house.

Manager's report
Rico won the Small community of the Year.
The Church committee will report to the Board in January. Electric backup heaters installed.
Planning commission seats are coming to the Board to assign next month.
The Ice Rink will be delivered on the 15th of December.
Holiday Ice rink kickoff party on December 26th at 5pm.

Discussion Items
Water system update
Town manager Chauncey McCarthy gives update.
Board has discussion

Special event permit
Town manager Chauncey McCarthy gives update.
Board has discussion
For Profit and over 100 people should require a special event permit.
Town Staff to bring Dolores County special event permit to the board in December

Mayor Patrick Fallon: We have an Executive Session for matters scheduled on the agenda pursuant to C.R.S. § 24-6-402(4)(b) to
conference with the town attorney for the purposes of receiving legal advice on a specific legal question related
to extension of the temporary moratorium on the acceptance of new land use applications for major or minor
subdivisions, and residential or commercial planned unit developments as proposed in Ordinance No. 2025-09,
as well as matters related to Leah Lane and the associated legal costs Leah lane lawsuit

Motion
I move to go into an executive session pursuant to C.R.S. § 24-6-402(4)(b) to conference with the town attorney

for the purposes of receiving legal advice on a specific legal question related to extension of the temporary
moratorium on the acceptance of new land use applications for major or minor subdivisions, and residential or
commercial planned unit developments as proposed in Ordinance No. 2025-09 as well as matters related to Leah
Lane lawsuit.

Moved by Mayor Pro Tem Cristal Hibbard, seconded by Trustee Benn Vernadakis.

Vote. A roll call vote was taken, and the motion was approved, 7-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, Trustee Gregg Anderson, Trustee Thomas Clark, Mayor Patrick Fallon and Trustee Scott Poston.

Mayor Patrick Fallon:
It's November 19, 2025 and the time is 21:49o'clock p.m. For the record, I am the presiding officer, Mayor Patrick Fallon. As required by the Open Meetings Law, this executive session is being electronically recorded.
Also present at this executive session are the following persons:
Board of Trustees: Cristal Hibbard, Thomas Clark, Gregg Anderson, Benn Vernadakis, Gerrish Willis, and Scott Poston
Town Manager Chauncey McCarthy,
Town Clerk Anna Wolf
Town Attorney Wilton Anderson
This is an executive session called pursuant to C.R.S. § 24-6-402(4)(b) to conference with the town attorney for the purposes of receiving legal advice on a specific legal question regarding extension of the temporary moratorium on the acceptance of new land use applications for major or minor subdivisions, and residential or commercial planned unit developments as proposed in Ordinance No. 2025-09 as well as matters related to Leah lane lawsuit I caution each participant to confine all discussion to the stated purpose of the executive session, and that no formal action may occur in the executive session.

Town Attorney Wilton Anderson: As Town Attorney, it is my opinion that the receipt of legal advice from myself concerning the extension of the temporary moratorium on the acceptance of new land use applications for major or minor subdivisions, and residential or commercial planned unit developments as proposed in Ordinance No.
2025-09 constitutes a privileged attorney-client communication that is authorized for discussion in an executive session pursuant to C.R.S. § 24-6-402(4)(b). I am therefore recommending that no further record be kept of this executive session.

MAYOR: The time is now 22:33 p.m., I have turned the recording device back on because the
privileged attorney-client communication is finished.

MAYOR: The time is now 22:33 p.m. and the executive session is concluded. If any

Board of Trustee member believes that any discussion in the executive session was inappropriate and not related to the topic and purpose of the executive session announced in the motion to go into executive session, please state your objections at this time.
Hearing none, as Mayor, I hereby attest that this recording reflects the actual discussion at the executive session. It has been made to satisfy the recording requirements of the Colorado Open Meetings Law. I hereby request that the Town Clerk retain the record for a 90-day period.
It is now 22:34 o'clock p.m.

Motion
Move to continue the question of the Temporary moratorium to a date uncertain.
Moved by Mayor Patrick Fallon, seconded by Trustee Benn Vernadakis.

Vote. A roll call vote was taken, and the motion was approved, 7-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, Trustee Gregg Anderson, Trustee Thomas Clark, Mayor Patrick Fallon and Trustee Scott Poston.

Motion
To Adjourn
Moved by Trustee Benn Vernadakis, seconded by Mayor Pro Tem Cristal Hibbard.

Vote. A roll call vote was taken, and the motion was approved, 7-0.
Voting Yes Trustee Gerrish Willis, Mayor Pro Tem Cristal Hibbard, Trustee Benn Vernadakis, Trustee Gregg Anderson, Trustee Thomas Clark, Mayor Patrick Fallon and Trustee Scott Poston.

_____ _____

Anna Wolf
Rico Town Clerk

Patrick Fallon
Mayor

NEW Town of Rico - General Fund

Check Register

For the Period From Dec 1, 2025 to Dec 31, 2025

Filter Criteria includes: Report order is by Date.

Check #	Date	Payee	Cash Account	Amount
18592	12/10/25	LP Propane LLC	10000	400.00
18593	12/10/25	Jon Kelly	10000	375.00
18594	12/10/25	Vectra Bank Colorado	10000	27,853.75
18595	12/10/25	Slavens, Inc	10000	397.54
18596	12/10/25	Karp Neu Hanlon, PC	10000	5,715.00
18597	12/10/25	Orkin	10000	152.00
18598	12/10/25	Rico Telephone Company	10000	188.42
18599	12/10/25	Kaplan Kirsch LLC	10000	9,756.20
18600	12/10/25	Century Link	10000	57.01
18601	12/10/25	San Miguel Power Associ	10000	199.00
18602	12/10/25	WM Corporate Services, I	10000	55.31
Total				45,149.23

NEW Town of Rico - Open Park Fund

Check Register

For the Period From Dec 1, 2025 to Dec 31, 2025

Filter Criteria includes: Report order is by Date.

Check #	Date	Payee	Cash Account	Amount
1823	12/10/25	San Miguel Power Associ	11000	30.00
Total				30.00

2018 NEW Town of Rico - Street Fund

Check Register

For the Period From Dec 1, 2025 to Dec 31, 2025

Filter Criteria includes: Report order is by Date.

Check #	Date	Payee	Cash Account	Amount
3034	12/10/25	Slavens, Inc	10000	202.52
3035	12/10/25	Rico Telephone Company	10000	45.36
3036	12/10/25	WM Corporate Services, I	10000	371.30
3037	12/10/25	San Miguel Power Associ	10000	127.00
Total				746.18

NEW Town of Rico - Water Fund

Check Register

For the Period From Dec 1, 2025 to Dec 31, 2025

Filter Criteria includes: Report order is by Date.

Check #	Date	Payee	Cash Account	Amount
4807	12/10/25	Rico Telephone Company	10000	109.71
4808	12/10/25	LP Propane LLC	10000	200.00
4809	12/10/25	La Plata County PH Dept	10000	77.00
4810	12/10/25	Karp Neu Hanlon	10000	390.73
4811	12/10/25	UPS	10000	65.78
4812	12/10/25	San Miguel Power Associ	10000	539.00
4813	12/10/25	AT&T Mobility	10000	111.44
4814	12/10/25	PVS DX, INC	10000	10.00
Total				1,503.66

TOWN OF RICO
ORDINANCE NO. 2025-07

AN ORDINANCE OF THE TOWN OF RICO, COLORADO, REPEALING ORDINANCE NO. 241

WHEREAS, the Town of Rico, Colorado (the "Town") is a Colorado home rule municipality organized pursuant to Article XX of the Colorado Constitution and with the authority of the Rico Home Rule Charter (the "Charter"); and

WHEREAS, on May 3, 1974, the Town's Board of Trustee's (the "Board") adopted Ordinance No. 241 authorizing the Town Clerk to voluntarily enter into an agreement with the Colorado Division of Employment for Town officers and employees to be covered by the State of Colorado's Public Employee Social Security Retirement System pursuant to Section 218 of Title II of the Federal Social Security Act, as amended; and

WHEREAS, the Town intends to cease making the federal social security payments authorized under Ordinance No. 241; and

WHEREAS, instead of federal social security payments authorized under Ordinance No. 241, the Town has paid into the Public Employees' Retirement Association of Colorado ("PERA") to provide retirement benefits to its officers and employees; and

WHEREAS, PERA is a qualifying public retirement plan under the Internal Revenue Code Section 401(a); and

WHEREAS, the Board desires to repeal Ordinance No. 241, and any amendments thereto, to eliminate any potential confusion regarding the retirement benefits provided to Town employees and officers; and

WHEREAS, the Board finds and declares that it is necessary to repeal and replace Ordinance No. 241, and any amendments thereto, as set forth herein and it is proper in light of the needs and desires of the Town.

NOW THEREFORE, BE IT ORDAINED BY THE BOARD OF TRUSTEES OF THE TOWN OF RICO THAT:

Section 1. The recitals above are hereby adopted as findings and incorporated herein.

Section 2. The Town of Rico hereby repeals Ordinance No. 241, dated May 3, 1974, and any amendments thereto.

Section 3. This Ordinance shall take effect immediately on final adoption.

THIS ORDINANCE WAS, FOLLOWING PUBLIC NOTICE, INTRODUCED, READ, AND APPROVED ON FIRST READING, AND ORDERED PUBLISHED BY TITLE ONLY ON NOVEMBER 19TH, 2025.

TOWN OF RICO, COLORADO

_____
Patrick Fallon, Mayor

ATTEST:

_____
Anna Wolf, Town Clerk

THIS ORDINANCE WAS, FOLLOWING PUBLIC NOTICE, INTRODUCED, READ ON SECOND READING, PASSED AND ORDERED PUBLISHED BY TITLE ONLY TO BE EFFECTIVE IMMEDIATELY ON DECEMBER 17TH, 2025.

TOWN OF RICO, COLORADO

_____
Patrick Fallon, Mayor

ATTEST:

_____
Anna Wolf, Town Clerk

Effective Date: December 17, 2025

ORDINANCE NO. 241

ORDINANCE PERTAINING TO THE PARTICIPATION OF THE TOWN OF RICO IN THE PUBLIC EMPLOYEE'S SOCIAL SECURITY SECTION OF THE DIVISION OF EMPLOYMENT OF THE STATE OF COLORADO:

As the 38th General Assembly of the State of Colorado, in regular session, enacted Chapter, 1951 Session Laws, (now known as CRS 111-7, 1963, as amended) to enable political subdivisions of the State to voluntarily take all action necessary to effectuate coverage of certain officers and employees under the old-age, survivors, disability, and health insurance system pursant to Section 218 of Title II of the Federal Social Security Act, as amended; and, as the Division of Employment of the Department of Labor and Employment is the designated authority to implement and adminster the State's Public Employee's Social Security Retirement system to provide for the coverage of certain officers and employees under the said old-age, survivors, disability, and health insurance system; be it ordained by the Town Council of Rico that it is the considered opinion of this body that the extension of the Social Security system to certain officers and employees of the Town of Rico will be of great benefit, not only to the employees of the Town of Rico by providing that certain officers and employees may participate in the old-age, survivors, disability, and health insurance, but will also be of great benefit to the Town of Rico by enabling it to attract and retain im employment the best of personnel and thus increase the efficiency of its government.

The Rico Town Clerk is hereby authorized to negotiate, execute, and deliver to the Division of Employment, this plan and a State-Local agreement, required under Section 5 of said enabling Act and the Social Security Act, to extend coverage to certain officers and employees of the Town of Rico and do all other things to effectuate coverage of certain officers and employees under the old-age, survivors, disability, and health insurance system.

The Rico Town Clerk is hereby authorized to establish a system of payroll deductions to be matched by payments by the Town of Rico to be paid into the Colorado social security contribution fund through the Division of Employment, and to make charges of this cost to the fund, or funds, from which wage or salary payments are issued to employees of the Town of Rico. Such payments are to be made in accordance with the provisions of the Federal Insurance Contributions Act on all services which constitute employment within the meaning of the Act. Payments made to the Division of Employment shall be due and payable as shall bear interest at the rate of six per cent per annum until such time as payments due are made.

Appropriation is hereby made from the General Fund of the

Town of Rico in the required amount to pay into the Colorado social security contribution fund as provided in Section 5 (3) (a) of the enabling Act and in accordance with this plan and the State Local Goverment.

Authority is hereby given to the Rico Town Clerk of the Town of Rico to enter into an agreement with the Division of Employment, which agreement shall be in accordance with CRS 111-7, 1963, as amended, and with Section 218 of Title II of the Social Security Act. This plan and the State-Local agreement shall provide that the participation of this Town of Rico shall be effective on April 1, 1974.

Dated this 3rd day of May, 1974.

Signed:
Cecelia Mangold, Trustee
Diana Fahrion, Trustee
Tony Ferando, Trustee
Tom H. Myers, Trustee

ATTEST:
Karen E. Randol
Town Clerk

TOWN OF RICO
RESOLUTION NO. 2025-06

A RESOLUTION OF THE BOARD OF TRUSTEES OF THE TOWN OF RICO, COLORADO, SETTING THE WATER RATE AND FEE SCHEDULE FOR THE PERIOD BEGINNING JANUARY 1, 2026 AND ENDING DECEMBER 31, 2026, AND PROVIDING FOR THE ANNUAL ADJUSTMENT OF THE WATER RATE AND FEE SCHEDULE.

WHEREAS, the Town of Rico Water Operations Rules and Regulations, Article VIII Sections 8.1, 8.2, 8.3 and 8.4, establishes the collection of water tap fees, water system improvement fees, service charges and surcharges and authorizes the Board of Trustees (the "Board") to set the water rate and fee schedule by resolution; and

WHEREAS, the Board desires to set the water rate and fee schedule by resolution consistent with the Water Operations Rules and Regulations; and

WHEREAS, the Board further desires to establish annual adjustments to the water rate and fee schedule.

NOW, THEREFORE, BE IT RESOLVED, **BY THE BOARD OF TRUSTEES OF THE TOWN OF RICO, COLORADO:**

1. The above recitals are hereby incorporated as findings by the Board of Trustees of the Town of Rico, Colorado.

2. The water tap fees, water system improvement fees, service charges and surcharges established in the Water Operations Rules and Regulations, Article VIII Sections 8.1, 8.2, 8.3 and 8.4, shall be as set forth in **Exhibit A**.

3. Unless otherwise adjusted by the resolution of the Rico Board of Trustees, the water tap fees, water system improvement fees, service charges and surcharges set herein shall, beginning in 2027, be adjusted annually based on the prior years' average inflation as established by the Engineering News Record McGraw-Hill Construction Weekly Building Cost Index for Denver, Colorado, to be effective January 1 of each year.

APPROVED AND ADOPTED BY THE BOARD OF TRUSTEES OF THE TOWN OF RICO on December 17, 2025.

By: _____
Patrick Fallon, Mayor

Attest: _____
Anna Wolf, Town Clerk

APPENDIX A

All rates and fees set forth herein may be amended from time to time

WATER SERVICE RATES

TAP FEE SCHEDULE

Usage Tiers Residential	Minimum Monthly Charge for Use 0 to 3,000 gallons per month	Rate for Use over 3,000 gallons up to 8,000 gallons per month	Rate for Use over 8,000 gallons up to 12,000 gallons per month	Rate for Use over 12,000 gallons per month
Residential	$42	$6 / 1,000 gallons	$10 / 1,000 gallons	$15 / 1,000 gallons
Usage Tiers Commercial	**Minimum Monthly Charge for Use 0 to 6,000 gallons per month**	**Rate for Use over 6,000 gallons up to 10,000 gallons per month**	**Rate for Use over 10,000 gallons up to 15,000 gallons per month**	**Rate for Use over 15,000 gallons per month**
Commercial	$75	$6 / 1,000 gallons	$10 / 1,000 gallons	$15 / 1,000 gallons
Late Fee	$15.00 + 12% per annum			
Shutoff Fee	$75.00			

Water Tap Size	Minimum Fee for Cost of Tap*
¾" Water Tap	$12,500
1" Water Tap	$22,500
1 ¼" Water Tap	$37,000
1 ½" Water Tap	$50,000
2" Water Tap	$86,000

*Water Taps shall be subject to a minimum fee as shown here in this Tap Fee Schedule, and applicants shall be required to submit a water demand analysis for the proposed project. The Building Official shall require an additional fee over and above the minimum fee as indicated by the water demand analysis.

SYSTEM IMPROVEMENT FEE SCHEDULE

Meter Size (inches)	EQR*
¾"	1
1"	1.67
1 ½"	3.33
2"	5.33
3"	10.7
4"	16.7
6"	33.3

*The cost of one (1) EQR shall be $9,535.00

TOWN OF RICO
INCORPORATED OCTOBER 11, 1879
2 North Commercial Street
Post Office Box 9
Rico, Colorado 81332
Office # 970.967.2861
Fax # 970.967.2862
www.ricocolorado.gov

12/ 5

To: Rico
From: Chauncey McCarthy, Town Manager
Subject: Rezoning / Zoning Amendment Request – Endless Possibilities, LLC (Contillo Property), Atlantic Cable Headframe Parcel

Endless Possibilities, LLC (Mike & Katie Contillo) has submitted an application for an Amendment to the Official Zone District Map, requesting to rezone their property located at the Atlantic Cable Headframe on Highway 145 from Historic Commercial (HC) to Commercial (C).

The parcel is approximately 0.62 acres (Parcel #504736205001) and contains the historic Atlantic Cable Headframe, which is subject to a historic preservation and conservation easement. The applicants state that the current Historic Commercial zoning was adopted in error and does not reflect the physical conditions, development feasibility, or surrounding land use context north of Silver Creek.

414. APPLICATION FOR AMENDMENT
The application shall at a minimum, shall include the following information:

414.1. The name, address, and telephone number of the Applicant shall be provided.
Submittal requirement met
414.2. The petition shall clearly state the requested change or amendment and describe the property to be affected by such request by metes and bounds or by other legal description
Submittal requirement met

414.3. The petition shall be accompanied by a title certificate from a licensed title company or opinion from an attorney listing the name of the property owner(s) and all liens, easements and judgments of record that affect the title to the subject property.
Submittal requirement not met, applicant provided deed verifying ownership
414.4. A statement from the County Treasurer showing the status of all current taxes due on said parcel.
Submittal requirement met
414.5. If applicable, certified boundary survey of land area affected by the Amendments, along with an indication of the existing zoning, predominant existing uses, and existing zoning designations within two hundred (200) feet in all directions of the boundary of the land area affected by the Amendments.
Submittal requirement met
414.6. If applicable, legible maps at a suitable scale for review, as determined by the Town Planner, which demonstrate the proposed Amendments (maps and surveys may be combined).
Submittal requirement met
414.7. If applicable, a list of surrounding property owners and their legal mailing addresses within two hundred (200) feet of the exterior boundary of the parcel proposed to be zoned or rezoned.
Submittal requirement met
414.8. A request and explanation for any exception to providing the information requested above.
Submittal requirement met
414.9. A statement by the Applicant explaining the rationale for the Amendment request relative to the standards imposed by 418.
Submittal requirement met
414.10. An application fee as set forth in Appendix A.
Submittal requirement met

Below are the standards for review for a zone amendment. The Board of Trustees shall review the application against each standard. If the Board concludes that the application meets the requirements of all the standards of RLUC Section 418 a approval can be issued.

418. STANDARDS FOR REVIEW OF AMENDMENT APPLICATIONS
The Rico Planning Commission and the Board of Trustees shall use the following standards for review of Amendment applications. The reviewing board shall find that either standard 418.1 is met or that standards 418.2 through 418.4 are met prior to recommending or approving a proposed Amendment.

418.1. The existing Zone District classification or desired Master Plan land use was adopted in error; or,
The applicant asserts that the Historic Commercial zoning was adopted in error because, it is the only HC-zoned parcel north of Silver Creek; surrounding zoning is Commercial. HC standards (zero front/side setbacks, western facade, on-street parking assumptions) are not physically feasible due to highway curvature, safety, and topography. The historic commercial "core" does not extend across the natural break at Silver Creek.

This meets the criteria for a finding under 418.1, if accepted by the Commission. If the Commission does not find an adoption error, then all of the following must be met:

418.2. the proposed Amendment is compatible with the land uses in the surrounding area; and,

418.3. the proposed Amendment will serve a community need and thereby promote the public health, safety, or welfare of the Rico community and the public services and infrastructure are adequate to meet the needs of the proposed Amendment; and,

418.4. the proposed Amendment is consistent with the purposes of the RLUC and the goals and objectives of the Rico Regional Master Plan.

Application to Amend the Rico Land Use Code or Rico Zone District Map

Applicant Name Katie Contillo Phone Number 970-708-4745

Address 111 HINCKLEY DR / PO BOX 115 Cell Phone Number

Email Katelyncontillo@gmail.com Fax Number

Street Address of Subject Property Highway 145 Rico CO 81332

Legal Description of Subject Property Portion of the Atlantic Cable Lode, MS 1136, located within the Pioneer Mining District & being situated within Section 25, Township 40 North, Range 11 West, N.M.P.M. Town of Rico, Dolores County, Colorado

Zone District of Subject Property Historic Commercial

Proposed Zone District of Subject Property Commercial

Attachments Required:

☒ Two (2) 11" by 17" paper maps, one (1) electronic (pdf) site plans showing the following:

✓North Arrow and Scale	Notes
✓Legend	Adjacent lots showing existing zoning
Vicinity Map	Lot and street labels
Legal Description	Right-of-way dimensions
Lot lines with dimensions and acreage	Names of adjoining subdivisions if applicable

N/A ☐ **If a text change is proposed, a written description of the proposed change to the text of the subject Article, including the citation of the portion of the Article to be changed and the wording of the proposed change. The description must provide the rationale for the proposed change citing specific difficulties with the existing text and similar provisions in zoning codes of other jurisdictions that support the rational of the proposed change.**

☒ If a zoning map change is proposed, a written statement describing the proposal and addressing the following points:

- Need for the proposed rezoning
- Present and future impacts on the existing adjacent zone districts, uses and physical character of the surrounding area
- Impact of the proposed zone on area accesses and traffic patterns
- Availability of utilities for any potential development
- Present and future impacts on public facilities and services including but not limited to fire, police, water, sanitation, roadways, parks, schools and transit
- The relationship between the proposal and the Town of Rico Regional Master Plan
- Public benefits arising from the proposal

☒ Statement from County Treasurer showing the status of current taxes due on affected property 970 677 2386 10/7

N/A ☒ Letter of agency if applicant is other than the owner of the property N/A

☐ An application fee in the amount of $500.00

assessor 970 679 2385 10/7

☒ A Certificate of Mailing with names, addresses and property owned of property owners within 200 feet of subject property.

☒ A copy of the deed for the property. Alpine Title 10/7 728-9681

I swear that the information provided in this application is true and correct and that I am the owner of the property or otherwise authorized to act on behalf of the owner of the property.

Signature: _____ Date 11/4/25

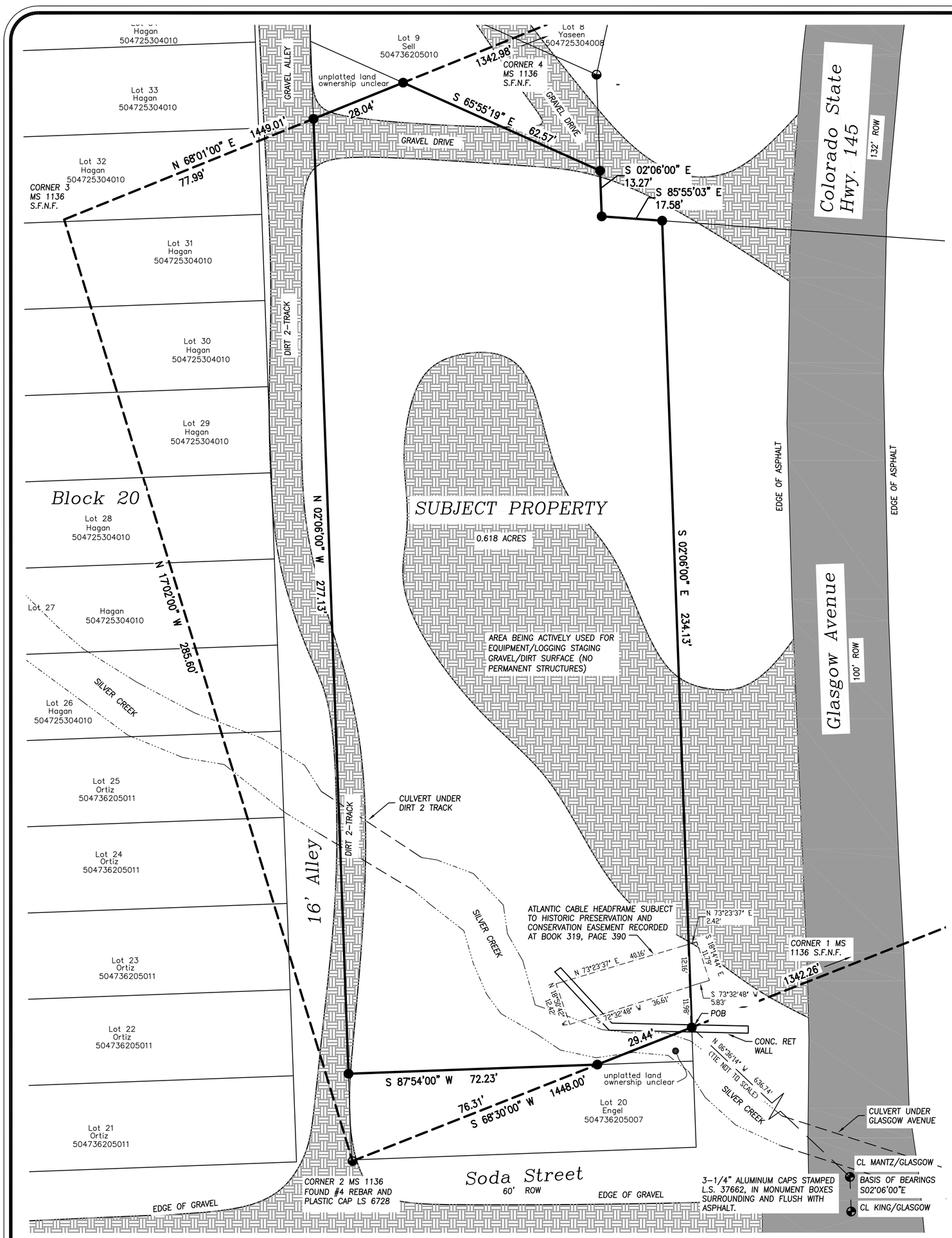
Date Application Received _____ Application Reviewed by _____

Application Fee Received _____ Date of Hearing _____

Application Complete _____ Rico Planning Commission Action _____

Mailing Notice Complete _____ Approval Subject to Conditions _____

Other comments:



SURVEYOR'S STATEMENT:

I, David R. Bulson a duly registered land surveyor licensed in the State of Colorado, do hereby state for and on behalf of Bulson Surveying to Alpine Title Company and Endless Possibilities, LLC that a survey of the premises of the parcel described hereon was conducted by me or under my direct responsibility, supervision, and checking during May of 2021 that said survey was made in substantial accordance with C.R.S. 38-51-102 (9) "Improvement Survey Plat"; and that the information contained herein is true and accurate to the best of my knowledge.

COLORADO REGISTERED DAVID R. BULSON 37662 PROFESSIONAL LAND SURVEYOR

David R. Bulson L.S. 37662

PROPERTY DESCRIPTION:

The Atlantic Cable Lode, MS 1136, located within the Pioneer Mining District and being situated within Sections 25 and 36, Township 40 North, Range 11 West, N.M.P.M., Town of Rico, Dolores County, Colorado

LESS AND EXCEPT;
Right of Way for State Highway 145 as was conveyed to the Colorado Department of Transportation by Quit Claim Deed recorded 1/27/1967 at Reception Number 81067 County of Dolores, State of Colorado;
LESS AND EXCEPT;
Phase 1 of the Atlantic Cable Subdivision according to the plat recorded September 10, 1979 in Plat Book 2 at page 7, in the records of the Dolores County Clerk and Recorder;
LESS AND EXCEPT;
Phase 2 of the Atlantic Cable Subdivision according to the plat recorded May 16, 1989 in Plat Book 2 at page 77, in the records of the Dolores County Clerk and Recorder;
LESS AND EXCEPT;
Phase 3 of the Atlantic Cable Subdivision according to the plat recorded May 6, 1993 in Plat Book 1 at page 4, in the records of the Dolores County Clerk and Recorder;
LESS AND EXCEPT;
Lots 7-9 (inclusive), Block 20, Town of Rico
Lots 20-32, Block 20, Town of Rico
Lots 31 and 32, Block 32, Town of Rico
Lots 11 and 12, Block 22, Town of Rico
LESS AND EXCEPT;
Lot 5C and Lot 7C, Block 23 Town of Rico according to the plat recorded October 16, 2013 at reception number 163516 in the records of the Dolores County Clerk and Recorder
LESS AND EXCEPT;
Glasgow Avenue, Town of Rico
16' alley located within with Block 20, Town of Rico

MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Beginning at a point on the western boundary of Glasgow Avenue, from whence the northeast corner of Lot 20, Block 20, Town of Rico according to the plat filed with the Clerk and Recorder of Dolores County on September 13, 1979 in Plat Book 2 at page 8. "Official Town of Rico Plat" bears S 02°06'00" E 9.78 feet, being the POINT OF BEGINNING;
THENCE N 02°06'00" W 234.02 feet to the southern boundary of the Right of Way for State Highway 145 as was conveyed to the Colorado Department of Transportation by Quit Claim Deed recorded 1/27/1967 at Reception Number 81067 County of Dolores, State of Colorado;
THENCE N 85°55'03" W 17.58 feet along said Right of Way for State Highway 145;
THENCE N 02°06'00" W 13.27 feet along said Right of Way for State Highway 145 to the southern boundary of Lot 9, Block 20, Town of Rico according to said Official Town of Rico Plat;
THENCE N 02°06'00" W 13.27 feet along said Right of Way for State Highway 145 to the southern boundary of Lot 9, Block 20, Town of Rico;
THENCE N 65°55'19" W 62.57 feet along said southern boundary of Lot 9, Block 20, Town of Rico to the northern boundary of said Atlantic Cable Lode, MS 1136;
THENCE S 68°01'00" W 28.04 feet along said northern boundary of the Atlantic Cable Lode, MS 1136 to the eastern boundary of the 16' alley located within Block 20, Town of Rico according to said Official Town of Rico Plat;
THENCE S 02°06'00" E 277.13 feet along said eastern boundary of the 16' alley within Block 20, Town of Rico to the northwest corner of said Lot 20, Block 20, Town of Rico;
THENCE N 87°54'00" E 72.23 feet along the northern boundary of said Lot 20, Block 20, Town of Rico to the southern boundary of said Atlantic Cable Lode, MS 1136;
THENCE N 68°30'00" E 29.44 feet along said northern boundary of said Atlantic Cable Lode, MS 1136 to the western boundary of Glasgow Avenue, being the POINT OF BEGINNING
Containing 0.618 acres more or less
TOWN OF RICO, COUNTY OF DOLORES, STATE OF COLORADO

NOTES:

1. Easement research and property description from Alpine Title Company, Order Number 308CEA Amendment No: 3, dated April 5, 2021, 7:00 am

2. According to FEMA Flood Insurance Rate Maps, Community Number 080279 0010A dated March 1, 1986 portions of this parcel are within Zone A, defined as "Areas of 100 year Flood with base flood elevations and flood hazards not determined".

3. Bearings for this survey based on the assumption that the historic bearing of the centerline of Glasgow Avenue bears North 02°06' West between the centerline monuments depicted and described hereon at Glasgow/King and Glasgow/Mantz. Said assumption was confirmed by solar observation performed on July 10, 1994 which calculated the bearing of the above described line as North 02°04'33" West.

4. Lineal units represented hereon are shown in U.S. Survey Feet or a decimal portion thereof.

5. This survey is valid only if a print or electronic copy has a seal and signature of the surveyor noted within the statement above.

6. Any person who knowingly removes, alters, or defaces any public land survey monument and/or boundary monument or accessory, commits a class two (2) misdemeanor pursuant to C.R.S. 18-4-508.

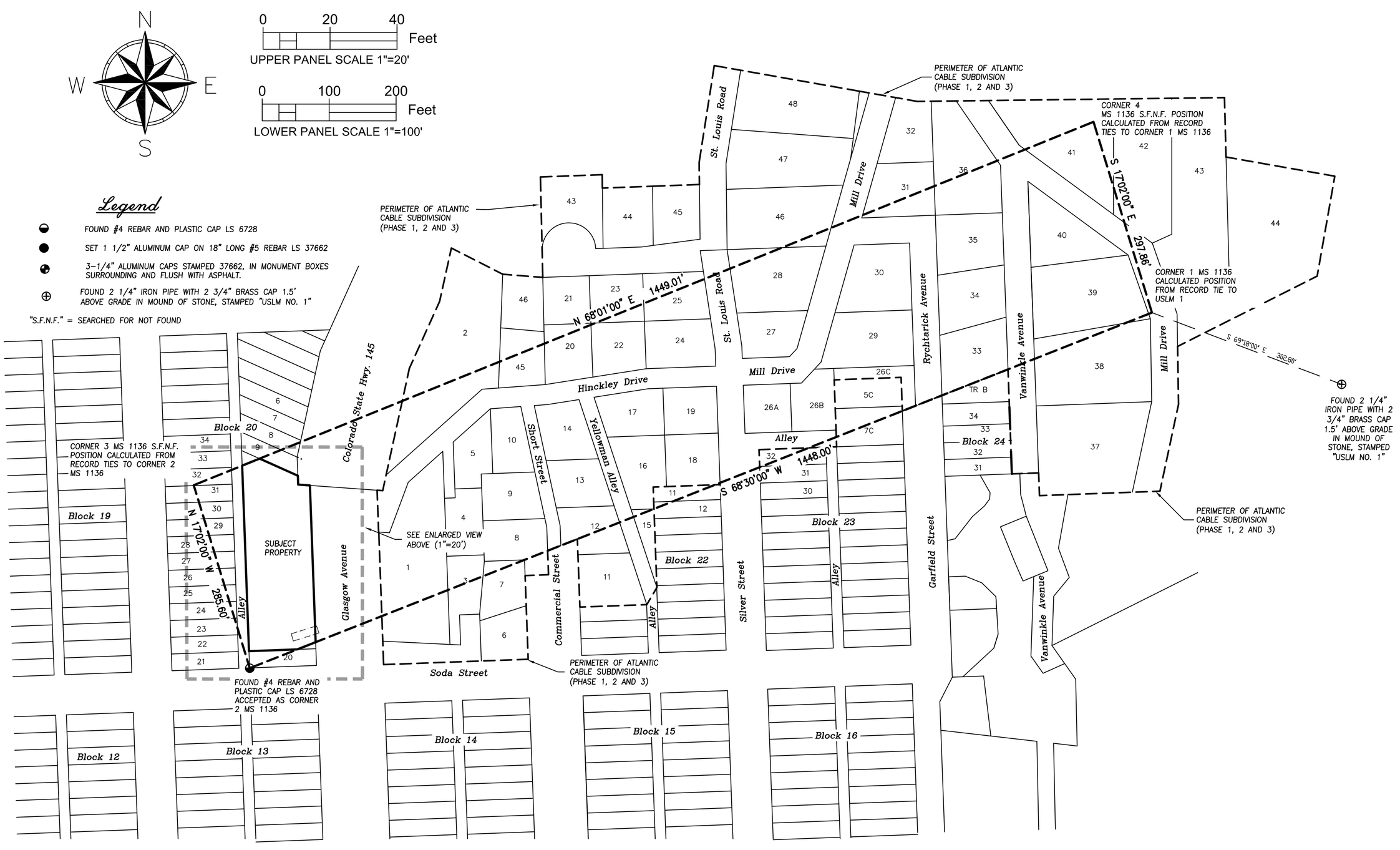
7. The word certify as used hereon means an expression of professional opinion regarding the facts of this survey and does not constitute a warranty or guarantee, expressed or implied.

8. This survey is prepared for the exclusive use of the party or parties indicated within the surveyor's statement. Said statement does not extend to any unnamed person or parties without an express statement by the surveyor naming said entities.

CERTIFICATE OF DEPOSIT

Deposited this _____ day of _____, 2020 in the County Surveyor's Land Survey Plats and Right of Way Surveys at Page _____
File Number _____

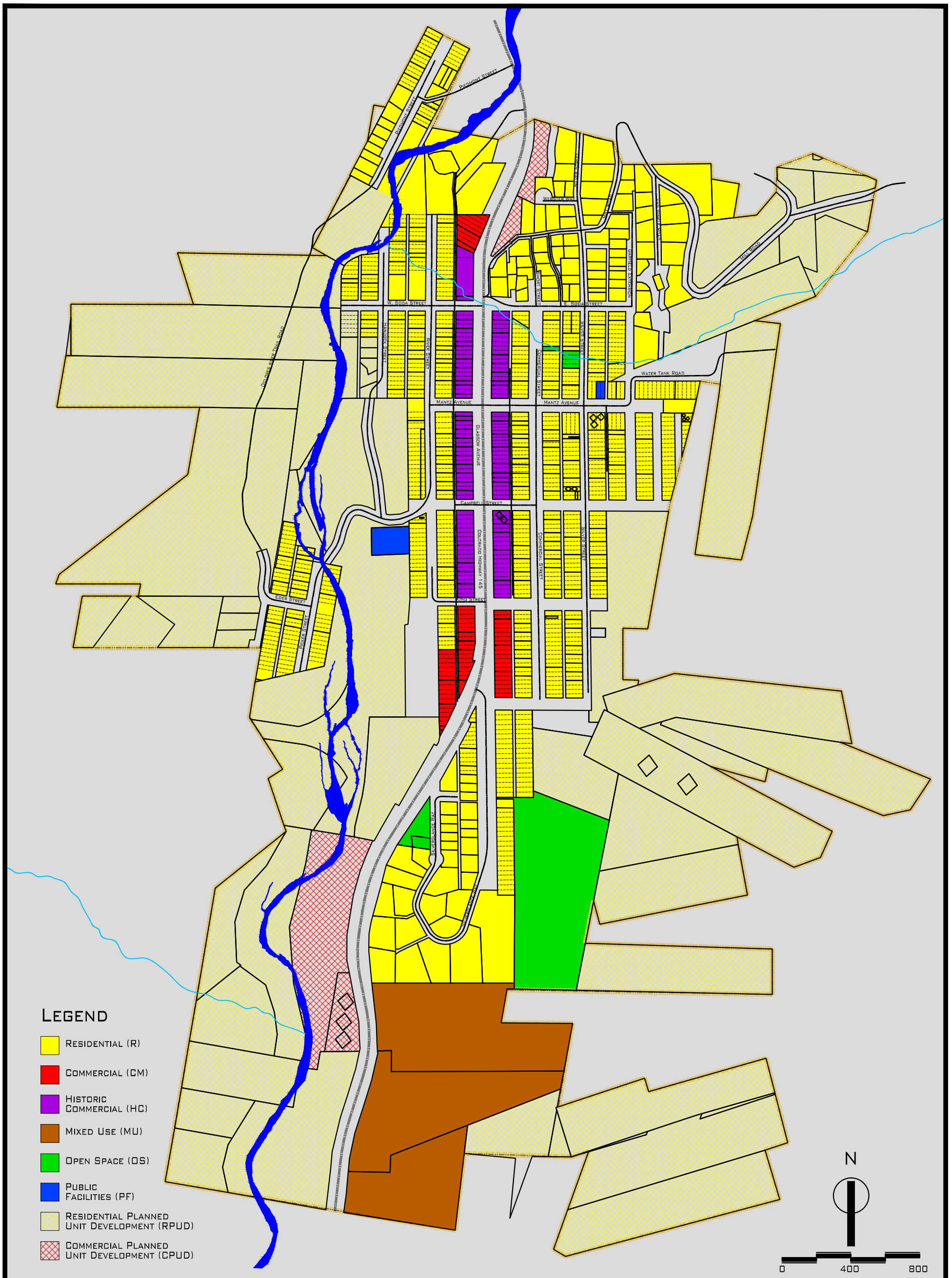
_____
Dolores County Clerk and Recorder



Improvement Survey Plat

Portion of the Atlantic Cable Lode - MS 1136, Pioneer Mining District within Sections 25 and 36, T40N R11W NMPM Town of Rico, Dolores County, State of Colorado

Contillo/Stokes TBD Glasgow Avenue Rico, CO, 81432	**Portion of the Atlantic Cable Lode, MS 1136 Town of Rico** Sections 25 and 36, T40N R11W NMPM
DATE : June 11, 2021	
PROJECT NUMBER 21041	**BULSON SURVEYING**



Town of Rico
Official Zoning Map

DOLORES 32 COUNTY

TAXES DUE
Thru Tax Year 2024

Printed 10/07/2025

TAX DISTRICT 102 SCHEDULE NUMBER 504736205001 M PAGE 568

Legal Description of Property: Acres: .62 EXCEPTIONS:

MINE 100% INTEREST FROM: DISPOSITION PROP
PORTION OF ATLANTIC CABLE MS #1136 PAT #8072 36-40-11 2024 TAX AMT 184.60
B-193 P-324-327 238 P-320 B-266 P-445 B-279 P-27-38 2024 TAX PD 184.60-
B-378 P-3 (SA) 164352(NOT) 164742(CONF) 164711(CERT)
164937(DEED) 170765(SRVY) 170804(SA) 170805(SWD)
170806(BSD) B-17 P-299(PAT)

2024 Taxes	$184.60	Paid	$184.60	Taxes Due	$.00
2024 Other	.00	Paid	.00	Other Due	.00
				Other Years Due	.00
				Interest Due	.00
				Cert Amts Due	$.00
TAXES HAVE BEEN PAID IN FULL				Total Now Due	$.00

Assessed Owner:
ENDLESS POSSIBILITIES LLC
P.O. BOX 215
RICO CO 81332

AFFIDAVIT OF MAILING PUBLIC NOTICE LETTER

Date: November 6, 2025

Town of Rico
Rico Planning Commission
PO Box 9
Rico, Colorado, 81332

Re: Certification and Affidavit of Mailing Public Notice Letter for TBD Highway 145 Rico, CO, 81332 (portion of Atlantic Cable lode, MS1136; lot Atlantic Cable Headframe sits upon).

I hereby declare that I, *Katie Contillo*, mailed a copy of the Town approved, enclosed public notice letter via U.S. First Class Mail, postage prepaid thereon on 11/6/2025, to the attached list of property owners. The public notice letter was prepared and mailed in accordance with the public noticing requirements of the Rico Land Use Code. The public notice letter was placed in the mail on 11/6/2025 which was at least 20 days prior to the public hearing(s) to be held on 12/10/2025 (P&Z) and 12/17/2025 (town board). The list of property owners includes all lot and condominium property owners located within 200 feet of the boundary of the existing or proposed lot(s). The adjacent property owner list was compiled from the Dolores County GIS Website or Assessors Office.

Attached is a copy of the noticing letter, list of all property owners noticed, including their lot number and mailing address, a copy of the vicinity map mailed with the noticing letter, and a map showing all lots that were included within the 200 foot noticing area.

I declare that under penalty of perjury under the laws of the State of Colorado that the foregoing is true and correct.

Sincerely,

Katie Contillo
Owner

NOTICE OF PENDING REZONING APPLICATION

Date: November 5, 2025
RE: Public Hearing on Re-Zoning Application

Dear Property Owner,

You are receiving this public notice as required by the Town of Rico Land Use Code because you own property within 200 feet of a proposed rezoning application. The application is available for public inspection in the Town Clerk's office; Monday – Thursday, 8:00am – 5:00pm.

Name of Applicant: Endless Possibilities LLC

Address of Applicant: PO Box 115 Rico, CO 81332

Phone Number of Applicant: (970) 708-4455

Type of Development Application: Rezoning

Present Zoning: Historic Commercial

Proposed Zoning: Commercial

Legal Description: Portion of the Atlantic Cable Lode, MS 1136, located within the Pioneer Mining District and being situated within Section 25, Township 40 North, Range II West, N.M.P.M. Town of Rico, Dolores County, Colorado.

Address: TBD Highway 145 Rico, CO 81332 (lot the Atlantic Cable headframe sits upon)

Lot or Site Size: .62 acres; Parcel #504736205001

Review Authority: Rico Planning Commission & Rico Board of Trustees

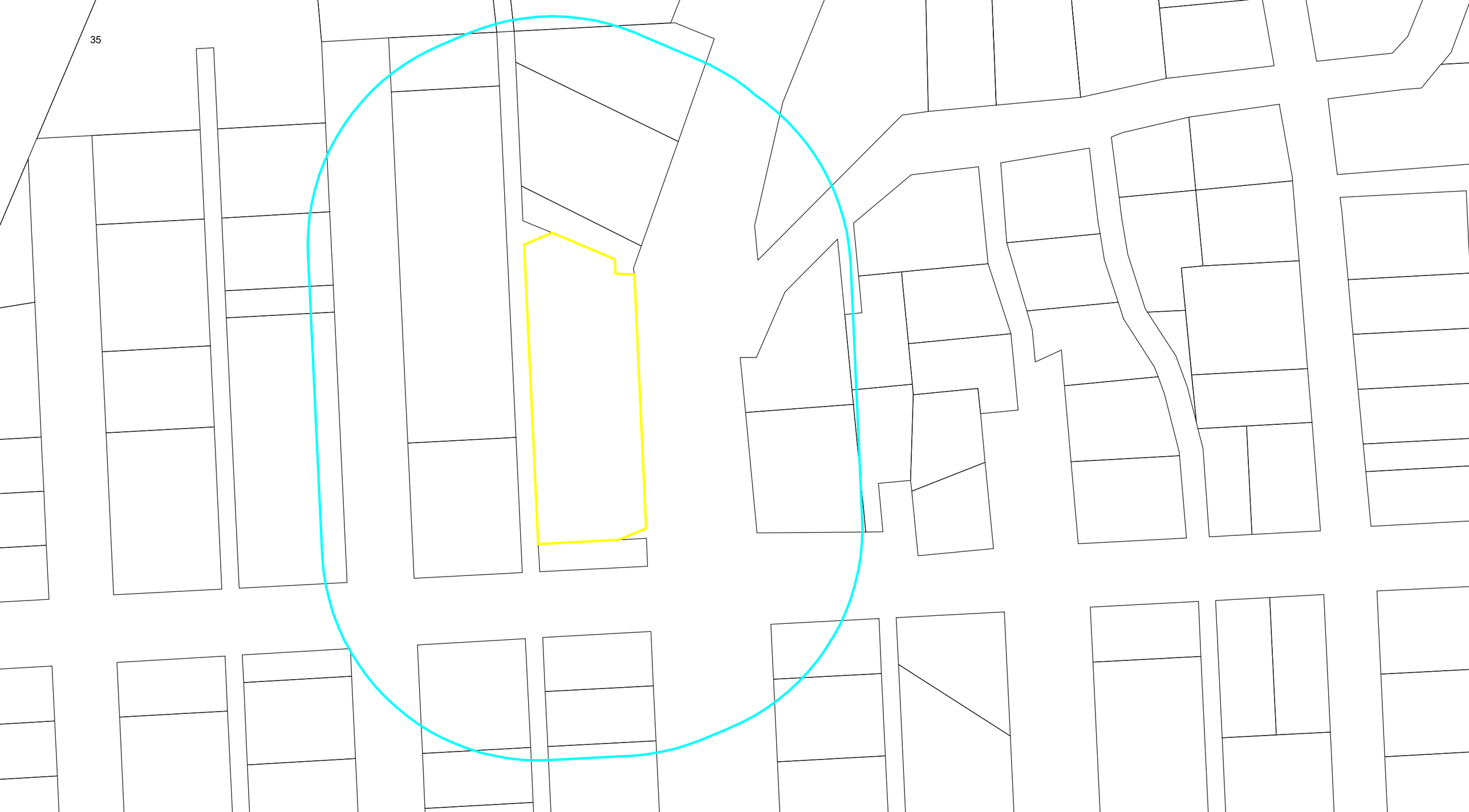
Rico Planning Commission Hearing Date: December 10, 2025

Board of Trustees' Hearing Date: December 17, 2025

Location of Public Hearing: Rico Town Hall, 2 Commercial Street, Rico, CO 81332

Send emailed comments to townmanager@ricocolorado.gov or by surface mail to:

Town of Rico
PO Box 9
Rico, CO 81332


35

PARCEL	OWNER NAME			MAILING ADDRESS	CITY	STATE	ZIP CODE	PROPERTY ADDRESS
504725300041	DAVIS GARY LYNN & YOLANDA LOU	DAVIS (JT)		PO BOX 86	RICO	CO	813320000	141 NORTH ARGENTINE
504725300167	BRD, LLC			P.O. BOX 1746	TELLURIDE	CO	814350000	140 N. GLASGOW
504736205010	BRICKHAUS HOLDING COMPANY LLC			P.O. BOX 1616	TELLURIDE	CO	814350000	123 N. ARGENTINE STREET
504736205007	ENGEL PATRICIA A.			P.O. BOX 62	RICO	CO	813320000	101 N. GLASGOW AVE.
504736205001	ENDLESS POSSIBILITIES LLC			P.O. BOX 215	RICO	CO	813320000	ATLANTIC CABLE
504736206002	MULDOON CORNELIUS F. & BARBARA	D. MULDOON (JT)(50%), (50%)(JT)	MULDOON/DOW ETAL	17013 6450 RD	MONTROSE	CO	814030000	119 N. RIVER STREET
504725303008	BAIN JUSTIN & JULIE BAIN (JT)			P.O. BOX 3107	TELLURIDE	CO	814350000	201 N. RIVER STREET
504725303007	ROBERTS MARIA G.			2900 S. PALO VERDE LANE, UNIT 18	YUMA	AZ	853653496	131 N. RIVER STREET
504736206001	MULDOON CORNELIUS F. & BARBARA D			17013 6450 RD	MONTROSE	CO	814030000	RIVER ST.
504726402010	CUMMINGS ROBERT E. & NICOLE Y.	PIETERSE		P.O. BOX 25	RICO	CO	813320000	
504725304008	BRICKHAUS HOLDING COMPANY LLC			300 WEST COLORADO AVE. UNIT 2-A	TELLURIDE	CO	814350000	135 N. ARGENTINE STREET
504725304009	ALLEN MARK			P.O. BOX 172	RICO	CO	813320000	135 N. ARGENTINE STREET
504736200104	BERNARDO BRYANT & JESSICA	BERNARDO		3004 LITTLE MILL	THE COLONY	TX	750560000	103 E. HINKLEY DRIVE
504736200111	HERSHEY CATHERINE M. & LLOYD G.	HERSHEY, JR. (JT)		3048 TAM OSHANTER	FLAGSTAFF	AZ	860040000	1 SODA ST
504736200103	PREJS JULIA & JOSEPH DILLSWORTH	(JT)		P.O. BOX 351	RICO	CO	813320000	4 E. SODA STREET
504736200101	CONTILLO KATELYN S. & MICHAEL E.	CONTILLO		P.O. BOX 115	RICO	CO	813320000	101 SOUTH HINCKLEY
504736205011	RANDALL LYNN ORTIZ			2014 HOTTON AVE	FARMINGTON	NM	874020244	102 N. RIVER STREET
504725304010	HAGAN MIKE & MARY			P.O. BOX 101	RICO	CO	813320000	134 N. ARGENTINE, 136 RIVER
504725304002	CUMMINGS ROBERT E. &	PIETERSE NICOLE Y.		P.O. BOX 25	RICO	CO	813320000	138 N. RIVER STREET
504736207001	DAY CASSANDRA ANN, DANIEL Z. DAY	MATTHEW POLZIN (JT)		1565 PARK AVE	CANON CITY	CO	812120000	39 N. RIVER ST.
504736208026	GASS GARY & CHRISTINE GASS (JT)			P.O. BOX 102	RICO	CO	813320000	34 N. RIVER STREET
504736208021	BELASCO MARIA (NORA) L. &	LESEM MICHAEL A. (JT)		P.O. BOX 43	RICO	CO	813320000	32 N. RIVER STREET
504736208017	MOORE CARMA, FAHRION JACK E., &	WALKER JANET L.		25150 RD. G. 15	CORTEZ	CO	813210000	31 N. GLASGOW AVE.
504736208018	TIO RICO, LLC			3624 W. PECOS RD.	CHANDLER	AZ	852260000	33 N. GLASGOW AVE
504736208001	STEWART JIMMY KERMIT			384 WATERVIEW LANE	SANFORD	NC	273300000	39 N. GLASGOW AVE.
504736209022	RICO TOWN OF			P.O. BOX 9	RICO	CO	813320000	40 N. GLASGOW AVE
504736209021	LYONS DEN CONSTRUCTION, INC.			P.O. BOX 265	RICO	CO	813320000	34 N. GLASGOW AVE

37

170805
Page 1 of 4
Lana Hancock, County Clerk & Recorder
Dolores County, CO
06-22-2021 07:55 AM Recording Fee $28.00

State Documentary Fee
$10.00 06-22-2021

SPECIAL WARRANTY DEED

THIS DEED, made this 16 day of June, 2021
between **Disposition Properties, L.L.C., an Arizona limited liability company**, of the County of **Dolores** and State of **Colorado,** grantor(s),
AND
Endless Possibilities LLC, a Colorado limited liability company whose legal address is **PO Box 215**
101 Hinckley Drive, Rico, CO 81332
of the County of **Dolores** and State of **Colorado,** grantee(s):

WITNESS, that the grantor(s), for and in consideration of the sum of **ONE HUNDRED THOUSAND AND 00/100 DOLLARS ($100,000.00)**, the receipt and sufficiency of which is hereby acknowledged, has granted, bargained, sold and conveyed, and by these presents does grant, bargain, **sell, convey** and confirm, unto the grantee(s), his/her heirs, and assigns forever, , all the real property, together with improvements, if any, situate, lying and being in the County of **Dolores** and State of Colorado, described as follows:

FOR LEGAL DESCRIPTION SEE EXHIBIT A

also known by street and number as: **TBD Hwy 145, Rico, CO 81332**

TOGETHER with all and singular the hereditaments and appurtenances thereunto belonging, or in anywise appertaining, and the reversion and reversions, remainder and remainders, rents, issues and profits thereof, and all the estate, right, title, interest, claim and demand whatsoever of the grantor(s), either in law or equity, of, in and to the above bargained premises, with the hereditaments and appurtenances except for taxes for the current year, a lien but not yet due and payable, subject to exceptions as listed on Exhibit-3008CEA.

TO HAVE AND TO HOLD the said premises above bargained and described, with the appurtenances, unto the grantee(s), his heirs, and assigns forever. The grantor(s), for himself, his heirs and personal representatives or successors, does covenant and agree that he shall and will WARRANT AND FOREVER DEFEND the above-bargained premises in the quiet and peaceable possession of the grantee(s), his heirs and assigns, against all and every person or persons claiming the whole or any part thereof, by, through or under the grantor(s).

The singular number shall include the plural, the plural the singular, and the use of any gender shall be applicable to all genders.

IN WITNESS WHEREOF, the grantor(s) has executed this deed on the date set forth above.

Disposition Properties, LLC, an Arizona limited liability company

By: Inside Disposition Properties, LLC, an Arizona limited liability company, its Manager

By: _____
Curtis Swanky, its Manager

STATE OF: Arizona
COUNTY OF: Maricopa

The foregoing instrument was acknowledged before me this 16 day of June, 2021, by Curtis Swanky, Manager of Inside Disposition Properties, LLC, an Arizona limited liability company, the manager of Disposition Properties, LLC, an Arizona limited liability company.

Witness my hand and seal.

My commission expires: 10/30/21

KIM HARDY
Notary Public - Arizona
Maricopa County
My Comm. Expires Oct 30, 2021

_____
Notary Public

38

Disposition Properties, LLC, an Arizona limited liability company

By: GLG Lending, LLC, a Georgia limited liability company, its Manager

By:_____
Michael L. Hines, its Manager

STATE OF:
COUNTY OF:

The foregoing instrument was acknowledged before me this 14 day of June, 2021, by Michael L. Hines, Manager GLG Lending, LLC, a Georgia limited liability company, the manager of Disposition Properties, LLC, an Arizona limited liability company.

Witness my hand and seal.

My commission expires:

_____
Notary Public

RONALD H. PLATT
MY COMMISSION # GG 279858
EXPIRES: November 27, 2022
Bonded Thru Notary Public Underwriters

39

Exhibit 'A'

Portion of the Atlantic Cable Lode, MS 1136, located within the Pioneer Mining District and being situated within Section 25, Township 40 North, Range 11 West, N.M.P.M., Town of Rico, Dolores County, Colorado

MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Beginning at a point on the western boundary of Glasgow Avenue, from whence the northeast corner of Lot 20, Block 20, Town of Rico according to the plat filed with the Clerk and Recorder of Dolores County on September 13, 1979 in Plat Book 2 at page 8. "Official Town of Rico Plat" bears S 02°06'00" E 9.78 feet, being the POINT OF BEGINNING;

THENCE N 02°06'00" W 234.02 feet to the southern boundary of the Right of Way for State Highway 145 as was conveyed to the Colorado Department of Transportation by Quit Claim Deed recorded 1/27/1967 at Reception Number 81067 County of Dolores, State of Colorado;

THENCE N 85°55'03" W 17.58 feet along said Right of Way for State Highway 145;

THENCE N 02°06'00" W 13.27 feet along said Right of Way for State Highway 145 to the southern boundary of Lot 9, Block 20, Town of Rico according to said Official Town of Rico Plat;

THENCE N 02°06'00" W 13.27 feet along said Right of Way for State Highway 145 to the southern boundary of Lot 9, Block 20, Town of Rico;

THENCE N 65°55'19" W 62.57 feet along said southern boundary of Lot 9, Block 20, Town of Rico to the northern boundary of said Atlantic Cable Lode, MS 1136;

THENCE S 68°01'00" W 28.04 feet along said northern boundary of the Atlantic Cable Lode, MS 1136 to the eastern boundary of the 16' alley located within Block 20, Town of Rico according to said Official Town of Rico Plat;

THENCE S 02°06'00" E 277.13 feet along said eastern boundary of the 16' alley within Block 20, Town of Rico to the northwest corner of said Lot 20, Block 20, Town of Rico;

THENCE N 87°54'00" E 72.23 feet along the northern boundary of said Lot 20, Block 20, Town of Rico to the southern boundary of said Atlantic Cable Lode, MS 1136;

THENCE N 68°30'00" E 29.44 feet along said northern boundary of said Atlantic Cable Lode, MS 1136 to the western boundary of Glasgow Avenue, being the POINT OF BEGINNING, as depicted on Improvement Survey Plat dated Jun 11, 2021 by David R. Bulson, L.S. 37662, Bulson Surveying Project Number 21041 deposited on June 15, 2021 in the county Surveyor's Land Survey Plats and Right of Way surveys at Reception Number 170765.

TOWN OF RICO, COUNTY OF DOLORES, STATE OF COLORADO

EXHIBIT - 3008CEA

- All mines, minerals, lodes, deposits and Veins as conveyed to Julius Thompson by the Town of Rico in Deed recorded November 15, 1892 in Book 28 at Page 140, and any and all assignments thereof or interests therein. Note: The Company makes no representation as to the present ownership of any such interests. There may be leases, grants, exceptions or reservations of interests that are not listed.
- All mines, minerals, metals, lodes, deposits, veins and all mineral bearing ores, rocks, all mining rights as reserved by Rico Argentine mining Company and all rights, either expressed or implied, other than the surface estate, as reflected in Decree recorded July 16, 1954 in Book 75 at page 169. Note: The Company makes no representation as to the present ownership of any such interests. There may be leases, grants, exceptions or reservations of interests that are not listed.
- Any tax, assessment, fees or charges by reason of the inclusion of the subject property in the local street improvement district, the local water conservancy district or the local sanitation district.
- Any tax, assessment, fees or charges by reason of the inclusion of the subject property in the Dolores water conservancy district pursuant to that document recorded October 25, 2004 in Book 333 at page 297.
- Any rights, interest or easements in favor of the United States, the State of Colorado or the Public, which exists or are claimed to exist in and over the present and past bed, banks or waters of Silver Creek and rights of the upper and lower riparian owners in and to the free and unobstructed flow of water of the Silver Creek extending through the subject land, without diminution or pollution.
- Memorandum of Real Property Located in Dolores County, Colorado, and In and Around the Town of Rico, by and between Rico Renaissance Limited Liability Company; Silver Creek Land Company; Rico Properties Limited Liability Company, JJRC LLC, Twin City; Silver Creek; BAL, Rico Advisory Limited Liability Company; Stanley A. Foster; Rico Land and Cattle Company; Rico High Altitude Investments, LL and Rico Mountain Life,LLC recorded December 16, 201 at Reception No. 160187; subject to the terms, conditions, provisions and obligations contained therein.
- Existing Road as shown on instrument recorded October 7, 1999 in Book 296 at page 224, as part of Reception No. 141534.
- Historic Preservation and Conservation Easement, recorded February 13, 2003 in Book 319 at apge 309; subject to the terms, conditions, provisions and obligations contained therein.
- Any and all rights of way for Highway 145 and Argentine.
- All matters as shown on Improvement Survey Plat dated Jun 11, 2021 by David R. Bulson, L.S. 37662, Bulson Surveying Project Number 21041 deposited on June 15, 2021 in the county Surveyor's Land Survey Plats and Right of Way surveys at Reception Number 170765.

Colorado
Secretary of State
Jena Griswold

Summary

For this Record...

- Filing history and documents
- Get a certificate of good standing
- File a form
- Subscribe to email notification
- Unsubscribe from email notification
- Subscribe to text notification
- Unsubscribe from text notification

- Business Home
- Business Information
- Business Search

Details			
Name	Endless Possibilities LLC		
Status	Good Standing	**Formation date**	06/02/2021
ID number	20211528182	**Form**	Limited Liability Company
Periodic report month	June	**Jurisdiction**	Colorado
Principal office street address	101 Hinckley Dr, Rico, CO 81332, US		
Principal office mailing address	PO Box 215, Rico, CO 81332, US		

Registered Agent	
Name	Michael Contillo
Street address	101 Hinckley Dr, Rico, CO 81332, US
Mailing address	PO Box 215, Rico, CO 81332, US

OFFICE OF THE SECRETARY OF STATE
OF THE STATE OF COLORADO

CERTIFICATE OF FACT OF GOOD STANDING

I, Jena Griswold, as the Secretary of State of the State of Colorado, hereby certify that, according to the records of this office,

Endless Possibilities LLC

is a

Limited Liability Company

formed or registered on 06/02/2021 under the law of Colorado, has complied with all applicable requirements of this office, and is in good standing with this office. This entity has been assigned entity identification number 20211528182 .

This certificate reflects facts established or disclosed by documents delivered to this office on paper through 12/02/2025 that have been posted, and by documents delivered to this office electronically through 12/04/2025 @ 10:42:28 .

I have affixed hereto the Great Seal of the State of Colorado and duly generated, executed, and issued this official certificate at Denver, Colorado on 12/04/2025 @ 10:42:28 in accordance with applicable law. This certificate is assigned Confirmation Number 17951153 .

Secretary of State of the State of Colorado

**********End of Certificate**********

Notice: A certificate issued electronically from the Colorado Secretary of State's website is fully and immediately valid and effective. However, as an option, the issuance and validity of a certificate obtained electronically may be established by visiting the Validate a Certificate page of the Secretary of State's website, https://www.coloradosos.gov/biz/CertificateSearchCriteria.do entering the certificate's confirmation number displayed on the certificate, and following the instructions displayed. Confirming the issuance of a certificate is merely optional and is not necessary to the valid and effective issuance of a certificate. For more information, visit our website, https://www.coloradosos.gov click "Businesses, trademarks, trade names" and select "Frequently Asked Questions."

RE: Map Requirement

In order to satisfy the map requirement that indicates zoning of lots within 200’ of subject property, I have submitted our current survey along with the town’s zoning map.

Endless Possibilities, LLC
PO Box 115
Rico, CO 81332

November 5, 2025

Town of Rico | Planning & Zoning Commission | Town Board
2 Commercial St.
Rico, CO 81332

Subject: Zoning Change Request Statement

Dear Rico Elected Officials and Staff,

We are writing to request a zoning change from Historic Commercial to Commercial, for our property located at the Atlantic Cable Headframe on Highway 145.

We believe the current zoning was adopted in error. This is the only Historic Commercial property north of Silver Creek, as the lot beyond it is zoned Commercial. This makes sense as it is unfeasible to develop to Historic Commercial standards (zero front and side setbacks). The intent of the zoning would be for the commercial core to be western facaded and due to the natural break with Silver Creek and lack of surrounding historical commercial buildings, this zoning is irrelevant. The curvature of the highway frontage and the traffic patterns in this area are not consistent with the intention of a Historic Commercial area, and building lot-line to lot-line would be impractical and unsafe.

The Historic Commercial parking requirement would be impossible to achieve on this lot, as it cannot be accessed from the back due to the unmaintained alley way. On-street parking is not available as the highway is narrow in this location, and we do not want to encourage on-street parking due to safety concerns. We think this property would better serve town under Commercial zoning, as we can uphold the 22’ setback off the highway and meet all off-street parking requirements. Access for utilities and public services would be unchanged.

Commercial zoning would allow the development of this lot according to the LUC’s right by use cases and therefore be built with community benefit in mind. Adding business to our Main Street is in line with the Rico Regional Master Plan.

The mining headframe located on this property is subject to a historic preservation and conservation easement to the Rico Historical Society and will therefore be maintained for the enjoyment of locals and visitors. The rezone from Historic Commercial to Commercial would have no effect on the headframe or its permanence.

Rezoning our lot from Historic Commercial to Commercial removes hurdles. As we envision future plans, we identified this change as a pivotal first step. Thank you for your consideration.

Sincerely,
Mike & Katie Contillo

Dear Members of the Rico Board of Trustees,

I am writing to respectfully request reappointment to the Rico Planning and Zoning Commission as my current term is coming to an end. It has been an honor to serve on the Commission for the past three years, and I am eager to continue contributing to this important work.

During my tenure, our Commission has undertaken significant efforts to review and revise the Land Use Code. Throughout this process, I have been able to offer insight from the perspective of a real estate broker who works closely with both sellers and buyers, ensuring that our decisions are informed by real-world market experience and a deep understanding of how land-use policies impact residents and property owners.

I have been a member of the greater Telluride region since 2000 and a proud resident of Rico since 2018. Living and working in this region for so many years has allowed me to witness its evolution firsthand. Those experiences have shaped my belief in thoughtful, sustainable growth. Growth that respects our community's character and vernacular while also addressing today's urgent need for additional housing. As our nation faces a widespread housing crisis, I believe it is essential for small communities like ours to plan proactively and responsibly.

It would be a privilege to continue serving the Rico community in this capacity. I greatly value the collaborative work of the Commission and the opportunity to help support Rico's long-term vitality.

Thank you for your consideration. I would be honored to continue my service on the Planning and Zoning Commission.

Best,

Kip

Hey Chauncey,

Here is my letter to continue with the Rico Planning and Zoning commission

I would like to remain on the Rico planning and zoning commission.

Let me know if you need anything else

Sincerely,

Andrew Romanyshyn

TO: Town of Rico Boad of Trustees
FROM: Chauncey McCarthy, Rico Town Manager
SUBJECT: Discolored soil discovered in road segments that previously tested below action levels

Summary of Concern

Conditions recently observed along North and South Mantz Avenue, Garfield Street, and East Soda Street indicate that mine waste buried beneath the road surface is now exposed at multiple roadway edges. Photographs have been included in this memorandum document discolored soils consistent with mine tailings visible within drainage channels and shoulder areas. These road sections were classified as below the Residential Lead Action Level during the Phase 1 VCUP Road Sampling Work. However, recent road grading and runoff events throughout the summer have eroded the edges of these roadways and exposed material beneath the surface layer. This suggests that sampling limited to the top 0–2 inches did not accurately represent the conditions present within the upper 12 inches of road base that the VCUP program could disturb during remediation.

This circumstance creates a risk that mine waste is present within the roadway and can become exposed either through rainfall events alone or through future construction activities, without being previously identified through shallow sampling.

Agreement Requirements That Establish the Current Framework

Under the VCUP Agreement, ARCO is required to perform sampling of Town roads and alleys, and that sampling determines which segments qualify for remediation. Section 4.5.3 of the Agreement states that:

> “AR will identify the specific Town Roads and Alleys segments where Phase 1 VCUP Road Remediation is required in accordance with the procedures specified in the 2023 VCUP Application and 2023 Phase 1 VCUP Work Plan and based on the results of the Phase 1 VCUP Road Sampling Work and prior sampling performed in accordance with the 2004 VCUP Application. AR will present the Town with a map or set of maps depicting the results of this identification process as soon as practicable after all Phase 1 VCUP Road Sampling Work is complete and all resulting analytical data have been validated in accordance with Section 2.6.1.2 of the 2023 Phase 1 VCUP Work Plan..”

While the remediation design acknowledges contamination up to twelve inches below the surface, the current sampling methodology only evaluates the top two inches.

> “As specified in the 2023 VCUP Application, the Phase 1 VCUP Road Remediation Work will involve excavation of up to the upper 12 inches of surface material from the roadbed (including traveled way and shoulder) and adjacent unvegetated Town-owned right-of-way of Town Roads and Alleys segments where Phase 1 VCUP Road Sampling Work determines the lead concentration exceeds the Residential Lead Action Level. For purposes of this Section 4.6.2, the unvegetated right-of-way area shall include the Town-owned road shoulders, drainage swales, ditches, berms, parking area, and other generally bare ground immediately adjacent to the traveled roadway driving surface.” — Section 4.6.2

This means that although contamination may exist well below two inches, it is not required to be identified unless the 0–2 inch samples already exceed the action level. In short, if lead exists at three or more inches beneath the surface, the current sampling plan would fail to detect it, but the remediation plan assumes that soil in that depth range would be removed.

The overarching intent of the VCUP program, as stated in the Agreement Recitals, is to remediate soils “in a way that is protective of human health and the environment.” Recent erosion showing contamination deeper than 2 inches places that protectiveness standard into question.

VCUP Work Plan Requirements for Sampling Depth

The current exposure issues are directly tied to language in the Phase 1 Work Plan. The road sampling methodology is clearly defined as surface-only sampling:

> “For each road segment identified for sampling, one composite sample will be collected from the traveled surface of the road from a depth of 0 to 2 inches within the designated road segment.” Appendix B, Section 2.4.3

Further, under the Soil Sampling Standard Operating Procedures:

> “Surface soil samples will be collected from 0 to 2 inches…” Appendix B, Section 3.1.1

The VCUP sampling plan does not take into consideration the movement of surface materials within the full 0–12-inch depth of roadways. A condition clearly demonstrated this year as storms and grading have exposed mine waste that was previously buried below the sampled 0–2-inch layer.

Implications for Constructability and Liability

Once remediation activities begin, excavation equipment will disturb soil well below the sampled 0–2inch surface layer. Because contamination between 2-12 inches has not been evaluated, the Town is at risk of encountering mine waste during construction on road segments that are currently assumed to be clean. Importantly, the road sections where mine waste became exposed this summer are not included within the Phase 1 scope of work for road remediation or stormwater controls funded by ARCO through the VCUP Agreement. If these newly exposed areas are encountered during earthwork, they would not fall within ARCO's currently approved obligations.

The VCUP Agreement is explicit that ARCO is not required to fund or approve changes triggered by newly discovered contamination unless ARCO agrees to those changes in advance:

> "Any change orders or change requests proposed or requested by the Phase 1 VCUP Road Remediation Contractor that materially affect the Phase 1 VCUP Road Remediation Costs shall be carefully scrutinized by the Town and shall only be effective if approved as commercially reasonable by the Town after consultation with AR." — Section 4.10.5

Proceeding with construction without first resolving the sampling-depth deficiency and addressing these newly exposed areas would almost certainly result in costly and disruptive change orders, with uncertain cost responsibility and avoidable delays.

ARCO Status

Town staff raised these concerns with ARCO immediately upon documenting the exposed mine waste. ARCO has acknowledged the issue and has indicated it is reviewing potential solutions to present to the Town. It is also important to note that during negotiation of the Agreement, the Town requested potholing to verify whether 0–2 inch sampling was representative of deeper soil conditions. ARCO did not agree to that approach at the time.

Potential Pathways to Resolve the Issue

Staff recommends that the Board consider renegotiating with ARCO to do one or both of the following:

- Revise the road remediation map using historic and current data to include additional roadway areas showing evidence of buried mine waste; and/or
- Conduct potholing throughout the Town's rights-of-way to verify that the Phase 1 sampling is representative of the conditions in the entire 0–12 inch zone. Where

buried mine waste is encountered, handheld XRF analysis can determine whether action levels are exceeded.

Both actions would ensure that VCUP construction activities are protective of public health and prevent unexpected exposures and costs during excavation.

Road Remediation and Stormwater RFP Recommendation

Given that the current plans and RFP are based on incomplete and potentially inaccurate assumptions about which road segments require remediation, staff recommends that the Board direct that the RFP not be released until this matter is resolved and design documents are updated appropriately. A short delay now will prevent significant public health risks and major cost disputes later.

Mantz and N Commercial Intersect

Mantz and N Commercial Intersect

Mantz and S Commercial Intersect

Mantz and S Argentine Intersect

E Soda and N Silver Intersect

E Soda and Short Intersect

Geosyntec consultants

5670 Greenwood Plaza Blvd
Suite 540
Greenwood Village, CO 80111
PH 303-790-1340
www.geosyntec.com

Technical Memorandum

Date:	December 30, 2024
To:	Chauncey McCarthy, Rico Town Manager
Copies to:	Thomas Bloomfield and Samantha Caravello
From:	Olivia Bojan and Dave Folkes, P.E. (CO)
Subject:	Rico Road Base Sampling Summary

This memorandum summarizes the results of confirmation sampling of select unpaved road segments in the Town of Rico, Colorado. The tasks described in this memorandum were performed by Geosyntec Consultants, Inc. (Geosyntec) with assistance from Pioneer Technical Services, Inc. (Pioneer) on November 12, 2024.

INTRODUCTION

As stated in the *Road Base Sampling Work Plan* (Geosyntec 2024), the purpose of the November 2024 sampling event was to validate the analytical results of the sampling conducted by Pioneer on behalf of Atlantic Richfield (AR) in October 2023, by having a consultant retained on behalf of the Town collect and analyze samples in road segments where the lead concentrations in the AR samples were significantly lower than historic values and below the Lead Action Level (LAL). Geosyntec resampled six locations (RDN-09, RDN-29, RDN-50, RDN-57, RDN-59, and RDN-84) previously sampled by Pioneer/AR, as shown on Figure 1.

SOIL SAMPLING

On November 12, 2024, Geosyntec collected soil samples from the six locations shown on **Figure 1**, in accordance with methods described in the *Road Base Sampling Work Plan* (Geosyntec 2024) and the *Phase I VCUP Work Plan* (Formation Environmental 2023). Personnel from Pioneer identified the subsample locations for the October 2023 samples in the six road segments using GPS coordinates; as a result, Geosyntec's subsample locations were the same as those sampled previously.

Subsample Collection

Geosyntec collected four subsamples from the top two inches of road material from each of the six road segments, at locations on either side of the centerline approximately ¼ of the way and ¾ of the way along the length of the segment. Geosyntec used hand tools (i.e. chisels, trowels, and crow

bars) to excavate soil from 0 to approximately 2 inches below ground surface (bgs), in accordance with the work plans approved by the Colorado Department of Public Health and Environment (CDPHE). Geosyntec documented subsample locations in the photographic log, included in **Attachment A**. Geosyntec recorded soil texture and other observations about the road segments on the sampling forms included in **Attachment B**. At the majority of the subsample locations, the soil was brown sand and gravel road base material from 0 to approximately 2 inches bgs. Around 2 to 3 inches bgs, the subsurface became too rocky to excavate deeper. No evidence of ground disturbance was observed, except for a small pothole at the western boundary of RDN-50 and an approximately 1.5-foot long by 3-foot wide by 4-inch deep area around water wells in the centerline of RDN-57.

At the time of subsample collection, soil from all of the road segments was either frozen or too moist to pass through a sieve; therefore, subsamples were contained in labeled quart-sized plastic bags to be dried overnight and sieved once dry. After all subsamples had been collected, the holes were backfilled with road base until level with the surrounding road surface and compacted using hand tools.

Composite Sample Collection

After several days of air drying, subsamples from only three road segments including RDN-50, RDN-57, and RDN-29 were dry enough to sieve. Three composite samples from these segments (sample IDs 24-RDN-50-1, 24-RDN-57-1, and 24-RDN-29-1) were collected by passing the soil through a disposal sieve (2-millimeter mesh size). Roughly equal volumes of sieved soil from each subsample were added to a clean plastic bag and were mixed thoroughly. The final composite sample was then transferred from the bag to the laboratory-supplied glass jar. The sample containers were labeled, logged onto chain-of-custody documents, and stored on ice for submittal to Pace Analytical in Mount Juliet, Tennessee (Pace). Subsamples collected from RDN-84, RDN-59, and RDN-09 were still wet after several days, so the subsamples contained in labeled quart-sized plastic bags were submitted to Pace to be dried and homogenized at the laboratory. Samples were analyzed for total lead via United States Environmental Protection Agency (USEPA) Method 6010B. Quality control (QC) samples included one equipment rinsate blank and one field duplicate, collected at RDN-50 (24-RDN-50-1-FD). The QC samples were also analyzed via Method 6010B.

Equipment Decontamination and Investigation Derived Waste Management

Reusable sampling equipment (chisels, crow bar, and hand trowels) were decontaminated between sample locations. The equipment was first rinsed with distilled water to remove soil before being soaked in a solution of Alconox detergent and water. Finally, the equipment was rinsed with distilled water.

Investigation derived waste (IDW) consisting of decontamination water was containerized in five-gallon buckets, while solid waste generated (trash and used personal protective equipment (PPE) was collected in a trash bag. At the end of the sampling event, approximately 2.5 gallons of decontamination water and one trash bag containing solid waste were disposed of at the Rico Soil Lead Repository by repository personnel.

DATA VALIDATION

Geosyntec validated the laboratory analytical results for the collected soil samples, including the QC samples, in accordance with the *Phase I VCUP Work Plan* (Formation Environmental 2023). The data provided by the analytical laboratory and the data obtained in the field were found to be usable. Lead was not detected in the equipment blank. The relative percent difference between the primary sample and field duplicate sample results were found to be within the acceptable validation criteria. The laboratory analytical report is provided as **Attachment C** and the data validation report is included as **Attachment D**. **Table 1** presents the analytical results, including the laboratory and data validation qualifiers.

RESULTS

Lead concentrations for the six road segments sampled in November 2024 are illustrated on **Figure 1**, along with concentrations from the October 2023 sampling event for comparison. The 2024 and 2023 results were generally similar and well below the LAL of 761 milligrams per kilogram (mg/kg). As expected due to natural variability, some lead concentrations were higher (RDN-09, RDN-50, and RDN-59) while some lead concentrations were lower (RDN-29, RDN-84, and RDN-57) than measured in 2023. See **Table 2**.

CONCLUSIONS

The results of the Geosyntec field duplicate samples collected in six road segments in Rico validated the results of the AR/Pioneer sampling event in October 2023. The similarity between the datasets supports the conclusion that 2023 data were collected and analyzed properly. Geosyntec's results reflect the natural variability of the road base material, and based on field observations, subsamples were representative of the sampled road segment. Therefore, in Geosyntec's opinion the results from both the October 2023 and November 2024 sampling events are usable and valid.

REFERENCES

Formation Environmental. 2023. *Rico Townsite Soils 2023 Voluntary Cleanup Program (VCUP) Application*. April.

Formation Environmental. 2023. *Appendix B – Phase I VCUP Work Plan*. April.

Geosyntec. 2024. *Road Base Sampling Work Plan, Rico Townsite Soils.* November.

FIGURE

Figure 1 – Lead Concentrations in Unpaved Road Samples – 2023-2024

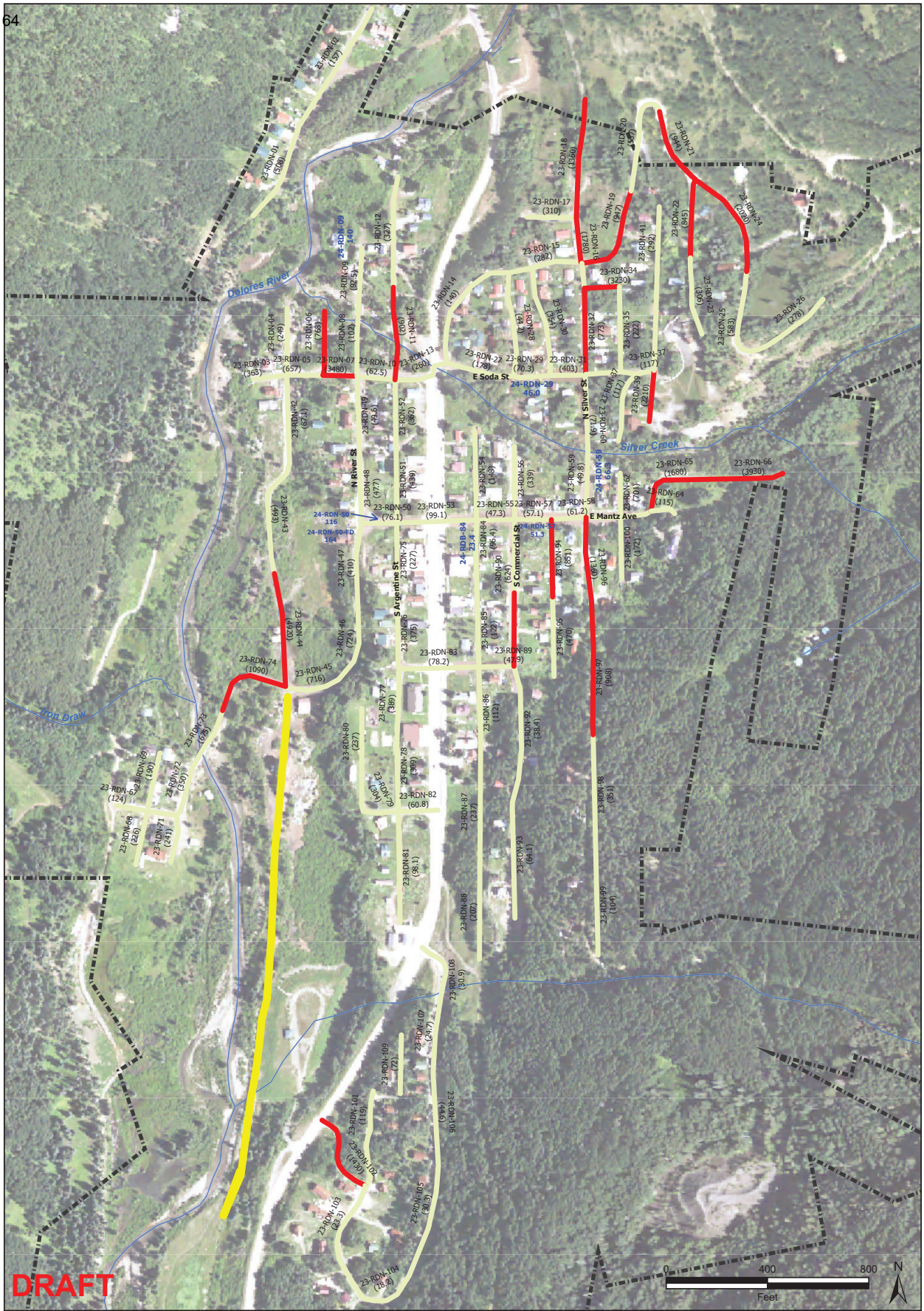
TABLE

Table 1 – Lead Concentrations in Unpaved Road Samples - November 2024
Table 2 – Relative Percent Differences Between 2023 and 2024 Results

ATTACHMENTS

Attachment A – Photographic Log
Attachment B – Sampling Forms
Attachment C – Laboratory Analytical Report
Attachment D – Data Validation Checklist

FIGURE



Legend

2023 Lead Concentrations (mg/kg)

- < 761 mg/kg Lead in 2023
- >= 761 mg/kg Lead in 2023
- Railroad Corridor, >761 mg/kg in 2023, cap only
- Rivers and Streams
- Town of Rico Boundary

2024 Lead Concentrations (mg/kg)

Lead results are from Pace Analytical method 6010 ICP.

RICO, COLORADO

FIGURE 1

LEAD CONCENTRATIONS IN UNPAVED ROAD SAMPLES (2023-2024) 0 - 2" DEPTH

DECEMBER 2024

DE0389 | Greenwood Village, CO

Geosyntec consultants

S:\GIS\a5\Rico\plt\VCUP_application_2023\RoadsAlleys\UnpavedRoads.aprx

TABLES

Table 1. Lead Concentrations in Unpaved Road Samples - November 2024
Rico Town Soils, Rico, Colorado

Sample ID	Sample Date	Matrix	Result	Qualifier	Units	Reporting Limit
24-RDN-09-1	11/12/2024	Soil	140	J3 J5 J6 J	mg/kg	0.5
24-RDN-29-1	11/12/2024	Soil	46.0		mg/kg	0.5
24-RDN-50-1	11/12/2024	Soil	116		mg/kg	0.5
24-RDN-50-1-FD	11/12/2024	Soil	164		mg/kg	0.5
24-RDN-84-1	11/12/2024	Soil	23.4		mg/kg	0.5
24-RDN-57-1	11/12/2024	Soil	51.3		mg/kg	0.5
24-RDN-59-1	11/12/2024	Soil	66.3		mg/kg	0.5
24-RDN-59-1-B	11/12/2024	Water	ND		mg/L	0.006

Notes:

B: Equipment rinsate blank

FD: Field duplicate

J3: Laboratory qualifier; relative percent difference exceeded control limits in the associated quality control (QC) samples

J5: Laboratory qualifier; recovery exceeded control limits in the matrix spike/matrix spike duplicate (MS/MSD)

J6: Laboratory qualifier; recovery was below control limits in the MS/MSD

J: Validation qualifier; result is estimated due to QC results outside of control limits

mg/kg: Milligrams per kilogram

mg/L: Milligrams per liter

Table 2. Relative Percent Differences Between 2023 and 2024 Results
Rico Town Soils, Rico, Colorado

Sample ID	Sample Date	Result	% RPD
24-RDN-09-1	11/12/2024	140	40.86
23-RDN-09-1	10/15/2023	92.5	
24-RDN-29-1	11/12/2024	46.0	41.79
23-RDN-29-1	10/18/2023	70.3	
24-RDN-50-1	11/12/2024	116	41.54
23-RDN-50-1	10/16/2023	76.1	
24-RDN-84-1	11/12/2024	23.4	121.87
23-RDN-84-1	10/16/2023	96.4	
24-RDN-57-1	11/12/2024	51.3	10.70
23-RDN-57-1	10/17/2023	57.1	
24-RDN-59-1	11/12/2024	66.3	28.42
23-RDN-59-1	10/17/2023	49.8	

Notes:
RPD: Relative percent difference

$$RPD(\%) = \frac{S1 - S2}{\frac{S1 + S2}{2}} x100$$ where S1 and S2 are the duplicated values

ATTACHMENT A

PHOTOGRAPHIC LOG

GEOSYNTEC CONSULTANTS
Photographic Record

Project Name: Rico Townsite Soils	**Project Number:** DE0389
Client: Kaplan Kirsch	**Site Location:** Rico, Colorado

Photograph 1

Date: 12 November 2024

Direction: South

Comments: View of segment RDN-09. Soil was frozen and/or icy.

Photograph 2

Date: 12 November 2024

Direction: Northwest

Comments: An approximately 1-inch layer of ice covered two of the subsample locations for segment RDN-09.

GEOSYNTEC CONSULTANTS
Photographic Record

Project Name: Rico Townsite Soils	**Project Number:** DE0389
Client: Kaplan Kirsch	**Site Location:** Rico, Colorado

Photograph 3

Date: 12 November 2024

Direction: South

Comments: Frozen soil with gravel in the northern half of segment RDN-09.

Photograph 4

Date: 12 November 2024

Direction: East

Comments: View of the eastern portion of segment RDN-29. Rutted areas from drainage were avoided when collecting subsamples.

GEOSYNTEC CONSULTANTS
Photographic Record

Project Name: Rico Townsite Soils	**Project Number:** DE0389
Client: Kaplan Kirsch	**Site Location:** Rico, Colorado

Photograph 5

Date: 12 November 2024

Direction: East

Comments: Subsample-04 from segment RDN-29 was relatively dry, with gravel cobbles from 0-2 inches below ground surface (bgs). Larger rocks prevented digging deeper than 2 inches bgs.

Photograph 6

Date: 12 November 2024

Direction: East

Comments: Eastern portion of segment RDN-50. Subsample locations are visible on either side of the cone.

GEOSYNTEC CONSULTANTS
Photographic Record

Project Name: Rico Townsite Soils	**Project Number:** DE0389
Client: Kaplan Kirsch	**Site Location:** Rico, Colorado

Photograph 7

Date: 12 November 2024

Direction: Southwest

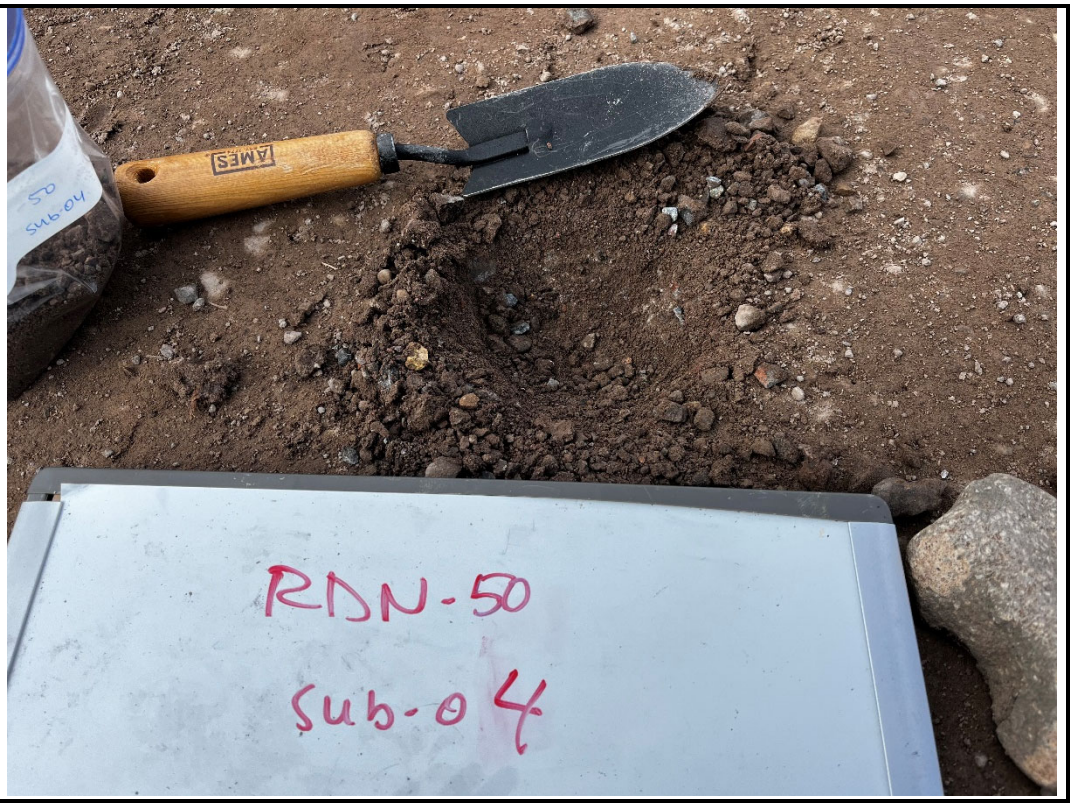
Comments: Non-native gravel was observed around a pothole in the southwestern portion of segment RDN-50 (west of the subsample locations).

Photograph 8

Date: 12 November 2024

Direction: West

Comments: Soil observed at subsample-04 of segment RDN-50 was slightly moist from 0-2 inches bgs. Smaller gravel cobbles were observed from 0-2 inches bgs, and larger rocks prevented digging deeper than 2 inches bgs.



GEOSYNTEC CONSULTANTS
Photographic Record

Project Name: Rico Townsite Soils	**Project Number:** DE0389
Client: Kaplan Kirsch	**Site Location:** Rico, Colorado

Photograph 9

Date: 12 November 2024

Direction: South

Comments: Wet soil at subsample-03 and -04 locations of segment RDN-84.

Photograph 10

Date: 12 November 2024

Direction: North

Comments: Yellow-tan mineralization observed in RDN-84 subsample-03, located at the southern end of the segment.

GEOSYNTEC CONSULTANTS
Photographic Record

Project Name: Rico Townsite Soils	**Project Number:** DE0389
Client: Kaplan Kirsch	**Site Location:** Rico, Colorado

Photograph 11

Date: 12 November 2024

Direction: East

Comments: Disturbed soil around the municipal water line was observed near the western subsamples for segment RDN-57.

Photograph 12

Date: 12 November 2024

Direction: Northeast

Comments: Water well covers excavated near the centerline of segment RDN-57.

GEOSYNTEC CONSULTANTS
Photographic Record

Project Name: Rico Townsite Soils	**Project Number:** DE0389
Client: Kaplan Kirsch	**Site Location:** Rico, Colorado

Photograph 13

Date: 12 November 2024

Direction: East

Comments: Subsample-02 (on the western end of segment RDN-57) was rocky at a depth of approximately 1 inch bgs, which prevented digging deeper.

Photograph 14

Date: 12 November 2024

Direction: Northwest

Comments: Subsample locations from segment RDN-59 was wet from snowmelt.

GEOSYNTEC CONSULTANTS
Photographic Record

Project Name: Rico Townsite Soils	**Project Number:** DE0389
Client: Kaplan Kirsch	**Site Location:** Rico, Colorado

Photograph 15

Date: 12 November 2024

Direction: North

Comments: Soil at subsample-02 from segment RDN-59 was loose and wet from 0-2 inches bgs, with some gravel cobbles.

Photograph 16

Date: 12 November 2024

Direction: North

Comments: Collecting a subsample from the northern subsample locations of segment RDN-59.

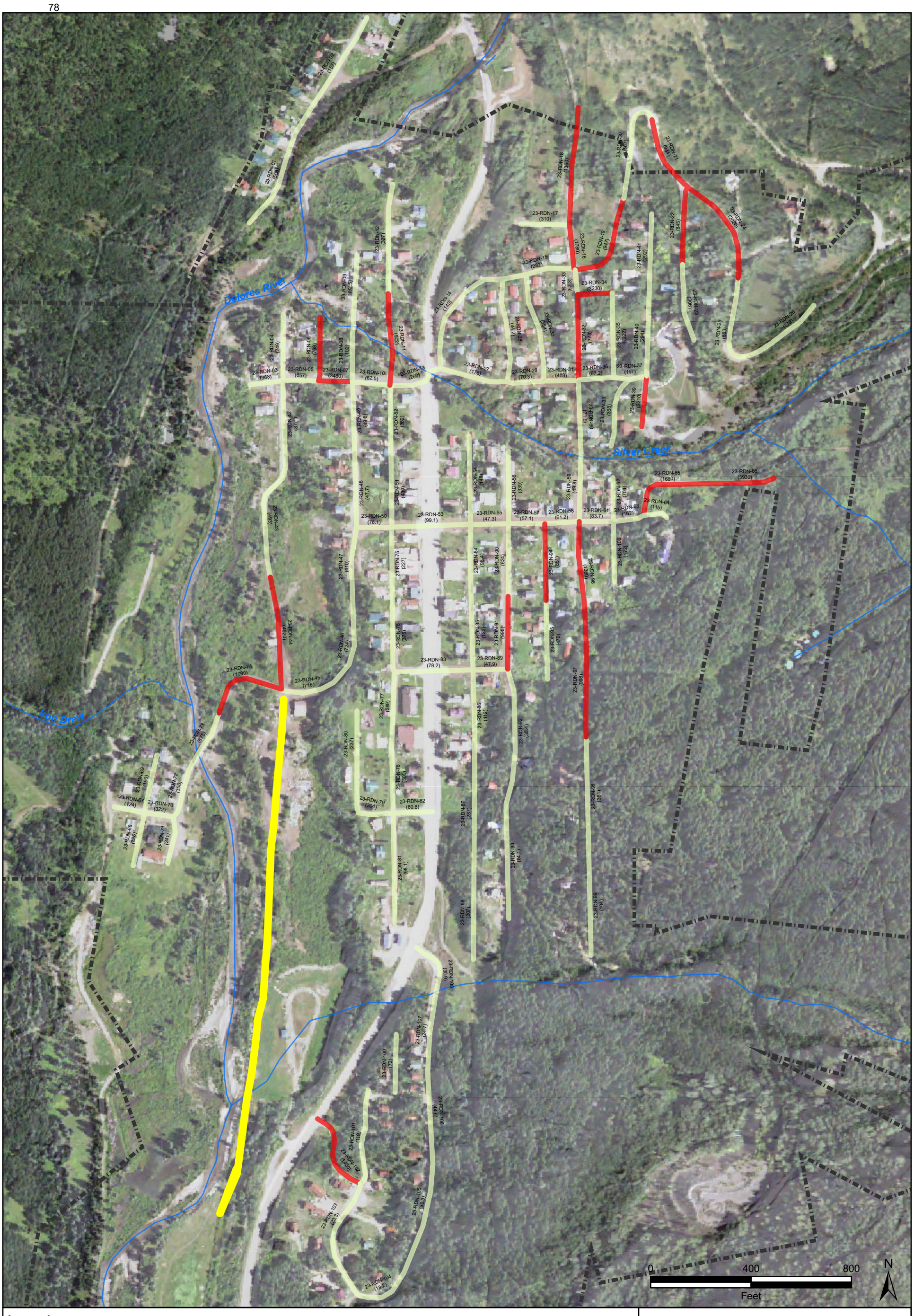
2023 Lead Concentrations in Unpaved Road and Alley Samples

The attached figure shows the results of sampling for lead in unpaved road and alley segments in the Town of Rico (the Town) performed by Atlantic Richfield (AR) in October 2023. The figure shows the lead concentration of each segment and is color-coded to show whether segments are above or below the Residential Lead Action Level of 761 mg/kg lead in soil.

The 2023 road and alley sampling was conducted because more than a decade had passed since prior sampling took place, and in that intervening period, a wide range of road maintenance and construction activities had occurred. Further, activities that affect the composition of the surface of unpaved roads and alleys over time—for example, road maintenance, application of road base, installation and maintenance of utilities, other excavation, and grading—would be anticipated to, over time, affect the lead concentrations in materials at the surface of roads and alleys. The Town, AR, and the Colorado Department of Public Health and Environment (CDPHE) wanted updated results before determining which portions of unpaved Town roads and alleys will require remediation under the Rico Townsite Soils Voluntary Cleanup Program (Rico VCUP). This approach is intended to assure that roads requiring remediation are in fact remediated and roads that do not require remediation are not remediated (to minimize unnecessary disturbance and dust).

The 2023 samples were collected per the CDPHE-approved Phase 1 VCUP Work Plan attached to the VCUP Application. Samples were analyzed for total lead in-field using an XRF spectrometer, and additional soil was retained and submitted for confirmation of lead concentrations by laboratory analysis. Although the Phase 1 VCUP Work Plan only required laboratory analysis for 10% of samples analyzed by XRF, AR elected to submit 100% of the samples for independent lab analysis, which is considered a more accurate and precise sampling approach. Identification of road and alley segments that are currently above or below the Residential Lead Action Level is based on the laboratory results. The Town's expert completed an independent review of the sampling approach, sampling results, and laboratory data sheets.

While the attached figure shows that the concentration of lead in soil at Water Tank Road tested above the Residential Lead Action Level, Water Tank Road is not maintained as a Town road for vehicular traffic, and the remediation of Water Tank Road is not included in the Rico VCUP road remediation program. AR intends to remediate Water Tank Road separately.



Legend

2023 Lead in Unpaved Road Samples (mg/kg)

- < 761 mg/kg Lead
- >= 761 mg/kg Lead
- Railroad Corridor, >761 mg/kg Lead. To be capped with clean material
- Rivers and Streams
- Town of Rico Boundary

Lead results are from Pace Analytical method 6010 ICP.

RICO, COLORADO

2023 LEAD CONCENTRATIONS IN UNPAVED ROAD AND ALLEY SAMPLES 0 - 2" DEPTH

DATE: OCT 22, 2024

By: DKG | For: BGH

FORMATION ENVIRONMENTAL

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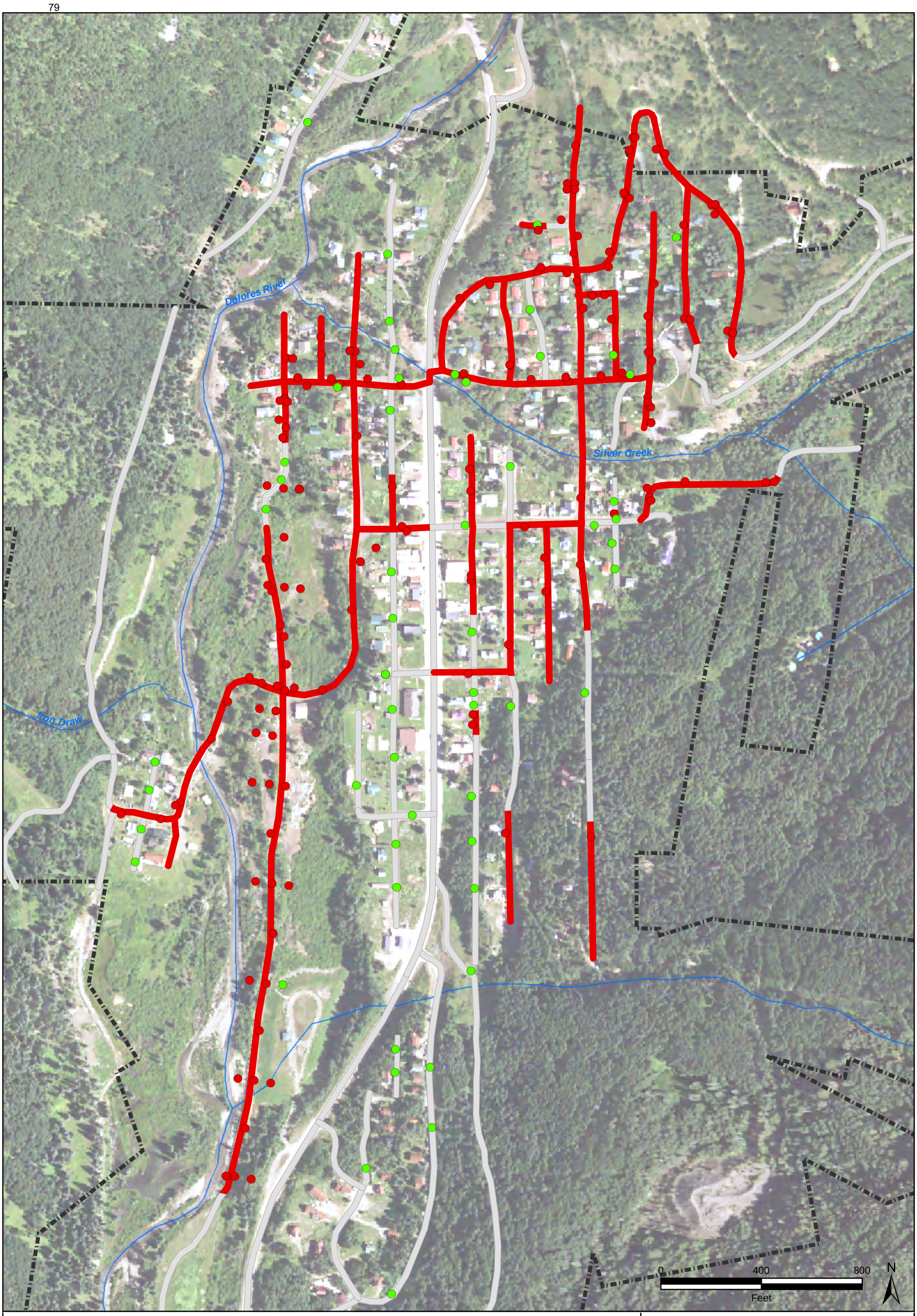

Legend

Road/Alley Lead Results 0 - 2"

- <= 761mg/kg Lead
- > 761 mg/kg Lead

Roads and Alleys

- >= 761 mg/kg Lead

- Rivers and Streams
- Town of Rico Boundary

Sources:
1. Anderson Engineering, Railroad Corridor and Alley Samples, 2008.
2. Short Elliott Hendrickson Inc. (SEH), Collected 2 subsamples that were taken at locations approximately equally spaced from the center of each block then compostied, 2004.
3. Trec Inc., 2014

Total length of road segments > 761 mg/kg/ Lead = ~ 21530 Feet

RICO, COLORADO

FIGURE 9

LEAD CONCENTRATIONS IN UNPAVED ROAD AND ALLEY SAMPLES 0 - 2" DEPTH

DATE: NOV 10, 2022		FORMATION ENVIRONMENTAL
BY: DKG	FOR: BGH	

S:\GIS\a5\Rico\plt\VCUP_application_2022\Fig09_RoadAlleyAbove761.mxd

October 27, 2025

Subject: **Invitation to Bidders – RFP 251027:**
Town of Rico – Remediation of Unpaved Road Segments and Stormwater Controls Construction

DRAFT
NOT FOR CONSTRUCTION

Dear Bidder:

The Town of Rico is pleased to invite you to submit a proposal for **RFP 251027: Town of Rico – Remediation of Unpaved Road Segments and Stormwater Controls Construction.**

Project Background:

Previous mining activities in and around the Town of Rico, Colorado resulted in elevated lead impacts to the town (lots and unpaved roads). The Town of Rico and Atlantic Richfield Company have submitted a Voluntary Cleanup Program (VCUP) Application to the Colorado Department of Public Health and Environment, which has been approved.

Sampling conducted in 2024 has delineated road segments that have lead concentrations exceeding the site-specific action level of 761 mg/kg. The purpose of this current work is to remediate the sections of unpaved roads within the Town of Rico, and construct stormwater controls that will safeguard the remediated roads from future erosion. Plans and specifications for this work have been completed by Anderson Engineering (Anderson).

Request for Proposal:

Your organization has been pre-qualified and is now invited to prepare a proposal according to the attached bid documents' requirements. This Request for Proposal (RFP) is separated into Four Parts.

Part 1 – Instructions to Bidders is intended to provide you with the information necessary to prepare and submit your proposal.

Part 2 – Form of Proposal provides the proposal format required to fully conform to the documents, structure, and contents therein. Minimum Insurance Requirements are contained within the VCUP Program Implementation Funding, and Settlement Agreement by and between the The Town of Rico and Atlantic Richfield Company (Article X, Section 10.1, 10.2). 40-Hour HAZWOPER will be required for all site personnel involved in handling soil that have lead concentrations exceeding the site-specific action level of 761 mg/kg.

Part 3 – Services Agreement contain the legal terms and conditions that define the engagement between the Town of Rico and the successful bidder.

Part 4 – Scope of Services contains a description of the services required.

Parts 2 & 4 will be incorporated into the Services Agreement and the Work Order(s) issued thereunder.

Part 1- Instructions to Bidders

A mandatory pre-bid walk-through will be held on **November 20th, 2025, at the Rico Town Hall.** Further details for the walk-through will be provided upon receipt of confirmation of attendance at the walk-through. Confirmation of your attendance is requested by November xx, 2025.

Questions shall be submitted no later than close of business on January 16th, 2026, to the undersigned at the email address provided below.

You are asked to submit one (1) electronic copy of the original proposal by January 30th, 2026 to the undersigned at the email addresses below.

DRAFT
NOT FOR CONSTRUCTION

Attention: Chauncey McCarthy
Town Manager, Town of Rico
townmanager@ricocolorado.gov

CC: Justin Dye, PE
Anderson Engineering
jdye@andersoneng.com

Ryan Anderson, PLA, CSP
Anderson Engineering
randerson@andersoneng.com

Milestone Dates:

- Project Award February 2026
- Mobilization May-June 2026
- Road Remediation 2026-2027
- Stormwater Controls 2026-2027

Bidders are instructed not to contact other Town of Rico, Anderson Engineering, or Atlantic Richfield employees during this tendering process. Please contact me through the email above with any questions. All responses to questions will be made available to all bidders.

Best Regards,

Chauncey McCarthy
Town Manager
Town of Rico

Encl: *Part 1 – Instructions to Bidders*
Part 2 – Form of Proposal
Part 3 – Services Agreement (if applicable)
Part 4 – Scope of Services

DRAFT
NOT FOR CONSTRUCTION

PART 2

FORM OF PROPOSAL

DRAFT
NOT FOR CONSTRUCTION

FORM OF PROPOSAL

Bidder's Form of Proposal shall consist of the following parts:

1. **Proposal Letter**

2. **Bidder's Cost Proposal**

   Bidders pricing shall be in the format as shown in Exhibit A: Compensation Schedule.

3. **Proposal Attachments** ***[BIDDER TO INSERT AS APPLICABLE]***

   2.1 Safety Qualifications Questionnaire
   2.2 Insurance Requirements
   2.3 List of Proposed Subcontracts
   2.4 Labor Rates for Changes and Extra Work
   2.5 List of Exceptions, Alternates, or Deviations
   2.6 Anticipated Work Schedule
   2.7 Resume of Site Representatives
   2.8 Narrative Description

DRAFT
NOT FOR CONSTRUCTION

[ON BIDDER'S COMPANY LETTERHEAD]

PROPOSAL LETTER

{Date}

BIDDER IS TO SIGN THIS LETTER AND RETURN WITH ENCLOSED PROPOSAL FORMS TO:

Town of Rico
1 N Commercial St
Rico, CO 81332
Attn: Chauncey McCarthy
Email: townmanager@ricocolorado.gov

CC: Anderson Engineering
2053 N Hillcrest Road
Saratoga Springs, UT 84045
Attn: Justin Dye, PE
Email: jdye@andersoneng.com

Re: REQUEST FOR PROPOSAL: RICO251015 REMEDIATION OF UNPAVED ROAD SEGMENTS AND STORMWATER CONSTROLS CONSTRUCTION

DRAFT NOT FOR CONSTRUCTION

We,

_____

(Business Address)

after carefully examining the Instructions to Bidder, the Proposal Invitation Letter, and the Proposal Forms, do hereby offer to perform the Services described in Part 4 of this RFP – Scope of Services per the rates and other costs prepared in the schedules in Part 2 of this RFP - Form of Proposal, all in accordance with the RFP Instructions to Bidder. All overhead, G&A, payroll burden and profit costs are included in the stated rates.

Our Proposal consists of this Proposal Letter, Part 2 – Form of Proposal and applicable Proposal Attachments 1 through 9

Bidder shall certify to either "A" or "B" below by deleting either "A" or "B" as applicable. Any deviations from or exceptions to specifications, drawings, terms and conditions and/or any other documents listed herein must be clearly defined and set forth under statement "B" in order to be considered for award of an Agreement.

A. Our Proposal is in exact accordance with Part 4 – Scope of Services, the general conditions of Agreement provided in Part 3 –Services Agreement (or existing/current agreement with Town of Rico if applicable), the compensation requirements and other requirements of this Request for Proposal with NO EXCEPTIONS.

(or)

B. Our Proposal is in exact accordance with Part 4 – Scope of Services, the general conditions of the Agreement provided in Part 3 –Services Agreement (or existing/current agreement with Town of Rico if applicable), the compensation requirements and other requirements of this Request for Proposal with no exceptions other than those clearly presented in Proposal Attachment 1 attached hereto, and identified as such, for Town of Rico consideration. We have no further exceptions beyond this attached list and in the event we are the Successful Bidder will not introduce further exceptions.

In the event we are selected by Town of Rico to perform these Services we shall enter into the Agreement as provided in Part 3 –Services Agreement of this RFP (or existing/current agreement with Town of Rico if applicable) excepting only the exceptions set forth in the attached list and as approved by Town of Rico.

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Our Proposal shall remain valid up to and including ninety (90) days from the date of our Proposal after which, unless accepted by Town of Rico before that date or extended in writing by us, it will be deemed withdrawn.

We acknowledge receipt of RFP addenda numbers through and hereby confirm that their content is reflected in our Proposal.

BY: _____
Signature of the Bidder's Officer

_____
Name and Title

Date_____ Seal_____

DRAFT
NOT FOR CONSTRUCTION

BIDDER'S COST PROPOSAL

[Upon award of the Agreement to the Successful Bidder, the portions of this cost Proposal that are agreed to by the Parties shall be used as the basis for award

PRICING SCHEDULE:

Bidder shall complete the attached Compensation Schedule (Exhibit A) and return with Proposal.

Labor, direct, and total costs will be provided for each scope element. A rate sheet will also be provided for labor and direct expenses as shown in Attachment 2.4. All staff to be used for the project will be identified, with a full accounting of individual labor estimates. All costs will be provided in US dollars and all cost assumptions will be clearly stated.

All work will be conducted on a time and materials basis, with the total amount not to exceed total cost without written authorization by Town of Rico.

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EXHIBIT A

COMPENSATION SCHEDULE

DRAFT
NOT FOR CONSTRUCTION

TOWN OF RICO VCUP & NON-VCUP STORMWATER CONTROL PLAN
2026 Construction Request for Proposal

Line No.	Task	Estimated Quantity	Unit	Total Price[1,2]	Measurement of Payment	Applicable Drawings	Applicable Specifications	Scope of Work
	RICO REMEDIATION: ROADS, ALLEY, RAIL							
	Remediation General Requirements							
1	*Mobilization/Demobilization and Supervision*	*1*	*LS*	$0.00	*Twenty-five percent of Mobilization/Demobilization may be invoiced at the beginning of the project. An additional 60% may be invoiced with subsequent invoices for payment of work completed. The remaining 15% amount will be paid on the final invoice.*	*NA*	*01285, 01286, 01355*	*Mobilize and demobilize all equipment, personnel, tools necessary to complete the Scope of Work. Include in Mobilization/Demobilization any other overhead cost not included in other line items. Mobilization/Demobilization may not exceed 15% of total contract price.*
2	Stormwater Management Plan (SWMP)	1	LS	$0.00	A percentage of the lump sum cost for SWMP implementation may be invoiced each invoice period based on the invoice percentage in comparison to the total contracted amount.	NA	01286, 01355, 01571, 01572, 01741	This work will be performed as incidental work to road and alley remediation. Refer to the Work Plan for detailed scope.
	RAIL REMEDIATION							
3	RAIL CORRIDOR #100	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 DT-01	01286, 01355, 01455, 01571, 01572, 01721,01741. 02056,02075, 02221, 02231,02721	Smooth the rail grade surface, remove obstructions on or protruding through the surface, and fill in depressions. Install geotextile delineating fabric over the rail grade. Place and compact to 95% MDD Modified Proctor 9" of clean borrow and backfill (CDOT Class 1 or 2 material as directed by QMC), and Place and compact to 95% MDD Modified Proctor 3" aggregate base course (CDOT Class 6 material). Other material may be approved by QMC
	ROAD REMEDIATION **Remove the top 12" of roadway material below existing grade or the lines and grades shown on the plans within designated remediation areas (excavate an additional 12" of material below the top of grade for Type 1 and Type 3 drainage ditches and waterways, and from the bottom of revetment in Type 2 and Type 4 drainage ditches). Haul removed material to the Rico Soil Lead Repository. Install geotextile delineating fabric across the subgrade. Place and compact 12" of CDOT Class 6 Aggregate Base Course material to 95% MDD Modified Proctor. Provide Dust Control as necessary (refer to Specification 01572 - Dust Control and Watering).**							
4	#1 SILVER ST (S SILVER ST TO MILL RD) (133+14.4 TO 136+60.2)	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 RM1-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02075, 02221, 02231, 02721	
5	#2 GARFIELD ST (SO. OF SODA ST) (160+75.2 TO 162+50.0)	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 RM1-01		
6	#3 MILL RD TO SILVER ST (1134+18.3 TO 1138+00) MILL RD (137+36.3 TO 143+99.2)SILVER ST	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 RM1-02		
7	#4 MILL RD & VANWINKLE (1122+36.1 TO 1129+95.2)MILL RD (174+82.8 TO 177+89.0) VANWINKLE	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 RM1-02		
8	#5 COMMERCIAL ST (232+80.7 TO 235+36.8)	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 RM2-01		
9	#6 SILVER ST (16 S. SILVER ST TO MANTZ AVE) (259+11.4 TO 260+82.9)	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 RM2-01		
10	#7 SODA ST (W. OF RIVER ST) (1332+70.2 TO 1334+50.4)	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 RM3-01		
11	#8 HANCOCK ST TO PICKER ST (360+28.5 TO 364+04.4) HANCOCK (340+29.9 TO 343+66.3) PICKER	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 RM3-01		

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	ALLEY REMEDIATION **Remove the top 12" of roadway material below existing grade or the lines and grades shown on the plans within designated remediation areas. Haul removed material to the Rico Soil Lead Repository. Install geotextile delineating fabric across the subgrade. Place and compact 12" of CDOT Class 6 Aggregate Base Course material to 95% MDD Modified Proctor. Provide Dust Control as necessary (refer to Specification 01572 - Dust Control and Watering).**							
12	#21 GARFIELD ALLEY (153+33.6 TO 154+60.2)	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 RM1-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02075, 02221, 02231, 02721	
13	#22 CARTER WAY (SO. OF MANTZ AVE) (272+44.1 TO 275+05.2)	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 RM2-01		
14	#23 SILVER ST. (SO. OF 16 S. SILVER ST) (252+75.3 TO 259+11.4)	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 RM2-01		
15	#24 SODA ST ALLEY (390+50.2 TO 392+97.2)	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 RM3-01		
16	#25 ARGENTINE ALLEY (NO. OF SODA ST.) (322+90.2 TO 326+24.4)	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 RM3-01		
17	#26 SILVERGLANCE ABANDONED ACCESS ROAD (433+88.3 TO 437+07.7)	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RM-01 RM3-01		
	VCUP Drainage General Requirements (2026)							
18	Mobilization/Demobilization (2026)	1	LS	$0.00	Twenty-five percent of Mobilization/Demobilization may be invoiced at the beginning of the project. An additional 60% may be invoiced with subsequent invoices for payment of work completed. The remaining 15% amount will be paid on the final invoice.	NA	01285, 01286, 01355	Mobilize and demobilize all equipment, personnel, tools necessary to complete the Scope of Work. Include in Mobilization/Demobilization any other overhead cost not included in other line items. Mobilization/Demobilization may not exceed 15% of total contract price.
19	Stormwater Management Plan (SWMP)	1	LS	$0.00	A percentage of the lump sum cost for SWMP implementation may be invoiced each invoice period based on the invoice percentage in comparison to the total contracted amount.	NA		This work will be performed as incidental work to drainage infrastructure construction activities.
	VCUP Drainage General Requirements (2027)							
20	Mobilization/Demobilization (2027)	1	LS	$0.00	Twenty-five percent of Mobilization/Demobilization may be invoiced at the beginning of the project. An additional 60% may be invoiced with subsequent invoices for payment of work completed. The remaining 15% amount will be paid on the final invoice.	NA	01285, 01286, 01355	Mobilize & demobilize all equipment, personnel, tools, and seed necessary to complete seeding requirements specified in the Work Plan.
21	Stormwater Management Plan (SWMP)	1	LS	$0.00	A percentage of the lump sum cost for SWMP implementation may be invoiced each invoice period based on the invoice percentage in comparison to the total contracted amount.	NA	01286, 01355, 01571, 01572, 01741	This work will be performed as incidental work to drainage infrastructure construction activities.
	VCUP ZONE 1 (DRAINAGE-DITCHES)							
	E MILL RD ALIGNMENT STA 1110+00 TO STA 1338+16							
22	DITCH, TYPE 4 (1110+09.6 TO 1112+37.3) (1112+56.1 TO 1114+36.3) (1114+53.1 TO 1116+83.0)	637.8	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-01 DR1-02		Excavate the ditch to the revetment subgrade, and haul excess material to the Soil Lead Repository, or other QMC-designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock.

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23	DITCH, TYPE 4 (1116+99.6 TO 1122+91.0) (1123+22.9 TO 1123+99.8) (1124+29.8 TO 1130+64.9) Apron (1130+64.9)	1,311	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-02 DR1-03	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to the Soil Lead Repository, or other QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock. Ditch subgrade excavation and haulage of cut material from STA 1122+36.1 TO STA 1129+95.2) to occur as part of remediation work item #7 Install riprap apron with GW30V 6-in depth geoweb and 2-in D50 rock per DT.02 on Sheet DT-04.
24	DITCH, TYPE 4 (1130+00.6 TO 1131+80.6) (1132+65.5 TO 1135+43.2) (1136+27.4 TO 1137+02)	532	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-03 DR1-04A DR1-04B		Excavate the ditch to the revetment subgrade, and haul excess material to the Soil Lead Repository, or other QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock. Ditch subgrade excavation and haulage of cut material from STA 1134+18.3 TO STA 1137+02.0 to occur as part of remediation work item #6.
25	DITCH, TYPE 4 (1137+36.9 TO 1138+04.1)	67	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-04A		Excavate the ditch to the revetment subgrade, and haul excess material to the Soil Lead Repository, or other QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock. Ditch subgrade excavation and haulage of cut material from STA 1137+02.0 TO STA 1138+00.0 to occur as part of remediation work item #6
26	WATERBAR (1112+37.3 TO 1112+44.7) (1114+36.3 TO 1114+47.4) (1116+83.0 TO 1116+92.8)	3	EACH	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-01 DR1-02	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02221, 02231	Grade road and ditch per Detail 03/DT-07 to intercept ditch and discharge off of side of road.
	N SILVER ST ALIGNMENT STA 137+50 TO STA 144+11							
27	DITCH, TYPE 4 (137+78.1 TO 140+07.9)	229.74	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-04A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to the Soil Lead Repository, or other QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock. Ditch subgrade excavation and haulage of cut material from STA 137+36.3 TO STA 143+99.2 to occur as part of remediation work item #5
28	DITCH, TYPE 3 (140+37.9 TO 144+11.4)	374	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-04A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch to the specified lines and grades, and haul cut material to QMC designated screening area. Ditch top of grade excavation from 140+37.9 STA to STA 143+99.2 to occur as part of remediation work item #6
	VANWINKLE AVE ALIGNMENT STA 170+00 TO STA 178+72							
29	DITCH, TYPE 3 (170+43.5 TO 171+46.0)	103	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-05 DR1-201	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix.

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30	DITCH, TYPE 4 (172+18.8 TO 174+95.1)	276	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-05	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to the Soil Lead Repository, or other QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock. Ditch subgrade excavation and haulage of cut material from STA 174+82.8 TO STA 174+95.1 to occur as part of remediation work item #7
31	DITCH, TYPE 4 (176+58.5 TO 177+70.1) (176+02.7 TO +175+49.0)	165	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-06		Excavate the ditch to the revetment subgrade, and haul excess material to the Soil Lead Repository, or other QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock. Ditch subgrade excavation and haulage of cut material from STA 174+95.1 TO STA 177+89.0 to occur as part of remediation work item #7
	N VANWINKLE TO E MILL ALIGNMENT STA 181+00 TO STA 182+82							
32	DITCH, TYPE 4 (181+74.7 TO 182+72.6)	98	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-06 DR1-04B	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to the Soil Lead Repository, or other QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock.
	N GARFIELD ST ALIGNMENT STA 160+00 TO STA 161+85.5							
33	DITCH, TYPE 4 (161+85.5 TO 161+12)	74	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-09 DR1-204	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to the Soil Lead Repository, or other QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock. Ditch subgrade excavation and haulage of cut material from STA 160+75.2 TO STA 162+50.0 to occur as part of remediation work item #5
	N GARFIELD ST ALIGNMENT STA 166+50 TO STA 168+00							
34	DITCH, TYPE 4 (166+61.8 TO 167+75.1)	113	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to the Soil Lead Repository, or other QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock.
	N SILVER ST ALIGNMENT STA 133+10 TO STA 137+55							
35	DITCH, TYPE 1 (133+42.1 TO 135+87.1) (136+02.1 TO 136+30.6)	274	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A DR1-07C DR1-07D	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix. Ditch top of grade excavation from STA 133+14.4 TO STA 136+60.2 to occur as part of remediation work item #4
36	DITCH, TYPE 2 (133+21.3 TO 133+42.1)	21	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A DR1-07D	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to the Soil Lead Repository, or other QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock. Ditch subgrade excavation and haulage of cut material from STA 133+14.4 TO STA 136+60.2 to occur as part of remediation work item #4
	N SILVER ST ALIGNMENT STA 130+00 TO STA 133+00							

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37	DITCH, TYPE 1 (131+74.7 TO 132+77.9)	103	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR-109	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix.
	VCUP ZONE 1 (STRUCTURES AND PIPE CULVERTS)							
	E MILL RD ALIGNMENT STA 1110+00 TO STA 1138+16							
38	PIPE CULVERTS P01-24:(1122+89.5 TO 1123+21.5) P01-25:(1123+98.2 TO 1124+28.2) P01-26:(1131+80.6 TO 1132+65.5) P01-12:(1137+02.0 TO 1137+36.9)	198	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-02 TO DR1-04A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
39	REMOVE PIPE CULVERT: EXISTING MILL RD CULVERT (1136+86, 14' LT TO 1137+11, 18' RT)	40	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-04A, DR1-206	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02231	Remove existing outlet culvert and backfill to the existing road line and grades with CDOT Class 6 Aggregate Base Course material. Place and compact per Specification 02721 - Aggregate Base Course.
	SO. VANWINKLE DITCH & CULVERT ALIGNMENT STA 0+10 TO STA 2+20.25							
40	PIPE CULVERTS P01-01:(1+07.41 TO 1+85.11)	78	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR-201	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
	VANWINKLE AVE OUTLET CULVERT ALIGNMENT STA 0+00 TO STA 3+45							
41	PIPE CULVERTS P01-02:(0+12.5 TO 0+64.49) P01-03:(0+64.49 TO 1+25.55) P01-04:(1+25.55 TO 1+69.52) P01-05:(1+69.52 TO 2+57.11) P01-06:(2+57.11 TO 2+89) P01-07A:(2+89 TO 3+24.09) P01-07B:(3+24.09 TO 3+44.33)	319	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-202 DR1-203	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
42	CONCRETE CATCH BASIN (36X24): CB01-01: (0+64.49) RIM TO SUMP H=3.5' CB01-02: (1+25.55) RIM TO SUMP H=5.5' CB01-03: (1+69.52) RIM TO SUMP H=5.5' CB01-04: (2+57.11) RIM TO SUMP H=4.5' CB01-05: (2+89) RIM TO SUMP H=4.5'	5	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-202 DR1-203	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
43	CONCRETE CATCH BASIN (36X36): CB01-06: (3+24.09) RIM TO SUMP H=5.0'	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-202 DR1-203	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
	VANWINKLE AVE ALIGNMENT STA 175+44 TO STA 176+59							

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44	REMOVE PIPE CULVERT: EXISTING VAN WINKLE OUTLET CULVERT (12" PIPE) (175+44,15' RT. TO 175+86.8, 52' LT.)	80	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02231	Remove existing outlet culvert and backfill to the existing road line and grades with CDOT Class 6 Aggregate Base Course material. Place and compact per Specification 02721 - Aggregate Base Course.
45	CLEAN OUT PIPE CULVERT: EXISTING 137 VAN WINKLE 12-IN. CULVERT (176+15 TO 176+59)	44	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Clean out existing culvert and restore existing ditch flowlines to match the pipe culvert inverts. Add pipe extension from end of pipe to new Catch Basin CB01-02 (Approximate 5-ft length).
	N VANWINKLE TO E MILL ALIGNMENT STA 180+00 TO STA 182+82							
46	REMOVE PIPE CULVERT: REMOVE EXISTING GARFIELD 12-IN OUTLET CULVERT (181+21.4,2.2' RT. TO 181+54.6, 9.1' LT.)	39	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-06 DR1-202A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02231	Remove existing outlet culvert and backfill to the existing road line and grades with CDOT Class 6 Aggregate Base Course material. Place and compact per Specification 02721 - Aggregate Base Course.
47	REMOVE PIPE CULVERT: REMOVE EXISTING GARFIELD 10-IN DRIVEWAY CULVERT (181+63.8, 8.2' LT. TO 181+73.5, 8.2' LT.)	10	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-06 DR1-202A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02231	Remove existing outlet culvert including the headwall at the end of the pipe along the edge of driveway. Backfill to occur as part of installing Pipe P01-07B.
48	CLEAN OUT PIPE CULVERT: EXISTING GARFIELD-1 CULVERT (14-IN PIPE) (181+18, 29 LT TO STA 181+54, 11 LT)	41	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-06	01286, 01355, 01455, 01571, 01572, 01721	Clean out existing culvert and restore existing ditch flowlines to match the pipe culvert inverts. Add pipe extension from end of pipe to new Catch Basin CB01-06 (Approximate 5-ft length with 45° elbow).
	N. SILVER ST PIPE NETWORK ALIGNMENT STA 0+00 TO STA 1+99							
49	PIPE CULVERTS P01-10:(0+21.4 TO 0+41.63) P01-11:(0+41.63 TO 1+91.03)	170	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-09	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
50	CONCRETE CATCH BASIN (36x24): CB01-08: (0+41.63) RIM TO SUMP H=3.5'	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-09	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211,	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
	GARFIELD ST CULVERT OUTLET ALIGNMENT STA 0+00 TO STA 1+41.76							
51	PIPE CULVERTS P01-09:(0+16.1 TO 1+21. 98)	106	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-204	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
	VCUP ZONE 1 (CONCRETE FLATWORK)							
	E MILL RD ALIGNMENT STA 1110+00 TO STA 1338+16							

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52	6-FT WATERWAY: (1135+43.2 TO 1136+27.4)	85	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-04B	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on Sheet DR1-04B.
	N SILVER ST ALIGNMENT STA 137+45 TO STA 141+00							
53	TRENCH DRAIN (140+07.9 TO 140+37.9)	30	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-04A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Install trench drain. Installation includes excavation, installation of precast trenches, and grate assembly, then backfill and compact around the trench drain with CDOT Class 6 Aggregate Base Course per Specification 02721.
	N SILVER ST ALIGNMENT STA 133+10 TO STA 137+50							
54	6-FT WATERWAY: (135+87.1 TO 136+02.1)	15	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A DR1-07C	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings.
55	APWA C&G TYPE G (136+68.2 TO 136+84.1)	16	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A DR1-07B		Excavate and install APWA C&G TYPE G waterway.
	N GARFIELD ALLEY ALIGNMENT STA 154+00 TO STA 154+90							
56	4-FT WATERWAY: (154+57.5 TO 154+84.1)	25	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A DR1-07B	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 4-ft wide waterway. Blend surface grading into waterway as shown on drawings. Ditch subgrade excavation and haulage of cut material from STA 154+57.5 TO STA 154+84.1 to occur as part of remediation work item #12
	VCUP ZONE 1 (ROAD GRADING)							
	E MILL RD ALIGNMENT STA 1110+00 TO STA 1338+16							
57	ROAD GRADING (1135+33.2 TO 1136+32.6)	100	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-04B	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade road per plan specifications.
	N VANWINKLE AVE ALIGNMENT STA 170+00 TO STA 176+25							
58	ROAD GRADING (170+20.9 TO 171+28.4)	108	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	RD1-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade road per plan specifications.
	N SILVER ST ALIGNMENT STA 133+00 TO STA 137+56							
59	ROAD GRADING (135+76.9 TO 137+55.6)	178	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A DR1-07B DR1-07C	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade road per plan specifications.
	N GARFIELD ALLEY ALIGNMENT STA 153+25 TO STA 154+90							
60	ALLEY GRADING (153+25 TO 154+57.5)	133	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel. Ditch subgrade excavation and haulage of cut material from STA 153+33.6 TO STA 154+57.5 to occur as part of remediation work item #12
	VCUP ZONE 1 (SEEDING)							

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	DITCHES TYPE 1, TYPE 3, AND ALLEY/EMBANKMENT SEEDING							
61	SEEDING (300 SQYD = 0.062 ACRES)	300	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR1-01 TO DR1-10	02922	Seed ditches using the Type B seed mix and fertilize as as soon as possible following QMC acceptance of completed soil cover areas according to the seeding schedule provided in Specification 02922 - Seeding. Install Type 2 ECB directly after seed and fertilizer applications (see next line item).
62	ECB REINFORCEMENT	300	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR1-01 TO DR1-10	02922	Hand Staple Temporary Erosion Control Blanket (ECB) along the wetted perimeter of ditches directly after seed and fertilizer application.
	BREAK TO ZONE 2							
	VCUP ZONE 2 (DRAINAGE-DITCHES)							
	S SILVER ST ALIGNMENT STA 261+25.0 TO STA 263+87							
63	DITCH, TYPE 2 (261+44.6 TO 261+70.6)	40	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock.
64	DITCH, TYPE 1 (261+70.6 TO 262+35.9) (262+35.9 TO 262+95.7) (263+15.4 TO 263+52.6) Apron (263+52.6 TO 263+65.3)	175	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away as directed by the QMC. Install riprap apron with GW30V 6-in depth geoweb and 2-in D50 rock per DT.02 on Sheet DT-04.
	S SILVER ST ALIGNMENT STA 250+00 TO STA 261+25.0							
65	DITCH, TYPE 4 (257+71.3 TO 258+06.8) (258+32.9 TO 259+44.7) (260+26.4 TO 260+91.9)	213	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-04	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock. Ditch subgrade excavation and haulage of cut material from STA 257+71.3+258+06.8 TO STA 258+48.2 to259+44.7 to occur as part of remediation work item #14 Ditch subgrade excavation and haulage of cut material from STA 260+26.4 TO STA 260+91.9 to occur as part of remediation work item #9
	S COMMERCIAL ST ALIGNMENT STA 232+25 TO STA 238+25							
66	DITCH, TYPE 1 (233+24.6 TO 235+98.5) (236+28.5 TO 237+14.5)	359.9	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-05A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away as directed by the QMC. Ditch top of grade excavation from STA 233+24.6 TO STA 235+98.5 & STA 236+28.5 TO STA 237+14.5 to occur as part of remediation work item #8
67	DITCH, TYPE 2 (237+61.3 TO 238+01.2)	54	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-05A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock.
	E CAMPBELL ST ALIGNMENT STA 1214+00 TO STA 1217+00							
68	DITCH, TYPE 2 (1214+49.1 TO 1215+64.6) (1215+79.6 TO 1216+76.5)	237	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-05A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock.

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	VCUP ZONE 2 (STRUCTURES AND PIPE CULVERTS)							
	S SILVER ST ALIGNMENT STA 250+00 TO STA 261+25.0							
69	PIPE CULVERTS P02-05: (258+06.7 TO 258+32.9) P02-10: (259+44.7 to 260+26.4)	108	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-04	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
70	REMOVE 8-IN PIPE CULVERT EXISTING SILVER ST 8-IN CULVERT (259+55.5 TO 259+93.4)	38	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-04	01286, 01355, 01455, 01571, 01572, 01721	Remove existing outlet culvert and backfill to the existing road line and grades with CDOT Class 6 Aggregate Base Course material. Place and compact per Specification 02721 - Aggregate Base Course.
71	REMOVE 8-IN PIPE CULVERT EXISTING SILVER ST 8-IN CULVERT2 (260+01.0 TO 260+17.6)	16	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-04		Remove existing outlet culvert and backfill to the existing road line and grades with CDOT Class 6 Aggregate Base Course material. Place and compact per Specification 02721 - Aggregate Base Course.
72	PLUG AND ABANDON 4-IN PIPE (260+91.9)	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-04		Remove 3-ft of the existing 4" pipe and plug the end to abandon existing pipe in place.
	VCUP ZONE 2 (CONCRETE FLATWORK)							
	S SILVER ST ALIGNMENT STA 261+25.0 TO STA 263+87							
73	6-FT WATERWAY (262+95.7 TO 263+15.4)	20	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	S COMMERCIAL ST ALIGNMENT STA 232+25 TO STA 238+25							
74	6-FT WATERWAY (232+94.6 TO 233+24.6) (235+98.5 TO 236+28.5)	60	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-05A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings. Ditch subgrade excavation and haulage of cut material from STA 232+94.6 TO 233+24.6 to occur as part of remediation work item #8
	E CAMPBELL ST ALIGNMENT STA 1214+00 TO STA 1217+00							
75	6-FT WATERWAY (1215+64.6 TO 1215+79.6)	15	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-05A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	ALLEY WAY 1 ALIGNMENT STA 205+25 TO STA 211+00							
76	APWA C&G TYPE G (206+04.3 TO 206+44.3)	40	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-05A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install APWA C&G TYPE G Curb & Gutter. Blend surface grading into Type G Curb & Gutter.
77	APWA C&G TYPE G (207+24.3 TO 208+89.3)	165	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-05A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install APWA C&G TYPE G Curb & Gutter. Blend surface grading into Type G Curb & Gutter.

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	VCUP ZONE 2 (ROAD GRADING)							
	S SILVER ST ALIGNMENT STA 250+00 TO STA 261+25.0							
78	ALLEY GRADING (250+00 TO 258+48.2)	848	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-03 DR2-04	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel. Ditch subgrade excavation and haulage of cut material from STA 252+75.3 TO STA 258+48.2 to occur as part of remediation work item #14
	ALLEY WAY 2 ALIGNMENT STA 273+75 TO STA 275+50							
79	ALLEY GRADING (273+80.6 TO 275+34.0)	153	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-05A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel. Ditch subgrade excavation and haulage of cut material from STA 273+80.6 TO STA 274+88.1 to occur as part of remediation work item #13
	ALLEY WAY 1 ALIGNMENT STA 205+25 TO STA 211+00							
80	ALLEY GRADING (205+42.8 TO 210+80.4)	538	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-05A DR2-05C	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel.
	VCUP ZONE 2 (SEEDING)							
	DITCHES TYPE 1, TYPE 3, AND ALLEY/EMBANKMENT SEEDING							
81	SEEDING (870 SQYD = 0.18 ACRES)	870	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR2-01A TO DR2-05C	02922	Seed ditches using the Type B seed mix and fertilize as as soon as possible following QMC acceptance of completed soil cover areas according to the seeding schedule provided in Specification 02922 - Seeding. Install Type 2 ECB directly after seed and
82	ECB REINFORCEMENT	870	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR2-01A TO DR2-05C	02922	Hand Staple Temporary Erosion Control Blanket (ECB) along the wetted perimeter of ditches directly after seed and fertilizer application.
	BREAK TO ZONE 3							
	VCUP ZONE 3 (DRAINAGE-DITCHES)							
	MANTZ AVE ALIGNMENT STA 1320+25 TO STA 1324+27 (NORTH SIDE)							
83	DITCH, TYPE 4 (1320+57.7 TO 1321+37.7) (1321+67.7 TO 1322+50.0)	162.3	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock.
	W SODA ST ALIGNMENT STA 1330+00 TO STA 1337+80							
84	DITCH, TYPE 2 (1330+26.6 TO 1331+06.2) (1331+36.2 TO 1332+36.8) (1332+98.3 TO 1334+09.0)	290.9	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock.
85	DITCH, TYPE 2 (1334+38.8 TO 1335+40.0)	101.2	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-05		Excavate the ditch to the revetment subgrade, and haul excess material to QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock. Ditch subgrade excavation and haulage of cut material from STA 1332+70.2 TO STA 1334+50.4 to occur as part of remediation work item #10
86	DITCH, TYPE 1 (1336+46.9 TO 1337+48.5) Apron (1337+48.5 TO 1337+57.2)	130	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-05	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix. Install riprap apron with GW30V 6-in depth geoweb and 2-in D50 rock per DT.02 on Sheet DT-04.

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	S RIVER ST TO PICKER ST ALIGNMENT STA 330+14 TO STA 332+25							
87	DITCH, TYPE 1 (330+31.3 TO 331+26.1)	94.8	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix.
88	DITCH, TYPE 2 (331+37.6 TO 331+90.8)	53.2	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock.
	RIVER ST ALIGNMENT STA 350+00 TO STA 354+25							
89	DITCH, TYPE 1 (350+00.0 TO 350+28.3) (350+41.0 TO 351+22.2) (351+40.4 TO 351+70.4) (352+28.6 TO 353+29.2) (353+39.3 TO 353+99.0)	299.8	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix.
	ARGENTINE ST ALIGNMENT STA 322+70 TO STA 330+10							
90	DITCH, TYPE 4 (322+90.6 TO 323+90.9)	100.3	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock. Ditch subgrade excavation and haulage of cut material from STA 322+90.2 TO STA 323+90.9 to occur as part of remediation work item #16
91	DITCH, TYPE 3 (329+22.5 TO 329+88.7)	66.2	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-09	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix.
	S HANCOCK ST TO SODA ALIGNMENT STA 360+00 TO STA 364+00							
92	DITCH, TYPE 3 (360+34.2 TO 363+63.1)	328.9	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix. Ditch top of grade excavation from STA 360+34.2 TO STA 363+63.1 to occur as part of remediation work item #11
	S RIVER TO PICKER ALIGNMENT STA 331+75 TO STA 346+00							
93	DITCH, TYPE 4 (332+16.1 TO 338+23.9) (338+32.0 TO 339+20.8)	696.6	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock.
94	DITCH, TYPE 3 (340+28.0 TO 344+13.9) (344+37.4 TO 345+85.9) Apron (345+85.9 TO 345+90.7)	539.28	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-06 DR3-07	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix. Ditch top of grade excavation from STA 340+29.9 TO STA 343+66.3 to occur as part of remediation work item #11 Install riprap apron with GW30V 6-in depth geoweb and 2-in D50 rock per DT.02 on Sheet DT-04.
	MANTZ AVE ALIGNMENT STA 1320+25 TO STA 1324+27 (SOUTH SIDE)							

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95	DITCH, TYPE 4 (1320+62.4 TO 1321+36.7) (1321+70.2 TO 1322+58.7)	238.1	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-02	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock.
	VCUP ZONE 3 (STRUCTURES AND PIPE CULVERTS)							
	S RIVER ST PIPE CULVERT ALIGNMENT STA 0+00 TO STA 346+00							
96	PIPE CULVERTS: P03-01: (0+09.1 TO 0+76.7) P03-02: (0+76.7 TO 1+28.5)	119	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-201	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
97	CONCRETE CATCH BASIN (36X24): CB03-01: (0+09.1) RIM TO SUMP H= 4.5'	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-201	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
98	CONCRETE CATCH BASIN (36X36): CB03-02: (0+76.65) RIM TO SUMP H= 4.0'	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-201		Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
	W MANTZ CULVERT ALIGNMENT STA 0 TO STA 0+57.5							
99	PIPE CULVERTS: P03-03: (0+07.6 TO 0+51.3)	42	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-201	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
100	CONCRETE CATCH BASIN (36X24): CB03-03: (0+07.6) RIM TO SUMP H= 3.5'	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-201	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill of basin.
	W SODA ST ALIGNMENT STA 1330+00 TO STA 1337+80							
101	CLEAN OUT PIPE CULVERT: EXISTING SODA-1 12" CMP (1332+36.8 TO 1332+98.3) EXISTING SODA-2 12" CMP (1334+09.0 TO 1334+38.8)	115	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-01A DR3-05	01286, 01355, 01455, 01571, 01572, 01721	Clean out existing culvert and restore existing ditch flowlines to match the pipe culvert inverts.
102	REMOVE PIPE CULVERT: EXISTING 14-IN. PVC PIPE ACROSS HANCOCK ST. (1335+40.0, 16.3' LT TO 1335+80.0, 13.5' LT)	40	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-05 DR3-206	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02231	Remove existing outlet culvert and backfill to the existing road line and grades with CDOT Class 6 Aggregate Base Course material. Place and compact per Specification 02721 - Aggregate Base Course.
103	CONCRETE CATCH BASIN (36X24): CB03-03: (0+07.6) RIM TO SUMP H= 3.5'	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-201	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill of basin.
	SODA ST & HANCOCK ST CULVERT ALIGNMENT STA 0+00 TO STA 1+14.5							

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104	PIPE CULVERTS: P03-11 (0+08.2 TO 0+49.7) P03-12 (0+49.7 TO 1+14.4)	104	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-05 DR3-206	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
105	CONCRETE CATCH BASIN (36X24): CB03-06: (0+49.69) RIM TO SUMP H= 5.0'	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-206	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill of basin.
	PICKER ST MID OUTLET CULVERT ALIGNMENT STA 10+00 TO STA 11+43							
106	PIPE CULVERTS: P03-06: (10+67.6 TO 11+09.6) P03-07: (344+13.9 TO 344+37.4)	42	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-06 DR3-204	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
	S RIVER TO PICKER ALIGNMENT STA 331+75 TO STA 346+00							
107	PIPE CULVERTS: P03-07: (344+13.9 TO 344+37.4)	24	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-07	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
	ARGENTINE ST ALIGNMENT STA 324+18 TO STA 330+10							
108	PIPE CULVERTS: P03-10: (323+90.9)	25	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
109	RIPRAP PLACEMENT BELOW ARGENTINE STREET OUTLET PIPE CULVERT (324+13.1)	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	After pipe installation place 12-in to 18-in riprap below outlet. (APPROXIMATED 5-FT x 5-FT DIMENSIONS)
110	PIPE CULVERTS: P03-08: (329+88.7)	27	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-09	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
	VCUP ZONE 3 (CONCRETE FLATWORK)							
	MANTZ AVE ALIGNMENT STA 1320+25 TO STA 1324+27							
111	4-FT WATERWAY: (1321+37.7 TO 1321+67.7)	30	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Excavate and install 4-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	ARGENTINE ST ALIGNMENT STA 317+00 TO STA 330+10							

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112	APWA C&G TYPE G: (318+77.8 TO 318+92.8) (319+59.1 TO 319+69.2)	25	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install APWA C&G TYPE G Curb & Gutter. Blend surface grading into Type G Curb & Gutter.
113	APWA C&G TYPE G: (324+63.2 TO 324+87.4) (325+80.3 TO 325+95.3) (327+95.1 TO 328+23.5)	68	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-09	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install APWA C&G TYPE G Curb & Gutter. Blend surface grading into Type G Curb & Gutter. Ditch subgrade excavation and haulage of cut material from STA 324+63.2 TO STA 324+87.4 & STA 325+80.3 TO 325+95.3 STA to occur as part of remediation work item #16
	W MANTZ AVE ALIGNMENT STA 360+00 TO STA 364+00							
114	4-FT WATERWAY: (1321+36.7 TO 1321+70.2)	34	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-02	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Excavate and install 4-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	S HANCOCK ST TO SODA ALIGNMENT STA 360+00 TO STA 364+00							
115	4-FT WATERWAY: (360+05.7 TO 360+34.2)	30	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 4-ft wide waterway. Blend surface grading into waterway as shown on drawings. Ditch subgrade excavation and haulage of cut material from STA 360+28.5 TO STA 360+34.2 to occur as part of remediation work item #11
	RIVER STREET ALIGNMENT STA 350+00 TO STA 354+00							
116	6-FT WATERWAY: (350+28.3 TO 350+41.0) (351+22.2 TO 351+40.4) (351+70.4 TO 352+28.6) (353+29.2 TO 353+39.3)	100	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	W SODA ST ALIGNMENT STA 1330+00 TO STA 1337+80							
117	6-FT WATERWAY: (1331+06.2 TO 1331+36.2)	30	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-01A DR3-05	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	S RIVER TO PICKER ALIGNMENT STA 330+00 TO STA 341+00							
118	6-FT WATERWAY: (330+14.1 TO 330+31.3) (331+26.1 TO 331+37.6)	29	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings.
119	4-FT WATERWAY: (339+20.8 TO 340+28.0)	115	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-06		Excavate and install 4-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	SODA ST ALLEY ALIGNMENT STA 390+50 TO STA 393+39							

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120	APWA C&G TYPE G: (391+37 TO 391+61.9)	25	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install APWA C&G TYPE G Curb & Gutter. Blend surface grading into Type G Curb & Gutter. Ditch subgrade excavation and haulage of cut material from STA 390+50.2 TO STA 392+97.2 to occur as part of remediation work item #15
	VCUP ZONE 3 (ROAD GRADING)							
	ARGENTINE ST ALIGNMENT STA 315+41.0 TO STA 330+10							
121	ALLEY GRADING (315+41.4 TO 316+68.8)	127	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-02	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel.
122	ALLEY GRADING (317+35.5 TO 322+43.6)	510	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-01A		Grade alley to provide 2% min slope to alley and provide roadside channel.
123	ROAD GRADING (323+31.2 TO 323+82.9)	52	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-08		Grade road per plan specifications. Ditch subgrade excavation and haulage of cut material from STA 322+90.2 TO STA 323+33.9 to occur as part of remediation work item #16
124	ALLEY GRADING (324+47.7 TO 330+03.9)	556	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-09		Grade alley to provide 2% min slope to alley and provide roadside channel. Ditch subgrade excavation and haulage of cut material from STA 322+90.2 TO STA 323+33.9 to occur as part of remediation work item #16
	S RIVER TO PICKER ALIGNMENT STA 330+00 TO STA 346+00							
125	ROAD GRADING (336+81.2 TO 338+69.5) (338+89.1 TO 340+41.1)	340	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade road per plan specifications.
	S HANCOCK ST TO SODA ALIGNMENT STA 360+00 TO STA 366+75							
126	ROAD GRADING (363+33.8 TO 366+70.7)	337	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-06 RD3-03	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade road per plan specifications.
	SODA ST ALLEY ALIGNMENT STA 390+50 TO STA 393+39							
127	ALLEY GRADING (390+67.2 TO 393+11.4)	244	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel. Ditch subgrade excavation and haulage of cut material from STA 390+50.2 TO STA 392+97.2 to occur as part of remediation work item #15
128	APRON (392+97.5 TO 393+11.4)	14	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	At the end of the alley grading, transition the alley grading flowline into an apron with GW30V 6-in depth geoweb and 2-in D50 rock per DT.02 on Sheet DT-04.
	SODA ST & HANCOCK ST CULVERT ALIGNMENT STA 0+00 TO STA 1+14.5							
129	ROAD GRADING (1331+55.6 TO 1330+84.7)	71	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-05 DR3-206	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade road per plan specifications.
	VCUP ZONE 3 (RETENTION BASIN CONSTRUCTION)							

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	ZONE 3 PRO PATRIA RETENTION BASIN EXPANSION							
130	PRO PATRIA RETENTION BASIN EXPANSION	1	LS	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-204, DR3-205	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766	Clear and grub vegetation and excavate to the lines and grades of the Pro-Patria Retention Basin Expansion. Construct the west embankment according to plans and specifications. Connect the embankment to the Pro-Patria Retention Basin embankment (built by others) and into the cut slope adjacent to Picker Street. Construct a 5-ft. wide x 2-in. deep unlined outlet weir into the top of the embankment at the location shown on Sheet DR3-205.
131	5-FT WIDE x 20.5-FT LONG SLOPE SPILLWAY BELOW PICKER STREET OUTLET PIPE P03-06	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-204, DT-04	02075, 02373	Construct in the inside cut slope of the Pro-Patria Retention Basin Expansion a 5-ft. wide x 20.5-ft. long spillway at the location shown on Sheet DR3-204 and per details 04 & 05 on Sheet DT-04. Work includes excavating to the subgrade, installing an 8-oz. non-woven geotextile along the subgrade, and place D50=6-in loose riprap to the lines and grades.
	VCUP ZONE 3 (SEEDING)							
	DITCHES TYPE 1, TYPE 3, AND ALLEY/EMBANKMENT SEEDING							
132	SEEDING (1800 SQYD = 0.372 ACRES)	1,800	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR3-01A TO DR3-09	02922	Seed ditches using the Type B seed mix and fertilize as as soon as possible following QMC acceptance of completed soil cover areas according to the seeding schedule provided in Specification 02922 - Seeding. Install Type 2 ECB directly after seed and fertilizer applications (see next line item).
133	ECB REINFORCEMENT	1,800	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR3-01A TO DR3-09	02922	Hand Staple Temporary Erosion Control Blanket (ECB) along the wetted perimeter of ditches directly after seed and fertilizer application.
	ZONE 3 PRO PATRIA RETENTION BASIN EXPANSION SEEDING							
134	SEEDING (2890 SQYD = 0.598 ACRES)	2,890	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR3-06	02922	Seed basin using the Type A seed mix and fertilize as as soon as possible following QMC acceptance of completed soil cover areas according to the seeding schedule provided in Specification 02922 - Seeding.
	BREAK TO ZONE 4							
	VCUP ZONE 4 (DRAINAGE-DITCHES)							
	SILVERGLANCE WAY TO ACCESS ROAD ALIGNMENT STA 434+10 TO STA 437+13							
135	DITCH, TYPE 4 (434+10.7 TO 437+13.3)	303	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR4-03	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch to the revetment subgrade, and haul excess material to QMC designated screening area. Install 8-oz non-woven and geotextile and geoweb GW30V6 panels, and fill geoweb cells with 2-in D50 rock. Ditch subgrade excavation and haulage of cut material from STA 433+88.3 TO STA 437+07.7) to occur as part of remediation work item #17
	VCUP ZONE 4 (STRUCTURES AND PIPE CULVERTS)							
	SILVERGLANCE WAY TO ACCESS ROAD ALIGNMENT STA 434+10 TO STA 437+13							
136	CLEANOUT PIPE CULVERT: EXISTING SILVERGLANCE: (437+13.3)	53	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR4-03	01286, 01355, 01455, 01571, 01572, 01721	Clean out the inlet of the existing culvert. (The total length of pipe is provided)
	VCUP ZONE 4 (SEEDING)							
	DITCHES TYPE 1, TYPE 3, AND ALLEY/EMBANKMENT SEEDING							
137	SEEDING (40 SQYD = 0.0083 ACRES)	40	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR4-03	02922	Seed ditches using the Type B seed mix and fertilize as as soon as possible following QMC acceptance of completed soil cover areas according to the seeding schedule provided in Specification 02922 - Seeding. Install Type 2 ECB directly after seed and fertilizer applications (see next line item).
138	ECB REINFORCEMENT	40	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR4-03	02922	Hand Staple Temporary Erosion Control Blanket (ECB) along the wetted perimeter of ditches directly after seed and fertilizer application.

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	Road Remediation Subtotal	**$0.00**	
	Stormwater Subtotal	**$0.00**	
	Grand Total	**$0.00**	

Note 1) Total price includes all costs associated with this item, labor, wet equipment, materials, supervision, taxes, overhead, etc.

Note 2) A plus or minus value for described quantities should be included. Price applies to quantities + or – 20% of the quantity contained in the Compensation Schedule.

Definitions:

LS: Lump Sum
BCY: Bank Cubic Yard (Soil Insitu)
LCY: Loose Cubic Yard (Excavated Loose Material)
ECY: Embankment Cubic Yard (Compacted per Specifications)
AC: Acreage
SF: Square Foot
LF: Linear Foot
SQYD: Square Yard

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TOWN OF RICO VCUP & NON-VCUP STORMWATER CONTROL PLAN
2026 Construction Request for Proposal

Line No.[3]	Task	Estimated Quanity	Unit	Total Price[1,2]	Measurement of Payment	Applicable Drawings	Applicable Specifications	Scope of Work
	General Requirements (2026)							
1	Mobilization/Demobilization (2026)	1	LS	$0.00	Twenty-five percent of Mobilization/Demobilization may be invoiced at the beginning of the project. An additional 60% may be invoiced with subsequent invoices for payment of work completed. The remaining 15% amount will be paid on the final invoice.	NA	01285, 01286, 01355	Mobilize and demobilze all equipment, personnel, tools necessary to complete the Scope of Work. Include in Mobilization/Demobilization any other overhead cost not inlcuded in other line items. Mobilization/Demobilization may not exceed 15% of total contract price.
2	Stormwater Management Plan (SWMP)	1	LS	$0.00	A percentage of the lump sum cost for SWMP implementation may be invoiced each invoice period based on the invoice percentage in comparison to the total contracted amount.	NA	01286, 01355, 01571, 01572, 01741	This work will be performed as incidental work to drainage infrastructure construction activies.
	General Requirements (2027)							
3	Mobilization/Demobilization (2027)	1	LS	$0.00	Twenty-five percent of Mobilization/Demobilization may be invoiced at the beginning of the project. An additional 60% may be invoiced with subsequent invoices for payment of work completed. The remaining 15% amount will be paid on the final invoice.	NA	01285, 01286, 01355	Mobilize & demobilize all equipment, personnel, tools, and seed necessary to complete seeding requirements specified in the Work Plan.
4	Stormwater Management Plan (SWMP)	1	LS	$0.00	A percentage of the lump sum cost for SWMP implementation may be invoiced each invoice period based on the invoice percentage in comparison to the total contracted amount.	NA	01286, 01355, 01571, 01572, 01741	This work will be performed as incidental work to drainage infrastructure construction activies.
	ZONE 1 (DRAINAGE-DITCHES)							
	E WEBSTER WAY ALIGNMENT STA 185+00 TO STA 187+87							
5	DITCH, TYPE 4 (185+24.2 TO 187+86.6)	262.4	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-04A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	GARFIELD TO SODA ST CULVERT ALIGNMENT STA 0+00 TO STA 2+44.02							
6	DITCH, TYPE 6 (0+00 TO 1+93.08)	193	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A DR1-203 RD1-02	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix.
	E SODA ST ALIGNMENT STA 1100+00 TO STA 1108+76 (NORTH SIDE)							
7	DITCH, TYPE 2 (1100+34.1 TO 1101+08.9) (1101+24.6 TO 1101+42.2) (1101+58.6 TO 1102+40.8) (1103+23.1 TO 1104+11.3) (1104+57.0 TO 1105+46.2) (1105+89.3 TO 1106+72.0)	435	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A DR1-07D RD1-02 DR1-08 DR1-10	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	SODA ST. OUTLET PIPE NETWORK ALIGNMENT STA 0+00 TO STA 1+91.44 (NORTH SIDE)							

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8	DITCH, TYPE 2 (0+98.94 TO 1+54.46)	56	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-211 DR1-10	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	E HINKLEY DRIVE ALIGNMENT STA 100+00 TO STA 108+30							
9	DITCH, TYPE 4 (100+29.0 TO 101+16.2) 101+34.7 TO 101+86.9) (102+14.3 TO 102+80.7) (103+11.2 TO 104+10.8)	305.4	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A DR1-08 DR1-10	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	E SODA ST ALIGNMENT STA 1103+00 TO STA 1108+76 (SOUTH SIDE)							
10	DITCH, TYPE 4 (1105+96.0 TO 1108+31.5)	235.5	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-09 DR1-10	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	ZONE 1 (STRUCTURES AND PIPE CULVERTS)							
	GARFIELD TO SODA ST CULVERT ALIGNMENT STA 0+00 TO STA 2+44.02							
11	**PIPE CULVERTS** **P01-08 (1+93.1 TO 2+30.6)**	36	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A DR1-203 RD1-02	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
12	CONCRETE CATCH BASIN (36X24): CB01-07: (1+93.08) RIM TO SUMP H=4.0'	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A DR1-203 RD1-02	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
	SODA ST. OUTLET PIPE NETWORK ALIGNMENT STA 0+00 TO STA 1+91.44 (NORTH SIDE)							
13	PIPE CULVERTS (15-IN) P01-27(0+07.5 TO 0+71.6) P01-28(0+71.6 TO 0+98.94) P01-29(1+54.46 TO ?CB01-19)	121	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-10 DR1-211	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
14	CONCRETE CATCH BASIN (36X24): CB01-20: (0+71.6) RIM TO SUMP H=3.5'	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-10 DR1-211	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
	HINKLEY DRIVE PIPE NETWORK ALIGNMENT STA 0+00 TO STA 4+15							

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15	PIPE CULVERTS P01-18 15-IN (0+02 TO 0+81.05) P01-19 15-IN (0+81.05 TO 1+30.35) P01-20 15-IN (1+30.35 TO 1+99.03) P01-21 15-IN (1+99.03 TO 2+77.60) P01-22 15-IN (2+77.60 TO 3+53.65) P01-23 18-IN (107+68.6 TO 108+28.0)	397	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-10 DR1-209 DR1-210	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
16	CONCRETE CATCH BASIN (36X24): CB01-14: (0+02) RIM TO SUMP H=5.0' CB01-15: (0+81.05) RIM TO SUMP H=4.0' CB01-16: (1+30.35) RIM TO SUMP H=4.0' CB01-17: (1+99.03) RIM TO SUMP H=3.5' CB01-18: (2+77.60) RIM TO SUMP H=4.0'	5	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-10 DR1-209 DR1-210	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
17	CONCRETE CATCH BASIN (36X36): CB01-19: (3+53.65) RIM TO SUMP H=4.5'	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-10 DR-210		Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
	YELLOWMAN TO SHORT CULVERT ALIGNMENT STA 0+00 TO STA 1+13.31							
18	PIPE CULVERTS P01-13(0+01.57 TO 1+11.80)	109	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
19	CONCRETE CATCH BASIN (36X24): CB01-09: (0+01.57) RIM TO SUMP H=5.0'	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
	SHORT ST PIPE NETWORK ALIGNMENT STA 0+01 TO STA 3+29.67							
20	PIPE CULVERTS P01-14(0+02.33 TO 0+59.84) P01-15(0+59.84 TO 1+25.02) P01-16(1+25.02 TO 2+92.01) P01-17(2+92.01 TO 3+20.51)	309	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-08 DR1-208	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
21	CONCRETE CATCH BASIN (36X24): CB01-10: (0+02.33) RIM TO SUMP H=3.5' CB01-11: (0+59.84) RIM TO SUMP H=5.0' CB01-12: (1+25.02) RIM TO SUMP H=5.5' CB01-13: (2+92.01) RIM TO SUMP H=4.0'	4	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-10 DR1-208	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.

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	ZONE 1 (CONCRETE FLATWORK)							
	N GARFIELD ST ALIGNMENT STA 162+75 TO STA 166+60							
22	4-FT WATERWAY (164+92.2 TO 165+79.3)	87	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 4-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	GARFIELD ALLEY ALIGNMENT STA 150+00 TO STA 153+00							
23	APWA C&G TYPE G (151+60 TO 151+75.9)	16	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install APWA C&G TYPE G Curb & Gutter. Blend surface grading into Type G Curb & Gutter.
	E SODA ST ALIGNMENT STA 1100+00 TO STA 1108+76 (NORTH SIDE)							
24	6-FT WATERWAY (1101+08.9 TO 1101+24.6) (1101+42.2 TO 1101+58.6) (1102+40.8 TO 1103+23.1) (1104+11.3 TO 1104+57.0) (1105+46.2 TO 1105+89.3)	205	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A DR1-07D DR1-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	E HINKLEY DRIVE ALIGNMENT STA 100+75 TO STA 103+25							
25	4-FT WATERWAY (101+16.2 TO 101+34.7) (101+86.9 TO 102+14.3) (102+80.7 TO 103+11.2)	76	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 4-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	N YELLOWMAN AVE ALIGNMENT STA 120+00 TO STA 124+37							
26	APWA C&G TYPE G (120+84.0 TO 121+02.0) (122+68.3 TO 122+82.9)	33	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install APWA C&G TYPE G Curb & Gutter. Blend surface grading into Type G Curb & Gutter.
	N SHORT ST ALIGNMENT STA 110+00 TO STA 114+27							
27	APWA C&G TYPE G 111+44.4 TO 111+79.9) (112+64.4 TO 112+82.3) (113+18.4 TO 113+38.4) (113+72.7 TO 113+90.2)	91	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install APWA C&G TYPE G Curb & Gutter. Blend surface grading into Type G Curb & Gutter.
	E SODA ST ALIGNMENT STA 1100+00 TO STA 1108+76 (SOUTH SIDE)							
28	APWA C&G TYPE G (1103+68.1 TO 1103+87.7) (1104+25.6 TO 1104+39.4) (1104+89.3 TO 1105+09.3) (1105+70.7 TO 1105+86.8)	72	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-09 DR1-10	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install APWA C&G TYPE G Curb & Gutter. Blend surface grading into Type G Curb & Gutter.
	ZONE 1 (ROAD GRADING)							

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	N GARFIELD ST ALIGNMENT STA 162+00 TO STA 166+75							
29	ALLEY GRADING (162+63.5 TO 165+09.3) (165+71.8 TO 166+57.6)	453	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A RD1-02 DR1-203	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel.
	GARFIELD ALLEY ALIGNMENT STA 150+00 TO STA 153+00							
30	ALLEY GRADING (150+17.8 TO 153+00.0)	282	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel.
	N YELLOWMAN AVE ALIGNMENT STA 120+00 TO STA 124+37							
31	ALLEY GRADING (120+65.6 TO 124+23.4)	360	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel.
	N SHORT ST ALIGNMENT STA 110+00 TO STA 114+27							
32	ALLEY GRADING (110+12.0 114+06.4)	394	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel.
	E SODA ST ALIGNMENT STA 1100+00 TO STA 1108+76 (SOUTH SIDE)							
33	ALLEY STYLE GRADING (1100+00.3 TO 1102+13.4) (1103+18.3 TO 1106+26.3)	521	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR1-07A DR1-08 DR1-09 DR1-10	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel.
	ZONE 1 (SEEDING)							
	DITCHES TYPE 1, TYPE 3, AND ALLEY/EMBANKMENT SEEDING (BLUE)							
34	SEEDING (160 SQYD = 0.034 ACRES)	160	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR1-01 TO DR1-10	02922	Seed ditches using the Type B seed mix and fertilize as as soon as possible following QMC acceptance of completed soil cover areas according to the seeding schedule provided in Specification 02922 - Seeding. Install Type 2 ECB directly after seed and fertilizer applications (see next line item).
35	ECB REINFORCEMENT	160	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR1-01 TO DR1-10	02922	Hand Staple Temporary Erosion Control Blanket (ECB) along the wetted perimeter of ditches directly after seed and fertilizer application.
	DITCHES TYPE 1, TYPE 3, AND ALLEY/EMBANKMENT SEEDING (TEAL)							
36	SEEDING (90 SQYD = 0.019 ACRES)	90	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR1-01 TO DR1-10	02922	Seed ditches using the Type B seed mix and fertilize as as soon as possible following QMC acceptance of completed soil cover areas according to the seeding schedule provided in Specification 02922 - Seeding. Install Type 2 ECB directly after seed and fertilizer applications (see next line item).
37	ECB REINFORCEMENT	90	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR1-01 TO DR1-10	02922	Hand Staple Temporary ECB Reinforcement Mat (TRM) around wetted perimeter of ditches.
	BREAK TO ZONE 2							
	ZONE 2 (DRAINAGE-DITCHES)							
	E MANTZ AVE ALIGNMENT STA 1220+00 TO STA 1230+27 (NORTH)							

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38	DITCH, TYPE 4 (1221+31.0 TO 1222+16.8)	86	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
39	DITCH, TYPE 2 (1222+33.7 TO 1222+87.0) (1223+00.7 TO 1224+17.5) (1224+51.6 TO 1225+66.6) (1225+86.6 TO 1226+86.5) (1227+46.5 TO 1228+36.6) (1229+14.7 TO 1229+64.5)	525	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-01A DR2-02A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	CARTER WAY ALIGNMENT STA 281+00 TO STA 285+50 (SOUTH)							
40	**RESTORE FLOWLINE OF EXITING DROADSIDE DITCH** **(282+22.0 TO 282+93.5)** **(283+36.9 TO 284+19.4)** **(284+98.6 TO 285+11.5)**	167	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-04	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix.
	E MANTZ AVE ALIGNMENT STA 1220+00 TO STA 1230+27 (SOUTH)							
41	DITCH, TYPE 4 (1223+05.2 TO 1224+19.1) (1224+69.2 TO 1225+66.9) (1225+97.5 TO 1226+96.1) (1227+48.3 TO 1228+39.8) (1228+85.9 TO 1229+64.1)	493	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-04 DR2-05A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	E CAMPBELL ST ALIGNMENT STA 1214+00 TO STA 1217+00 (SOUTH)							
42	DITCH, TYPE 2 (1214+98.7 TO 1215+62.5) (1215+77.5 TO 1216+76.2)	162.5	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	S COMMERCIAL ST ALIGNMENT STA 238+25 TO STA 242+00							
43	DITCH, TYPE 2 (238+40.8 TO 238+70.7) (241+25.9 TO 241+55.3) Apron (241+55.3 TO 241+63.7)	89	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-02A DT-04	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock. Install riprap apron with GW30V 6-in depth geoweb and 2-in D50 rock per DT.02 on Sheet DT-04.
44	DITCH, TYPE 1 (238+70.7 TO 241+25.9)	255.2	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-05A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix.
	S COMMERCIAL ST ALIGNMENT STA 225+00 TO STA 232+50							
45	DITCH, TYPE 4 (231+00.3 TO 232+35.4	135.1	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	ZONE 2 (STRUCTURES AND PIPE CULVERTS)							
	CARTER WAY ALIGNMENT STA 281+00 TO STA 287+75							

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46	CLEAN OUT PIPE CULVERTS EXISTING CARTER WAY 16in (282+01 TO 282+22) CARTER WAY 2 12IN CULVERT (282+93.5 TO 283+36.9) CARTER WAY 3 12IN CULVERT (284+19.4 TO 284+98.7)	145	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-04 DR2-01A	01286, 01355, 01455, 01571, 01572, 01721	Clean out existing culvert and restore existing ditch flowlines to match the pipe culvert inverts.
47	CLEAN OUT PIPE CULVERT EXISTING CARTER WAY: (285+11.5 TO 287+49.2)	238	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR1-01A	01286, 01355, 01455, 01571, 01572, 01721	Contrator to clean out the inlet and outlet of the pipe culvert and inspect the pipe to determine if the pipe requires additional cleanout. Prevent all cleanout material from entering Silver Creek per SWMP documents. (Total length of pipe is provided)
	E MANTZ AVE ALIGNMENT STA 1220+00 TO STA 1230+27 (SOUTH)							
48	PIPE CULVERTS P02-06:(1224+19.1 TO 1224+69.2) P02-07:(1228+39.8 TO 1228+49.0) P02-08:(1228+49.0 TO 1228+86.3) P02-09:(1228+86.3 TO 1229+07.6)	117	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-04 DR2-05A DR2-05C DR2-203	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
49	CLEAN OUT PIPE CULVERTS EXISTING MANTZ-ALLEY-2 12in (1225+66.9 TO 1225+97.5) EXISTING COMMERCIAL ST 12in (1226+96.1 TO 1227+48.3)	83	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-05A DR2-05B	01286, 01355, 01455, 01571, 01572, 01721	Clean out existing culvert and restore existing ditch flowlines to match the pipe culvert inverts.
50	CONCRETE CATCH BASIN (36X24): CB02-04: (1228+49.1) RIM TO SUMP H=4.0' CB02-05: (1228+86.3) RIM TO SUMP H=3.5'	2	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-05A DR2-05C DR2-203	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
	MANTZ TO GLASGOW PIPE NETWORK STA 0+00 TO STA 0+90							
51	PIPE CULVERTS P02-11: (0+02 TO 0+42.46) P02-12: (0+42.46 TO 0+61.85) P02-13: (0+61.85 TO 0+83.0)	74	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-204 DR2-02A DR-05A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.
52	CONCRET CATCH BASIN (36X36) CB02-06:(0+02) RIM TO SUMP H=4.0' CB02-07: (0+42.46) RIM TO SUMP H=4.0' CB02-08: (0+61.85) RIM TO SUMP H=4.5'	3	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-204 DR2-02A DR-05A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
	ALLEY 1 TO GLASGOW CULVERT ALIGNMENT STA 0+00 TO STA 1+38							
53	PIPE CULVERTS P02-03:(0+15.28 TO 1+34.89)	120	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-06 DR2-201	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, place pipe culvert, and place backfill over culverts.

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54	CONCRETE CATCH BASIN (36X24): CB02-03: (0+15.28) RIM TO SUMP H=4.0'	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
	E CAMPBELL CULVERT ALIGNMENT STA 0+00 TO STA 1+02 (SOUTH)							
55	PIPE CULVERTS P02-01:(0+07.12 TO 0+45.71) P02-02:(0+45.71 TO 0+97.8)	87	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-06 DR2-202	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, installation of pipe culvert, and placement of backfill over culverts.
56	CONCRETE CATCH BASIN (48X48): CB02-01: (0+07.12) RIM TO SUMP H=3.5' CB02-02: (0+45.71) RIM TO SUMP H=4.0'	2	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-06 DR2-202	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
	ZONE 2 (CONCRETE FLATWORK)							
	E MANTZ AVE ALIGNMENT STA 1220+00 TO STA 1230+27 (NORTH)							
57	4-FT WATERWAY (1222+16.8 TO 1222+40.9) (NORTH SIDE)	33	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 4-ft wide waterway. Blend surface grading into waterway as shown on drawings.
58	6-FT WATERWAY (1222+87.0 TO 1223+00.7) (1224+17.5 TO 1224+51.6) (1225+66.6 TO 1225+86.6) (1226+86.5 TO 1227+46.5) (1228+36.6 TO 1229+14.7)	206	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-01A DR2-02A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	S COMMERCIAL ST ALIGNMENT STA 226+50 TO STA 232+50							
59	APWA C&G TYPE G (226+56.9 TO 226+89.7) (228+62.9 TO 228+83.0) (230+69.8 TO 231+00.3)	83	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install APWA C&G TYPE G Curb & Gutter. Blend surface grading into Type G Curb & Gutter.
	ALLEY WAY 1 ALIGNMENT STA 200+00 TO STA 205+25							
60	4-FT WATERWAY (202+42.6 TO 202+79.0)	36	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 4-ft wide waterway. Blend surface grading into waterway as shown on drawings.

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61	APWA C&G TYPE G (203+69.6 TO 204+51.0)	82	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install APWA C&G TYPE G Curb & Gutter. Blend surface grading into Type G Curb & Gutter.
	E CAMPBELL ST ALIGNMENT STA 1214+00 TO STA 1217+00 (SOUTH)							
62	6-FT WATERWAY (1215+62.5 TO 1215+77.5)	15	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	ZONE 2 (ROAD GRADING)							
	CARTER WAY ALIGNMENT STA 285+50 TO STA 287+75							
63	ALLEY GRADING (285+76.2 TO 287+43.8)	168	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel.
64	RIPRAP APRON (287+43.8 TO 287+55.7)	12	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-01A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	At the end of the alley grading, transition the alley grading flowline into an apron with GW30V 6-in depth geoweb and 2-in D50 rock per DT.02 on Sheet DT-04.
	S COMMERCIAL ST ALIGNMENT STA 226+50 TO STA 232+50							
65	ALLEY GRADING (226+56.4 TO 231+09.0)	453	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel.
	ALLEY WAY 1 ALIGNMENT STA 211+00 TO STA 215+90							
66	ALLEY GRADING (211+22.2 TO 215+61.3)	440	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-02A	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel.
67	RIPRAP APRON (215+61.3 TO 215+75.5)	15	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-02A DT-04	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	At the end of the alley grading, transition the alley grading flowline into an apron with GW30V 6-in depth geoweb and 2-in D50 rock per DT.02 on Sheet DT-04.
	ALLEY WAY 1 ALIGNMENT STA 200+00 TO STA 205+20.0							
68	ALLEY GRADING (200+99.2 TO 205+06.2)	407	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR2-06	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel.
	ZONE 2 (SEEDING)							
	DITCHES TYPE 1, TYPE 3, AND ALLEY/EMBANKMENT SEEDING (BLUE)							

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69	SEEDING (200 SQYD = 0.042 ACRES)	200	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR2-01A TO DR2-06	02922	Seed ditches using the Type B seed mix and fertilize as as soon as possible following QMC acceptance of completed soil cover areas according to the seeding schedule provided in Specification 02922 - Seeding. Install Type 2 ECB directly after seed and fertilizer applications (see next line item).
70	ECB REINFORCEMENT	200	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR2-01A TO DR2-06	02922	Hand Staple Temporary Erosion Control Blanket (ECB) along the wetted perimeter of ditches directly after seed and fertilizer application.
	DITCHES TYPE 1, TYPE 3, AND ALLEY/EMBANKMENT SEEDING (TEAL)							
71	SEEDING (620 SQYD = 0.129 ACRES)	620	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR2-01A TO DR2-06	02922	Seed ditches using the Type B seed mix and fertilize as as soon as possible following QMC acceptance of completed soil cover areas according to the seeding schedule provided in Specification 02922 - Seeding. Install Type 2 ECB directly after seed and fertilizer applications (see next line item).
72	ECB REINFORCEMENT	620	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR2-01A TO DR2-06	02922	Hand Staple Temporary Erosion Control Blanket (ECB) along the wetted perimeter of ditches directly after seed and fertilizer application.
	BREAK TO ZONE 3							
	ZONE 3 (DRAINAGE-DITCHES)							
	W KING ST. ALIGNMENT STA 1300+50 TO STA 1306+00							
73	DITCH, TYPE 3 (1301+65.3 TO 1302+84.0) (1302+84.0 TO 1304+25.7) (1304+45.7 TO 1305+60.7)	385	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-03	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix.
	HANCOCK ST TO SODA ALIGNMENT STA 368+00 TO STA 380+00							
74	DITCH, TYPE 3 (372+33.9 TO 371+48.9) (307+75.5 TO 370+38.1) (370+18.1 TO 368+10.8) Apron (368+07.5 TO 368+10.8)	338	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-05	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Install riprap apron with GW30V 6-in depth geoweb and 2-in D50 rock per DT.02 on Sheet DT-04. Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix.
75	DITCH, TYPE 4 (370+75.5 TO 371+24.0)	49	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-05	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	HANCOCK SODA TO RIVER ALIGNMENT STA 380+00 TO STA 383+41							
76	DITCH, TYPE 1 (380+38.2 TO 381+52.5) (381+63.2 TO 382+98.5) Apron (382+98.5 TO 383+04.5)	256	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix. Install riprap apron with GW30V 6-in depth geoweb and 2-in D50 rock per DT.02 on Sheet DT-04.
	RIVER STREET ALIGNMENT STA 354+00 TO STA 361+00							
77	DITCH, TYPE 3 (355+32.0 TO 355+94.3) (355+94.3 TO 356+05.0) (359+34.0 TO 360+77.5) Apron (360+77.5 8-ft long)	240	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-08 DR3-09	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approved seed mix. Install riprap apron with GW30V 6-in depth geoweb and 2-in D50 rock per DT.02 on Sheet DT-04.
	ZONE 3 (STRUCTURES AND PIPE CULVERTS)							
	ARGENTINE STREET CULVERT ALIGNMENT STA 0+00 TO STA 2+40							

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78	PIPE CULVERTS P03-05:(0+12.8 TO 1+20.8)	108	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-04 DR3-203	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, installation of pipe culvert, and placement of backfill over culverts.
79	CONCRETE CATCH BASIN (36X24): CB03-05: (0+12.8) RIM TO SUMP H= 4.0'	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-04 DR3-203	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
	W KING ST. CULVERT ALIGNMENT STA 0+00 TO STA 1+17							
80	**REMOVE PIPE CULVERT:** **(0+08.94 TO 0+44.14)**	36	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-03 DR3-202	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02231	Remove existing outlet culvert. Backfilling of existing 8' plastic pipe to be included with the installation of Pipe P03-04.
81	PIPE CULVERTS P03-04:(0+08.94 TO 0+44.14)	36	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-03 DR3-202	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, installation of pipe culvert, and placement of backfill over culverts.
82	RIPRAP PLACEMENT BELOW KING ST OUTLET PIPE CULVERT	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-03 DR3-202	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	After pipe installation inspect the existing riprap around the existing Glasgow Ave Stormdrain outlet Pipe Culvert and repair as needed by placing 12-in to 18-in riprap below outlet. (APPROXIMATED 5-FT x 5-FT DIMENSIONS)
83	CONCRETE CATCH BASIN (36x24): CB03-04: (0+08.94) RIM TO SUMP H= 4.0'	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-03 DR3-202	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
	HANCOCK ST TO SODA ALIGNMENT STA 368+00 TO STA 380+00							
84	CLEAN OUT PIPE CULVERTS EXISTING HANCOCK 1: (371+24.0 TO 371+48.9) EXISTING HANCOCK 2: (370+18.1 TO 370+38.1)	45	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-05	01286, 01355, 01455, 01571, 01572, 01721	Clean out existing culvert and restore existing ditch flowlines to match the pipe culvert inverts.
	ZONE 3 ARGENTINE STREET DOWN CHANNEL							
	ARGENTINE STREET CULVERT ALIGNMENT STA 00+00 TO STA 240+00							
85	RIPRAP SPILLWAY/DOWN CHANNEL (1+20.7 TO 2+27.5)	116	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-04 DR3-203	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Prior to installing the Argentine Street Culvert (Pipe P03-05), construct the Argentine Street Down Channel by excavating to the lines and grade from the top and bottom of the slopes, anchor 8-0z non-woven geotextile fabric in the top anchor trench and install the fabric down the slope to where the fabric can be installed from the bottom of slope. Install loose riprap per Specification 02373, and sheets DR3-203, and details 02 & 03 on sheet DT-03.
	ZONE 3 (CONCRETE FLATWORK)							
	W KING ST. ALIGNMENT STA 1300+50 TO STA 1306+00							

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86	4-FT WATERWAY (1304+25.7 TO 1304+45.7)	20	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-03	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 4-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	ARGENTINE ST ALIGNMENT STA 300+00 TO STA 317+00							
87	4-FT WATERWAY (301+03.5 TO 303+08.2)	205	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-04	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 4-ft wide waterway. Blend surface grading into waterway as shown on drawings.
88	APWA C&G TYPE G (303+73.5 TO 304+37.0) (305+08.3 TO 305+39.6)	100	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-04		Excavate and install APWA C&G TYPE G Curb & Gutter. Blend surface grading into Type G Curb & Gutter.
89	APWA C&G TYPE G (308+13.6 TO 308+53.1) (311+07.8 TO 311+35.0) (312+27.7 TO 315+24.9)	364	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-02 DR3-03		Excavate and install APWA C&G TYPE G Curb & Gutter. Blend surface grading into Type G Curb & Gutter.
	N HANCOCK ST ALIGNMENT STA 380+00 TO STA 383+41							
90	6-FT WATERWAY: (381+52.5 TO 381+63.2)	11	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	RIVER STREET ALIGNMENT STA 354+00 TO STA 361+00							
91	APWA C&G TYPE G (357+50.1 TO 357+79.5) (357+89.4 TO 358+09.3) (358+39.3 TO 359+09.1)	120	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-09	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install APWA C&G TYPE G Curb & Gutter. Blend surface grading into Type G Curb & Gutter.
92	6-FT WATERWAY (359+18.9 TO 359+34.0)	15	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-09		Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	HANCOCK SODA TO RIVER ALIGNMENT STA 368+00 TO STA 380+00							
93	6-FT WATERWAY (381+52.5 TO 381+63.2)	12	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-08	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	ZONE 3 (ROAD GRADING)							
	ARGENTINE STREET ALIGNMENT STA 300+00 TO STA 317+00							
94	ALLEY GRADING (301+03.5 TO 305+39.6)	436	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-04	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel.
95	ALLEY GRADING (305+75.2 TO 311+75) (311+75 TO 315+41.4)	967	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-02 DR3-03		Grade alley to provide 2% min slope to alley and provide roadside channel.
	RIVER STREET ALIGNMENT STA 354+00 TO STA 361+00							
96	ALLEY GRADING (354+28.4 TO 355+32.0) (356+40.2 TO 359+37.4)	401	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR3-08 DR3-09	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel.

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	ZONE 3 (SEEDING)							
	DITCHES TYPE 1, TYPE 3, AND ALLEY/EMBANKMENT SEEDING (BLUE)							
97	SEEDING (580 SQYD = 0.12 ACRES)	580	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR3-01A TO DR3-09	02922	Seed ditches using the Type B seed mix and fertilize as as soon as possible following QMC acceptance of completed soil cover areas according to the seeding schedule provided in Specification 02922 - Seeding. Install Type 2 ECB directly after seed and fertilizer applications (see next line item).
98	ECB REINFORCEMENT	580	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR3-01A TO DR3-09	02922	Hand Staple Temporary Erosion Control Blanket (ECB) along the wetted perimeter of ditches directly after seed and fertilizer application.
	DITCHES TYPE 1, TYPE 3, AND ALLEY/EMBANKMENT SEEDING (TEAL)							
99	SEEDING (790 SQYD = 0.164 ACRES)	790	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR3-01A TO DR3-09	02922	Seed ditches using the Type B seed mix and fertilize as as soon as possible following QMC acceptance of completed soil cover areas according to the seeding schedule provided in Specification 02922 - Seeding. Install Type 2 ECB directly after seed and fertilizer applications (see next line item).
100	ECB REINFORCEMENT	790	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR3-01A TO DR3-09	02922	Hand Staple Temporary Erosion Control Blanket (ECB) along the wetted perimeter of ditches directly after seed and fertilizer application.
			Stormwater Grand Total	**$0.00**				

Note 1) Total price inlcudes all costs associated with this item, labor, wet equipment, materials, supervision, taxes, overhead, etc.
Note 2) A plus or minus value for described quantities should be included. Price applies to quantities + or – 20% of the quantity contained in the Compensation Schedule.
Note 3) Standard (non-cyan highlighted) rows indicate Non-VCUP Stormwater Managment System Components #1.
Rows Highlighted in cyan indicate Non-VCUP Stormwater Management System Components #2. See sheet G-05

Definitions:

LS: Lump Sum
BCY: Bank Cubic Yard (Soil Insitu)
LCY: Loose Cubic Yard (Excavated Loose Material)
ECY: Embankment Cubic Yard (Compacted per Specifications)
AC: Acreage
SF: Square Foot
LF: Linear Foot
SQYD: Square Yard

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TOWN OF RICO VCUP & NON-VCUP STORMWATER CONTROL PLAN
2026 Construction Request for Proposal

Line No.	Task	Estimated Quanity	Unit	Total Price[1,2]	Measurement of Payment	Applicable Drawings	Applicable Specifications	Scope of Work
	General Requirements (2026)							
1	Mobilization/Demobilization (2026)	1	LS	$0.00	Twenty-five percent of Mobilization/Demobilization may be invoiced at the beginning of the project. An additional 60% may be invoiced with subsequent invoices for payment of work completed. The remaining 15% amount will be paid on the final invoice.	NA	01285, 01286, 01355	Mobilize and demobilze all equipment, personnel, tools necessary to complete the Scope of Work. Include in Mobilization/Demobilization any other overhead cost not inlcuded in other line items. Mobilization/Demobilization may not exceed 15% of total contract price.
2	Stormwater Management Plan (SWMP)	1	LS	$0.00	A percentage of the lump sum cost for SWMP implementation may be invoiced each invoice period based on the invoice percentage in comparison to the total contracted amount.	NA	01286, 01355, 01571, 01572, 01741	This work will be performed as incidental work to drainage infrastructure construction activies.
	General Requirements (2027)							
3	Mobilization/Demobilization (2027)	1	LS	$0.00	Twenty-five percent of Mobilization/Demobilization may be invoiced at the beginning of the project. An additional 60% may be invoiced with subsequent invoices for payment of work completed. The remaining 15% amount will be paid on the final invoice.	NA	01285, 01286, 01355	Mobilize & demobilize all equipment, personnel, tools, and seed necessary to complete seeding requirements specified in the Work Plan.
4	Stormwater Management Plan (SWMP)	1	LS	$0.00	A percentage of the lump sum cost for SWMP implementation may be invoiced each invoice period based on the invoice percentage in comparison to the total contracted amount.	NA	01286, 01355, 01571, 01572, 01741	This work will be performed as incidental work to drainage infrastructure construction activies.
	ZONE 4 (DRAINAGE-DITCHES)							
	SILVERGLANCE TO GLASGOW ALIGNMENT STA 400+00 TO STA 405+82							
5	DITCH, TYPE 1 (400+00.6 TO 400+95.8) (403+97.6 TO 405+56.2, L= 95')	190.2	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR4-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approve seed mix.
6	DITCH, TYPE 2 (400+95.8 TO 405+59.3)	464.3	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR4-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	SILVERGLANCE TO CIRCLE ALIGNMENT STA 414+00 TO STA 424+00							
7	**DITCH TYPE 3** **(415+13.2 TO 416+95.4)**	182.2	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR4-02	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approve seed mix.

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8	DITCH, TYPE 4 (416+95.4 TO 419+79.3) (420+15.6 TO 421+35.9) (421+63.7 TO 423+12.4)	552.9	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR4-02	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	SILVERGLANCE WAY TO ACCESS ROAD ALIGNMENT STA 430+00 TO STA 437+13							
9	**DITCH TYPE 3** **(432+00.0 TO 432+73.0)**	73	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR4-03	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approve seed mix.
10	DITCH, TYPE 4 (432+73.0 TO 434+10.7)	110	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR4-03	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	ZONE 4 (STRUCTURES AND PIPE CULVERTS)							
	SILVERGLANCE TO GLASGOW ALIGNMENT STA 400+00 TO STA 405+82							
11	CLEAN OUT PIPE CULVERT: EXISTING SILVERGLANCE (405+59.3, 27.3 RT TO 405+56.2, 31.7 LT)	60	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR4-01	01286, 01355, 01455, 01571, 01572, 01721	Clean out existing culvert and restore existing ditch flowlines to match the pipe culvert inverts.
	SILVERGLANCE TO CIRCLE ALIGNMENT STA 414+00 TO STA 424+00							
12	PIPE CULVERTS P04-01: (419+79.3 TO 420+15.6) P04-02: (421+35.9 TO 421+63.7) P04-03: (423+48.2 TO 423+75.9)	105	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.		01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, installation of pipe culvert, and placement of backfill over culverts.
13	CLEAN OUT PIPE CULVERT: EXISTING 36" CMP CROSSING SILVERGLANCE WAY (423+77.0)	120	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR4-02	01286, 01355, 01455, 01571, 01572, 01721	Clean out existing culvert inlet and inspect the outlet and the inside of the pipe to determine if additional cleaning is required.
	SILVERGLANCE WAY TO ACCESS ROAD ALIGNMENT STA 430+00 TO STA 437+13							
14	CLEAN OUT PIPE CULVERT EXISTING 36" CMP CROSSING SILVERGLANCE WAY (437+13)	120	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR4-02	01286, 01355, 01455, 01571, 01572, 01721	Clean out existing culvert inlet and inspect the outlet and the inside of the pipe to determine if additional cleaning is required.
	ZONE 4 (SEEDING)							
	DITCHES TYPE 1, TYPE 3, AND ALLEY/EMBANKMENT SEEDING							
15	SEEDING (360 SQYD = 0.075 ACRES)	360	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR4-01 TO DR4-03	02922	Seed ditches using the Type B seed mix and fertilize as as soon as possible following QMC acceptance of completed soil cover areas according to the seeding schedule provided in Specification 02922 - Seeding. Install Type 2 ECB directly after seed and fertilizer applications (see next line item).
16	ECB REINFORCEMENT	360	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR4-01 TO DR4-03	02922	Hand Staple Temporary Erosion Control Blanket (ECB) along the wetted perimeter of ditches directly after seed and fertilizer application.
	BREAK TO ZONE 5							
	ZONE 5 (DRAINAGE-DITCHES)							
	JONES MINE RD. ALIGNMENT STA 500+00 TO STA 503+00							

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17	**DITCH TYPE 2** **(500+19.1 TO 502+12.1)**	193	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR5-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	W EDER ST ALIGNMENT STA 510+00 TO STA 513+34							
18	**DITCH TYPE 2** **(510+61.1 TO 511+49.4)** **(511+75.9 TO 512+02.5)** **(512+15.0 TO 512+75.3)**	175.2	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR5-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	ZONE 5 (STRUCTURES AND PIPE CULVERTS)							
	S PICKER ST ALIGNMENT STA 510+00 TO STA 525+25							
19	PIPE CULVERTS: P05-01: (510+10.6 TO 510+61.1)	98	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR5-01 DR5-201	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, installation of pipe culvert, and placement of backfill over culverts.
	EDER ST & PICKER ST OUTLET CULVERT ALIGNMENT STA 0 TO STA 2+96.5							
20	PIPE CULVERTS: P05-02: (0+00 TO 0+29.49) P05-03: (0+29.49 TO 0+77.21) P05-04: (0+77.21 TO 1+19.92) P05-05: (1+19.92 TO 2+96.5)	289	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR5-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02610, 02633	Install culvert including excavation, installation of pipe culvert, and placement of backfill over culverts.
21	CONCRETE CATCH BASIN (36X24): CB05-01: (0+00.00) RIM TO SUMP H = 4.5' CB05-02: (0+29.49) RIM TO SUMP H = 4.5' CB05-03: (0+77.21) RIM TO SUMP H = 3.5' CB05-04: (1+19.92) RIM TO SUMP H = 6.0'	4	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR5-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02633, 02776, 03055, 03211, 03310, 03390	Install catch basin including excavation, installation of basin, connection of concrete pipe culverts, and backfill basin.
22	RIPRAP PLACEMENT BELOW PICKER STREET OUTLET PIPE CULVERT	10	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR5-201	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Install riprap apron with GW30V 6-in depth geoweb and 2-in D50 rock per DT.02 on Sheet DT-04.
	ZONE 5 (CONCRETE FLATWORK)							
	W EDER ST ALIGNMENT STA 510+00 TO STA 525+25							
23	6-FT WATERWAY: (511+49.4 TO 511+75.9) (512+02.5 TO 512+15.0)	39	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR5-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	ZONE 5 (SEEDING)							
	DITCHES TYPE 1, TYPE 3, AND ALLEY/EMBANKMENT SEEDING							

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24	HYDRAULIC SEEDING (100 SQYD = 0.021 ACRES)	100	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR5-01	02922	Seed ditches using the Type B seed mix and fertilize as as soon as possible following QMC acceptance of completed soil cover areas according to the seeding schedule provided in Specification 02922 - Seeding. Install Type 2 ECB directly after seed and fertilizer applications (see next line item).
25	ECB REINFORCEMENT	100	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR5-01	02922	Hand Staple Temporary Erosion Control Blanket (ECB) along the wetted perimeter of ditches directly after seed and fertilizer application.
	BREAK TO ZONE 6							
	ZONE 6 (DRAINAGE-DITCHES)							
	N PIEDMONT ST ALIGNMENT STA 600+00 TO STA 606+00							
26	**DITCH TYPE 1** **(601+40.2 TO 602+34.0)** **(603+18.4 TO 605+44.1)**	319.5	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR6-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approve seed mix.
27	**DITCH, TYPE 2** **(600+00.0 TO 601+12.9)** **(605+44.1 TO 605+68.7)**	137.5	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR6-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	ROAD 54.7 ALIGNMENT STA 610+00 TO STA 616+00							
28	**DITCH, TYPE 3** **(614+30.8 TO 615+41.7)**	121	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR6-02	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02922	Excavate the ditch as designed, haul excess material away, plant ditch with approve seed mix.
29	**DITCH, TYPE 4** **(615+41.7 TO 615+49.1)**	15	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR6-02	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02373	Excavate the ditch as designed, haul excess material away, line ditch with non-woven geotextile and geoweb, and fill with 2-in D50 rock.
	ZONE 6 (STRUCTURES AND PIPE CULVERTS)							
	ROAD 54.7 ALIGNMENT STA 610+00 TO STA 616+00							
30	CLEAN OUT PIPE CULVERT: EXISTING ROAD 54.7 24" CMP PIPE CULVERT	57	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR6-02	01286, 01355, 01455, 01571, 01572, 01721	Clean out existing culvert inlet and outlet of pipe, and inspect the inside of the pipe to determine if additional cleaning is required. Connect Road 54.7 Type 4 ditch flowline into the invert of the pipe culvert.
	ZONE 6 (CONCRETE FLATWORK)							
	N PIEDMONT ST ALIGNMENT STA 600+00 TO STA 606+00							
31	6-FT WATERWAY: (601+12.9 TO 601+40.2) (602+34.0 TO 603+18.4)	112	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR6-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721, 02766, 03211, 03310, 03390	Excavate and install 6-ft wide waterway. Blend surface grading into waterway as shown on drawings.
	ZONE 6 (ROAD GRADING)							
	N PIEDMONT ST ALIGNMENT STA 600+00 TO STA 606+00							

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32	ROAD GRADING: (601+70.4 TO 603+18.4)	150	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR6-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade road per plan specifications.
33	WATERBAR: (605+56.5)	1	EA	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR6-01	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade road and ditch per Detail 03 on Sheet DT-07 to intercept ditch water and re-direct off the side of the road.
	ROAD 54.7 ALIGNMENT STA 610+00 TO STA 616+00							
34	ALLEY GRADING: (610+54.2 TO 614+30.8)	377	LF	$0.00	This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted amount without prior written approval.	DR6-01 DR6-02	01286, 01355, 01455, 01571, 01572, 01721, 01741, 02056, 02231, 02721	Grade alley to provide 2% min slope to alley and provide roadside channel.
	ZONE 6 (SEEDING)							
	DITCHES TYPE 1, TYPE 3, AND ALLEY/EMBANKMENT SEEDING							
35	SEEDING (400 SQYD = 0.083 ACRES)	400	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR6-01 DR6-02	02922	Seed ditches using the Type B seed mix and fertilize as as soon as possible following QMC acceptance of completed soil cover areas according to the seeding schedule provided in Specification 02922 - Seeding. Install Type 2 ECB directly after seed and fertilizer applications (see next line item).
36	ECB REINFORCEMENT	400	SQYD	$0.00	This work will be performed on a Time and Materials (T&M) basis.	DR6-01 DR6-02	02922	Hand Staple Temporary Erosion Control Blanket (ECB) along the wetted perimeter of ditches directly after seed and fertilizer application.
	Stormwater Grand Total			**$0.00**				

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Note 1) Total price inlcudes all costs associated with this item, labor, wet equipment, materials, supervision, taxes, overhead, etc.

Note 2) A plus or minus value for described quantities should be included. Price applies to quantities + or – 20% of the quantity contained in the Compensation Schedule.

Definitions:

LS:	Lump Sum
BCY:	Bank Cubic Yard (Soil Insitu)
LCY:	Loose Cubic Yard (Excavated Loose Material)
ECY:	Embankment Cubic Yard (Compacted per Specifications)
AC:	Acreage
SF:	Square Foot
LF:	Linear Foot
SQYD:	Square Yard

PROPOSAL ATTACHMENTS

2.1 Safety Qualifications Questionnaire

2.2 Insurance Requirements

2.3 List of Proposed Subcontracts

2.4 Labor Rates for Changes and Extra Work

2.5 List of Exceptions, Alternates, or Deviations

2.6 Anticipated Work Schedule

2.7 Resume of Site Representative

2.8 Narrative Description

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PROPOSAL ATTACHMENT 2.1

CONTRACTOR PRE-CONTRACT/QUALIFICATION QUESTIONNAIRE

1. COMPANY DETAILS
Company Name & ABN:
Trading Name:
ADDRESS:
Telephone:
Nature of Business:
Contact Name/Title:
Mobile No:
Number of Employees:

2. INSURANCE & OWNERSHIP DETAILS	
2.1 Name of **Public and Product Liability** Insurer:	
2.1.1 Policy No:	2.1.2 Expiry Date:
2.1.3 Value of Cover: $	
2.2 Name of **Worker's Compensation** Insurer:	
2.2.1 Policy No:	2.2.2 Expiry Date:
2.2.3 Value of Cover: $	
2.3 Name of **Contractor's Plant** Insurer:	
2.3.1 Policy No:	2.3.2 Expiry Date:
2.3.3 Value of Cover: $	
2.4 Name of **Motor Vehicle** Insurer:	
2.4.1 Policy No:	2.4.2 Expiry Date:
2.4.3 Value of Cover: $	
2.5 Name of **Professional Indemnity** Insurer:	
2.5.1 Policy No:	2.5.2 Expiry Date:
2.5.3 Value of Cover: $	

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Please attach a copy of current policy documents – Attached Documents.
2.6 Has there been a change in ownership in your business within the last 3 years? Yes ☐ No ☐ (If YES, please provide details):

3. ACCIDENT EXPERIENCE			
3.1 Using your business' last 3 years of work related injury data, complete the following details:			
	3 Years Previous	2 Years Previous	1 Year Previous
a. Total number of Lost Time Injuries (LTI)			
b. Total employee hours worked			
c. Lost Time Injury Frequency Rate (LTIFR)			
3.2 (Calculation of LTIFR = No of LTIs x 200,000 / total hours worked)			
d. Total number of Reportable (medical cases, restricted duty cases and lost time cases			
(Calculation of TRIFR = No of Reportable accidents x 200,000 / total hours worked)			
e. Total number of lost time work days and restricted duty work days			
f. Accident Severity Rate			
(Calculation of Severity Rate = No of days lost plus restricted days x 200,000 / total hours worked)			
3.3 Has your business had any fatalities in the last 3 years? Yes ☐ No ☐			
Please attach a copy of investigation/s for the fatalities (3.3) including location, causes and corrective actions – Attached Documents.			

3.4 LEGISLATIVE FINES AND CITATIONS
3.4.1 Has your business had any fines assessed against it for safety and health issues during the past three years? Yes ☐ No ☐
Please attach details – Attached Documents.

4. HEALTH & SAFETY - ACCIDENT & INCIDENT REPORTING
4.1 Describe your health and safety accident/incident reporting and investigating procedure:

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Please attach a copy/s of report form/s – Attached Documents Schedule 4.
4.2 Describe the types of accidents/incidents that are investigated (e.g. Serious injury, near misses, hazards). Is the dollar cost recorded? Yes ☐ No ☐
5. HAZARD IDENTIFICATION
5.1 Describe your system for identifying and controlling hazards. Include, if part of your company's program such activities as inspection programs, employee observation programs, change management/design reviews, audit programs, etc.
5.2 Does your business have a documented system for recording regular inspections and maintenance of tools, machinery (e.g. Cranes, slings, vehicles etc.) and electrical equipment? Yes ☐ No ☐ If yes, please describe
Please attach a copy of procedures, checklists, forms etc. used to identify and correct hazards. – Attached Documents.

6. LINE MANAGEMENT TRAINING
6.1 Describe the orientation programs managers are required to complete prior to starting work.
6.2 Describe other safety related training required to be attended by all line managers if other than 6.1. Include a brief description of content (sentences), who is required to attend and length of time per subject.

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Please attach sample copies of either lesson plans, or transparencies used in the training. Documents.

7. RISK ASSESSMENTS
7.1 Does your organization have a formal risk assessment program, and if so briefly describe.
Please attach a copy of risk assessment procedures and a sample risk assessment – Attached Documents

8. SAFETY DEPARTMENT ORGANIZATION AND REPORTING RELATIONSHIPS	
Please attach a copy of your organizational safety structure chart – Attached Documents.	
8.1 List the individuals who manage/co-ordinate safety in your organization at the corporate or Sr. level:	
a. Name:	Title:
Qualifications/training requirements/reporting to:	
b. Name:	Title:
Qualifications/training requirements/reports to:	
c. Name:	Title:
Qualifications/training/reports to:	
d. Name:	Title:
Qualifications/training requirements/reports to:	
8.2 Who, by position title and name is being proposed to have **specific safety responsibilities** at the project being for which you are bidding? Note that Town of Rico has final approval over the person filling this position.	
a. Name:	Title:
Qualifications/training/experience/reports to:	

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8.3 Do your employees undergo a pre-employment medical? Yes ☐ No ☐
Please attach a copy of the policy and medical form – Attached Documents

9. DOCUMENTED SAFETY AND HEALTH PROGRAM			
9.1 DOES YOUR COMPANY HAVE FORMAL DOCUMENTED SAFETY PROGRAM A DOCUMENTED SAFETY AND HEALTH MANAGEMENT PROCEDURES WHICH ADDRESS THE FOLLOWING:			
Health & Safety – Policy Statements:	YES	NO	N/A
a. Company Policy Statement on Safety			
Health & Safety – Procedures:			
b. Program Commitment and Leadership by Management			
c. Risk Management			
d. Training Inductions, safety training, and Competency training requirements			
e. Safety Committees and Employee Communications.			
f. Safety Meetings			
g. Standard Tasks Procedures Preparation, Administration and Review			
h. Accident - Incident Investigation			
i. Emergency Response			
j. Inspections			
k. Corrective Action System			
l. Audits, Assessments and Monitoring program			
m. Contractor Selection and Management			
n. Change Management			
o. Employee Observation			
p. Medical Programs (pre placement, annual, and routine)			
q. Alcohol and Drug abuse			
r. Industrial Hygiene System			
s. Hazardous Materials & Chemicals Controls			
t. Energy Isolation			
u. Working Near overhead Power Lines			

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v. Vehicles and Mobile Equipment safety (including oversized loads)			
w. Hand and Portable Electric Tools			
x. Hot Work			
y. Confined Spaces			
z. Excavations and Trenches			
aa. Machine Guarding			
bb. Blasting Procedure			
cc. Road Safety & Traffic Safety including traffic violation procedures			
dd. Personnel Transportation Safety			
ee. Working at Heights			
ff. Compressed Gas Use			
gg. Working around Conveyor Belts			
hh. Cranes and Lifting Equipment			
ii. Scaffolds and Raised Platforms			
jj. Ladders and Stairways			
kk. Working in Electrical Storms			
ll. Others			

➧ ***Please attach a copy of the procedures which exists and you feel are applicable for this project. – Attached Documents***

10. PREVIOUS CONTRACT PERFORMANCE
10.1 Have you performed work for Town of Rico, Anderson Engineering, or Atlantic Richfield previously? Yes ☐ No ☐ If YES, please supply the date, location and job performed.
➧ ***Please attach details – Attached Documents.***

QUESTIONNAIRE COMPLETED BY:	
Name:	Signature:
Position:	Date:

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PROPOSAL ATTACHMENT 2.2

CERTIFICATES OF INSURANCE

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PROPOSAL ATTACHMENT 2.3

LIST OF PROPOSED SUBCONTRACTS

Contractor proposes to subcontract the following work. If no subcontract work is proposed the Contractor shall so state.

Description of work to be subcontracted, names of subcontractors and major material suppliers, names of supervision and value:

SUBCONTRACTOR/SUPPLIER	SUPERVISION	DESCRIPTION	VALUE

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PROPOSAL ATTACHMENT 2.4

LABOR RATES FOR CHANGES AND EXTRA WORK

Labor rates shall be for Contractor use on Changes and Extra Work where Lump Sum or Unit Prices do not apply. All-inclusive rates shall include direct payroll costs, payroll taxes and insurance, vacation allowance, overtime premium, and any other payroll additives required to be paid by Contractor by law or collective bargaining agreements, an allowance for tools and equipment with a new cost of five hundred dollars or less, an allowance for supplies, overhead, and supervision.

Overtime rates will apply to hours in excess of 40 hours per week.

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Classification	All Inclusive Rates	
	Straight Time	Overtime

Note: Prior to undertaking any changed or extra work, the Contractor and Owner shall first mutually agree on all hourly labor rates, equipment rates, crew size and equipment requirements.

PROPOSAL ATTACHMENT 2.5

LIST OF EXCEPTIONS, ALTERNATES, OR DEVIATIONS

Note below any exceptions to contract terms and conditions; any proposed alternates; or any deviations from drawings and specifications.

If none, note "None".

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PROPOSAL ATTACHMENT 2.6

ANTICIPATED WORK SCHEDULE

Include number of employees who will be working and duration. (Attach to this Page)

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PROPOSAL ATTACHMENT 2.7

RESUME OF SITE REPRESENTATIVE

(Attach to this Page)

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PROPOSAL ATTACHMENT 2.8

NARRATIVE DESCRIPTION

The Contractor shall provide a clear and concise narrative description of the overall strategy that the Contractor intends to use in performing and completing the Work, including the number of shifts per day, the number of hours per shift, and the number of days per week that the Contractor intends to operate and number of employees the Work will take.

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PART 3

SERVICE AGREEMENT

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PART 4

REMEDIATION OF UNPAVED ROAD SEGMENTS AND STORMWATER CONTROLS CONSTRUCTION

SCOPE of SERVICES

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PREPARED BY

ANDERSON ENGINEERING COMPANY INC.

2053 N. HILLCREST ROAD

SARATOGA SPRINGS, UT 84045

October 2025

TOWN OF RICO

REMEDIATION OF UNPAVED ROAD SEGMENTS AND STORMWATER CONTROLS CONSTRUCTION

SCOPE of SERVICES

1.0 INTRODUCTION 1
2.0 PROJECT PLANNING 1
2.1 Safety 2
2.1.1 General Safety 2
2.1.2 Public Safety 2
2.1.3 Traffic Control Plan 2
2.2 Stormwater Management Plan 3
2.3 Anticipated Work Sequencing 3
3.0 PROJECT SPECIFICATIONS 3
3.1 Mobilization/Demobilization 4
3.2 Decontamination Of Equipment 4
3.3 Dust Control 5
3.4 Earthwork 5
3.5 Stormwater Controls 5
4.0 SCOPE OF SERVICES 7
4.1 Mobilization And Demobilization 7
4.2 VCUP Remediation of Unpaved Road and Alley Segments 7
4.2.1 VCUP Remediation Payment 8
4.2.2 VCUP Remediation T&M Payment 8
4.3 Rico Rail Corridor Reclamation 8
4.3.1 Railroad Bed Reclamation Payment 9
4.4 Stormwater Controls 9
4.4.1 Stormwater Control Items Payment 10
4.5 Pro Patria Retention Basin Expansion 10
4.5.1 Pro Patria Retention Basin Expansion Payment 10
4.6 Seeding 11
4.6.1 Seeding Payment 11

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List of Sheets

G-01 COVER SHEET
G-02 SHEET INDEX
G-03 EXISTING POWER & WATER LOCATIONS MAP
G-04 EXISITNG FIBER OPTIC POTENTIAL CONFLICTS OVERVIEW
G-05 VCUP & NON-VCUP PHASING OVERVIEW
G-06 QMC SURVEY CONTROL POINT LOCATIONS
G-07 QMC SURVEY CONTROL POINT LISTS
G-08 FOUND PROPERTY CORNERS AND MONUMENT LOCATIONS
G-09 FOUND PROPERTY CORNERS AND MONUMENTS POINT LISTS
SM1-01 NE RICO STRUCTURE SUMMARY
SM1-02 NE RICO STRUCTURE SUMMARY
SM1-03 NE RICO PIPE SUMMARY
SM2-01 SE RICO STRUCTURE & PIPE SUMMARY
SM3-01 W RICO STRUCTURE & PIPE SUMMARY
SM4-01 SILVERGLANCE, EDER & PIEDMONT STRUCTURE & PIPE SUMMARY
HC1-01 HORIZONTAL CONTROL YELLOWMAN AVE & SILVER ST
HC1-02 HORIZONTAL CONTROL GARFIELD ST & ALLEY
HC1-03 HORIZONTAL CONTROL MILL RD
HC1-04 HORIZONTAL CONTROL MILL RD
HC1-05 HORIZONTAL CONTROL VANWINKLE AVE, & WEBSTER WAY
HC1-06 HORIZONTAL CONTROL HINKLEY DR
HC1-07 HORIZONTAL CONTROL VANWINKLE AVE, SODA, & SHORT ST
HC1-08 HORIZONTAL CONTROL SO. VANWINKLE DITCH & AVE. OUTLET CULVERT
HC1-09 HORIZONTAL CONTROL GARFIELD ST. & SIVLER ST. OUTLET CULVERT
HC1-10 HORIZONTAL CONTROL MILL RD TO SILVER ST & YELLOWMEN TO SHORT
HC1-11 HORIZONTAL CONTROL SHORT ST. & HINCKLEY DR. PIPE NETWORKS
HC2-01 HORIZONTAL CONTROL ALLEY WAY 1
HC2-02 HORIZONTAL CONTROL COMMERCIAL ST. ZONE
HC2-03 HORIZONTAL CONTROL ALLEY 2 & SILVER ST
HC2-04 HORIZONTAL CONTROL CARTER WAY
HC2-05 HORIZONTAL CONTROL MANTZ & KING ST
HC2-06 HORIZONTAL CONTROL E CAMPBELL ST
HC2-07 HORIZONTAL CONTROL E CAMPBELL & ALLEY-1 TO GLASGOW
HC3-01 HORIZONTAL CONTROL ARGENTINE ST
HC3-02 HORIZONTAL CONTROL RIVER ST
HC3-03 HORIZONTAL CONTROL PICKER ST
HC3-04 HORIZONTAL CONTROL PICKER ST & SODA ST ALLEY
HC3-05 HORIZONTAL CONTROL HANCOCK ST
HC3-06 HORIZONTAL CONTROL SODA ST
HC3-07 HORIZONTAL CONTROL W MANTZ & CAMPBELL ST
HC3-08 HORIZONTAL CONTROL KING ST.
HC3-09 HORIZONTAL CONTROL W MANTZ & S RIVER CULVERT & P. NETWORK
HC3-10 HORIZONTAL CONTROL W KING & ARGENTINE OUTLET CULVERTS
HC3-11 HORIZONTAL CONTROL PICKER ST MID & SODA ST & HANCOCK CULVERTS
HC4-01 HORIZONTAL CONTROL SILVERGLANCE WAY
HC4-02 HORIZONTAL CONTROL SILVERGANCE TO CIRCLE
HC5-01 HORIZONTAL CONTROL JONES MINE RD
HC5-02 HORIZONTAL CONTROL EDER ST
HC5-03 HORIZONTAL CONTROL EDER ST & PICKER OUTLET CULVERT
HC6-01 HORIZONTAL CONTROL ROAD 54.7

NOT FOR CONSTRUCTION

HC6-02 HORIZONTAL CONTROL PIEDMONT ST
RM-01 REMEDIAL CLEANUP AREAS OVERVIEW
RM1-01 REMEDIATION AREAS ZONE 1
RM1-02 REMEDIATION AREAS ZONE 1
RM2-01 REMEDIATION AREAS ZONE 2
RM3-01 REMEDIATION AREAS ZONES 3 & 4
DR-01 DRAINAGE CONTROLS OVERVIEW
DR1-01 MILL RD DITCH-01
DR1-02 MILL RD DITCH-01
DR1-03 MILL RD DITCH-01 END & BEG. MILL RD DITCH-02
DR1-04A MILL RD DITCH-02 TO SILVER ST DITCH-01 & WEBSTER WY DITCH
DR1-04B GARFIELD ST & MILL RD INTERSECTION STAKING
DR1-05 VANWINKLE DITCH-01
DR1-06 VANWINKLE DITCH-02 TO GARFIELD ST TO MILL RD DITCH-02
DR1-07A GARFIELD ST TO SILVER ST & BEG. SODA ST & HINKLEY DR
DR1-07B SILVER STREET GRADE TO DRAIN TO HINKLEY DR DITCH STAKING
DR1-07C SILVER STREET CONCRETE WATERWAY CROSSING STAKING
DR1-07D SILVER ST & SODA ST CONCRETE WATERWAY STAKING
DR1-08 SODA ST & HINKLEY DR & YELLOWMAN AVE & SHORT ST
DR1-09 GARFIELD ST & SILVER ST TO SILVER CREEK & SODA ST
DR1-10 SODA ST DITCHES 01 & 02 AND HINKLEY DR TO SILVER CREEK
DR1-201 VANWINKLE PIPE CULVERT
DR1-202A VAN WINKLE TO GARFIELD PIPE CULVERT PLAN VIEW
DR1-202B VAN WINKLE TO GARFIELD PIPE CULVERT PROFILE VIEW
DR1-203 GARFIELD TO SODA ST CULVERT
DR1-204 N GARFIELD ST PIPE CULVERT
DR1-205 SILVER STREET PIPE CULVERT
DR1-206 MILL RD TO SILVER ST PIPE CULVERT PLAN & PROFILE
DR1-207 YELLOWMAN TO SHORT PIPE PLAN AND PROFILE
DR1-208 SHORT STREET PIPE CULVERT
DR1-209 HINKLEY STREET PIPE CULVERT
DR1-210 HINKLEY STREET PIPE CULVERT
DR1-211 SODA STREET OUTLET PIPE NETWORK
DR2-01A MANTZ DITCH-01, CARTER WY & SILVER ST NORTH TO CREEK
DR2-01B E MANTZ AVE DITCH CROSSING
DR2-02A MANTZ DITCH-01, COMMERCIAL ST & ALLEY-1 NORTH TO CREEK
DR2-02B E MANTZ AVE DITCH CROSSING
DR2-03 SILVER ST SO. ROAD GRADING
DR2-04 SILVER ST SO. ROAD GRADING, CARTER WY & MANTZ DITCH-02
DR2-05A MANTZ DITCH-02 & CAMPBELL DITCH-01, COMMERCIAL ST & ALLEY-1
DR2-05B E MANTZ AVE DITCH CROSSING AT ALLEY 2
DR2-05C E MANTZ AVE DITCH CROSSING AT ALLEY 1
DR2-06 COMMERCIAL ST TO CAMPBELL DITCH-02, & ALLEY-1 TO OUTLET
DR2-201 ALLEY-1 TO GLASGOW AVE PIPE CULVERT
DR2-202 E CAMPBELL STREET PIPE CULVERT
DR2-203 E MANTZ PIPE CULVERT CROSSING
DR2-204 MANTZ TO GLASGOW PIPE NETWORK
DR3-01A ARGENTINE ST, RIVER ST, MANTZ AVE & SODA ST
DR3-01B ARGENTINE ST DTICH CROSSING
DR3-02 MANTZ AVE TO PICKER ST & ARGENTINE ALLEY
DR3-03 ARGENTINE ALLEY TO KING ST
DR3-04 ARGENTINE ALLEY TO OUTLET CULVERT

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DR3-05 SODA ST TO OUTLET & HANCOCK ST TO OUTLET
DR3-06 PICKER ST & HANCOCK ST TO PICKER ST
DR3-07 PICKER ST OUTLET TO DOLORES RIVER
DR3-08 ARGENTINE ST, RIVER ST, ALLEY WY, & HANCOCK ST TO SILVER CREEK
DR3-09 ARGENTINE ALLEY & RIVER STREET NORTH OF SILVER CREEK
DR3-201 RIVER ST & MANTZ AVE TO PICKER ST PIPE CULVERTS
DR3-202 KING STREET PIPE CULVERT
DR3-203 ARGENTINE STREET PIPE CULVERT
DR3-204 PRO PATRIA RETENTION BASIN EXPANSION
DR3-205 PRO PATRIA RETENTION BASIN STAKING
DR3-206 SODA ST & HANCOCK ST CULVERT
DR4-01 SILVERGLANCE WY TO GLASGOW HWY
DR4-02 SILVERGLANCE WY TO EXISTING SILVERGLANCE CULVERT
DR4-03 SILVERGLANCE WY TO ABANDONED ACCESS ROAD TO EXSTING CULVERT
DR5-01 JONES MINE RD, EDER ST, & PICKER ST
DR5-201 EDER ST AND PICKER ST PIPE NETWORK
DR6-01 PIEDMONT ST & ROAD 54.7
DR6-02 ROAD 54.7 OUTLET
RD1-01 VANWINKLE AVE ROAD GRADING PLAN
RD1-02 GARFIELD ST TO SODA ST ROAD GRADING PLAN
RD1-03 E SODA STREET CROSS SECTIONS
RD3-01 ARGENTINE ALLEY CROSS SECTIONS
RD3-02 PICKER STREET ROAD WIDENING PLAN
RD3-03 HANCOCK STREET RAISING ROAD GRADE PLAN
DT-01 TYPICAL ROAD RECLAMATION DETAILS
DT-02 TYPICAL DITCH TYPES & ALLEY GRADING DETAILS
DT-03 TYPICAL DITCH TYPE 6 & 7 AND DITCH TRANSITION DETAILS
DT-04 EXISTING STORMDRAINS, DITCH APRONS, & WATERBAR DETAILS
DT-05 CONCRETE WATERWAY & APWA TYPE G CURB DETAILS
DT-06 TRENCH DRAIN DETAILS
DT-07 CONCRETE PIPE INSTALLATION DETAILS
DT-08 CATCH BASIN INSTALLATION DETAILS
DT-09 CATCH BASIN DETAILS
DT-09 CATCH BASIN DETAILS

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List of Appendices

Appendix A: Project Specifications

Acronyms	
AC	Acre
APWA	American Public Works Association
BCY	Bank Cubic Yard
CDPHE	Colorado Department of Public Health and Environment
EA	Each
ECY	Embankment Cubic Yard
LF	Linear Foot
LS	Lump Sum
MDD	Maximum Dry Density
QC	Quality Control
QMC	Quality Management Contractor
QMP	Quality Management Plan
ROW	Right of Way
SSHASP	Site Specific Health and Safety Plan
SWMP	Stormwater Management Plan
T&M	Time & Materials
TOWN	Town of Rico
VCUP	Voluntary Cleanup Program

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TOWN OF RICO

REMEDIATION OF UNPAVED ROAD SEGMENTS AND STORMWATER CONTROLS CONSTRUCTION

SCOPE of SERVICES

1.0 INTRODUCTION

This Town of Rico (Town) Road Remediation and Stormwater Controls Construction Work Plan (Plan) describes the planned remediation of impacted unpaved road segments within the Town and associated construction of permanent stormwater control features.

Previous mining activities in and around the Town of Rico, Colorado have resulted in elevated lead concentrations in soils within some of the unpaved roadways within the Town. Previous sampling has delineated segments of unpaved roads that have lead concentrations exceeding the site-specific Lead Action Level of 761 mg/kg. The remediation is to be completed as part of a Voluntary Cleanup Program (VCUP), for which the Town has submitted an application (2022 VCUP Application) to the Colorado Department of Public Health and Environment (CDPHE).

Delineated road segments are to be remediated in accordance with this Plan, associated construction drawings, and specifications. Stormwater control features are also to be constructed in order to protect the remediated road segments from future erosion and other stormwater impacts.

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2.0 PROJECT PLANNING

Field work as described in this Work Plan will be completed under the direction of the Quality Management Contractor (QMC) in association with the Town of Rico Construction Coordinator (see Specification 01100 – Quality Management Plan for additional information).

The Town of Rico will contract with a selected General Contractor, who will perform the following tasks:

- Conduct a private utility search.
- Implement the traffic control plan, including notifying businesses and residents that may be impacted by construction activities (48 hour notice).
- Excavate impacted roadway surface materials.
- Haul excavated materials to the Rico Soil Lead Repository for disposal.
- Prepare road subgrade and place specified roadway materials per plans and

specifications.
- Construct specified stormwater control features shown on plans.

2.1 Safety

The Contractor shall be responsible for Developing a Site Specific Health and Safety Plan (SSHASP), following their Contractor Heath and Safety Procedures and providing general public safety in relation to the work. The Town of Rico and the QMC have the authority to stop work if unsafe activities are observed.

2.1.1 General Safety

Underground and Overhead Utilities

Areas where ground disturbance occurs will require an 811 request and a blind sweep for underground utilities. In areas where utilities are located within the depth to be disturbed, the excavation should be hand excavated to expose and protect the utilities as needed. Caution should be exercised when working around overhead utilities.

Fire

If any hot work is required (metal torch cutting, grinding, or welding), all precautions necessary should be taken to prevent fires (fire extinguishers and an assigned fire watch person).

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2.1.2 Public Safety

Public roads subject to interference or use by the work are to be kept open and managed to allow continued public use (as much as reasonable while keeping public safety paramount). Contractor shall notify residents and businesses at least 48 hours in advance of work happening on the specific street where their house or business is located. The Contractor shall provide, erect, and maintain all required barricades and signage as needed to protect the public in and around the work areas. Work shall not be undertaken without safety barriers, signs, and other items in place. Work shall be stopped if unauthorized visitors enter the work area.

2.1.3 Traffic Control Plan

A Traffic Control Plan will be prepared by the Contractor, which will be reviewed by the Town and QMC. The plan may be modified as required by work conditions during the work activities, as approved by the Town and QMC. The plan will include:

- Haul routes and traffic direction,
- Anticipated road closures to public traffic (and timing),
- Control measures to direct traffic,

2.2 Stormwater Management Plan

Prior to the start of construction, the Contractor shall prepare and submit a Stormwater Management Plan (SWMP) for each specified work area in conformance with the requirements listed in the Colorado Department of Public Health & Environment (CDPHE) general permit COR400000. The SWMP comprises those contract documents containing the requirements and recommendations to accomplish all the following:

- Protect and identify sensitive environments (state waters, wetlands, habitat, and existing vegetation).
- Minimize the amount of disturbed soil.
- Control and minimize erosion and sedimentation during and after project construction.
- Minimize runoff from offsite areas from flowing across the site by slowing down the runoff.
- Reduce pollutants in stormwater runoff.

Refer to SWMP requirements further outlined in Specification 01355 – Environmental Compliance. Following approval of the SWMP by the QMC, the contractor shall apply through the CDPHE general permit COR400000.

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2.3 Anticipated Work Sequencing

The Contractor shall provide anticipated work sequencing to the Town of Rico and QMC.

3.0 PROJECT SPECIFICATIONS

The Quality Management Plan (QMP) in Specification 01100 contains the quality processes and procedures that will be implemented for the completion of the Town of Rico Road Remediation and Stormwater Controls Project. The QMP provides information for the Town of Rico, the Contractor, and the QMC, necessary to ensure that the project is completed effectively, and of the highest quality. The full specification list for this project is listed below (See Appendix A):

Section 01100 – Town of Rico Remediation and Stormwater Controls Quality Management Plan
Section 01280 - Measurement
Section 01282 - Payment
Section 01285 - Mobilization-Demobilization

Section 01286 - Decontamination of Equipment
Section 01355 - Environmental Compliance
Section 01455 - Material Quality Requirements
Section 01571 - Temporary Environmental Controls
Section 01572 - Dust Control and Watering
Section 01721 - Survey
Section 01741 - Final Cleanup
Section 02056 - Borrow, and Backfill
Section 02075 - Geotextiles
Section 02221 - Remove Structure and Obstruction
Section 02231 - Site Clearing and Grubbing
Section 02373 - Confined & Loose Riprap
Section 02610 - Drainage Pipe
Section 02633 - Concrete Drainage Structures
Section 02721 - Aggregate Base Course
Section 02776 - Concrete Flatwork
Section 02922 - Seeding and Shrubs
Section 03055 - Portland Cement Concrete
Section 03132 - Soil Stabilization System (Geoweb)
Section 03211 - Reinforcing Steel and Welded Wire
Section 03310 - Structural Concrete
Section 03390 - Concrete Curing
Section 03575 - Flowable Fill

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3.1 Mobilization/Demobilization

The Contractor shall mobilize and demobilize material, equipment, tooling, trailers, and personnel as required to complete the work called out in the Town of Rico Road Remediation and Stormwater Controls Scope of Work and Design. Refer to Specifications:

- Section 01285 - Mobilization-Demobilization
- Section 01286 - Decontamination of Equipment

3.2 Decontamination Of Equipment

The Contractor shall ensure that all equipment is clean upon arrival, when exiting Town of Rico VCUP remediation areas, prior to leaving the lead repository disposal site, and when moving on-site between remediation to non-remediation areas. Refer to Specifications:

- Section 01286 - Decontamination of Equipment
- Section 01355 - Environmental Compliance

3.3 Dust Control

The Town of Rico will provide the Contractor with a water source for use as dust control. The Contractor shall apply water in all work areas for dust control as an incidental expense of project work items. Refer to the following specifications:

- Specification 01100, Section 2.1: Town of Rico Furnished Materials
- Specification 01572 - Dust Control and Watering

3.4 Earthwork

Earthwork includes:

- VCUP remediation of unpaved road and alley segments
- Construction of roadside ditches
- Grading road and alley segments to drain
- Bedding and backfilling of:
  - APWA Type G curb and gutters
  - Concrete waterways
  - One concrete trench drain
  - Concrete pipe culverts
  - Concrete catch basins and junction boxes

For earthwork components of each task, refer to the following specifications:

- Section 01286 - Decontamination of Equipment
- Section 01355 - Environmental Compliance
- Section 01455 - Material Quality Requirements
- Section 01571 - Temporary Environmental Controls
- Section 01572 - Dust Control and Watering
- Section 01721 - Survey
- Section 01741 - Final Cleanup
- Section 02056 - Borrow, and Backfill (CDOT Class 1, 2 & 3)
- Section 02075 - Geotextiles
- Section 02221 - Remove Structure and Obstruction
- Section 02231 - Site Clearing and Grubbing
- Section 02721 - Aggregate Base Course (CDOT Class 6)

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3.5 Stormwater Controls

The construction of stormwater controls includes:

- Construction of roadside ditches (with vegetation or geoweb revetment with aggregate infill)
- Pro-Patria Retention Basin Expansion

- APWA Type G curb and gutter
- Concrete waterways
- One concrete trench drain
- Concrete pipe culverts
- Concrete catch basins and junction boxes

For stormwater control items, refer to the following specifications:

- All earthwork related specifications listed previously in 3.4 Earthwork, and:
- Section 02373 - Confined & Loose Riprap
- Section 02610 - Drainage Pipe
- Section 02633 - Concrete Drainage Structures
- Section 02776 - Concrete Flatwork
- Section 03055 - Portland Cement Concrete
- Section 03132 - Soil Stabilization System (Geoweb)
- Section 03211 - Reinforcing Steel and Welded Wire
- Section 03310 - Structural Concrete
- Section 03390 - Concrete Curing
- Section 03575 - Flowable Fill
- Section 02922 - Seeding and Shrubs

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4.0 SCOPE OF SERVICES

The Contractor shall limit work area extents to that shown on the construction drawings. Prior to opening a work area, the Contractor shall verify with the QMC that the following has been established or obtained:

- All affected residences and businesses have been notified as discussed in sub-section 2.1.1.
- A Traffic Control Plan has been approved and implemented as discussed in sub-section 2.1.3.
- Utility locate verification has been completed as discussed in Section **Error! Reference source not found.**.

Measurement and Payment for Contractor work for specific work items will be made in accordance with the paragraphs below and as shown in the Compensation Schedule. Lump Sum (LS) prices as shown on the Compensation Schedule shall include all costs for equipment, operation, maintenance, labor, materials, overhead, taxes, risks and any other costs associated with the described work scope. Estimated quantities are provided for convenience, however, the Contractor is responsible for verifying quantities for its purposes.

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4.1 Mobilization And Demobilization

Twenty-five percent of Mobilization and Demobilization may be invoiced at the beginning of the project. An additional 60% may be invoiced with subsequent invoices for payment of work completed. The remaining 15% will be paid on the final invoice.

4.2 VCUP Remediation of Unpaved Road and Alley Segments

Road and Alley remediation locations are shown on RM-Series construction sheets. Remediation work includes the following:

- Remove the top 12 inches of the existing roadway or alley surfaces within the Town of Rico Right of Way (ROW). For Type 1 and Type 3 ditches, concrete waterways, and APWA Type G curbs, remove an additional 12 inches of material below the lines and grades. For Type 2 and Type 4 ditches, remove an additional 12 inches of material below the revetment subgrade.
    - At pipe culvert inlet and outlet locations, remove soil 1-foot below the bottom of pipes, and up to two feet from pipe ends (measured horizontally).
- Haul excavated materials for disposal to the Rico Soil Lead Repository where it will be spread and compacted by others.

- Estimated removal quantities are provided in Table 1 on Construction Sheet RM-01 – Remedial Cleanup Areas Overview. These removal

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quantities are measured in bank cubic yards (BCY). Estimated fill quantities are the same as the removal quantities and measured in embankment cubic yards (ECY). Estimated delineation fabric quantities are provided in Table 1 and are measured in linear feet (LF) per standard roll width.

4.2.1 VCUP Remediation Payment

The Contractor may submit invoices for completed remediation areas as listed in Table 1 on Construction Sheet RM-01, and as listed under Road or Alley Remediation item numbers on the Compensation Schedule (LS measurements).

The additional 12 inches of removal at ditch, waterway, and APWA Type G curb & gutter locations are included in the estimated BCY quantities in Table 1. The cost to shape ditches to the lines and grades or subgrades are included in drainage line items in the Compensation Schedule.

4.2.2 VCUP Remediation T&M Payment

If additional material is removed per the directions of the QMC beyond what is discussed in Section 4.2, shown in RM-Series Construction Sheets, and as staked in the field, invoice the additional removal based on T&M per bank cubic yard removed, measured and agreed upon by both the Contractor and the QMC.

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4.3 Rico Rail Corridor Reclamation

The Rico Rail Corridor cap location is shown on Construction Sheet RM-01. Capping of the rail bed includes the following:

- Smooth the rail grade surface.
- Install an 8-ounce non-woven geotextile (delineating fabric) along the excavated grade per Specification 02075 – Geotextiles.
- Place and compact 9 inches of Class 1 or Class 2 borrow and backfill material (as directed by the QMC) over the delineating fabric. Compact to 95% MDD Modified Proctor per Specification 02056 – Borrow, and Backfill.
- Place and compact 3 inches of CDOT Class 6 aggregate base course material. Compact to 95% MDD Modified Proctor per Specification 02721 - Aggregate Base Course.

4.3.1 Railroad Bed Reclamation Payment

This work will be performed on a Time and Materials (T&M) basis, not to exceed the total contracted LS amount shown in the Compensation Schedule without prior written approval.

4.4 Stormwater Controls

Stormwater control items are organized in the Compensation Schedule by zone, and type. The project is divided into six zones, numbered 1 to 6. Stormwater control types and their accompanying detail number and their construction sheet locations are as follows:

- Type 1 Ditch: 6 feet wide x 6 inches deep with vegetative cover. Refer to Detail 01 on Sheet DT-02.
- Type 2 Ditch: 6 feet wide x 12 inches deep with Geoweb GW30V6 panels filled with D50 2-inch rock aggregate. Refer to Detail 02 on Sheet DT-02.
- Type 3 Ditch: 3.5 feet wide x 12 inches deep with vegetative cover. Refer to Detail 03 on Sheet DT-02.
- Type 4 Ditch: 3.5’ feet wide x 12 inches deep with Geoweb GW30V6 panels filled with D50 2-inch rock aggregate. Refer to Detail 04 on Sheet DT-02.
- Alley Grading to Drain: Grading travel ways to drain an along edge of road in 16-foot ROW or where existing roads are a single lane wide. Refer to Detail 05 on Sheet DT-02.
- Type 6 Ditch: 2 feet wide x 6 inches deep with vegetative cover. Refer to Detail 01 on Sheet DT-03.
- Type 7 Argentine Down Channel: 8 feet wide x 12 inches deep with D50 9-inch riprap. Refer to Details 02 and 03 on Sheet DT-03.
- Unpaved Road Waterbar: Three waterbars are located along the upper section of Mill Road, and one other is located on Piedmont Street. Refer to Details 04 and 05 on Sheet DT-04.
- Concrete Waterways: 4 feet or 6 feet wide x 2 inches deep. Refer to Details 01 and 02 on Sheet DT-05, respectively.
- APWA Type G Curb & Gutter: 2-foot-wide rounded curb and gutter installed along the flowline of Alley Grading at vehicle access points. Refer to Detail 03 on Sheet DT-05.
- Concrete Trench Drain: One location along Silver Street with a 1-foot x 1-foot internal dimension. Refer to Sheet DT-06.
- Concrete Pipe Culverts: Primarily 15-inch and two locations with 18-inch reinforced concrete pipe installed at cross traffic locations or connected to concrete catch basins. Refer to Sheets DT-07 and DT-08.

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- Concrete Catch Basins or Junction Boxes: Pre-cast concrete boxes with grates and frames and internal dimensions of 36 inches x 36 inches or 24 inches x 36 inches. Refer to Details 01 and 02 on Sheet DT-09, respectively.

4.4.1 Stormwater Control Items Payment

Stormwater control items are first organized in the Compensation Schedule by zone and type as follows:

- Drainage-Ditches
- Structures and Pipe Culverts
- Concrete Flatwork
- Road Grading

Stormwater control items are then organized by street name and their begin and end stationing. Each individual item number includes a description that identifies type, size (when applicable), exact begin and end stationing per segment, and unit of measurement.

All types of Ditches, concrete waterways, APWA Type G curbs and gutters, and pipe culverts are measured by LF. The calculated height for concrete catch basin is provided in the item description with an Each (EA) measurement.

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4.5 Pro Patria Retention Basin Expansion

The Pro Patria site is a historic mining facility situated between the toe of a bluff and Hancock Street (Street 1). As part of a separate project conducted by others, the site has been regraded and capped, with stormwater conveyance channels constructed around the cap to direct runoff toward the Pro Patria Retention Basin.

Adjacent to the south side of the Pro-Patria Retention Basin, a second retention basin, called the Pro-Patria Expansion Basin, will be constructed as part of this project. Stormwater runoff from Glasgow Avenue, Argentine Alley, Mantz Avenue, and Picker Street will discharge directly into the Pro-Patria Expansion Basin through an 18-inch concrete pipe numbered P03-06 in the Compensation Schedule.

4.5.1 Pro Patria Retention Basin Expansion Clean Fill Requirements

Cut to the lines and grades. Place clean fill to the lines and grades with Class 1 or Class 2 borrow and backfill material (as directed by the QMC) and compact to 95% MDD Modified Proctor per Specification 02056 – Borrow, and Backfill.

4.5.2 Pro Patria Retention Basin Expansion Payment

Construction of the Pro Patria expansion basin will be paid as a lump sum, which includes the following:

- Clear and grub vegetation,
- Excavate to the basin cut lines and grades,
- Construct the west embankment with a 5-foot-wide x 2-inch-deep unlined outlet weir that is cut into the top of the embankment at the location shown on Sheet DR3-205.

Two other work items not covered under the lump sum include constructing a 5-foot-wide x 20.5-foot-long slope protection spillway below the outlet of pipe P03-06, and seeding the basin as discussed in Section 4.6. The slope spillway line-item is based on neat line SQYD measurement.

4.6 Seeding

Seeding will be conducted using hydraulic seeding equipment during the fall or spring seeding window for all Type 1 and Type 3 ditches, tie-back grading to previously vegetated road shoulders within the ROW, and the Pro-Patria Expansion Basin. Refer to Specification 02922 – Seeding and Shrubs for more information on seed mix and the seeding window.

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4.6.1 Seeding Payment

The seeding locations are organized in the Compensation Schedule per zone, then by street name, and type. Estimated seeding quantities for Type 1 and Type 3 ditches are provided at the end of each zone line-item list in the Compensation Schedule. Estimated quantity measurements are provided in SQYD and include the ditch surface and tie-back grading to previously vegetated areas within the ROW.

The Pro-Patria Retention Basin Expansion seeding is a separate line-item at the end of zone 3 in the Compensation Schedule. includes seeding the bottom of the retention basin, side slopes and the embankment (acre (AC) measurement).

SHEETS

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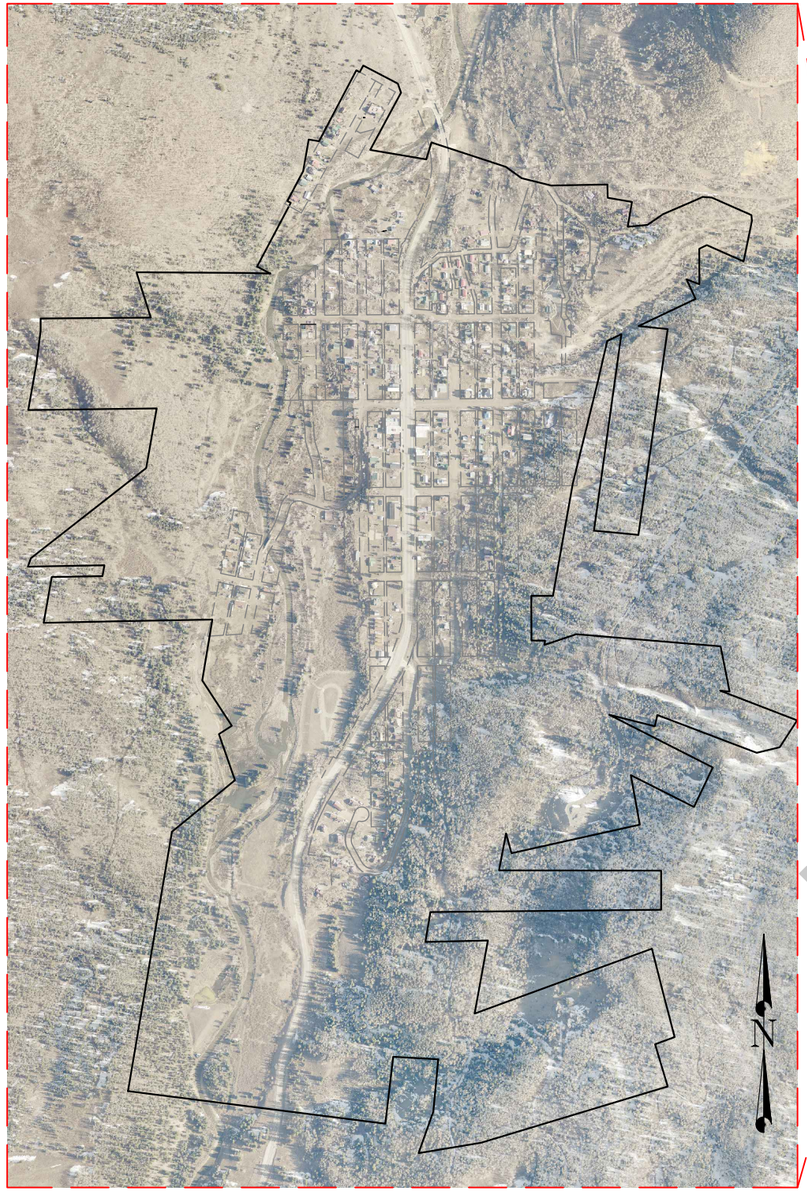
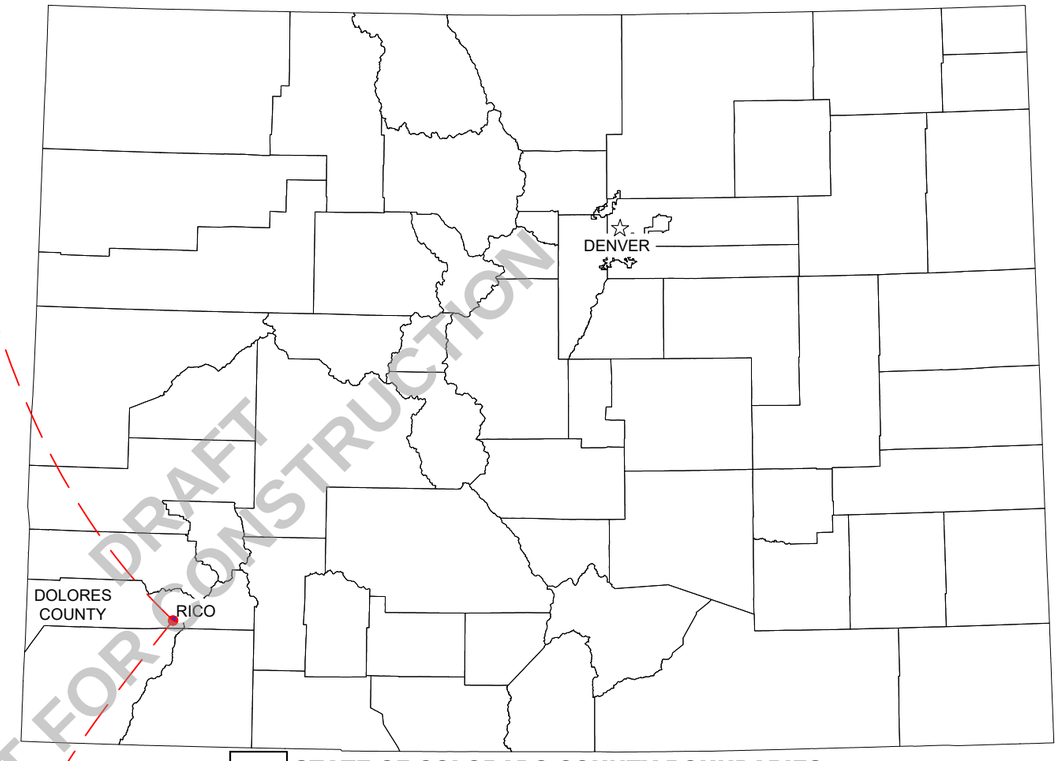
TOWN OF RICO STORMWATER CONTROL PLAN
(95%)



02 **TOWN OF RICO**
SCALE - 1" = 1,000'

SCALE IN FEET
0 500 1,000



01 **STATE OF COLORADO COUNTY BOUNDARIES**
N.T.S.

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Legend

- TOWN OF RICO BOUNDARY
- TOWN OF RICO ROW

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.
2053 N HILLCREST RD. SARATOGA SPRINGS, UT. 84045 (801) 972-6222

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

COVER SHEET

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: G-01
Date: 23-Oct-2025	
Scale: AS SHOWN	

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100

TOWN OF RICO STORMWATER CONTROL PLAN
(95%)

SHEET LIST TABLE

Sheet Number	Sheet Title
G-01	COVER SHEET
G-02	SHEET INDEX
G-03	EXISTING POWER & WATER LOCATIONS MAP
G-04	EXISITNG FIBER OPTIC POTENTIAL CONFLICTS OVERVIEW
G-05	VCUP & NON-VCUP PHASING OVERVIEW
G-06	QMC SURVEY CONTROL POINT LOCATIONS
G-07	QMC SURVEY CONTROL POINT LISTS
G-08	FOUND PROPERTY CORNERS AND MONUMENT LOCATIONS
G-09	FOUND PROPERTY CORNERS AND MONUMENTS POINT LISTS
SM1-01	NE RICO STRUCTURE SUMMARY
SM1-02	NE RICO STRUCTURE SUMMARY
SM1-03	NE RICO PIPE SUMMARY
SM2-01	SE RICO STRUCTURE & PIPE SUMMARY
SM3-01	W RICO STRUCTURE & PIPE SUMMARY
SM4-01	SILVERGLANCE, EDER & PIEDMONT STRUCTURE & PIPE SUMMARY
HC1-01	HORIZONTAL CONTROL YELLOWMAN AVE & SILVER ST
HC1-02	HORIZONTAL CONTROL GARFIELD ST & ALLEY
HC1-03	HORIZONTAL CONTROL MILL RD
HC1-04	HORIZONTAL CONTROL MILL RD
HC1-05	HORIZONTAL CONTROL VANWINKLE AVE, & WEBSTER WAY
HC1-06	HORIZONTAL CONTROL HINKLEY DR
HC1-07	HORIZONTAL CONTROL VANWINKLE AVE, SODA, & SHORT ST
HC1-08	HORIZONTAL CONTROL SO. VANWINKLE DITCH & AVE. OUTLET CULVERT
HC1-09	HORIZONTAL CONTROL GARFIELD ST. & SIVLER ST. OUTLET CULVERT
HC1-10	HORIZONTAL CONTROL MILL RD TO SILVER ST & YELLOWMEN TO SHORT
HC1-11	HORIZONTAL CONTROL SHORT ST. & HINCKLEY DR. PIPE NETWORKS
HC2-01	HORIZONTAL CONTROL ALLEY WAY 1
HC2-02	HORIZONTAL CONTROL COMMERCIAL ST. ZONE
HC2-03	HORIZONTAL CONTROL ALLEY 2 & SILVER ST
HC2-04	HORIZONTAL CONTROL CARTER WAY
HC2-05	HORIZONTAL CONTROL MANTZ & KING ST
HC2-06	HORIZONTAL CONTROL E CAMPBELL ST
HC2-07	HORIZONTAL CONTROL ALLEY-1 TO GLASGOW, E CAMPBELL, & E MANTZ
HC3-01	HORIZONTAL CONTROL ARGENTINE ST
HC3-02	HORIZONTAL CONTROL RIVER ST
HC3-03	HORIZONTAL CONTROL PICKER ST
HC3-04	HORIZONTAL CONTROL PICKER ST & SODA ST ALLEY
HC3-05	HORIZONTAL CONTROL HANCOCK ST
HC3-06	HORIZONTAL CONTROL SODA ST
HC3-07	HORIZONTAL CONTROL W MANTZ & CAMPBELL ST
HC3-08	HORIZONTAL CONTROL KING ST.
HC3-09	HORIZONTAL CONTROL W MANTZ & S RIVER CULVERT & P. NETWORK
HC3-10	HORIZONTAL CONTROL W KING & ARGENTINE OUTLET CULVERTS
HC3-11	HORIZONTAL CONTROL PICKER ST MID & SODA ST & HANCOCK CULVERTS
HC4-01	HORIZONTAL CONTROL SILVERGLANCE WAY
HC4-02	HORIZONTAL CONTROL SILVERGANCE TO CIRCLE
HC5-01	HORIZONTAL CONTROL JONES MINE RD
HC5-02	HORIZONTAL CONTROL EDER ST
HC5-03	HORIZONTAL CONTROL EDER ST & PICKER OUTLET CULVERT
HC6-01	HORIZONTAL CONTROL ROAD 54.7
HC6-02	HORIZONTAL CONTROL PIEDMONT ST
RM-01	REMEDIAL CLEANUP AREAS OVERVIEW
RM1-01	REMEDIATION AREAS ZONE 1
RM1-02	REMEDIATION AREAS ZONE 1
RM2-01	REMEDIATION AREAS ZONE 2
RM3-01	REMEDIATION AREAS ZONES 3 & 4
DR-01	DRAINAGE CONTROLS OVERVIEW
DR1-01	MILL RD DITCH-01
DR1-02	MILL RD DITCH-01
DR1-03	MILL RD DITCH-01 END & BEG. MILL RD DITCH-02
DR1-04A	MILL RD DITCH-02 TO SILVER ST DITCH-01 & WEBSTER WY DITCH
DR1-04B	GARFIELD ST & MILL RD INTERSECTION STAKING
DR1-05	VANWINKLE DITCH-01
DR1-06	VANWINKLE DITCH-02 TO GARFIELD ST TO MILL RD DITCH-02
DR1-07A	GARFIELD ST TO SILVER ST & BEG. SODA ST & HINKLEY DR
DR1-07B	SILVER STREET GRADE TO DRAIN TO HINKLEY DR DITCH STAKING
DR1-07C	SILVER STREET CONCRETE WATERWAY CROSSING STAKING
DR1-07D	SILVER ST & SODA ST CONCRETE WATERWAY STAKING
DR1-08	SODA ST & HINKLEY DR & YELLOWMAN AVE & SHORT ST
DR1-09	GARFIELD ST & SILVER ST TO SILVER CREEK & SODA ST
DR1-10	SODA ST DITCHES 01 & 02 AND HINKLEY DR TO SILVER CREEK
DR1-201	VANWINKLE PIPE CULVERT
DR1-202A	VAN WINKLE TO GARFIELD PIPE CULVERT PLAN VIEW
DR1-202B	VAN WINKLE TO GARFIELD PIPE CULVERT PROFILE VIEW
DR1-203	GARFIELD TO SODA ST CULVERT
DR1-204	N GARFIELD ST PIPE CULVERT
DR1-205	SILVER STREET PIPE CULVERT
DR1-206	MILL RD TO SILVER ST PIPE CULVERT PLAN & PROFILE
DR1-207	YELLOWMAN TO SHORT PIPE PLAN AND PROFILE
DR1-208	SHORT STREET PIPE CULVERT
DR1-209	HINKLEY STREET PIPE CULVERT
DR1-210	HINKLEY STREET PIPE CULVERT
DR1-211	SODA STREET OUTLET PIPE NETWORK
DR2-01A	MANTZ DITCH-01, CARTER WY & SILVER ST NORTH TO CREEK
DR2-01B	E MANTZ AVE DITCH CROSSING
DR2-02A	MANTZ DITCH-01, COMMERCIAL ST & ALLEY-1 NORTH TO CREEK
DR2-02B	E MANTZ AVE DITCH CROSSING
DR2-03	SILVER ST SO. ROAD GRADING
DR2-04	SILVER ST SO. ROAD GRADING, CARTER WY & MANTZ DITCH-02
DR2-05A	MANTZ DITCH-02 & CAMPBELL DITCH-01, COMMERCIAL ST & ALLEY-1
DR2-05B	E MANTZ AVE DITCH CROSSING AT ALLEY 2
DR2-05C	E MANTZ AVE DITCH CROSSING AT ALLEY 1
DR2-06	COMMERCIAL ST TO CAMPBELL DITCH-02, & ALLEY-1 TO OUTLET
DR2-201	ALLEY-1 TO GLASGOW AVE PIPE CULVERT
DR2-202	E CAMPBELL STREET PIPE CULVERT
DR2-203	E MANTZ PIPE CULVERT CROSSING
DR2-204	MANTZ TO GLASGOW PIPE NETWORK
DR3-01A	ARGENTINE ST, RIVER ST, MANTZ AVE & SODA ST
DR3-01B	ARGENTINE ST DTICH CROSSING
DR3-02	MANTZ AVE TO PICKER ST & ARGENTINE ALLEY
DR3-03	ARGENTINE ALLEY TO KING ST
DR3-04	ARGENTINE ALLEY TO OUTLET CULVERT
DR3-05	SODA ST TO OUTLET & HANCOCK ST TO OUTLET
DR3-06	PICKER ST & HANCOCK ST TO PICKER ST
DR3-07	PICKER ST OUTLET TO DOLORES RIVER
DR3-08	ARGENTINE ST, RIVER ST, ALLEY WY, & HANCOCK ST TO SILVER CREEK
DR3-09	ARGENTINE ALLEY & RIVER STREET NORTH OF SILVER CREEK
DR3-201	RIVER ST & MANTZ AVE TO PICKER ST PIPE CULVERTS
DR3-202	KING STREET PIPE CULVERT
DR3-203	ARGENTINE STREET PIPE CULVERT
DR3-204	PRO PATRIA RETENTION BASIN EXPANSION
DR3-205	PRO PATRIA RETENTION BASIN STAKING
DR3-206	SODA ST & HANCOCK ST CULVERT
DR4-01	SILVERGLANCE WY TO GLASGOW HWY
DR4-02	SILVERGLANCE WY TO EXISTING SILVERGLANCE CULVERT
DR4-03	SILVERGLANCE WY TO ABANDONED ACCESS ROAD TO EXSTING CULVERT
DR5-01	JONES MINE RD, EDER ST, & PICKER ST
DR5-201	EDER ST AND PICKER ST PIPE NETWORK
DR6-01	PIEDMONT ST & ROAD 54.7
DR6-02	ROAD 54.7 OUTLET
RD1-01	VANWINKLE AVE ROAD GRADING PLAN
RD1-02	GARFIELD ST TO SODA ST ROAD GRADING PLAN
RD1-03	E SODA STREET CROSS SECTIONS
RD3-01	ARGENTINE ALLEY CROSS SECTIONS
RD3-02	PICKER STREET ROAD WIDENING PLAN
RD3-03	HANCOCK STREET RAISING ROAD GRADE PLAN
DT-01	TYPICAL ROAD RECLAMATION DETAILS
DT-02	TYPICAL DITCH TYPES & ALLEY GRADING DETAILS
DT-03	TYPICAL DITCH TYPE 6 & 7 AND DITCH TRANSITION DETAILS
DT-04	EXISTING STORMDRAINS, DITCH APRONS & WATERBAR DETAILS
DT-05	CONCRETE WATERWAY & APWA TYPE G CURB DETAILS
DT-06	TRENCH DRAIN DETAILS
DT-07	CONCRETE PIPE INSTALLATION DETAILS
DT-08	CATCH BASIN INSTALLATION DETAILS
DT-09	CATCH BASIN DETAILS
DT-09	CATCH BASIN DETAILS

NOT FOR CONSTRUCTION

01 **TOWN OF RICO STORMWATER CONTROL PLAN (95%) SHEET INDEX**

Legend

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.
2053 N HILLCREST RD. SARATOGA SPRINGS, UT 84045 (801) 972-6222

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

SHEET INDEX

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: G-02
Date: 23-Oct-2025	
Scale: AS SHOWN	

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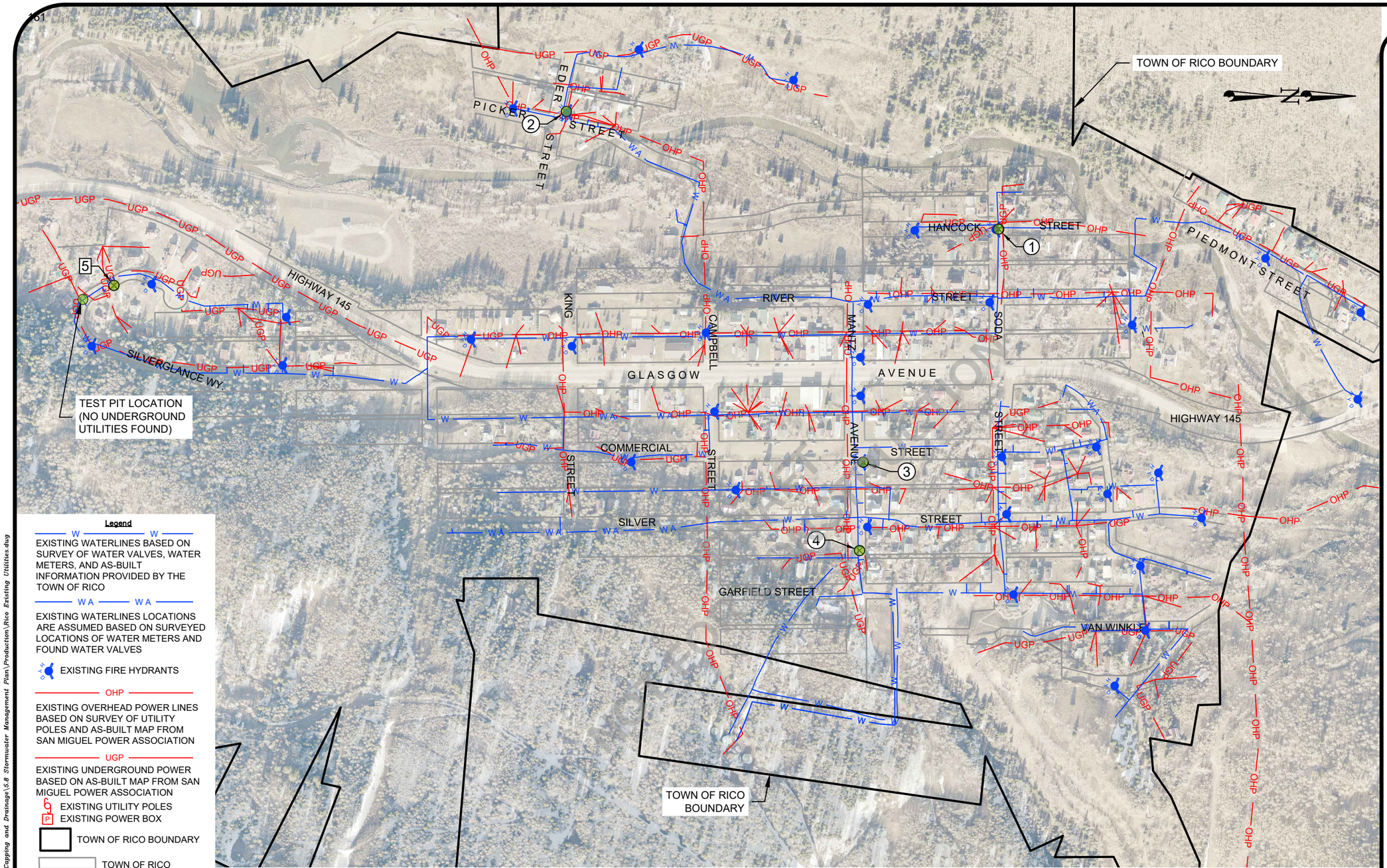

Legend

W — W
EXISTING WATERLINES BASED ON SURVEY OF WATER VALVES, WATER METERS, AND AS-BUILT INFORMATION PROVIDED BY THE TOWN OF RICO

W A — W A
EXISTING WATERLINES LOCATIONS ARE ASSUMED BASED ON SURVEYED LOCATIONS OF WATER METERS AND FOUND WATER VALVES

EXISTING FIRE HYDRANTS

OHP
EXISTING OVERHEAD POWER LINES BASED ON SURVEY OF UTILITY POLES AND AS-BUILT MAP FROM SAN MIGUEL POWER ASSOCIATION

UGP
EXISTING UNDERGROUND POWER BASED ON AS-BUILT MAP FROM SAN MIGUEL POWER ASSOCIATION

EXISTING UTILITY POLES
EXISTING POWER BOX

TOWN OF RICO BOUNDARY

TOWN OF RICO R.O.W. BLOCKS

N.T.S.

1 UGP POT HOLE LOCATIONS (5)

3 WATER POT HOLE LOCATIONS (1-4)

01 TOWN OF RICO EXISTING POWER & WATER LOCATIONS MAP

SCALE - 1" = 400'

SCALE IN FEET
0 200 400

NOTES

1. RELIANCE ENGINEERING SERVICES HAS PROVIDED AS-BUILT INFORMATION (APPROXIMATE LOCATIONS) FOR FIBER OPTIC LINES THAT WERE INSTALLED BY THE END OF THE 2024 CONSTRUCTION SEASON. INSTALLATION WORK IS ON GOING IN 2025. RELIANCE WILL PROVIDE UPDATED AS-BUILTS FOLLOWING THE 2025 CONSTRUCTION SEASON.

TABLE 01: POT HOLE POINT TABLE

POINT NUMBER	NORTHING	EASTING	DESCRIPTION
1	1384077.32	2267031.33	WATER POT HOLE @ HY DRANT (5.3-FT DEPTH)
2	1382357.35	2266563.51	WATER POT HOLE @ HY DRANT (6-FT DEPTH)
3	1383537.94	2267958.08	6" C-900 WATER POT HOLE (7-FT DEPTH)
4	1383523.43	2268309.22	UNIDENTIFIED 1.5-IN PIPE (6.3-FT DEPTH)
5	1380557.35	2267255.18	UGP POT HOLE (4.5-FT DEPTH)

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

EXISTING POWER & WATER LOCATIONS MAP

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	09-Sep-2025
Scale	1" = 400'
Sheet	G-03

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TOWN OF RICO BOUNDARY

PICKER STREET

EDER STREET

POTENTIAL CONFLICT (SEE SHEET DR3-06)

POTENTIAL CONFLICT (SEE SHEET DR4-02)

POTENTIAL CONFLICT (SEE SHEET DR4-03)

POTENTIAL CONFLICT (SEE SHEET DR3-01)

HANCOCK STREET

PIEDMONT STREET

POTENTIAL CONFLICT (SEE SHEET DR3-04)

HIGHWAY 145

POTENTIAL CONFLICT (SEE SHEET DR3-02)

KING STREET

RIVER STREET

CAMPBELL AVENUE

MANTZ AVENUE

SODA AVENUE

SILVERGLANCE WY.

POTENTIAL CONFLICT (SEE SHEET DR2-06)

GLASGOW AVENUE

POTENTIAL CONFLICT (SEE SHEET DR3-08)

POTENTIAL CONFLICT (SEE SHEET DR4-02)

COMMERCIAL STREET

POTENTIAL CONFLICT (SEE SHEET DR2-06)

HIGHWAY 145

POTENTIAL CONFLICT (SEE SHEET DR6-01)

POTENTIAL CONFLICT (SEE SHEET DR1-10)

SILVER STREET

POTENTIAL CONFLICT (SEE SHEET DR1-08 & DR-109)

GARFIELD STREET

POTENTIAL CONFLICT (SEE SHEET DR2-04)

POTENTIAL CONFLICT (SEE SHEET DR2-04)

VAN WINKLE

POTENTIAL CONFLICT (SEE SHEET DR1-05 & DR1-06)

POTENTIAL CONFLICT (SEE SHEET DR1-02)

TOWN OF RICO BOUNDARY

Legend

EXISTING FIBER OPTIC LINES BASED ON SURVEY OF COMMUNICATION BOXES, PHONE PEGS, AND AS-BUILT INFORMATION PROVIDED BY RELIANCE ENGINEERING SERVICES

T COMMUNICATIONS BOX

TOWN OF RICO BOUNDARY

TOWN OF RICO R.O.W. BLOCKS

N.T.S.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

EXISITNG FIBER OPTIC POTENTIAL CONFLICTS OVERVIEW

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: G-04
Date: 09-Sep-2025	
Scale: 1" = 400'	

01 TOWN OF RICO EXISTING FIBER OPTICS AND POTENTIAL CONFLICTS OVERVIEW

SCALE - 1" = 400'

SCALE IN FEET 0 200 400

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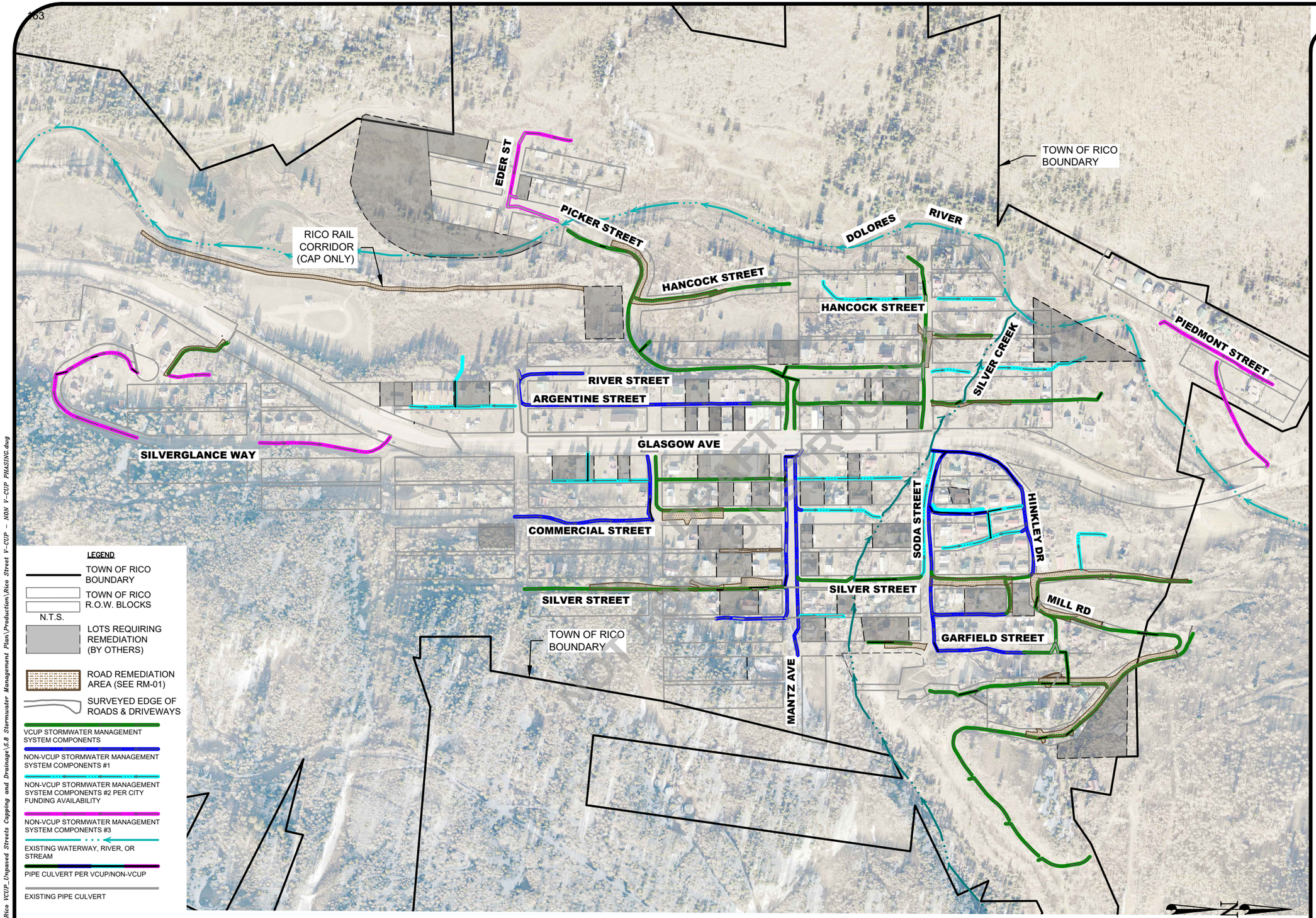

01 **VCUP & NON-VCUP STORM WATER MANAGEMENT PHASING OVERVIEW**
SCALE - 1" = 400'

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F:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\Rico Street V-CUP - NON V-CUP PHASING.dwg

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

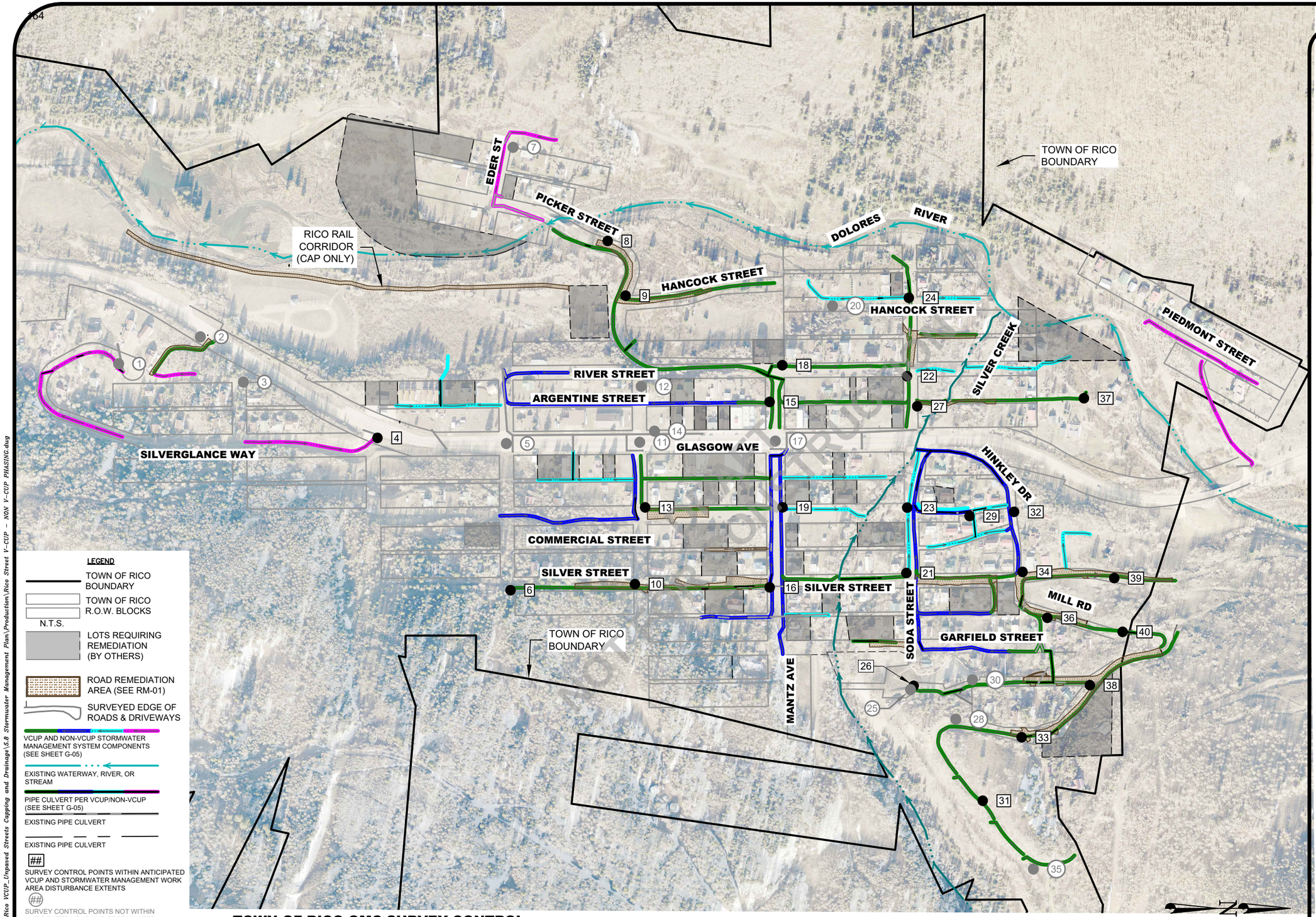
TOWN OF RICO STORMWATER CONTROL PLAN (95%)

VCUP & NON-VCUP PHASING OVERVIEW

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: G-05
Date: 23-Oct-2025	
Scale: 1" = 400'	



LEGEND

- TOWN OF RICO BOUNDARY
- TOWN OF RICO R.O.W. BLOCKS
- N.T.S.
- LOTS REQUIRING REMEDIATION (BY OTHERS)
- ROAD REMEDIATION AREA (SEE RM-01)
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- VCUP AND NON-VCUP STORMWATER MANAGEMENT SYSTEM COMPONENTS (SEE SHEET G-05)
- EXISTING WATERWAY, RIVER, OR STREAM
- PIPE CULVERT PER VCUP/NON-VCUP (SEE SHEET G-05)
- EXISTING PIPE CULVERT
- EXISTING PIPE CULVERT
- ## SURVEY CONTROL POINTS WITHIN ANTICIPATED VCUP AND STORMWATER MANAGEMENT WORK AREA DISTURBANCE EXTENTS
- (##) SURVEY CONTROL POINTS NOT WITHIN ANTICIPATED VCUP AND STORMWATER MANAGEMENT WORK AREA DISTURBANCE EXTENTS

01 TOWN OF RICO QMC SURVEY CONTROL POINT LOCATIONS
SCALE - 1" = 400'

SCALE IN FEET
0 200 400

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\Rico Street V-CUP - NON V-CUP PHASING.dwg

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

QMC SURVEY CONTROL POINT LOCATIONS

RICO, COLORADO

DRAWN BY:	RJR
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: G-06
Date: 23-Oct-2025	
Scale: 1" = 400'	

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TABLE 01: SURVEY CONTROL POINTS WITHIN ANTICIPATED WORK AREA OF DISTURBANCE EXTENTS

SURVEY POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4	1381830.95	2267590.72	8771.27	R/C
6	1382389.55	2268229.84	8974.78	R/C
8	1382797.39	2266764.50	8721.41	R/C
9	1382872.90	2266993.92	8725.58	R/C
10	1382911.72	2268204.50	8905.09	R/C
13	1382954.63	2267882.52	8817.60	R/C
15	1383477.18	2267439.60	8797.21	R/C
16	1383477.56	2268217.85	8846.76	R/C
18	1383530.48	2267285.78	8790.06	R/C
19	1383531.46	2267881.94	8824.98	R/C
21	1384051.38	2268157.84	8838.08	R/C
22	1384054.08	2267332.05	8785.18	R/C
23	1384054.76	2267883.33	8812.24	R/C
24	1384061.97	2267002.71	8746.69	R/C
26	1384082.18	2268630.68	8926.06	CP VAN WINKLE
27	1384096.87	2267458.13	8791.12	R/C
29	1384316.58	2267918.66	8819.04	R/C
31	1384371.90	2269113.33	9009.94	R/C
32	1384503.56	2267901.20	8822.42	R/C
33	1384535.10	2268847.24	8958.51	R/C
34	1384539.06	2268153.18	8844.68	R/C
36	1384643.09	2268345.80	8864.32	R/C
37	1384796.68	2267424.23	8754.99	R/C
38	1384821.77	2268628.55	8926.70	R/C
39	1384924.03	2268179.14	8833.55	R/C
40	1384959.13	2268404.62	8887.86	R/C

TABLE 02: SURVEY CONTROL POINTS NOT WITHIN ANTICIPATED WORK AREA DISTURBANCE EXTENTS

SURVEY POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1380744.06	2267279.78	8762.78	R/C
2	1381087.27	2267166.59	8748.56	R/C
3	1381267.93	2267356.73	8773.15	R/C
5	1382371.98	2267614.33	8782.75	MON. GLASGOW/KING
7	1382399.74	2266371.35	8736.86	COR1 MS3031
11	1382931.67	2267609.13	8799.14	MON. GLASGOW/CAMPBELL
12	1382938.17	2267374.33	8789.73	R/C
14	1382993.90	2267562.55	8799.54	CP 104
17	1383501.26	2267604.02	8810.74	MON. GLASGOW/MANTZ
20	1383741.11	2267036.69	8735.70	R/C
25	1384068.78	2268647.23	8930.26	R/C
28	1384258.66	2268771.51	8977.03	R/C
30	1384328.58	2268605.95	8920.50	R/C
35	1384584.58	2269399.99	9035.50	R/C

01 **TOWN OF RICO QMC SURVEY CONTROL POINT LISTS**
SCALE - NONE

DRAFT
NOT FOR CONSTRUCTION

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

QMC SURVEY CONTROL POINT LISTS

RICO, COLORADO

DRAWN BY:	RJR
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: G-07
Date: 23-Oct-2025	
Scale: NONE	

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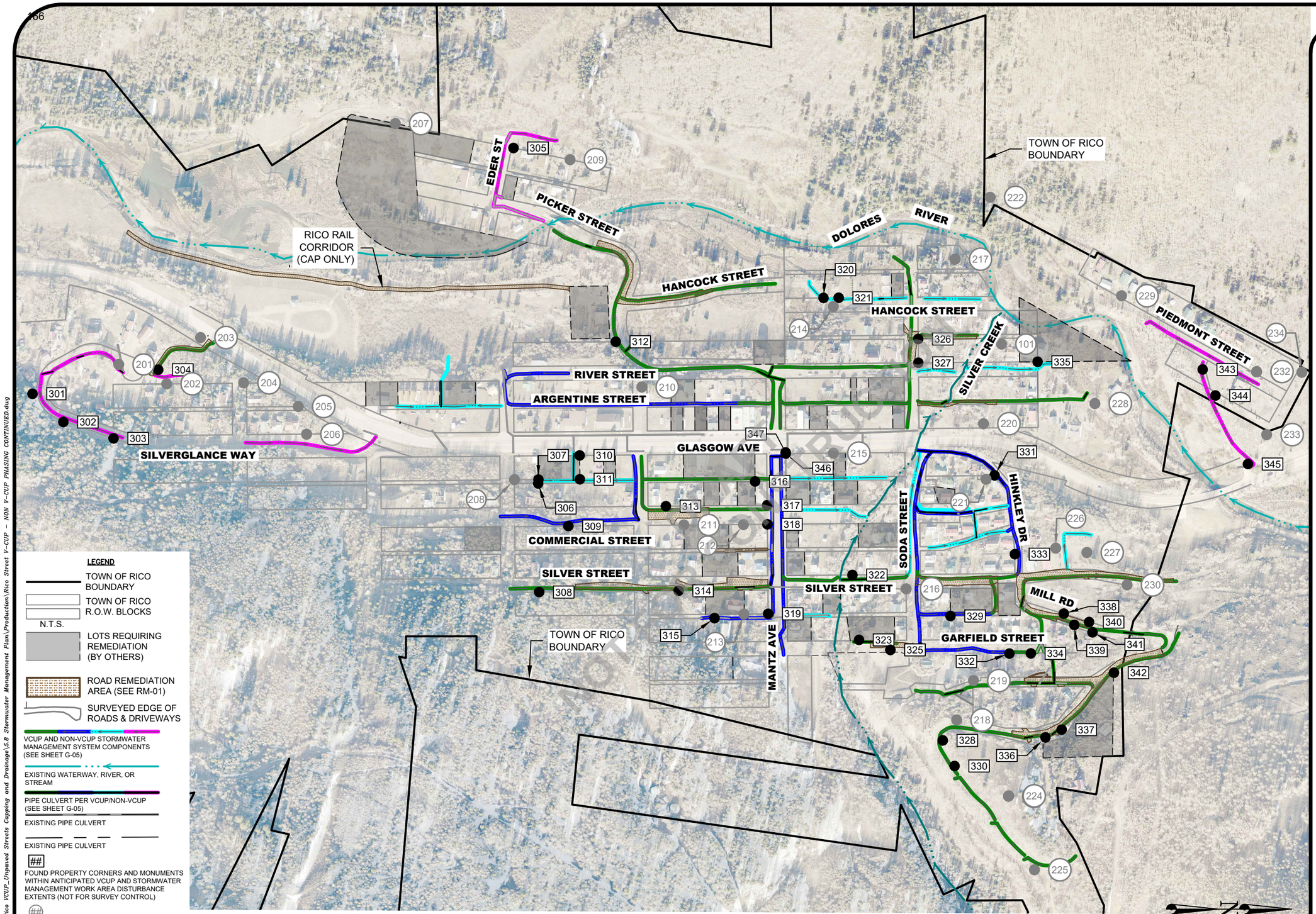

LEGEND

- TOWN OF RICO BOUNDARY
- TOWN OF RICO R.O.W. BLOCKS
- N.T.S.
- LOTS REQUIRING REMEDIATION (BY OTHERS)
- ROAD REMEDIATION AREA (SEE RM-01)
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- VCUP AND NON-VCUP STORMWATER MANAGEMENT SYSTEM COMPONENTS (SEE SHEET G-05)
- EXISTING WATERWAY, RIVER, OR STREAM
- PIPE CULVERT PER VCUP/NON-VCUP (SEE SHEET G-05)
- EXISTING PIPE CULVERT
- EXISTING PIPE CULVERT
- ## FOUND PROPERTY CORNERS AND MONUMENTS WITHIN ANTICIPATED VCUP AND STORMWATER MANAGEMENT WORK AREA DISTURBANCE EXTENTS (NOT FOR SURVEY CONTROL)
- ## FOUND PROPERTY CORNERS AND MONUMENTS NOT WITHIN ANTICIPATED VCUP AND STORMWATER MANAGEMENT WORK AREA DISTURBANCE EXTENTS (NOT FOR SURVEY CONTROL)

01 FOUND PROPERTY CORNERS AND MONUMENTS POINT LIST (NOT FOR SURVEY CONTROL)

SCALE - 1" = 400'

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General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

FOUND PROPERTY CORNERS AND MONUMENT LOCATIONS

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: G-08
Date: 23-Oct-2025	
Scale: 1" = 400'	

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TABLE 01: FOUND PROPERTY CORNERS AND MONUMENTS WITHIN ANTICIPATED WORK AREA DISTURBANCE EXTENTS

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
301	1380382.38	2267402.86	8795.26	FOLEY RC
302	1380511.96	2267520.98	8807.90	WILLIMAN RC
303	1380722.54	2267589.61	8817.53	WILLIMANN RC
304	1380909.87	2267301.63	8766.74	FOLEY RC
305	1382399.74	2266371.35	8736.86	COR1 MS3031
306	1382503.44	2267779.00	8804.79	FOLEY RC
307	1382504.37	2267762.67	8744.18	PROP CORNER OUT
308	1382507.52	2268234.72	8970.55	WILLIMAN RC
309	1382630.02	2267957.85	8853.75	APLS 38014 RC
310	1382677.41	2267661.43	8736.99	R/ C AL. PROPERTY WELLIMEN
311	1382678.26	2267761.40	8741.68	FOUND
312	1382828.78	2267184.24	8728.07	FOLEY RC
313	1383038.99	2267874.39	8819.47	OLD REBAR
314	1383092.19	2268229.35	8873.45	WILLIMAN RC
315	1383243.15	2268344.21	8880.54	RC L.S. 38011
316	1383413.00	2267770.78	8824.91	FOLEY RC
317	1383463.73	2267870.32	8827.49	FOLEY RC
318	1383464.68	2267950.25	8830.81	38014 RC
319	1383467.99	2268326.10	8857.23	RC L.S. 38011
320	1383699.97	2267000.26	8734.42	RC
321	1383763.66	2266999.59	8736.40	38014 RC
322	1383821.24	2268163.10	8836.46	38014 RC
323	1383849.12	2268435.52	8877.86	OLD BAR
324	1383980.59	2268477.27	8880.45	OLD BAR AND REBAR
325	1383980.61	2268477.36	8880.25	FOLEY RC
326	1384097.35	2267172.83	8764.70	FOLEY RC
327	1384098.12	2267272.75	8779.80	FOLEY RC
328	1384200.35	2268857.24	8992.55	WILLIMANN RC
329	1384232.77	2268335.09	8861.93	APLS 38014 RC
330	1384249.70	2268964.61	8999.87	FOLEY RC
331	1384417.62	2267745.08	8748.63	R/C PLS 6726
332	1384479.86	2268492.70	8890.19	APLS 38014 RC
333	1384502.57	2268075.90	8839.13	OLD BAR
334	1384569.70	2268492.00	8881.58	APLS 38014 RC
335	1384598.00	2267268.24	8695.79	PROP COR FOLEY
336	1384630.97	2268844.32	8951.03	YSABEL COR1
337	1384699.01	2268811.95	8945.38	OLD BAR
338	1384707.94	2268325.15	8864.18	APLS 38014 RC
339	1384752.04	2268372.59	8873.77	OLD BAR
340	1384813.91	2268360.51	8875.67	REBAR
341	1384828.31	2268403.76	8878.48	6728 RC
342	1384918.21	2268573.24	8924.41	6728 RC
343	1385290.27	2267300.66	8803.72	APLS RC
344	1385344.03	2267409.88	8804.51	APLS RC
345	1385480.29	2267697.41	8769.36	REBAR
346	1383541.77	2267653.60	8812.30	R\C CO BLCK 14 FOLEY
347	1383541.27	2267648.94	8812.60	COLO DEPT OF TRAN CONTROL MONU.

TABLE 02: FOUND PROPERTY CORNERS AND MONUMENTS NOT WITHIN ANTICIPATED WORK AREA DISTURBANCE EXTENTS

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
101	1384446.34	2267194.23	-	NW SECTION CORNER S36, T40N, R11W
102	1379149.38	2267047.01	-	SW SECTION CORNER S36, T40N, R11W
201	1380744.06	2267279.78	8762.78	R/C
202	1380945.26	2267361.19	8775.44	FOLEY RC
203	1381087.27	2267166.59	8748.56	R/C
204	1381267.93	2267356.73	8773.15	R/C
205	1381497.07	2267456.16	8790.03	FOLEY RC
206	1381531.85	2267572.24	8799.95	FOLEY RC
207	1381904.12	2266269.07	8714.89	FOLEY RC
208	1382403.91	2267763.18	8808.43	OLD BAR
209	1382637.14	2266420.42	8753.74	FOLEY RC
210	1382938.17	2267374.33	8789.73	R/C
211	1383114.43	2267953.05	8826.09	OLD REBAR
212	1383364.52	2267951.26	8832.43	WILLIMAN RC
213	1383366.03	2268326.99	8866.33	RC L.S.38011
214	1383741.11	2267036.69	8735.70	R/C
215	1383741.64	2267651.87	8811.61	FOLEY RC
216	1384046.63	2268220.95	8843.15	FOLEY RC
217	1384252.05	2266838.08	8688.32	2" PIPE /PLATE RIVERSIDE M.S. 59
218	1384258.66	2268771.51	8977.03	R/C
219	1384328.58	2268605.95	8920.50	R/C
220	1384371.16	2267528.28	8779.05	BULSON RC
221	1384381.87	2267761.42	8753.96	?
222	1384399.20	2266578.31	8816.77	2" PIPE/PLATE RIVERSIDE MS 590 C
223	1384475.30	2269091.37	9056.90	ARGENTINE CAP
224	1384477.36	2269089.94	9056.23	USLM NO.1
225	1384584.58	2269399.99	9035.50	R/C
226	1384673.98	2266050.54	8832.53	IRON ROD
227	1384804.57	2268068.64	8824.40	IRON ROD
228	1384838.38	2267443.88	8755.10	OLD BAR

NOT FOR CONSTRUCTION

01 FOUND PROPERTY CORNERS AND MONUMENTS POINT LISTS (NOT FOR SURVEY CONTROL)

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

FOUND PROPERTY CORNERS AND MONUMENTS POINT LISTS

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: G-09
Date: 23-Oct-2025	
Scale: NONE	

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STRUCTURE TABLE

STRUCTURE NAME	INTERNAL DIMENSIONS	STRUCTURE DETAILS	DITCH INLET CONNECTION (TYPE)	SHEET REFERENCE
CB01-01	36x24 CONC. CATCH BASIN	RIM = 8905.00 SUMP = 8901.50 RIM TO SUMP = 3.5 FT. P01-02 INV IN = 8902.50 P01-03 INV OUT = 8902.50	Rectangular Structure Slab Top Rectangular Frame	DR1-202A
CB01-02	36x24 CONC. CATCH BASIN	RIM = 8906.90 SUMP = 8901.40 RIM TO SUMP = 5.5 FT. P01-03 INV IN = 8902.40 P01-04 INV OUT = 8902.40	Rectangular Structure Slab Top Rectangular Frame	DR1-202A
CB01-03	36x24 CONC. CATCH BASIN	RIM = 8903.20 SUMP = 8897.70 RIM TO SUMP = 5.5 FT. P01-04 INV IN = 8900.20 P01-05 INV OUT = 8898.70	Rectangular Structure Slab Top Rectangular Frame	DR1-202A
CB01-04	36x24 CONC. CATCH BASIN	RIM = 8884.63 SUMP = 8880.13 RIM TO SUMP = 4.5 FT. P01-05 INV IN = 8881.13 P01-06 INV OUT = 8881.13	Rectangular Structure Slab Top Rectangular Frame	DR1-202A
CB01-05	36x24 CONC. CATCH BASIN	RIM = 8882.19 SUMP = 8877.69 RIM TO SUMP = 4.5 FT. P01-06 INV IN = 8878.69 P01-07A INV OUT = 8878.69	Rectangular Structure Slab Top Rectangular Frame	DR1-202A
CB01-06	36x36 CONC. CATCH BASIN	RIM = 8878.71 SUMP = 8873.71 RIM TO SUMP = 5.0 FT. P01-07A INV IN = 8875.77 P01-07B INV OUT = 8874.17	Rectangular Structure Slab Top Rectangular Frame	DR1-202A
CB01-07	36x24 CONC. CATCH BASIN	RIM = 8878.63 SUMP = 8874.63 RIM TO SUMP = 4.0 FT. P01-08 INV OUT = 8875.63	Rectangular Structure Slab Top Rectangular Frame	DR1-203
CB01-08	36x24 CONC. CATCH BASIN	RIM = 8836.76 SUMP = 8833.26 RIM TO SUMP = 3.5 FT. P01-10 INV IN = 8833.82 P01-11 INV OUT = 8833.82	Rectangular Structure Slab Top Rectangular Frame	DR1-205
CB01-09	36x24 CONC. CATCH BASIN	RIM = 8826.57 SUMP = 8821.57 RIM TO SUMP = 5.0 FT. P01-13 INV OUT = 8822.57	24" x 36" CATCH BASIN	DR1-207
CB01-10	36x24 CONC. CATCH BASIN	RIM = 8817.23 SUMP = 8813.73 RIM TO SUMP = 3.5 FT. P01-14 INV OUT = 8814.73	Rectangular Structure Slab Top Rectangular Frame	DR1-208

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01 **NE RICO STRUCTURE SUMMARY**
SCALE - N.T.S

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General Notes

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

NE RICO STRUCTURE SUMMARY

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: SM1-01
Date: 23-Oct-2025	
Scale: N.T.S	

STRUCTURE TABLE

STRUCTURE NAME	INTERNAL DIMENSIONS	STRUCTURE DETAILS	DITCH INLET CONNECTION (TYPE)	SHEET REFERENCE
CB01-11	36x24 CONC. CATCH BASIN	RIM = 8817.90 SUMP = 8812.90 RIM TO SUMP = 5.0 FT. P01-14 INV IN = 8813.90 P01-13 INV IN = 8813.90 P01-15 INV OUT = 8813.90	Rectangular Structure Slab Top Rectangular Frame	DR1-207 & DR1-208
CB01-12	36x24 CONC. CATCH BASIN	RIM = 8817.49 SUMP = 8811.99 RIM TO SUMP = 5.5 FT. P01-15 INV IN = 8812.99 P01-16 INV OUT = 8812.99	Rectangular Structure Slab Top Rectangular Frame	DR1-208
CB01-13	36x24 CONC. CATCH BASIN	RIM = 8812.95 SUMP = 8808.95 RIM TO SUMP = 4.0 FT. P01-16 INV IN = 8809.95 P01-17 INV OUT = 8809.95	Rectangular Structure Slab Top Rectangular Frame	DR1-208
CB01-14	36x24 CONC. CATCH BASIN	RIM = 8810.75 SUMP = 8805.75 RIM TO SUMP = 5.0 FT. P01-18 INV OUT = 8806.75	Rectangular Structure Slab Top Rectangular Frame	DR1-209
CB01-15	36x24 CONC. CATCH BASIN	RIM = 8803.83 SUMP = 8799.83 RIM TO SUMP = 4.0 FT. P01-18 INV IN = 8800.83 P01-19 INV OUT = 8800.83	Rectangular Structure Slab Top Rectangular Frame	DR1-209
CB01-16	36x24 CONC. CATCH BASIN	RIM = 8799.91 SUMP = 8795.91 RIM TO SUMP = 4.0 FT. P01-19 INV IN = 8796.91 P01-20 INV OUT = 8796.91	Rectangular Structure Slab Top Rectangular Frame	DR1-209
CB01-17	36x24 CONC. CATCH BASIN	RIM = 8796.44 SUMP = 8792.94 RIM TO SUMP = 3.5 FT. P01-20 INV IN = 8793.50 P01-21 INV OUT = 8793.50	Rectangular Structure Slab Top Rectangular Frame	DR1-210
CB01-18	36x24 CONC. CATCH BASIN	RIM = 8793.78 SUMP = 8789.78 RIM TO SUMP = 4.0 FT. P01-21 INV IN = 8790.85 P01-22 INV OUT = 8790.85	Rectangular Structure Slab Top Rectangular Frame	DR1-210
CB01-19	36x36 CONC. CATCH BASIN	RIM = 8793.97 SUMP = 8789.47 RIM TO SUMP = 4.5 FT. P01-22 INV IN = 8790.47 P01-23 INV OUT = 8790.47	Rectangular Structure Slab Top Rectangular Frame	DR1-210 & DR1-211
CB01-20	36x24 CONC. CATCH BASIN	RIM = 8800.45 SUMP = 8796.95 RIM TO SUMP = 3.5 FT. P01-27 INV IN = 8797.95 P01-28 INV OUT = 8797.95	Rectangular Structure Slab Top Rectangular Frame	DR1-211

NOT FOR CONSTRUCTION
DRAFT

01 **NE RICO STRUCTURE SUMMARY**
SCALE - N.T.S

General Notes

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

NE RICO STRUCTURE SUMMARY

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	23-Oct-2025
Scale	N.T.S
Sheet	SM1-02

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PIPE TABLE				
	PIPE NAME	DIAMETER (IN)	LENGTH (FT)	SLOPE (%)	SHEET REFERENCE
1.	EXST 137 Van Winkle 12-IN. CULVERT	12.00	43.89	9.94%	DR1-06
2.	EXST GARFIELD-1 CULVERT	14.00	40.18	4.38%	DR1-202A
3.	EXST GARFIELD-2 CULVERT	14.00	38.55	10.41%	DR1-202A
4.	EXST GARFIELD-205 MILL RD CULVERT	10.00	9.69	6.72%	DR1-202A
5.	EXST MILL RD CULVERT	12.00	40.18	9.40%	DR1-206
6.	EXST VAN WINKLE OUTLET CULVERT	12.00	79.83	4.87%	DR1-202A
	P01-01	15.00	77.75	3.36%	DR1-201
	P01-02	15.00	50.58	5.71%	DR1-202A
	P01-03	15.00	58.07	0.17%	DR1-202A
	P01-04	15.00	42.06	5.25%	DR1-202A
	P01-05	15.00	87.53	20.49%	DR1-202A
	P01-06	15.00	29.00	8.45%	DR1-202A
	P01-07A	15.00	33.16	8.83%	DR1-202A
	P01-07B	15.00	18.93	9.21%	DR1-202A
	P01-08	15.00	36.13	1.04%	DR1-203
	P01-09	15.00	105.89	1.24%	DR1-204
	P01-10	15.00	20.25	3.37%	DR1-205
	P01-11	15.00	149.40	0.57%	DR1-205
	P01-12	15.00	45.00	8.05%	DR1-206
	P01-13	15.00	108.89	7.98%	DR1-207

PIPE TABLE				
PIPE NAME	DIAMETER (IN)	LENGTH (FT)	SLOPE (%)	SHEET REFERENCE
P01-14	15.00	54.72	1.52%	DR1-208
P01-15	15.00	62.30	1.47%	DR1-208
P01-16	15.00	164.25	1.85%	DR1-208
P01-17	15.00	27.80	2.97%	DR1-208
P01-18	15.00	77.80	7.63%	DR1-209
P01-19	15.00	46.64	8.43%	DR1-209
P01-20	15.00	66.04	5.17%	DR1-209
P01-21	15.00	75.86	3.50%	DR1-210
P01-22	15.00	73.19	0.51%	DR1-210
P01-23	18.00	57.87	0.50%	DR1-210
P01-24	15.00	34.38	7.97%	DR1-02
P01-25	15.00	33.79	6.50%	DR1-02
P01-26	15.00	85.10	6.46%	DR1-03
P01-27	15.00	63.00	6.54%	DR1-211
P01-28	15.00	25.66	1.02%	DR1-211
P01-29	15.00	32.24	7.78%	DR1-211

1. EXISTING 12" CULVERT TO BE CLEANED OUT AND EXTENDED 5 FEET AND CONNECTED TO CATCH BASIN CB01-02.
2. EXISTING 14" CULVERT TO BE CLEANED OUT AND EXTENDED WITH A 45° ELBOW AND CONNECTED TO CATCH BASING CB01-06.
3. EXISTING 14" CULVERT ACROSS GARFIELD ST. AT LOCATION OF NEW PIPE CULVERT P01-07A TO BE REMOVED.
4. EXISTING 10" CULVERT ACROSS GARFIELD ST. AT LOCATION OF NEW PIPE CULVERT P01-07B TO BE REMOVED.
5. EXISTING 12" CULVERT ON MILL ROAD STA 1136+85.6 TO BE REMOVED.
6. EXISTING 12" CULVERT ON VANWINKLE STA 0+64.49 TO BE REMOVED.

01 NE RICO PIPE SUMMARY
SCALE - N.T.S

DRAFT
NOT FOR CONSTRUCTION

General Notes

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

NE RICO PIPE SUMMARY

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: SM1-03
Date: 23-Oct-2025	
Scale: N.T.S	

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PIPE TABLE

	PIPE NAME	DIAMETER (IN)	LENGTH (FT)	SLOPE (%)	SHEET REFERENCE
1.	EXISTING CARTER WAY 2 CULVERT	12.00	43.77	9.18%	DR2-04
2.	EXISTING CARTER WAY 3 12in CULVERT	12.00	79.34	6.66%	DR2-04
3.	EXISTING CARTER WAY 16in CULVERT	16.00	20.84	-14.49%	DR2-04
4.	EXISTING CARTER WAY OUTLET	12.00	238.18	-4.72%	DR2-01A
5.	EXISTING COMMERCIAL ST. 12in CULVERT	12.00	52.38	4.09%	DR2-05A
6.	EXISTING MANTZ-ALLEY-2 12in CULVERT	12.00	30.56	4.35%	DR2-05A
7.	EXISTING SILVER ST 8in CULVERT	8.00	15.86	1.89%	DR2-04
7.	EXISTING SILVER ST 8in CULVERT2	8.00	38.08	4.13%	DR2-04
8.	EXISTING SILVER ST OUTLET 4in CULVERT	4.00	276.94	1.83%	DR2-01A
	P02-01	15.00	35.76	7.43%	DR2-202
	P02-02	15.00	50.65	6.32%	DR2-202

PIPE TABLE

PIPE NAME	DIAMETER (IN)	LENGTH (FT)	SLOPE (%)	SHEET REFERENCE
P02-03	15.00	117.61	6.41%	DR2-201
P02-05	15.00	26.63	6.54%	DR2-04
P02-06	15.00	51.24	6.04%	DR2-04
P02-07	15.00	8.21	24.39%	DR2-203
P02-08	15.00	34.35	5.01%	DR2-203
P02-09	15.00	20.06	0.69%	DR2-203
P02-10	15.00	80.87	4.18%	DR2-04
P02-11	15.00	37.54	1.28%	DR2-204
P02-12	15.00	16.52	3.00%	DR2-204
P02-13	15.00	19.78	1.17%	DR2-204

1. EXISTING 12" CULVERT ON CARTER WAY STA 282+93.5 TO STA 283+36.9 TO BE CLEANED OUT.
2. EXISTING 12" CULVERT ON CARTER WAY STA 284+19.4 TO STA 284+98.7 TO BE CLEANED OUT.
3. EXISTING 16" CULVERT ON CARTER WAY STA 282+01.4 TO STA 282+22.0 TO BE CLEANED OUT.
4. EXISTING 12" CULVERT ON CARTER WAY STA 285+11.5 TO STA 287+49.68 TO BE CLEANED OUT.
5. EXISTING 12" CULVERT NEAR THE INTERSECTION OF S COMMERCIAL ST. AND E MANTZ AVE. TO BE CLEANED OUT.
6. EXISTING 12" CULVERT NEAR THE INTERSECTION OF ALLEY WAY - 2 AND E MANTZ AVE TO BE CLEANED OUT.
7. REMOVE TWO 8" CULVERTS, THEN BACKFILL WITH CDOT CLASS 6 AGGREGATE COURSE TO GRADE. PLACE BASE COURSE IN 8". MAX LOOSE LIFTS AND COMPACT IN PLACE TO 95% MAXIMUM DRY DENSITY (STANDARD PROCTOR ASTM D-698 OR EQUIVALENT). STA 260+17.6 TO STA 260+01.1 (15.9') AND STA 259+93.4 TO STA 259+55.5 (38.1')
8. EXISTING 4" ALUMINUM IRRIGATION PIPE USED AS A CULVERT TO BE PLUGGED AND ABANDONED IN PLACE.
9. REMOVE 3-FT OF THE 4"ALUMINUM IRRIGATION PIPE USED AS A CULVERT AND PLUG THE END AND ABANDON IN PLACE.

STRUCTURE TABLE

STRUCTURE NAME	INTERNAL DIMENSIONS	STRUCTURE DETAILS	DITCH INLET CONNECTION (TYPE)	SHEET REFERENCE
CB02-01	36x24 CONC. CATCH BASIN	RIM = 8820.00 SUMP = 8816.50 RIM TO SUMP = 3.5 FT. P02-01 INV OUT = 8817.50	Rectangular Structure Slab Top Rectangular Frame	DR2-202
CB02-02	36x24 CONC. CATCH BASIN	RIM = 8817.85 SUMP = 8813.85 RIM TO SUMP = 4.0 FT. P02-01 INV IN = 8814.85 P02-02 INV OUT = 8814.85	Rectangular Structure Slab Top Rectangular Frame	DR2-202
CB02-03	36x24 CONC. CATCH BASIN	RIM = 8799.13 SUMP = 8795.13 RIM TO SUMP = 4.0 FT. P02-03 INV OUT = 8796.13	Rectangular Structure Slab Top Rectangular Frame	DR2-201
CB02-04	36x24 CONC. CATCH BASIN	RIM = 8820.06 SUMP = 8816.06 RIM TO SUMP = 4.0 FT. P02-07 INV IN = 8817.06 P02-08 INV OUT = 8817.06	Rectangular Structure Slab Top Rectangular Frame	DR2-203
CB02-05	36x24 CONC. CATCH BASIN	RIM = 8817.84 SUMP = 8814.34 RIM TO SUMP = 3.5 FT. P02-08 INV IN = 8815.34 P02-09 INV OUT = 8815.34	Rectangular Structure Slab Top Rectangular Frame	DR2-203
CB02-06	36x36 CONC. CATCH BASIN	RIM = 8812.94 SUMP = 8808.94 RIM TO SUMP = 4.0 FT. P02-11 INV OUT = 8809.94	Rectangular Structure Slab Top Rectangular Frame	DR2-204
CB02-07	36x36 CONC. CATCH BASIN	RIM = 8812.46 SUMP = 8808.46 RIM TO SUMP = 4.0 FT. P02-11 INV IN = 8809.46 P02-12 INV OUT = 8809.43	Rectangular Structure Slab Top Rectangular Frame	DR2-204
CB02-08	36x36 CONC. CATCH BASIN	RIM = 8812.43 SUMP = 8807.93 RIM TO SUMP = 4.5 FT. P02-12 INV IN = 8808.93 P02-13 INV OUT = 8808.93	Rectangular Structure Slab Top Rectangular Frame	DR2-204

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01 SE RICO STRUCTURE & PIPE SUMMARY
SCALE - N.T.S

General Notes

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

SE RICO STRUCTURE & PIPE SUMMARY

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: SM2-01
Date: 23-Oct-2025	
Scale: N.T.S	

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STRUCTURE TABLE

STRUCTURE NAME	INTERNAL DIMENSIONS	STRUCTURE DETAILS	DITCH INLET CONNECTION (TYPE)	SHEET REFERENCE
CB03-01	36x24 CONC. CATCH BASIN	RIM = 8790.67 SUMP = 8786.17 RIM TO SUMP = 4.5 FT. P03-01 INV OUT = 8787.17	Rectangular Structure Slab Top Rectangular Frame	DR3-201
CB03-02	36x36 CONC. CATCH BASIN	RIM = 8786.63 SUMP = 8782.63 RIM TO SUMP = 4.0 FT. P03-01 INV IN = 8783.63 P03-03 INV IN = 8783.63 P03-02 INV OUT = 8783.63	Rectangular Structure Slab Top Rectangular Frame	DR3-201
CB03-03	36x24 CONC. CATCH BASIN	RIM = 8786.82 SUMP = 8783.32 RIM TO SUMP = 3.5 FT. P03-03 INV OUT = 8784.32	Rectangular Structure Slab Top Rectangular Frame	DR3-201
CB03-04	36x24 CONC. CATCH BASIN	RIM = 8771.60 SUMP = 8768.10 RIM TO SUMP = 3.5 FT. P03-04 INV OUT = 8769.10	Rectangular Structure Slab Top Rectangular Frame	DR3-202
CB03-05	36x36 CONC. CATCH BASIN	RIM = 8766.75 SUMP = 8762.75 RIM TO SUMP = 4.0 FT. P03-05 INV OUT = 8763.75	Rectangular Structure Slab Top Rectangular Frame	DR3-203
CB03-06	36x24 CONC. CATCH BASIN	RIM = 8744.33 SUMP = 8739.38 RIM TO SUMP = 5.0 FT. P03-11 INV IN = 8741.38 P03-12 INV OUT = 8740.38	Rectangular Structure Slab Top Rectangular Frame	DR3-206

PIPE TABLE

	PIPE NAME	DIAMETER (IN)	LENGTH (FT)	SLOPE (%)	SHEET REFERENCE
1.	EXISTING HANCOCK-1 12 IN HDPE	12.00	18.00	2.70%	DR3-05
2.	EXISTING HANCOCK-2 12 IN HDPE	12.00	20.03	5.00%	DR3-05
3.	EXISTING SODA-1 12-IN CMP	12.00	62.16	4.93%	DR3-01A
4.	EXISTING SODA-2 12-IN CMP	12.00	29.82	3.66%	DR3-01A & DR3-05
5.	EXST HANCOCK ST & SODA ST PIPE	14.00	40.30	12.40%	DR3-206
6.	EXST KING ST OUTLET PIPE	8.00	34.27	2.39%	DR3-202
	P03-01	15.00	66.00	5.36%	DR3-201
	P03-02	15.00	50.09	1.42%	DR3-201
	P03-03	15.00	41.44	1.65%	DR3-201
	P03-04	15.00	34.27	2.39%	DR3-202
	P03-05	15.00	106.96	2.72%	DR3-203
	P03-06	18.00	42.02	2.16%	DR3-204
	P03-07	15.00	23.10	5.04%	DR3-07
	P03-08	15.00	28.38	6.69%	DR3-09
	P03-10	15.00	25.03	40.40%	DR3-08
	P03-11	15.00	40.43	13.36%	DR3-206
	P03-12	15.00	63.38	2.88%	DR3-206

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General Notes

1. EXISTING 12" CULVERT ON N HANCOCK ST FROM STA 371+24 TO STA 371+48.9 TO BE CLEANED OUT.
2. EXISTING 12" CULVERT ON N HANCOCK ST FROM STA 370+18.1 TO STA 370+38.1 TO BE CLEANED OUT.
3. EXISTING 12" CULVERT ON W SODA ST STA 1332+36.2 TO STA 1332+98.3 TO BE CLEANED OUT.
4. EXISTING 12" CULVERT ON W SODA ST STA 1334+09.0 TO STA 1334+38.8 TO BE CLEANED OUT.
5. EXISTING 14" CULVERT ACROSS HANCOCK ST TO BE REMOVED AT NEW PIPE P03-11 LOCATION.
6. EXISTING KING ST OUTLET PIPE CULVERT (VISUALLY ASSUMED 8-INCH PVC PIPE) TO BE REMOVED AND REPLACED WITH NEW PIPE P03-04.

01 **W RICO STRUCTURE & PIPE SUMMARY**
SCALE - N.T.S

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

W RICO STRUCTURE & PIPE SUMMARY

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: SM3-01
Date: 23-Oct-2025	
Scale: N.T.S	

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PIPE TABLE

	PIPE NAME	DIAMETER (IN)	LENGTH (FT)	SLOPE (%)	SHEET REFERENCE
1.	EXISTING HIGHWAY	24.00	52.30	3.39%	DR4-03
2.	EXISTING SILVERGLANCE	36.00	119.62	4.68%	DR4-02
3.	EXISTING SILVERGLANCE AT GLASGOW	18.00	59.19	2.03%	DR4-01
	P04-01	15.00	47.08	5.57%	DR4-02
	P04-02	15.00	28.10	6.12%	DR4-02
	P04-03	15.00	27.71	5.42%	DR4-02

1. EXISTING 24" CULVERT ON HIGHWAY TO BE CLEANED OUT.
2. EXISTING 36" CULVERT TO BE CLEANED OUT AND RESTORED.
3. EXISTING 18" CULVERT TO HAVE THE FLOW LINE TIED INTO IT.

01 SILVERGLANCE PIPE SUMMARY
SCALE - N.T.S

STRUCTURE TABLE

STRUCTURE NAME	INTERNAL DIMENSIONS	STRUCTURE DETAILS	DITCH INLET CONNECTION (TYPE)	SHEET REFERENCE
CB05-01	36x24 CONC. CATCH BASIN	RIM = 8722.41 SUMP = 8717.91 RIM TO SUMP = 4.5 FT. P05-02 INV OUT = 8718.91	ROADSIDE FLOW	DR5-201
CB05-02	36x24 CONC. CATCH BASIN	RIM = 8722.01 SUMP = 8717.51 RIM TO SUMP = 4.5 FT. P05-02 INV IN = 8718.51 P05-03 INV OUT = 8718.51	TYPE 6 DITCH GRATE AND SIDE FLOW	DR5-201
CB05-03	36x24 CONC. CATCH BASIN	RIM = 8718.81 SUMP = 8715.35 RIM TO SUMP = 3.5 FT. P05-03 INV IN = 8716.35 P05-04 INV OUT = 8716.36	NONE	DR5-201
CB05-04	36x24 CONC. CATCH BASIN	RIM = 8721.00 SUMP = 8715.00 RIM TO SUMP = 6.0 FT. P05-04 INV IN = 8716.08 P05-05 INV OUT = 8716.08	NONE	DR5-201

PIPE TABLE

PIPE NAME	DIAMETER (IN)	LENGTH (FT)	SLOPE (%)	SHEET REFERENCE
P05-01	15.00	52.58	5.10%	DR5-01
P05-02	15.00	28.09	1.42%	DR5-201
P05-03	15.00	45.79	4.70%	DR5-201
P05-04	15.00	39.81	0.70%	DR5-201
P05-05	15.00	175.31	0.71%	DR5-201

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NOT FOR CONSTRUCTION

02 EDER STRUCTURE & PIPE SUMMARY
SCALE - N.T.S

PIPE TABLE

	PIPE NAME	DIAMETER (IN)	LENGTH (FT)	SLOPE (%)	SHEET REFERENCE
1.	EXISTING ROAD 54.7	18.00	57.22	-14.76%	DR6-02

1. EXISTING 18" CULVERT ON ROAD 54.7 TO BE CLEANED OUT.

03 PIEDMONT PIPE SUMMARY
SCALE - N.T.S

General Notes

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)
SILVERGLANCE, EDER & PIEDMONT STRUCTURE & PIPE SUMMARY

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: SM4-01
Date: 23-Oct-2025	
Scale: N.T.S	

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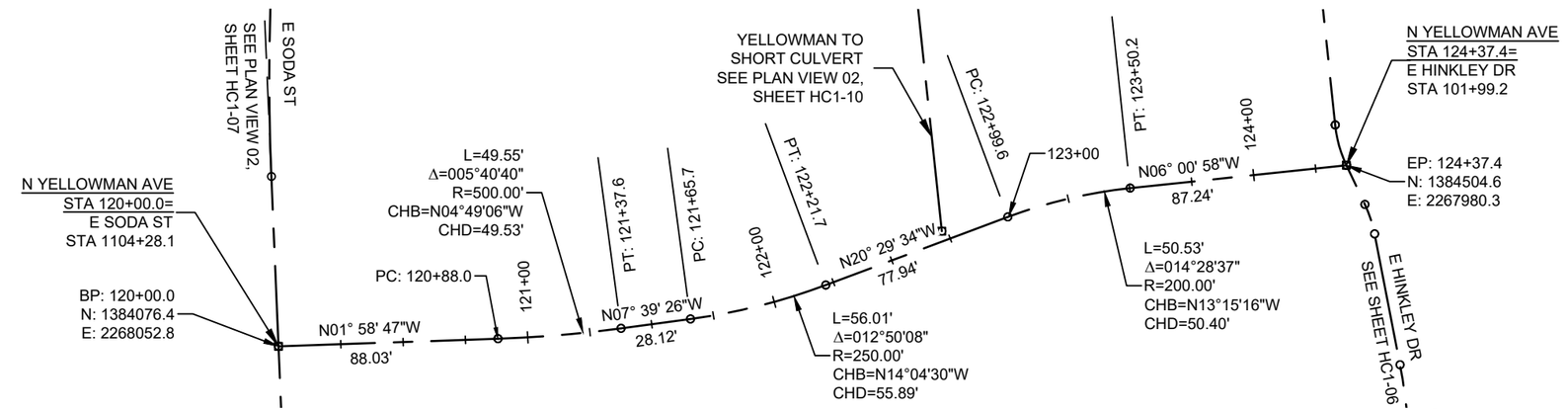
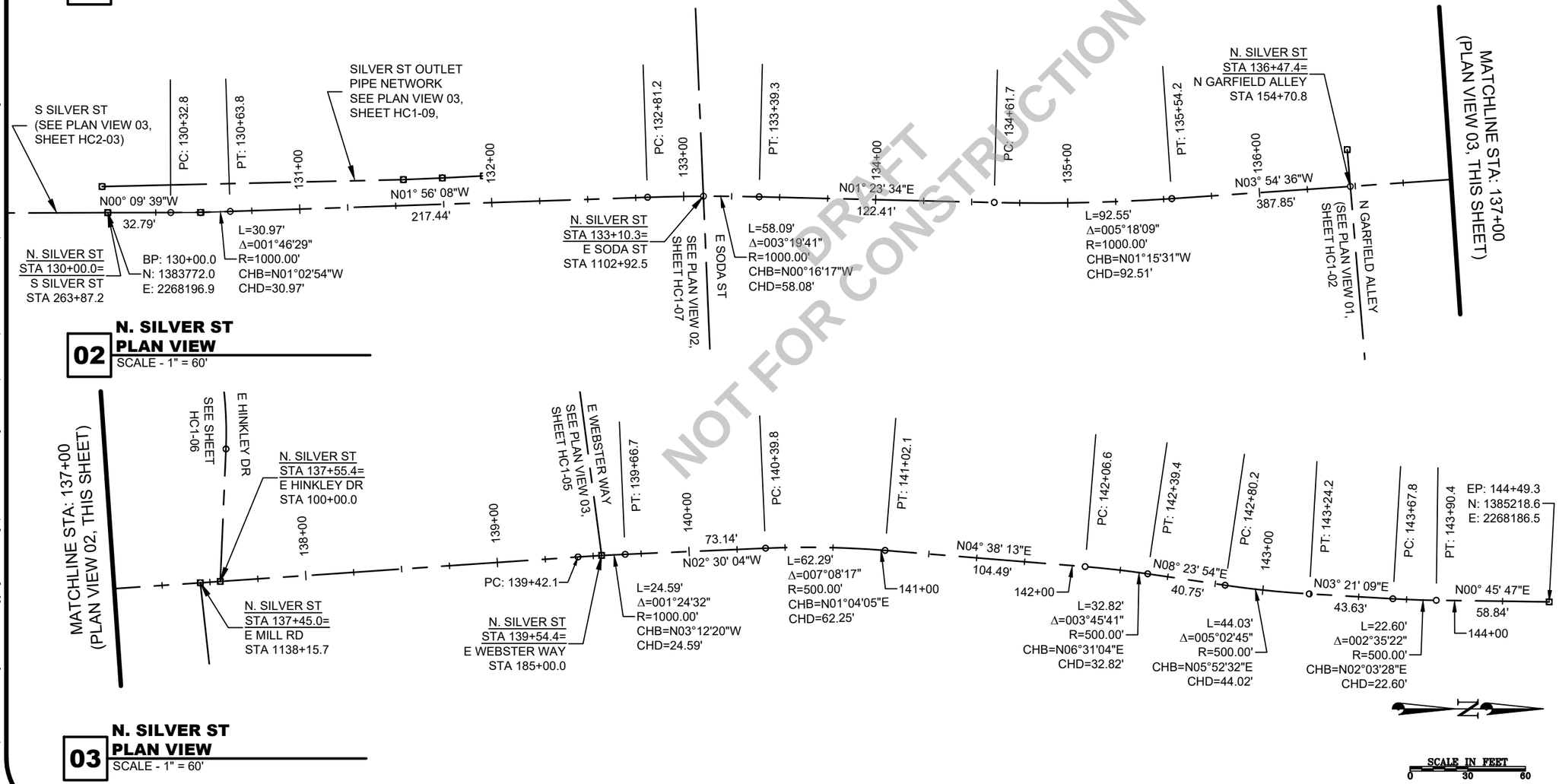


01 N YELLOWMAN AVE PLAN VIEW
SCALE - 1" = 60'



02 N. SILVER ST PLAN VIEW
SCALE - 1" = 60'

03 N. SILVER ST PLAN VIEW
SCALE - 1" = 60'

SCALE IN FEET
0 30 60

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General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL
YELLOWMAN AVE & SILVER ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	10-Sep-2025
Scale	1" = 60'
Sheet	HC1-01

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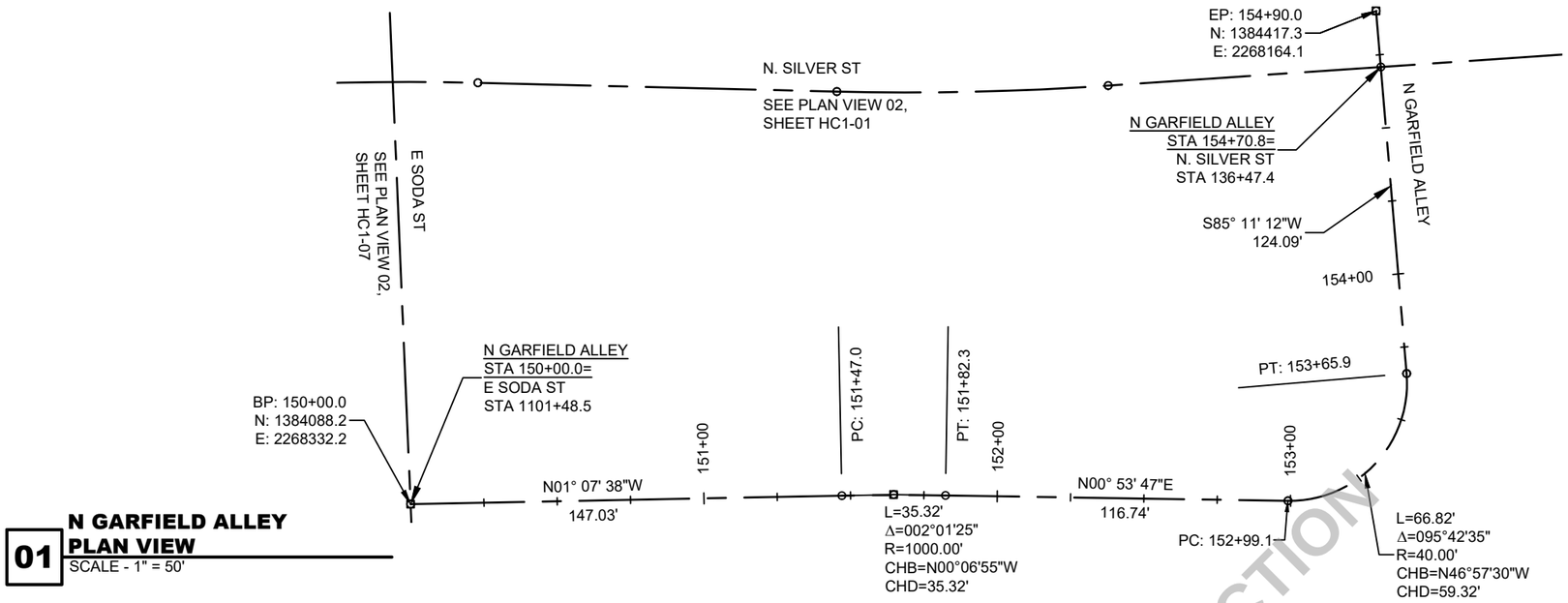
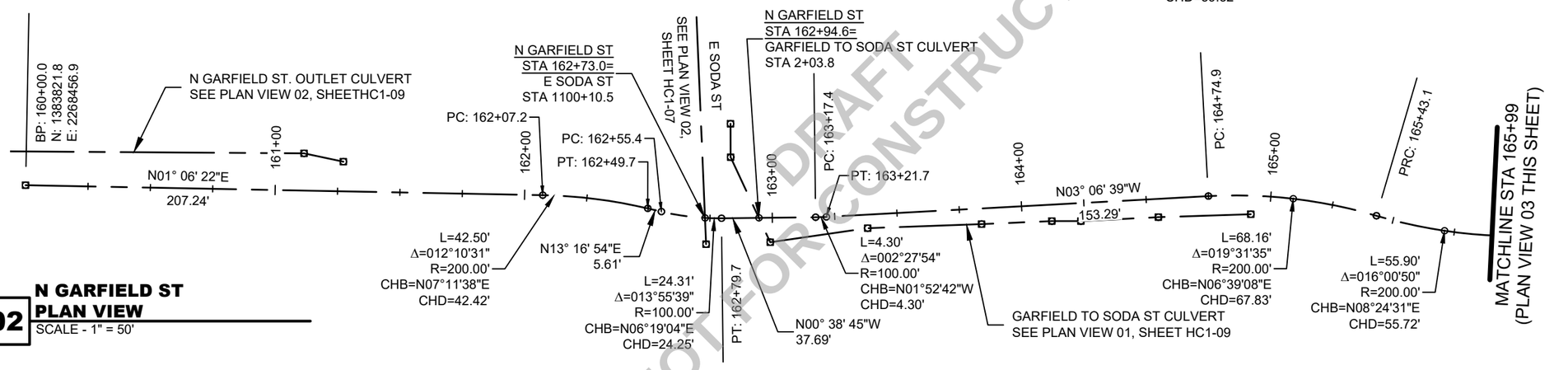
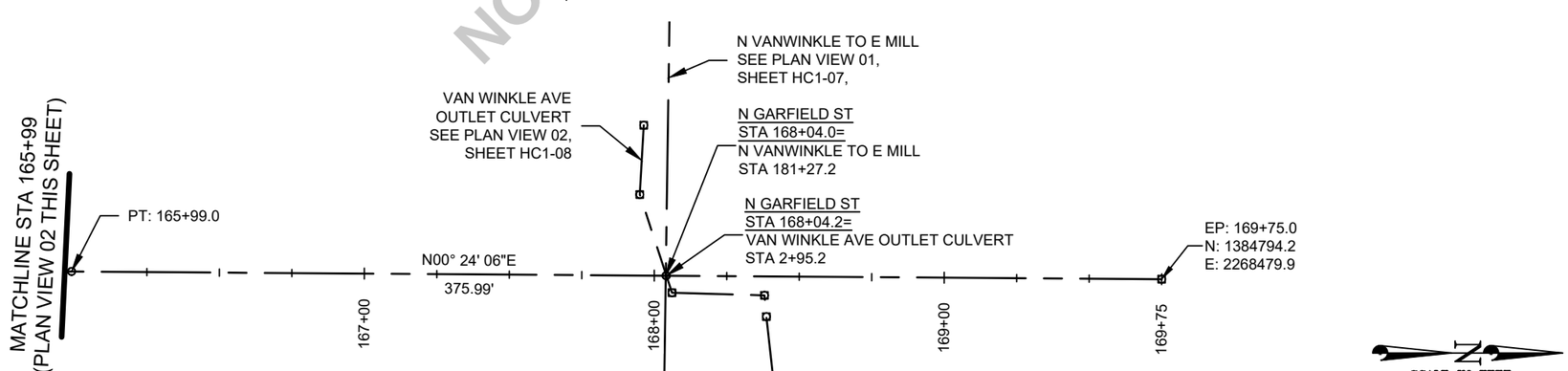


01 N GARFIELD ALLEY PLAN VIEW
SCALE - 1" = 50'



02 N GARFIELD ST PLAN VIEW
SCALE - 1" = 50'



03 N GARFIELD ST PLAN VIEW
SCALE - 1" = 50'

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General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL
GARFIELD ST & ALLEY

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO	Sheet
Date	10-Sep-2025	HC1-02
Scale	1" = 50'	

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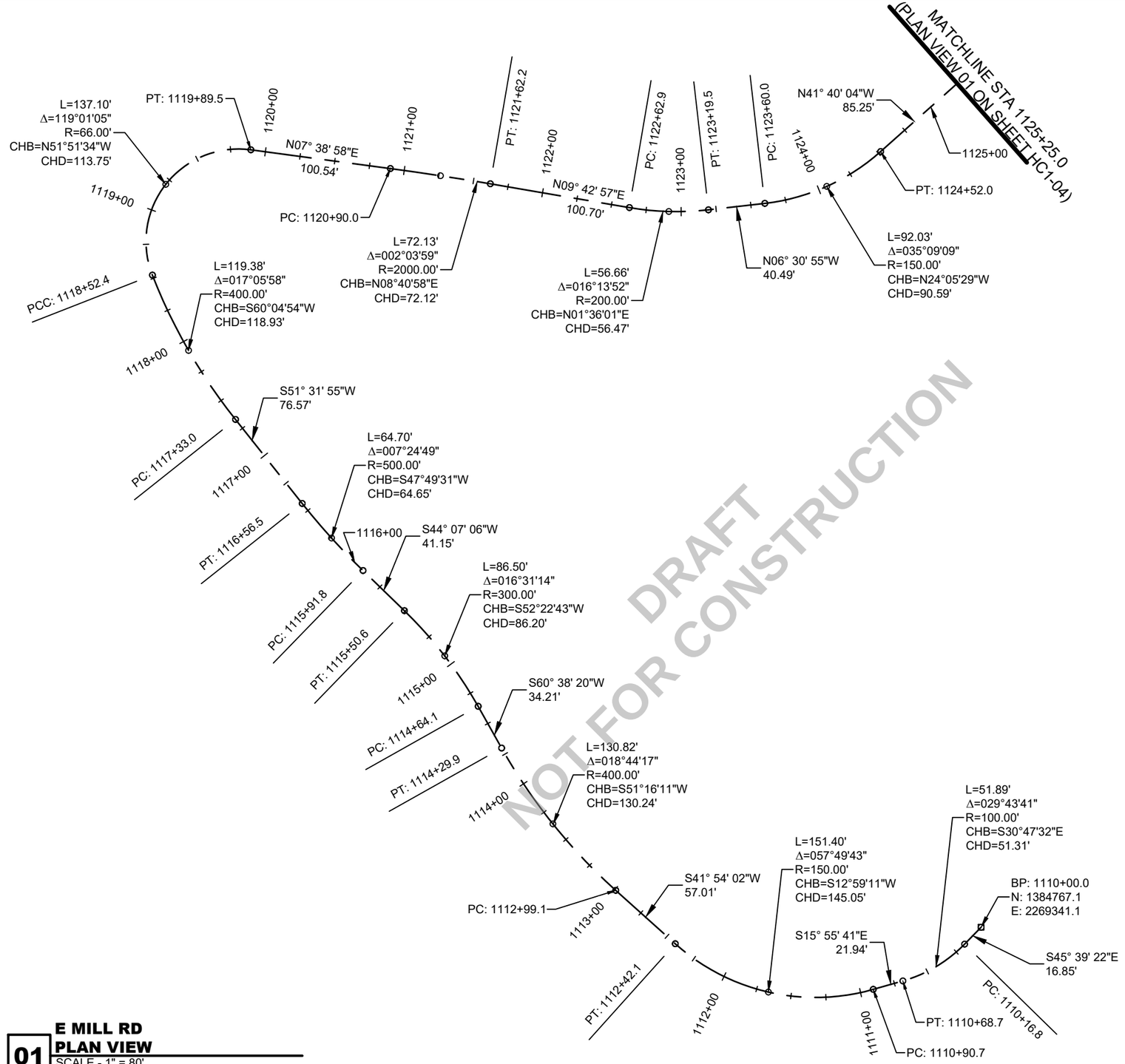

01 E MILL RD PLAN VIEW
SCALE - 1" = 80'

SCALE IN FEET
0 40 80

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL MILL RD

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	Sheet
RICO	HC1-03
Date: 10-Sep-2025	
Scale: 1" = 80'	

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E WEBSTER WAY
SEE PLAN VIEW 03, SHEET HC1-05

E HINKLEY DR
SEE SHEET HC1-06

N. SILVER ST
SEE PLAN VIEW 02 & 03, SHEET HC1-01

E MILL RD
STA 1138+15.7=
N. SILVER ST
STA 137+45.0

EP: 1138+15.7
N: 1384516.3
E: 2268176.6

1138+00

S83° 43' 49"W
73.33'

MILL RD TO SILVER ST CULVERT
SEE PLAN VIEW 01, SHEET HC1-10

PT: 1137+42.4

L=84.35'
Δ=069°02'16"
R=70.00'
CHB=S49°12'41"W
CHD=79.33'

E MILL RD
STA 1137+13.4=
MILL RD TO SILVER ST CULVERT
STA 0+58.6

1137+00

E MILL RD
STA 1136+06.7=
N VANWINKLE TO E MILL
STA 182+81.9

PC: 1136+58.1

1136+00

1135+00

244.72'
S14° 41' 34"W

L=47.70'
Δ=009°06'39"
R=300.00'
CHB=S10°08'14"W
CHD=47.65'

PT: 1134+13.3

1134+00

PC: 1133+65.6

1133+00

257.14'
S05° 34' 54"W

1132+00

PT: 1131+08.5

1131+00

N VANWINKLE TO E MILL
SEE SHEET HC1-07

PC: 1129+92.8

1130+00

L=115.65'
Δ=161°36'48"
R=41.00'
CHB=S86°23'18"W
CHD=80.95'

N GARFIELD ST
SEE PLAN VIEWS 02 & 03, SHEET HC1-02

PT: 1128+82.6

1129+00

N12° 48' 18"W
110.22'

1128+00

VAN WINKLE AVE OUTLET CULVERT
SEE PLAN VIEW 02, SHEET HC1-08

L=225.17'
Δ=046°04'33"
R=280.00'
CHB=N35°50'34"W
CHD=219.15'

N VANWINKLE AVE
SEE PLAN VIEWS 01 & 02, SHEET HC1-02

1127+00

PRC: 1126+57.5

E MILL RD
STA 1126+97.3=
N VANWINKLE AVE
STA 177+98.6

1126+00

PC: 1125+37.3

L=120.17'
Δ=017°12'47"
R=400.00'
CHB=N50°16'27"W
CHD=119.72'

MATCHLINE STA 1125+25.0
(PLAN VIEW 01 ON SHEET HC1-03)

01 E MILL RD PLAN VIEW
SCALE - 1" = 80'

DRAFT
NOT FOR CONSTRUCTION

N

SCALE IN FEET
0 40 80

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General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL MILL RD

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC1-04
Date: 10-Sep-2025	
Scale: 1" = 80'	

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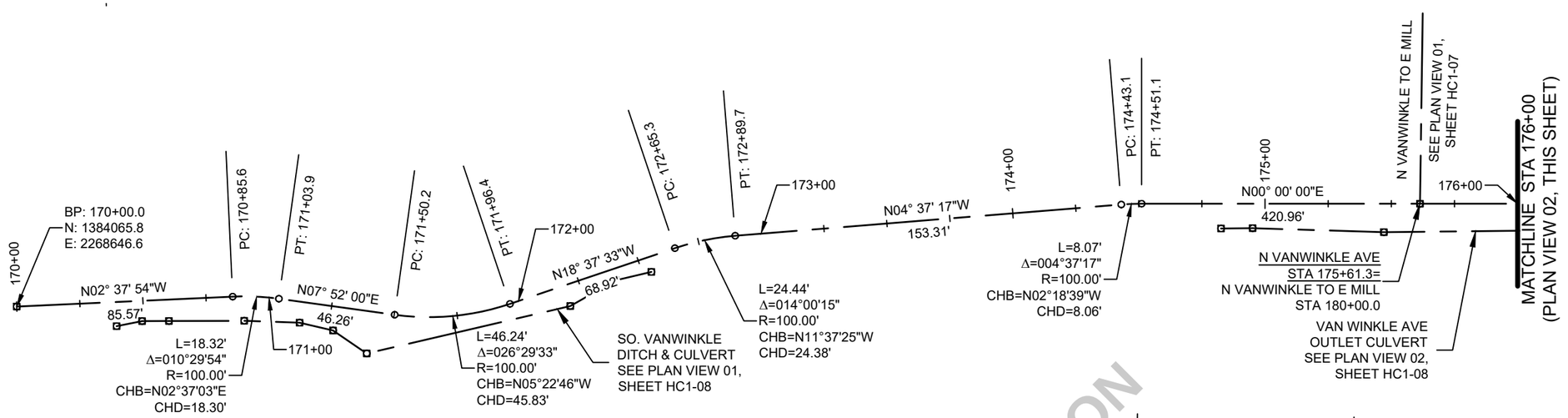
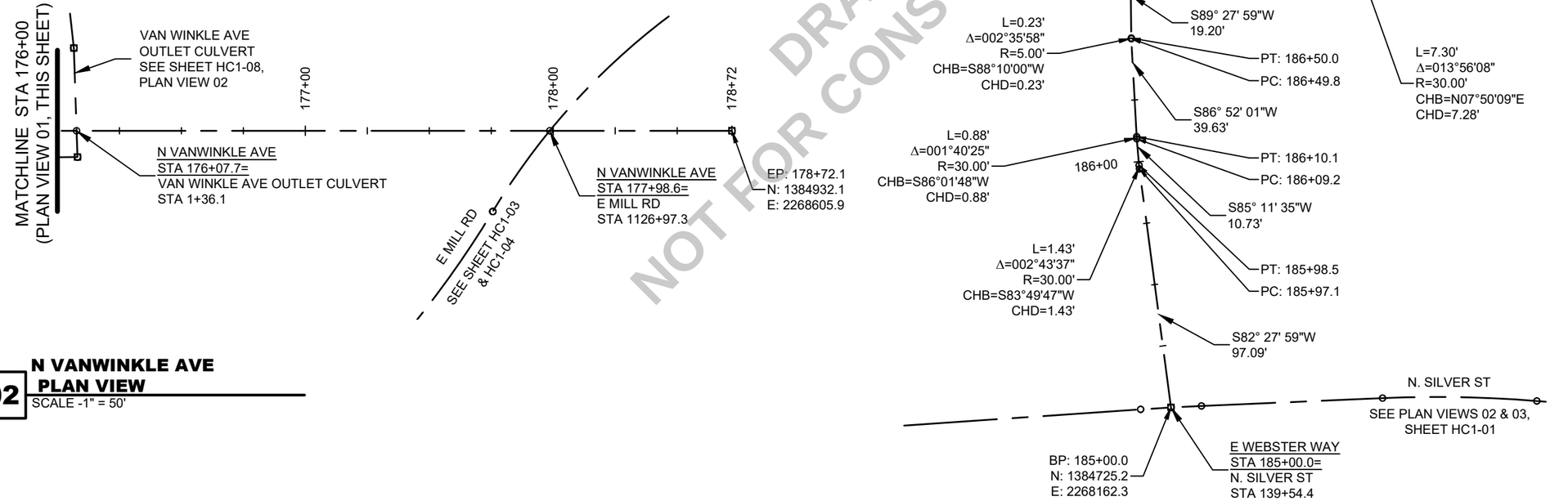


01 N VANWINKLE AVE PLAN VIEW

SCALE - 1" = 50'



02 N VANWINKLE AVE PLAN VIEW

SCALE -1" = 50'

03 E WEBSTER WAY PLAN VIEW

SCALE - 1" = 50'

DRAFT
NOT FOR CONSTRUCTION

SCALE IN FEET
0 25 50

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

HORIZONTAL CONTROL
VANWINKLE AVE, & WEBSTER WAY

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC1-05
Date: 10-Sep-2025	
Scale: 1" = 50'	

T:\BP--Rico VCUP_Unpaved Streets Capping and Drainage\6.0 Stormwater Management Plan\Production\STORM DRAIN CONTROL\T--NE STORM DRAIN CONTROL.dwg

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L=71.96'
Δ=032°59'10"
R=125.00'
CHB=S67°30'45"W
CHD=70.97'

PT: 104+18.6

PC: 104+62.5

43.90'
S51° 01' 10"W

104+00

L=204.16'
Δ=046°47'24"
R=250.00'
CHB=S27°37'27"W
CHD=198.53'

105+00

HINKLEY DR PIPE NETWORK
SEE PLAN VIEW 02, SHEET HC1-11

106+00

PT: 106+66.7

107+00

163.34'
S04° 13' 45"W

E HINKLEY DR
STA 107+96.1=
E SODA ST
STA 1108+54.3

SODA ST. OUTLET PIPE NETWORK
SEE PLAN VIEW 03, SHEET HC1-11

108+00

108+30

EP: 108+30.0
N: 1384092.9
E: 2267630.4

PC: 103+46.6

E HINKLEY DR
STA 103+05.5=
N SHORT ST
STA 114+20.2

103+00

130.61'
S84° 00' 20"W

L=16.84
Δ=019°17'35"
R=50.00'
CHB=S74°21'32"W
CHD=16.76'

102+00

PT: 102+16.0

E HINKLEY DR
STA 101+99.2=
N YELLOWMAN AVE
STA 124+37.4

L=12.45'
Δ=014°16'03"
R=50.00'
CHB=S71°50'46"W
CHD=12.42'

PC: 101+99.2

S64° 42' 44"W
17.33'

PT: 101+81.9

53.41'
S78° 58' 47"W

PC: 101+69.4

L=46.98'
Δ=013°27'32"
R=200.00'
CHB=S85°42'33"W
CHD=46.87'

101+00

PT: 101+16.0

BP: 100+00.0
N: 1384526.7
E: 2268175.8

69.01'
N87° 33' 41"W

PC: 100+69.0

E HINKLEY DR
STA 100+00.0=
N. SILVER ST
STA 137+55.4

100+00

E MILL RD
SEE SHEETS
HC1-03 & HC1-04

N GARFIELD ALLEY
(SEE PLAN VIEW 01,
SHEET HC1-02

N SHORT ST
SEE PLAN VIEW 03,
SHEET HC1-07

YELLOWMAN TO
SHORT CULVERT
SEE PLAN VIEW 02,
SHEET HC1-10

N YELLOWMAN AVE
SEE PLAN VIEW 01,
SHEET HC1-01

N. SILVER ST
SEE PLAN VIEWS 02 & 03,
SHEET HC1-01

E SODA ST
SEE PLAN VIEW 02,
SHEET HC1-07

DRAFT
NOT FOR CONSTRUCTION

N

SCALE IN FEET
0 30 60

01 E HINKLEY DR PLAN VIEW
SCALE - 1" = 60'

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\STORM DRAIN CONTROL\1-NE STORM DRAIN CONTROL.dwg

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

HORIZONTAL CONTROL
HINKLEY DR

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC1-06
Date: 10-Sep-2025	
Scale: 1" = 60'	

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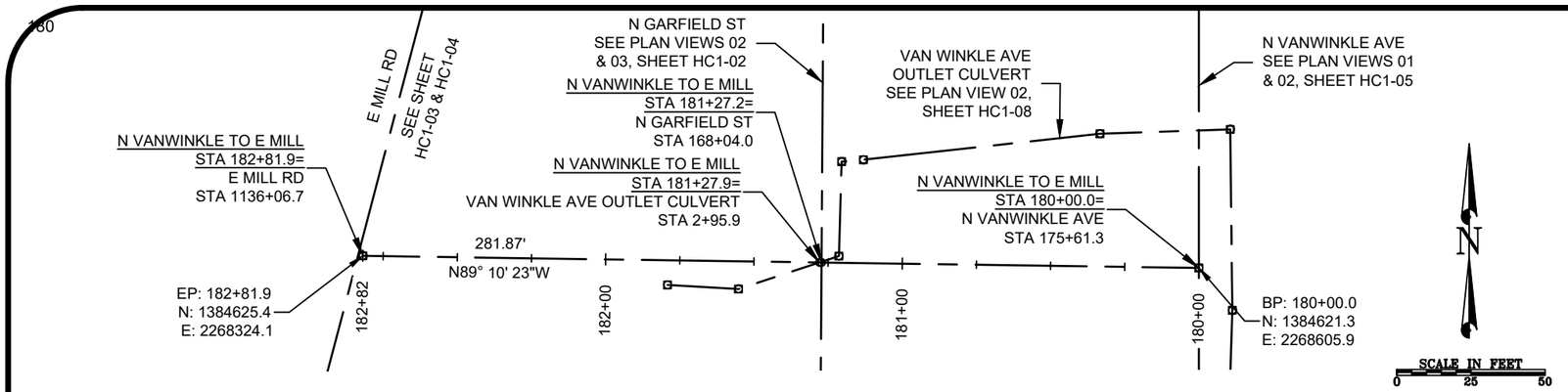
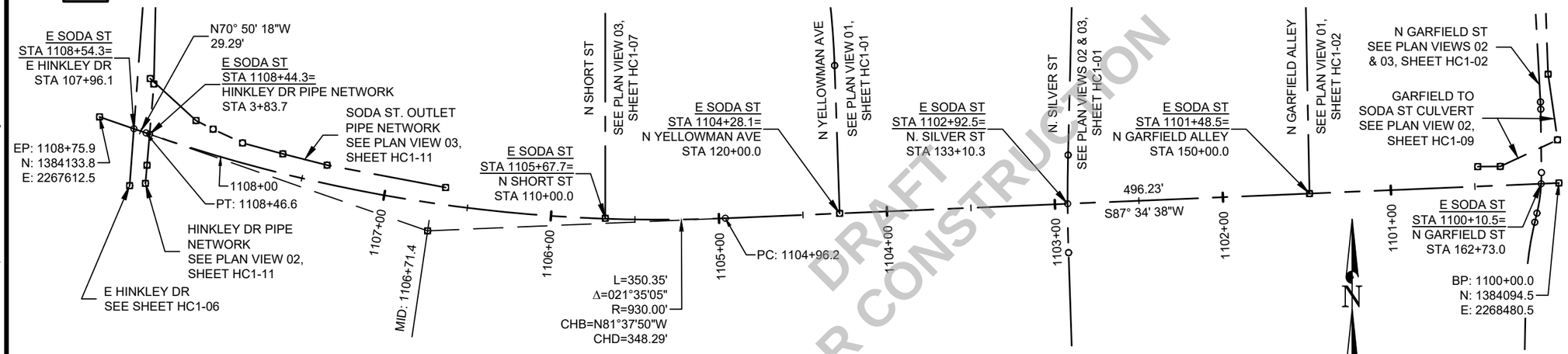


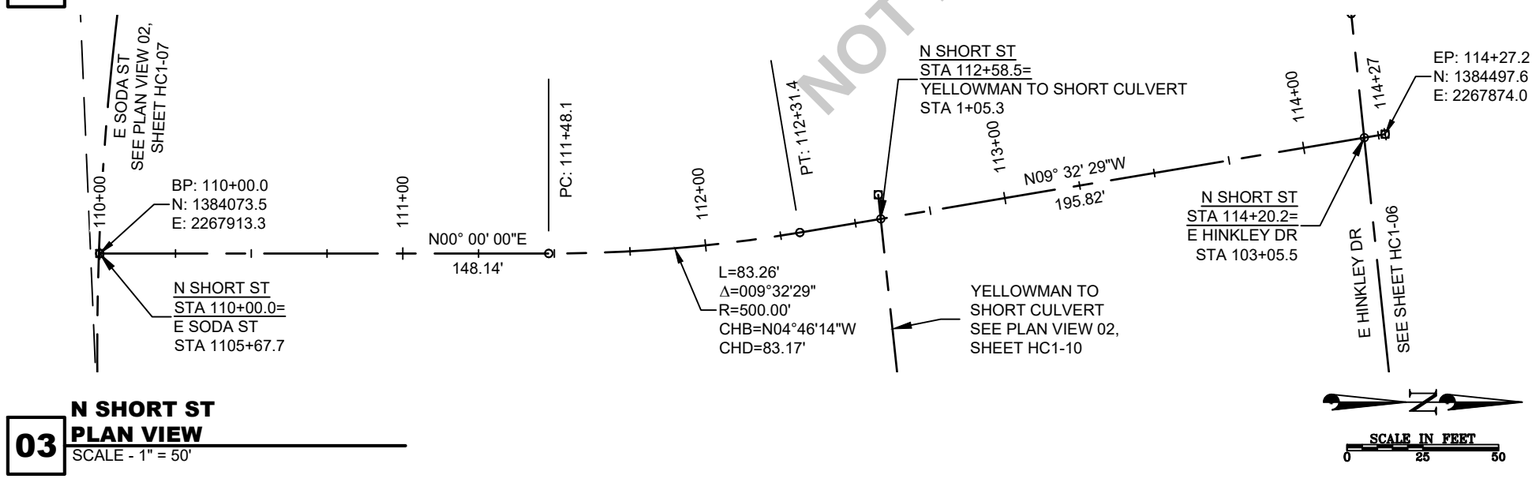
01 N VANWINKLE TO E MILL PLAN VIEW

SCALE - 1" = 50'



02 E SODA ST PLAN VIEW

SCALE - 1" = 70'



03 N SHORT ST PLAN VIEW

SCALE - 1" = 50'

DRAFT
NOT FOR CONSTRUCTION

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General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL VANWINKLE AVE, SODA, & SHORT ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	10-Sep-2025
Scale	AS SHOWN
Sheet	HC1-07

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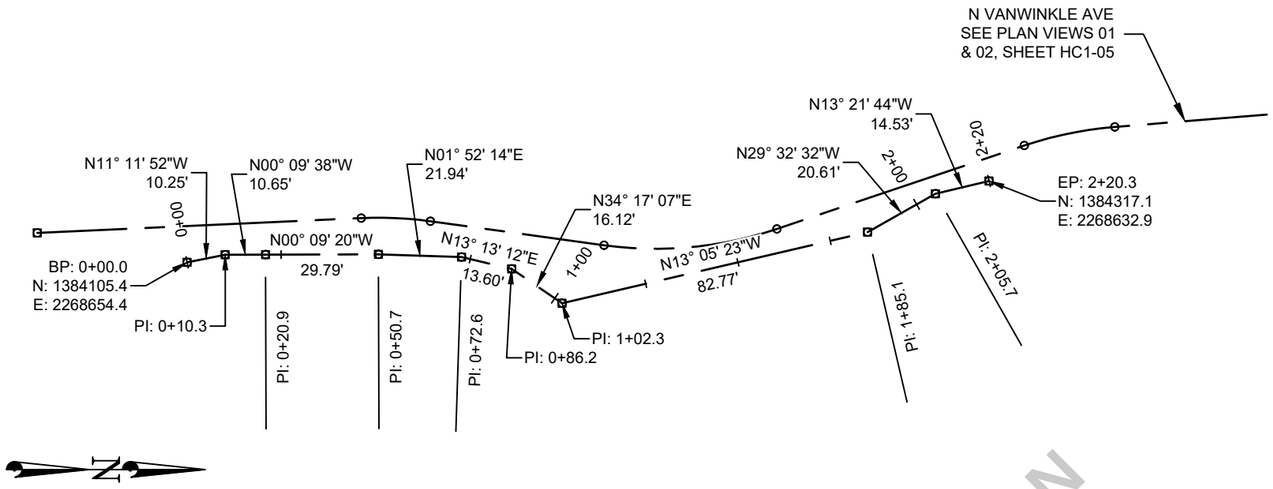
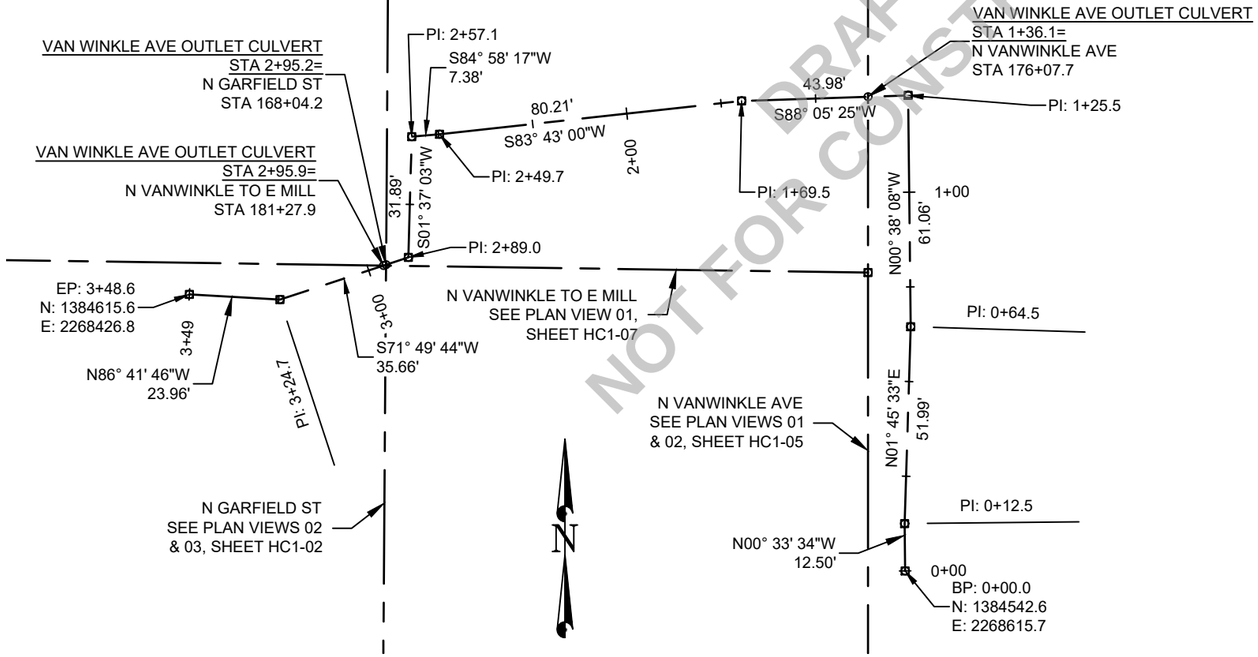


01 SO. VANWINKLE DITCH & CULVERT PLAN VIEW

SCALE - 1" = 40'



02 VAN WINKLE AVE OUTLET CULVERT PLAN VIEW

SCALE - 1" = 40'

SCALE IN FEET
0 20 40

DRAFT
NOT FOR CONSTRUCTION

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL SO. VANWINKLE DITCH & AVE. OUTLET CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	08-Aug-2025
Scale	1" = 40'
Sheet	HC1-08

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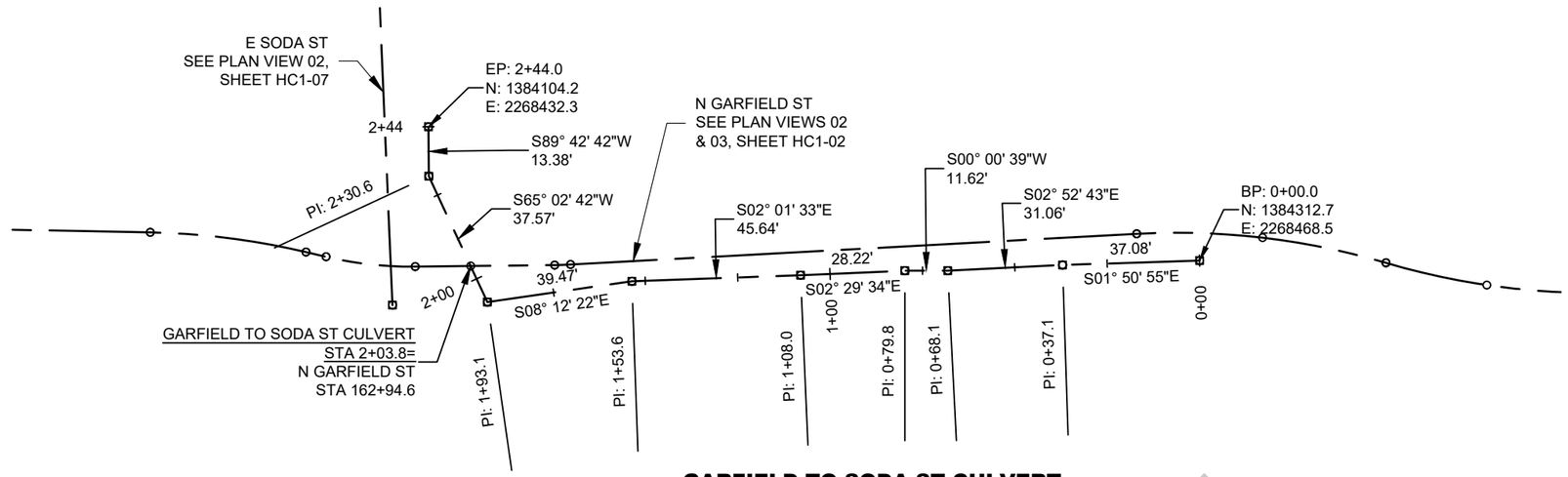
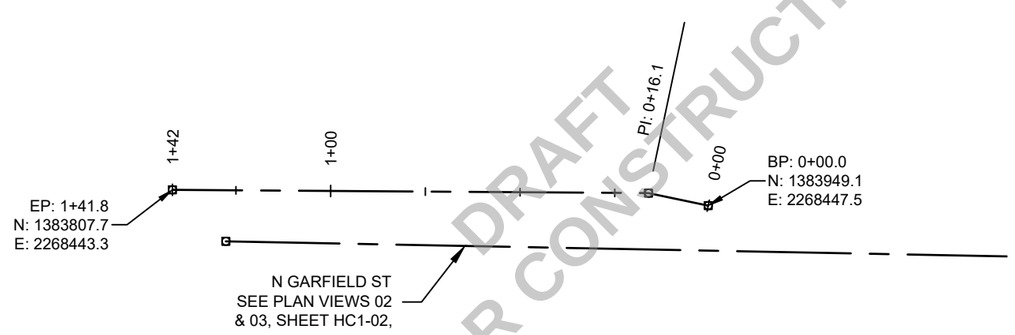
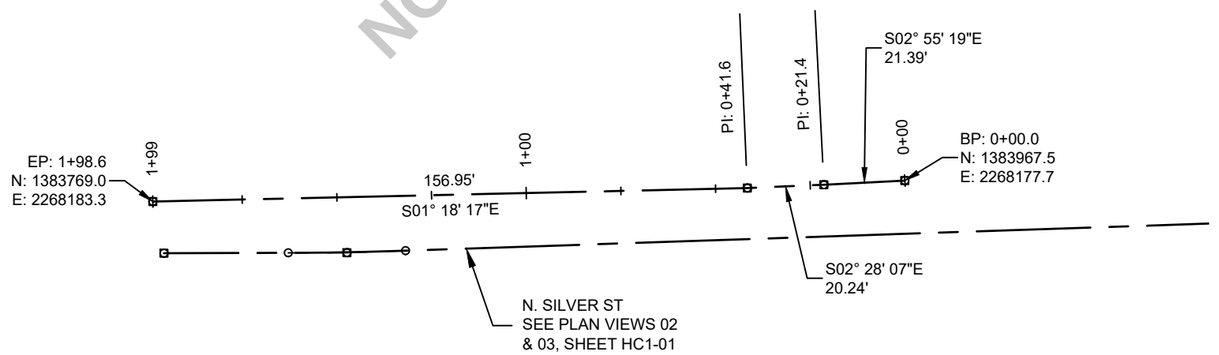


01 **GARFIELD TO SODA ST CULVERT PLAN VIEW**
SCALE - 1" = 40'



02 **N GARFIELD ST. OUTLET CULVERT PLAN VIEW**
SCALE - 1" = 40'



03 **SILVER ST OUTLET PIPE NETWORK PLAN VIEW**
SCALE - 1" = 40'

DRAFT
NOT FOR CONSTRUCTION

SCALE IN FEET
0 20 40

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL GARFIELD ST. & SIVLER ST. OUTLET CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC1-09
Date: 08-Aug-2025	
Scale: 1" = 40'	

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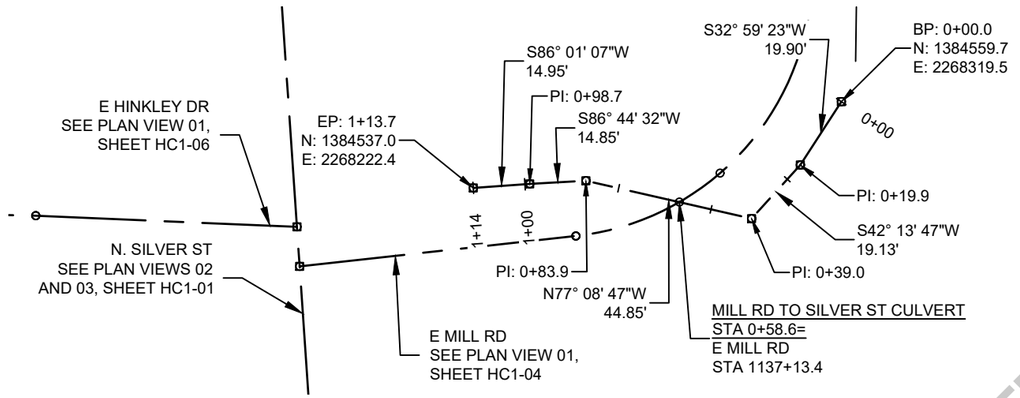
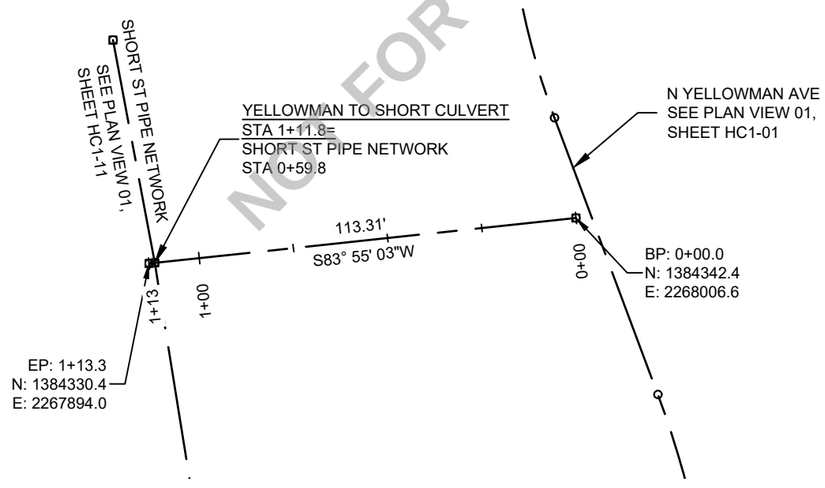
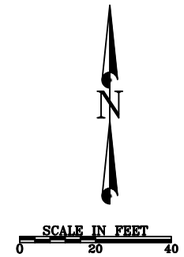


01 MILL RD TO SILVER ST CULVERT PLAN VIEW
SCALE - 1" = 40'



02 YELLOWMAN TO SHORT CULVERT PLAN VIEW
SCALE - 1" = 40'

DRAFT
NOT FOR CONSTRUCTION



General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL MILL RD TO SILVER ST & YELLOWMEN TO SHORT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC1-10
Date: 08-Aug-2025	
Scale: 1" = 40'	

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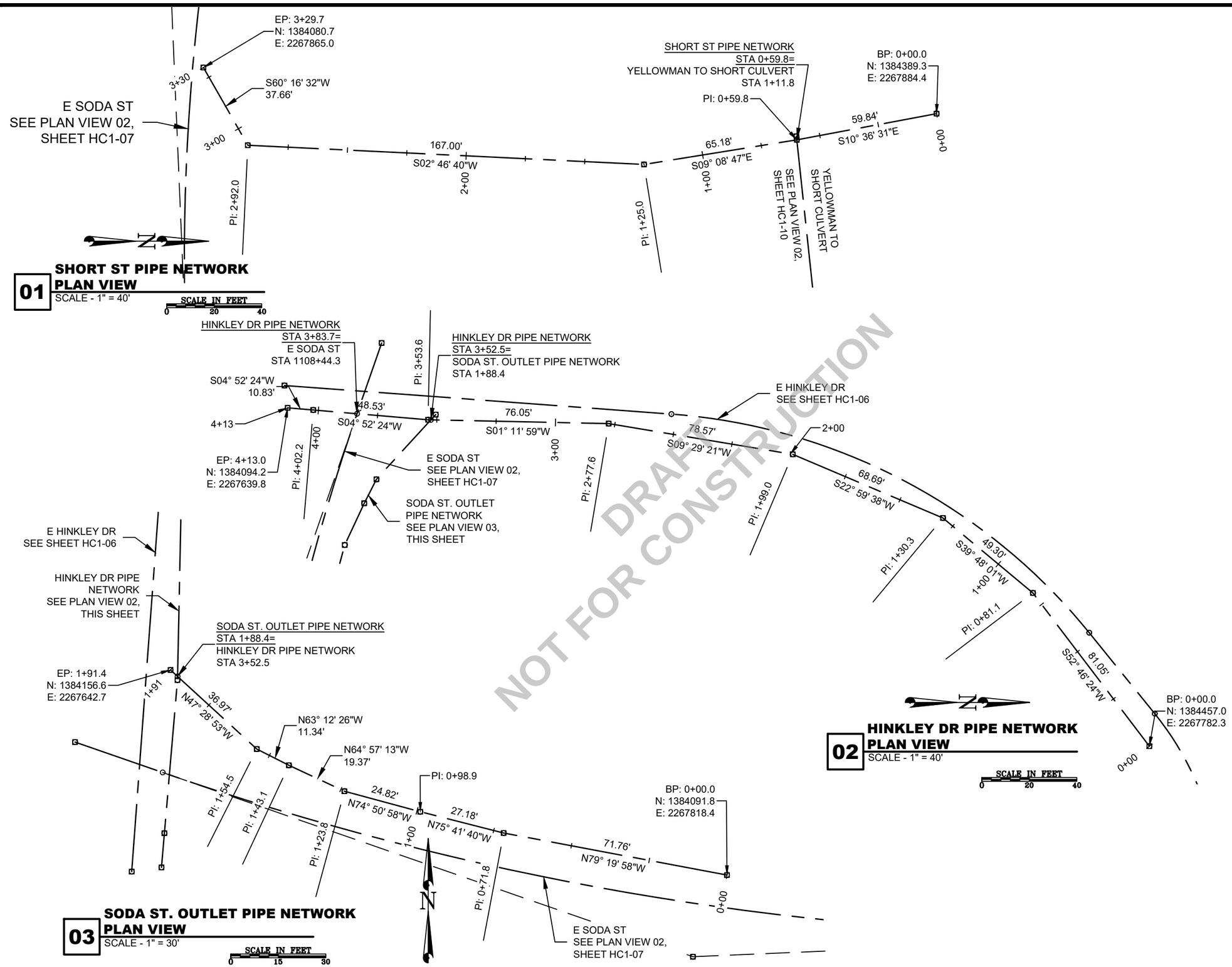

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General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL SHORT ST. & HINCKLEY DR. PIPE NETWORKS

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC1-11
Date: 08-Aug-2025	
Scale: AS SHOWN	

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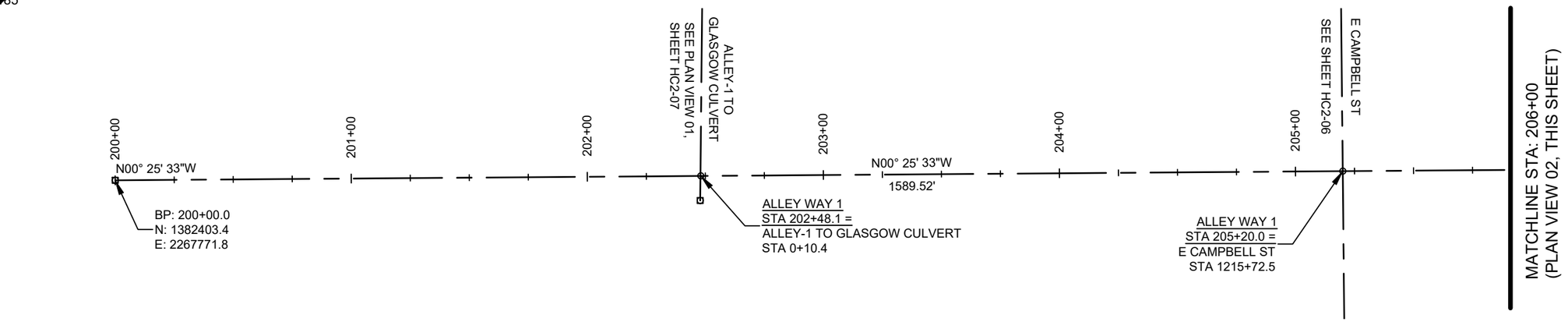
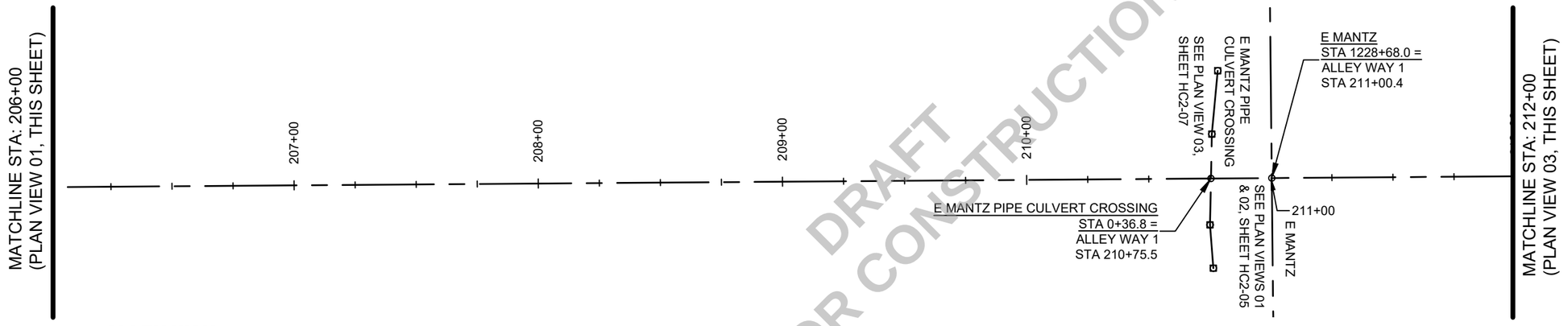
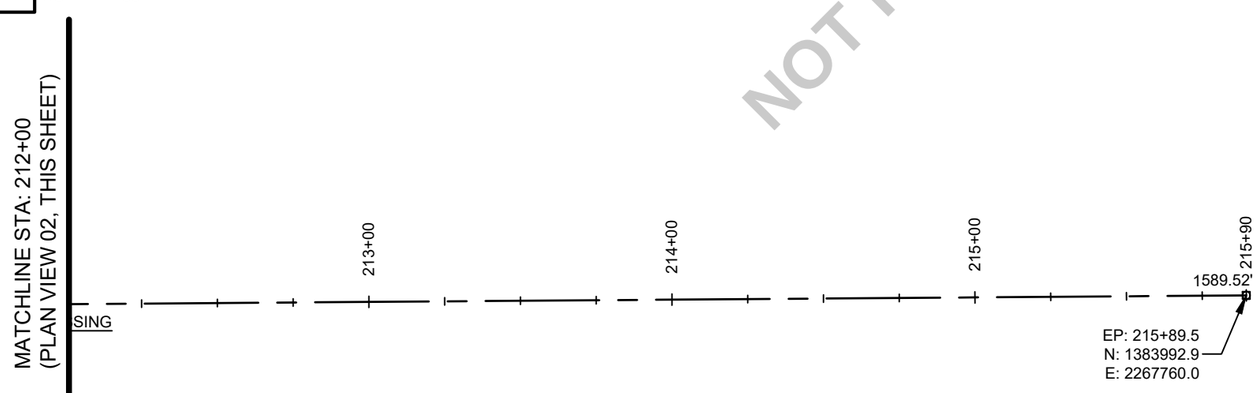


01 ALLEY WAY 1 PLAN VIEW
SCALE - 1-50'



02 ALLEY WAY 1 PLAN VIEW
SCALE - 1-50'



03 ALLEY WAY 1 PLAN VIEW
SCALE - 1-50'

DRAFT
NOT FOR CONSTRUCTION

SCALE IN FEET
0 25 50

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL ALLEY WAY 1

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC2-01
Date: 23-Oct-2025	
Scale: 1" = 50'	

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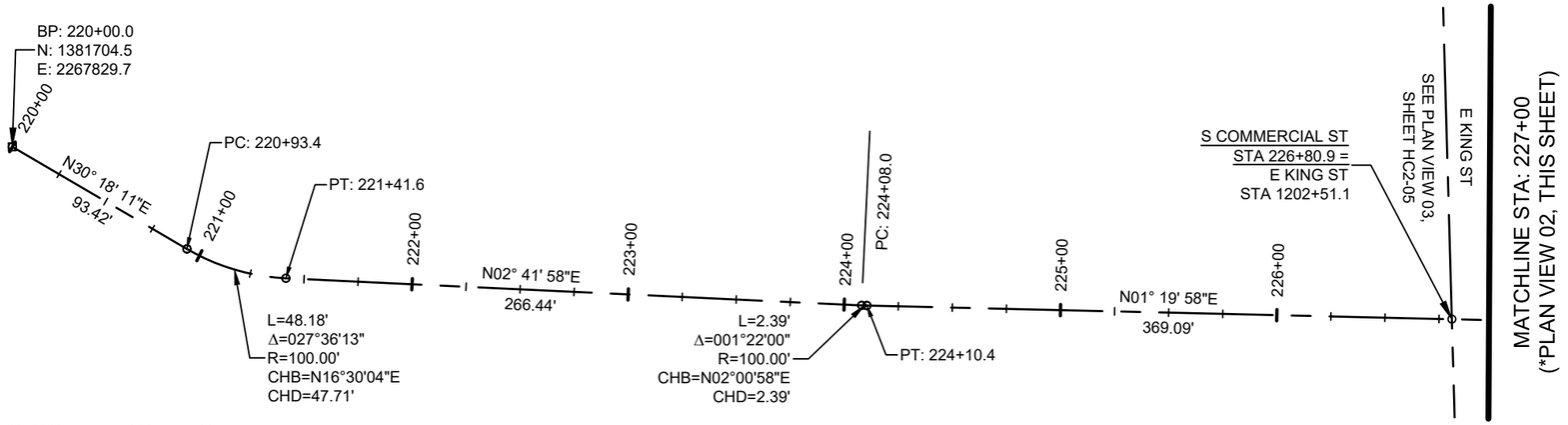
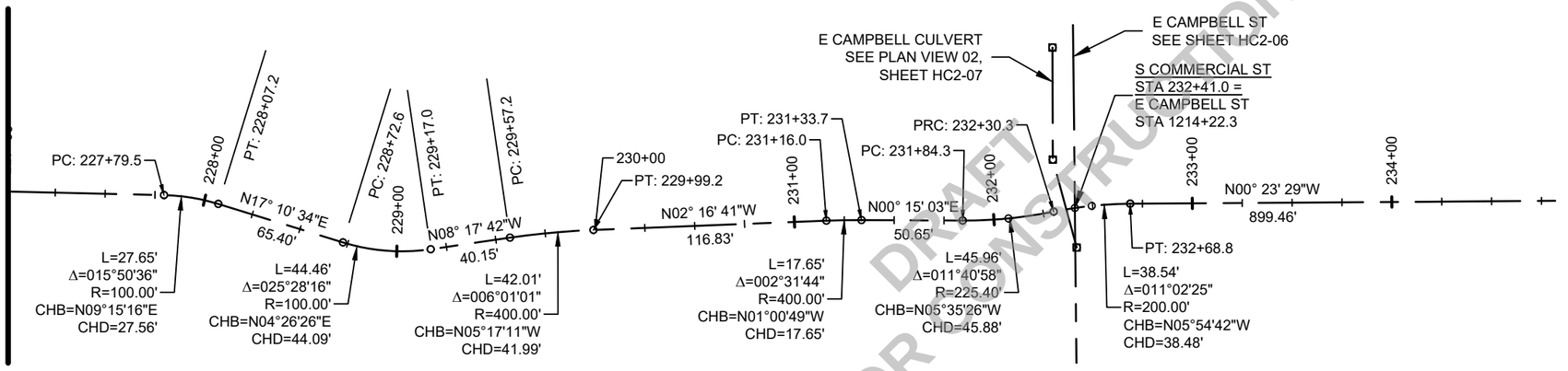


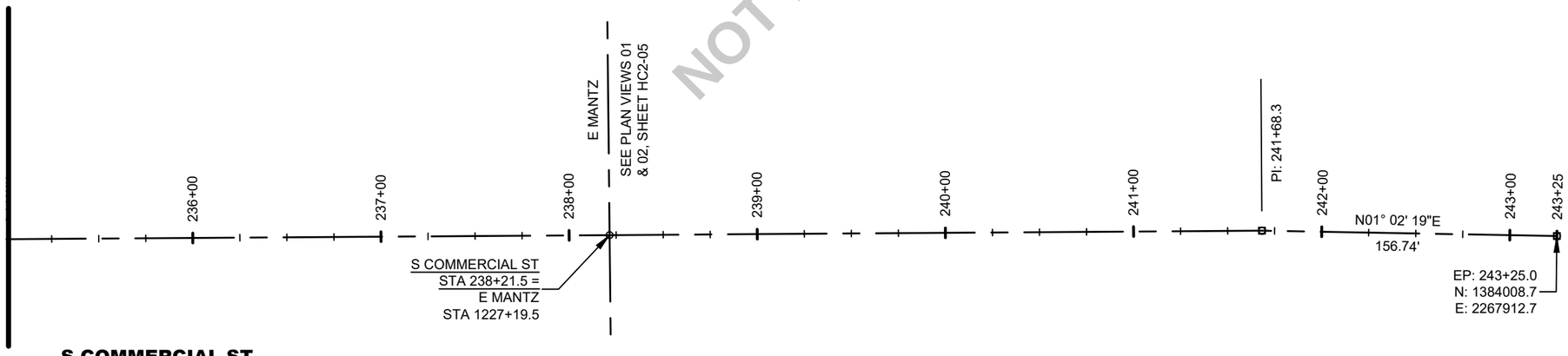
01 S COMMERCIAL ST PLAN VIEW

SCALE - 1" = 70'



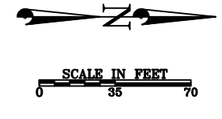
02 S COMMERCIAL ST PLAN VIEW

SCALE - 1" = 70'



03 S COMMERCIAL ST PLAN VIEW

SCALE - 1" = 70'



DRAFT
NOT FOR CONSTRUCTION

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

HORIZONTAL CONTROL
COMMERCIAL ST. ZONE

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC2-02
Date: 23-Oct-2025	
Scale: 1" = 70'	

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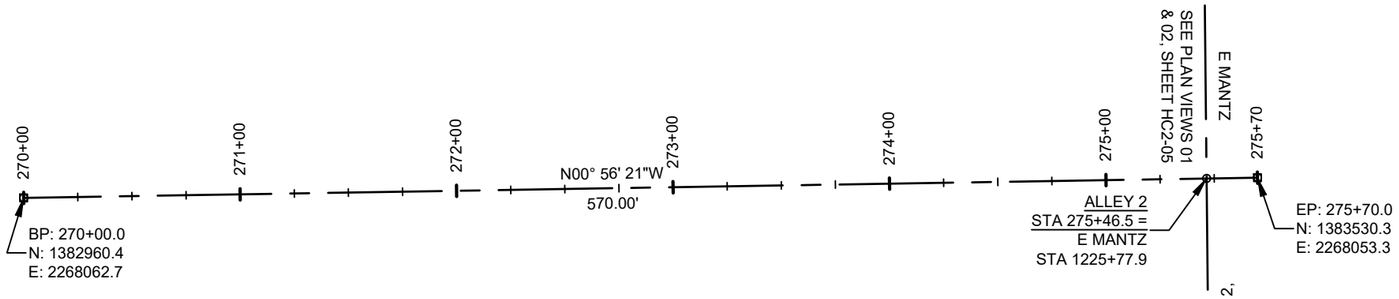
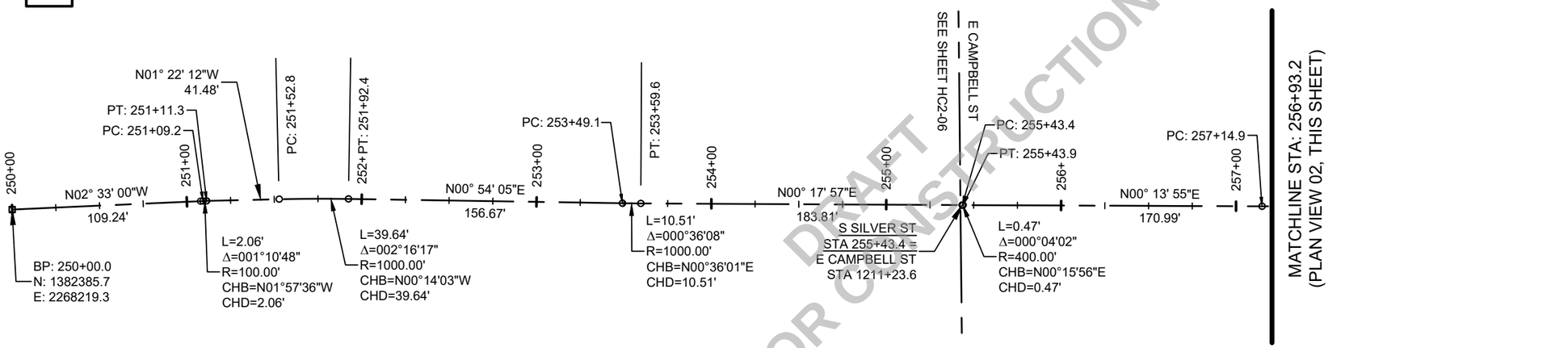


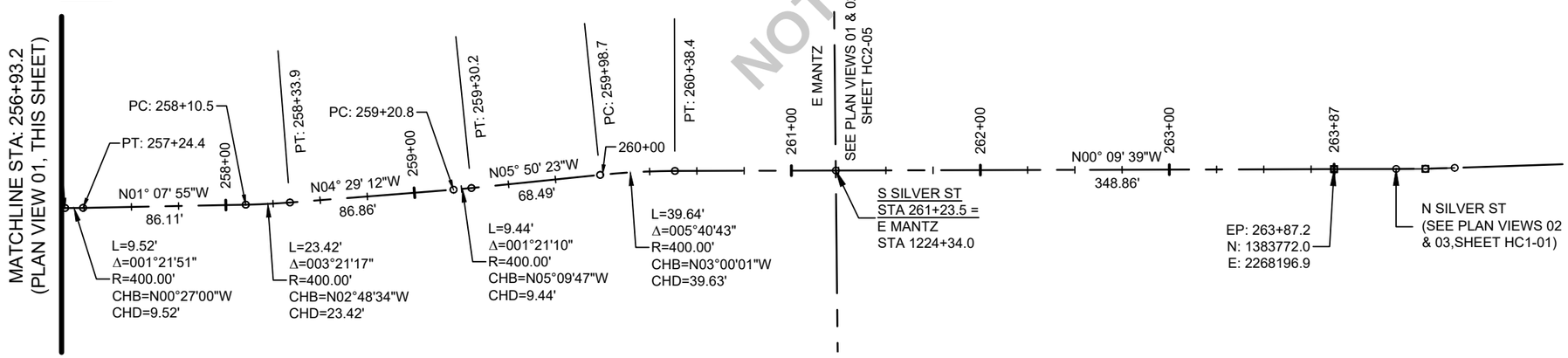
01 ALLEY 2 PLAN VIEW

SCALE - 1" = 70'



02 S SILVER ST PLAN VIEW

SCALE - 1" = 70'



03 S SILVER ST PLAN VIEW

SCALE - 1" = 70'

DRAFT
NOT FOR CONSTRUCTION

SCALE IN FEET
0 35 70

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL ALLEY 2 & SILVER ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO	Sheet
Date	23-Oct-2025	HC2-03
Scale	1" = 70'	

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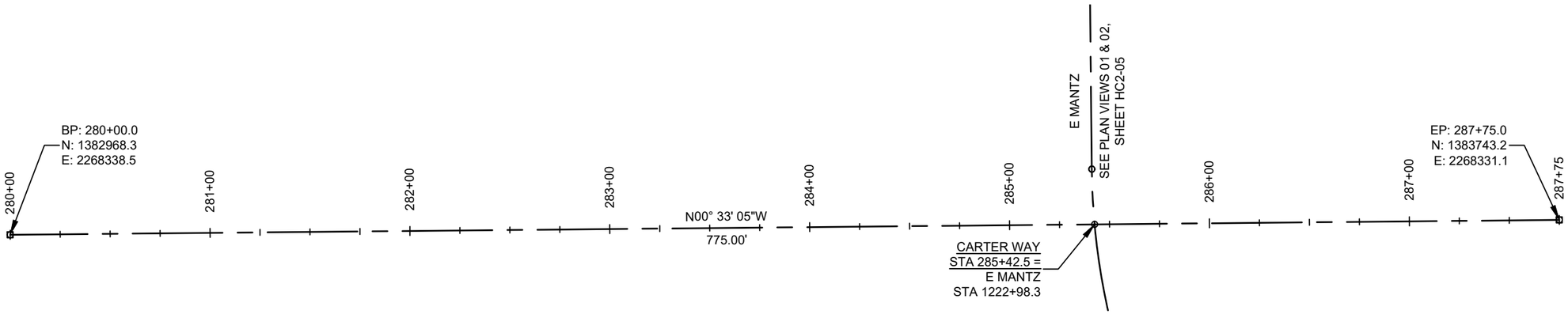

01 CARTER WAY PLAN VIEW
SCALE - 1-60'

DRAFT
NOT FOR CONSTRUCTION

N

SCALE IN FEET
0 30 60

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\STORM DRAIN CONTROL\2-SE STORM DRAIN CONTROL.dwg

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL CARTER WAY

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC2-04
Date: 23-Oct-2025	
Scale: 1" = 60'	

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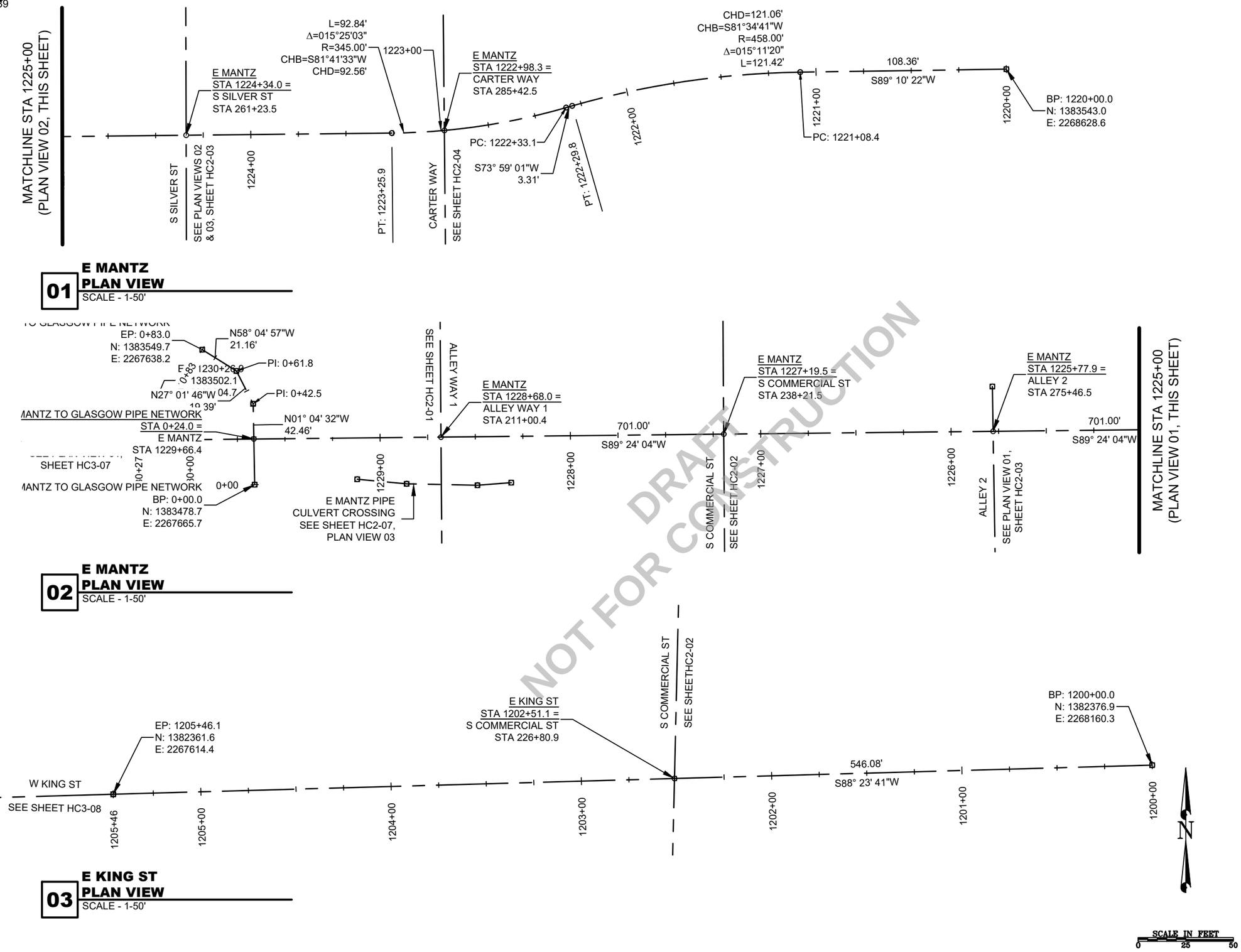

DRAFT
NOT FOR CONSTRUCTION

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General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL MANTZ & KING ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC2-05
Date: 23-Oct-2025	
Scale: 1" = 50'	

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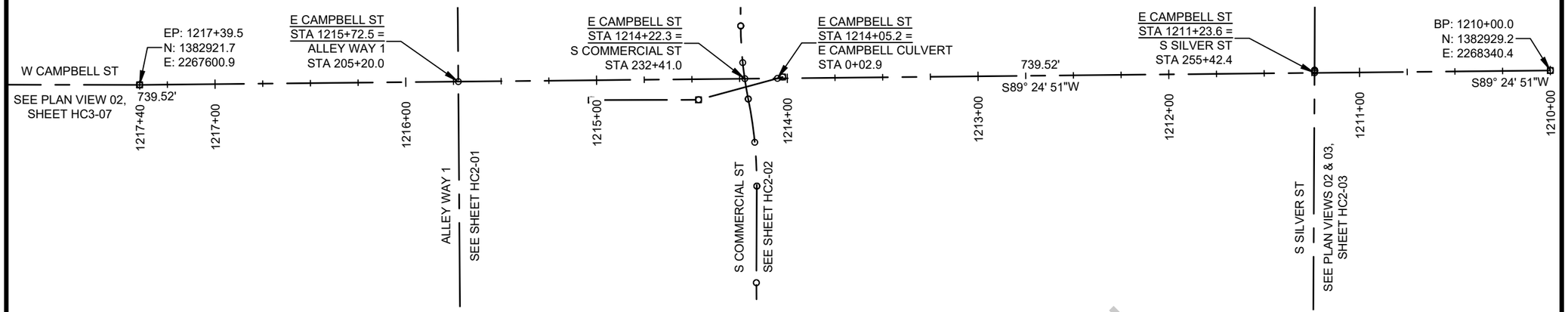

01 E CAMPBELL ST PLAN VIEW

SCALE - 1" = 60'

DRAFT
NOT FOR CONSTRUCTION

SCALE IN FEET
0 30 60

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL E CAMPBELL ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC2-06
Date: 23-Oct-2025	
Scale: 1" = 60'	

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\STORM DRAIN CONTROL\2-SE STORM DRAIN CONTROL.dwg

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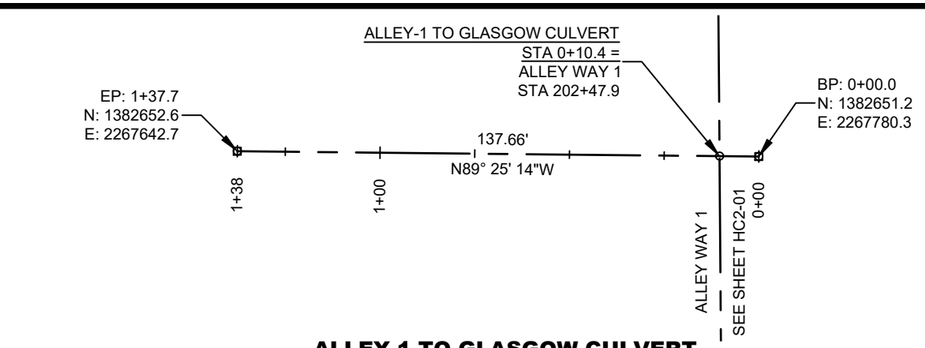
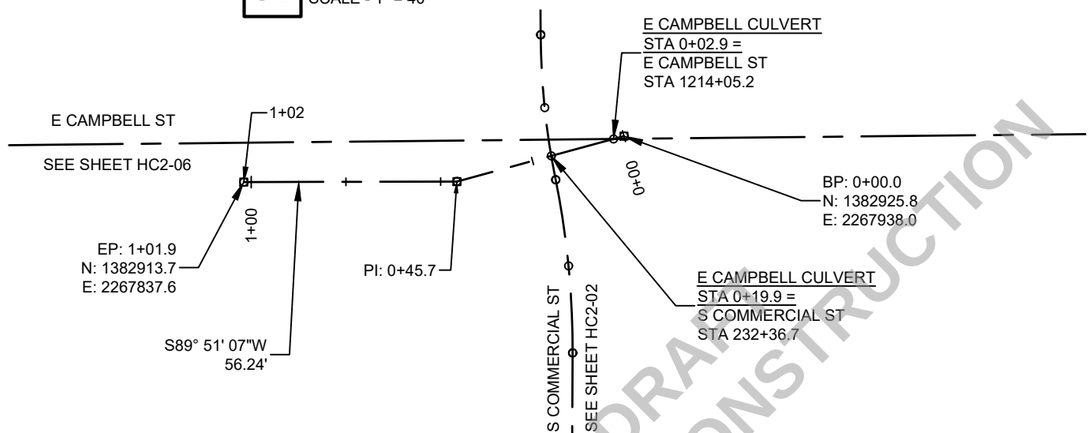
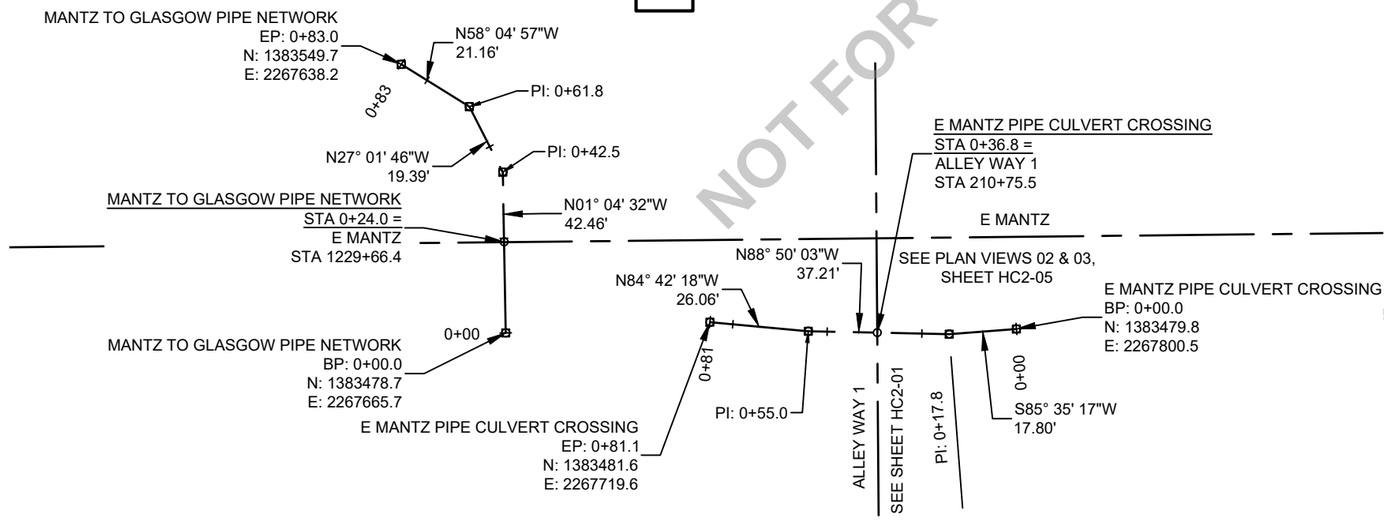


01 ALLEY-1 TO GLASGOW CULVERT PLAN VIEW
SCALE - 1" = 40'



02 E CAMPBELL CULVERT PLAN VIEW
SCALE - 1" = 40'



03 MANTZ TO GLASGOW PIPE NETWORK AND E MANTZ PIPE CULVERT CROSSING PLAN VIEW
SCALE - 1" = 40'

DRAFT
NOT FOR CONSTRUCTION

N

SCALE IN FEET
0 20 40

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL
ALLEY-1 TO GLASGOW, E CAMPBELL, & E MANTZ

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC2-07
Date: 23-Oct-2025	
Scale: 1" = 40'	

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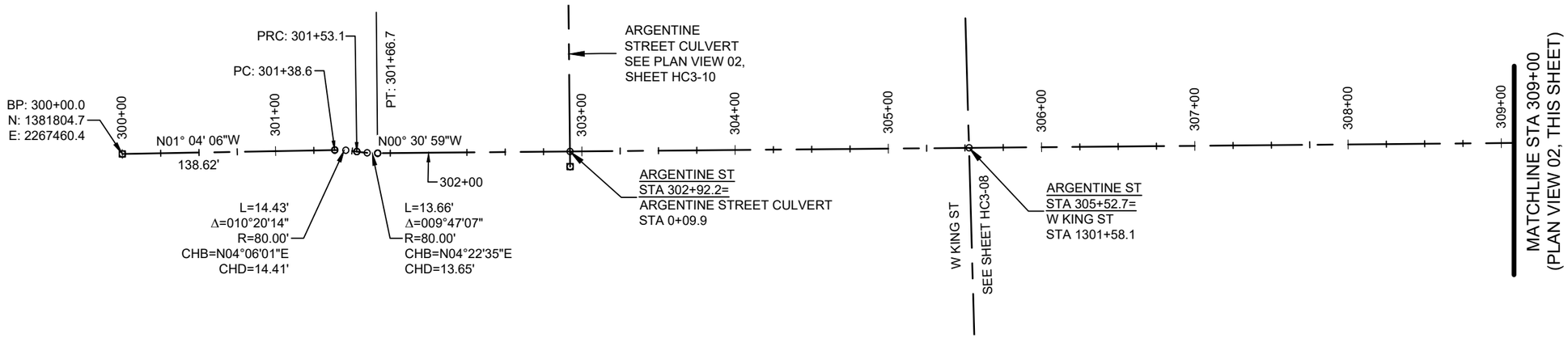
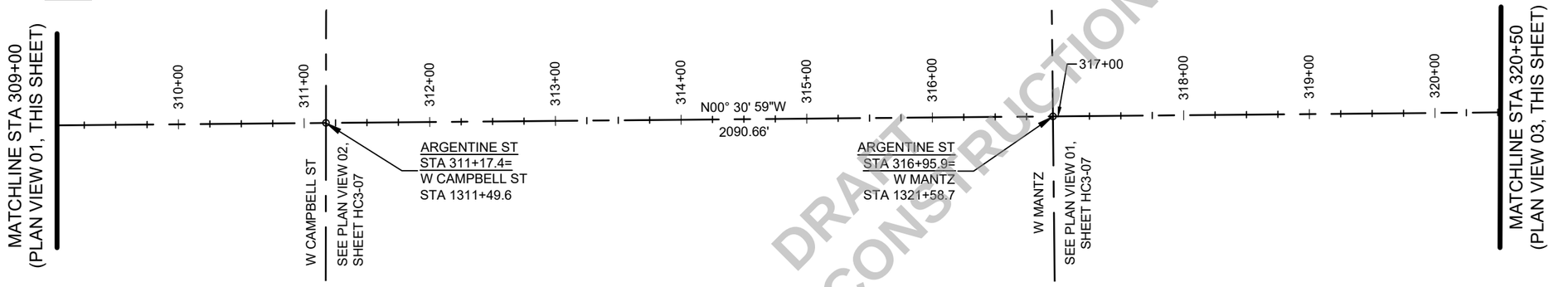


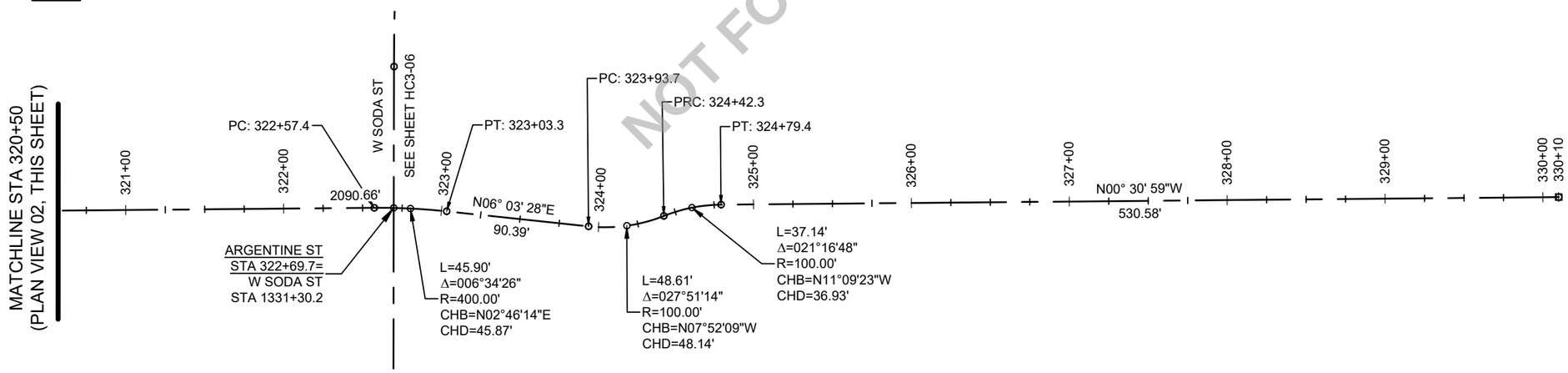
01 ARGENTINE ST PLAN VIEW

SCALE - 1" = 80'



02 ARGENTINE ST PLAN VIEW

SCALE - 1" = 100'



03 ARGENTINE ST PLAN VIEW

SCALE - 1" = 80'

DRAFT
NOT FOR CONSTRUCTION

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

HORIZONTAL CONTROL
ARGENTINE ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO	Sheet	HC3-01
Date	09-Sep-2025		
Scale	AS SHOWN		

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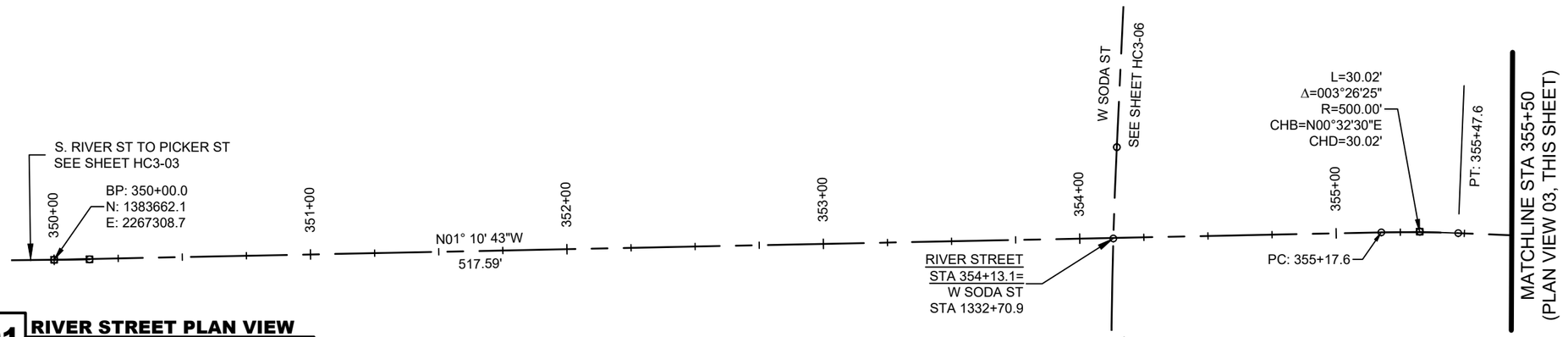
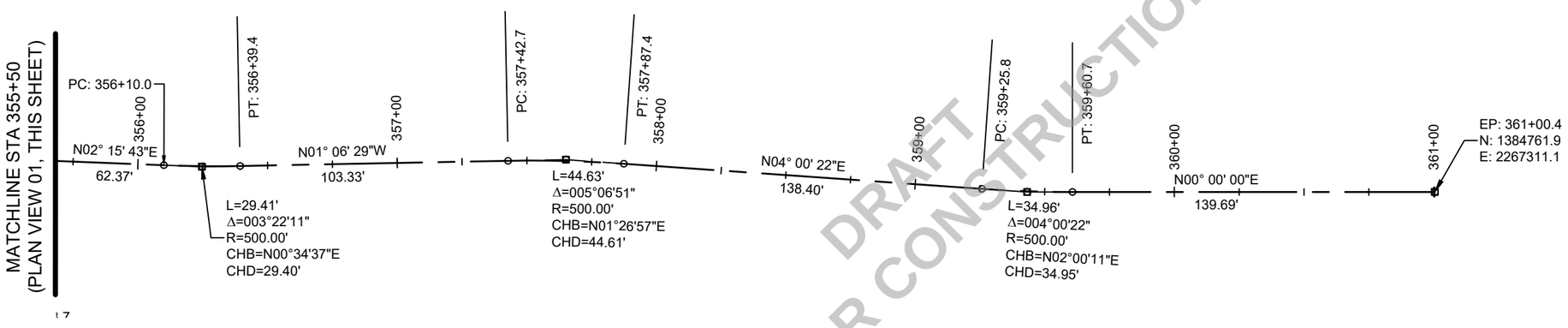


01 RIVER STREET PLAN VIEW
SCALE - 1" = 50'



02 RIVER STREET PLAN VIEW
SCALE - 1" = 50'

DRAFT
NOT FOR CONSTRUCTION

SCALE IN FEET
0 25 50

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL RIVER ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC3-02
Date: 09-Sep-2025	
Scale: 1" = 50'	

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\STORM DRAIN CONTROL\3-NW & W STORM DRAIN CONTROL ALT.dwg

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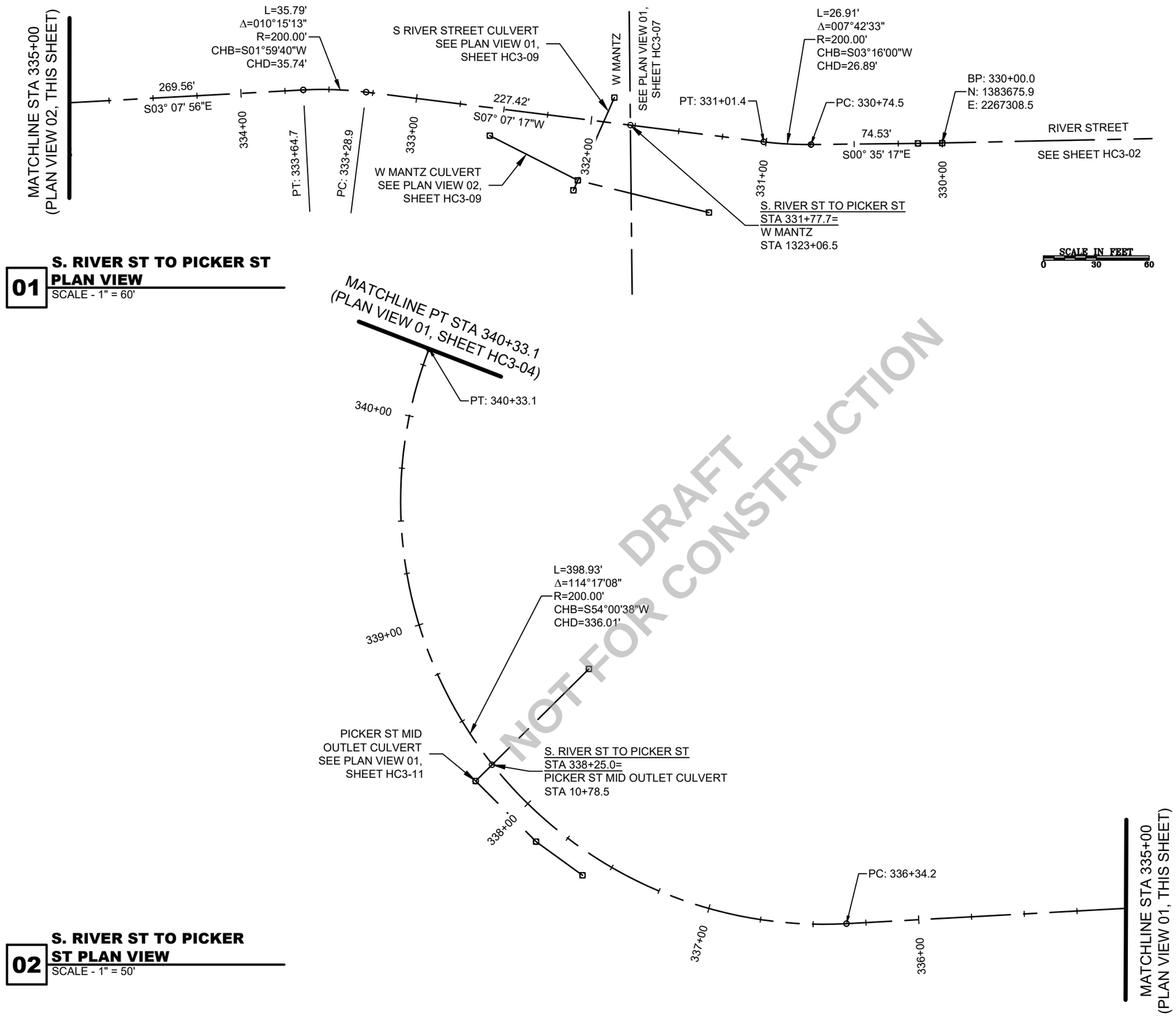

01 **S. RIVER ST TO PICKER ST PLAN VIEW**
SCALE - 1" = 60'

02 **S. RIVER ST TO PICKER ST PLAN VIEW**
SCALE - 1" = 50'

DRAFT
NOT FOR CONSTRUCTION

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

HORIZONTAL CONTROL
PICKER ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO	Sheet	HC3-03
Date	09-Sep-2025		
Scale	AS SHOWN		

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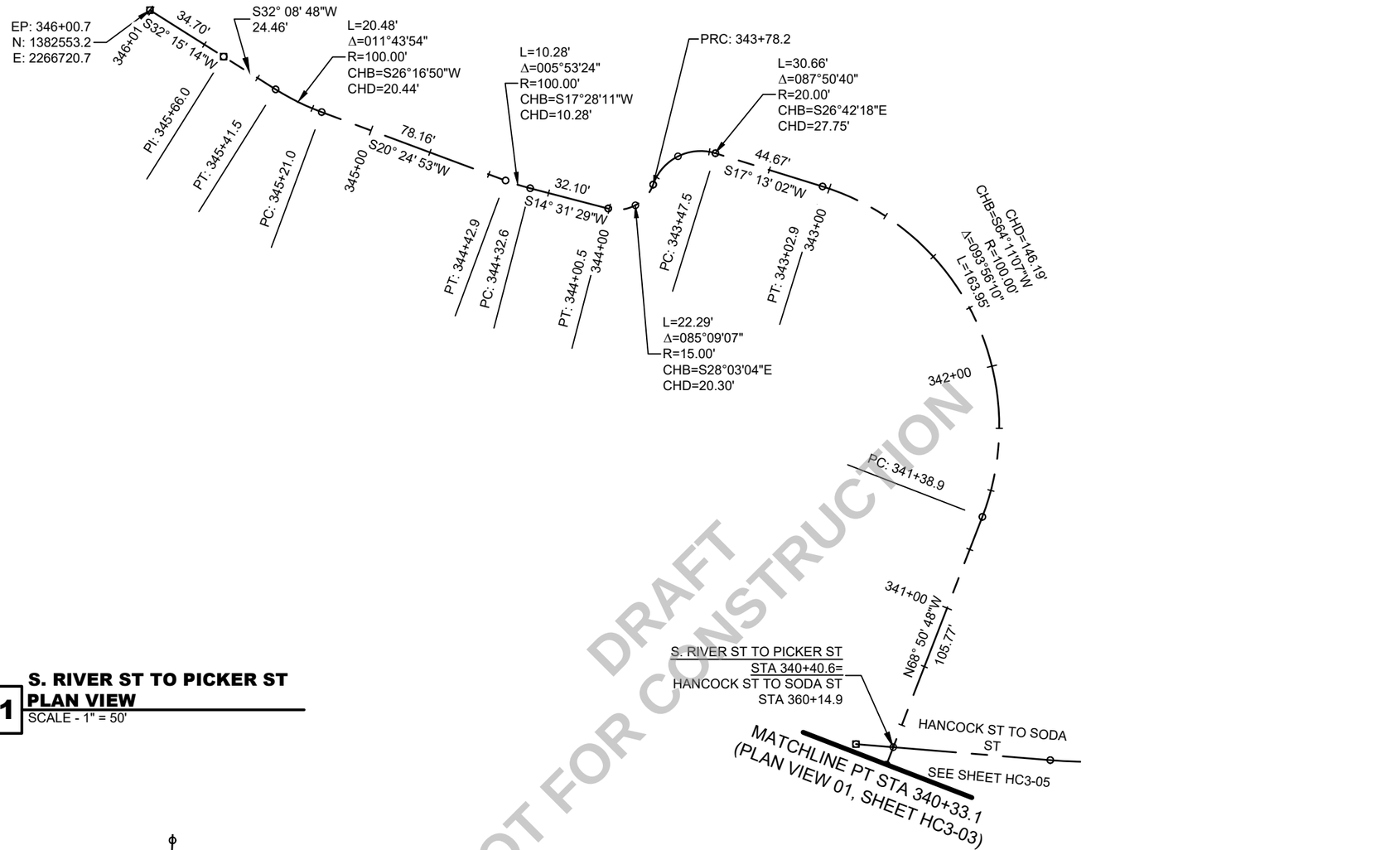
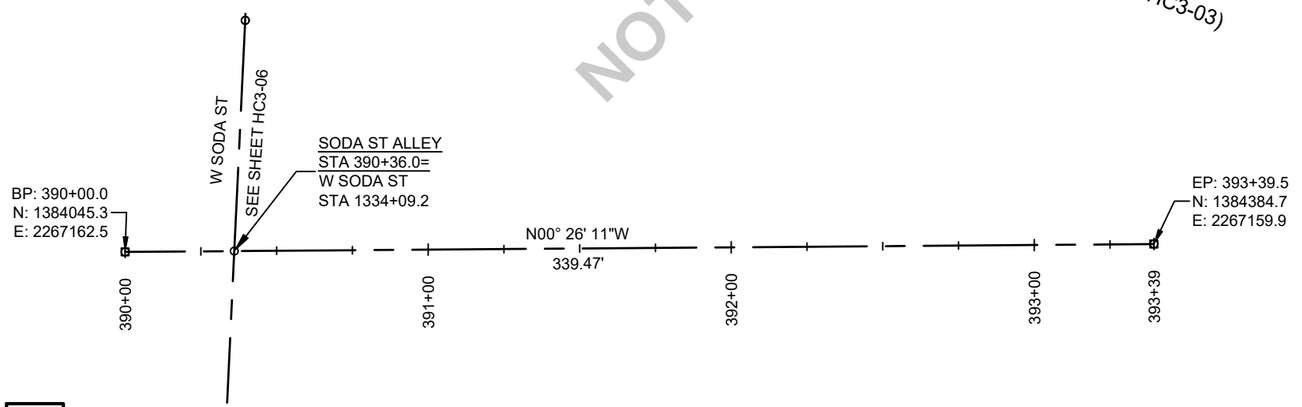


01 S. RIVER ST TO PICKER ST PLAN VIEW

SCALE - 1" = 50'



02 SODA ST ALLEY PLAN VIEW

SCALE - 1" = 50'

DRAFT
NOT FOR CONSTRUCTION

SCALE IN FEET
0 25 50

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL
PICKER ST & SODA ST ALLEY

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC3-04
Date: 09-Sep-2025	
Scale: 1" = 50'	

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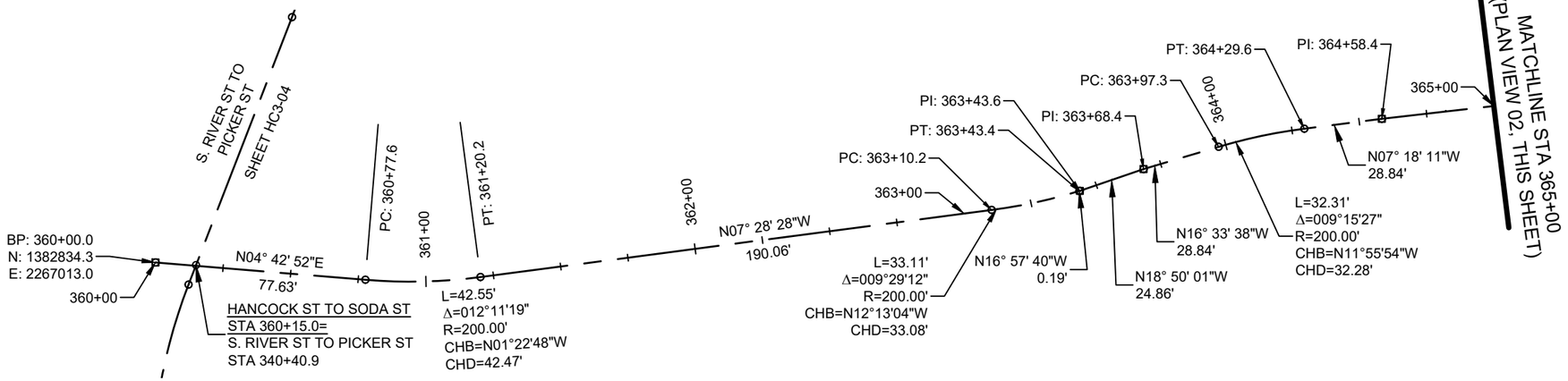
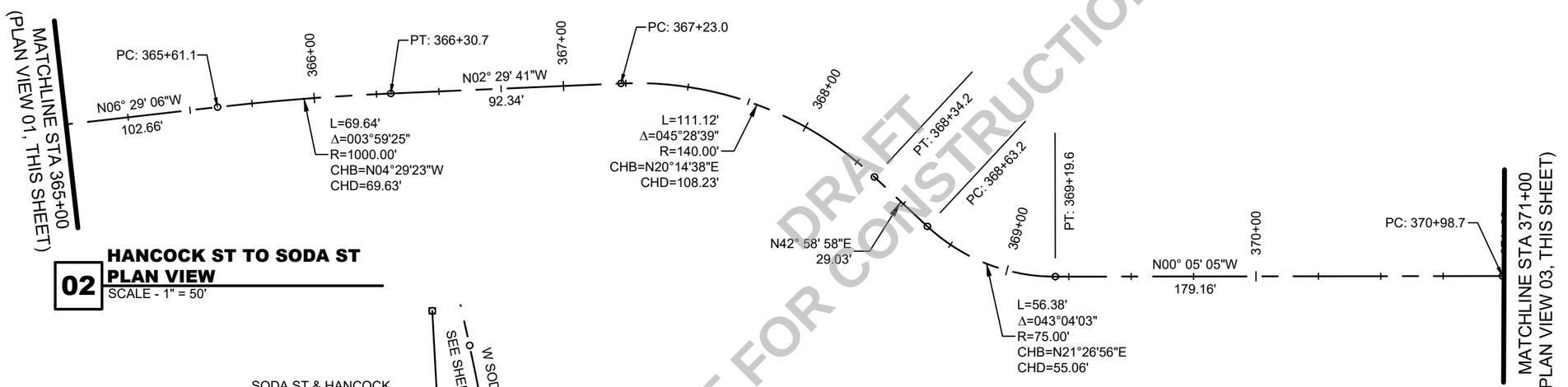
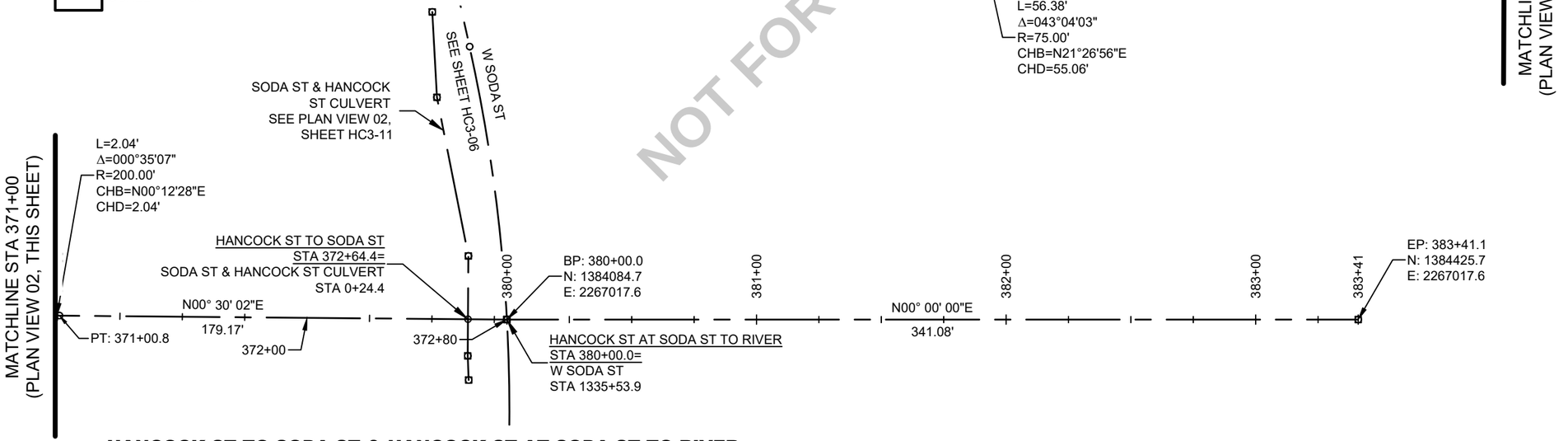


01 HANCOCK ST TO SODA ST
PLAN VIEW
SCALE - 1" = 50'



02 HANCOCK ST TO SODA ST
PLAN VIEW
SCALE - 1" = 50'



03 HANCOCK ST TO SODA ST & HANCOCK ST AT SODA ST TO RIVER
PLAN VIEW
SCALE - 1" = 50'

DRAFT
NOT FOR CONSTRUCTION

SCALE IN FEET
0 25 50

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

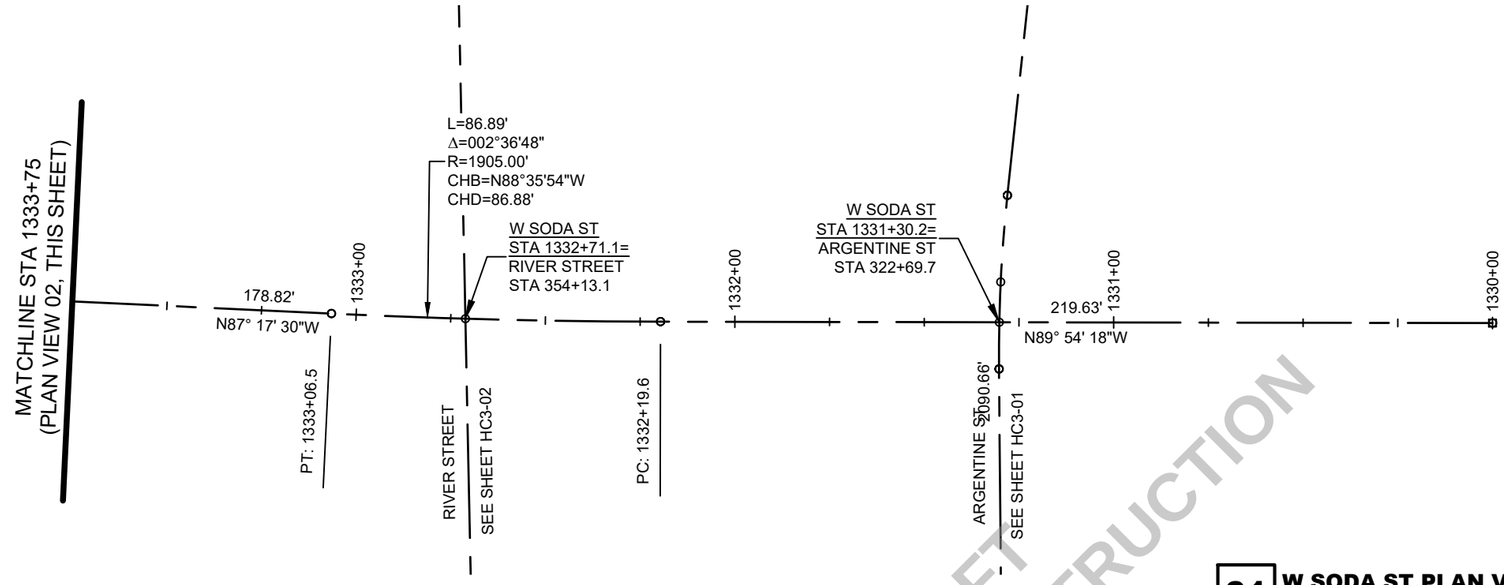
HORIZONTAL CONTROL
HANCOCK ST

RICO, COLORADO

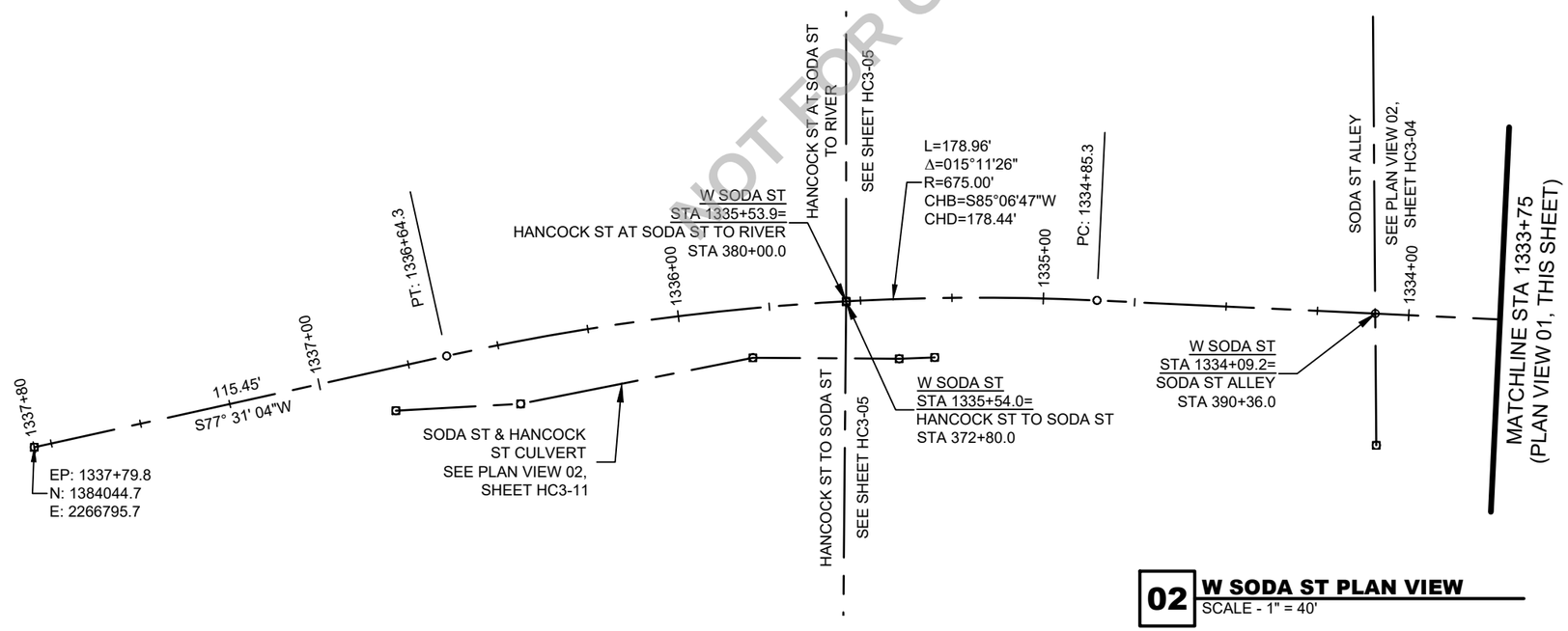
DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC3-05
Date: 09-Sep-2025	
Scale: 1" = 50'	

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\STORM DRAIN CONTROL\3-NW & W STORM DRAIN CONTROL ALT.dwg



01 **W SODA ST PLAN VIEW**
SCALE - 1" = 40'



02 **W SODA ST PLAN VIEW**
SCALE - 1" = 40'

N

SCALE IN FEET
0 20 40

DRAFT
NOT FOR CONSTRUCTION

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

HORIZONTAL CONTROL SODA ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC3-06
Date: 09-Sep-2025	
Scale: 1" = 40'	

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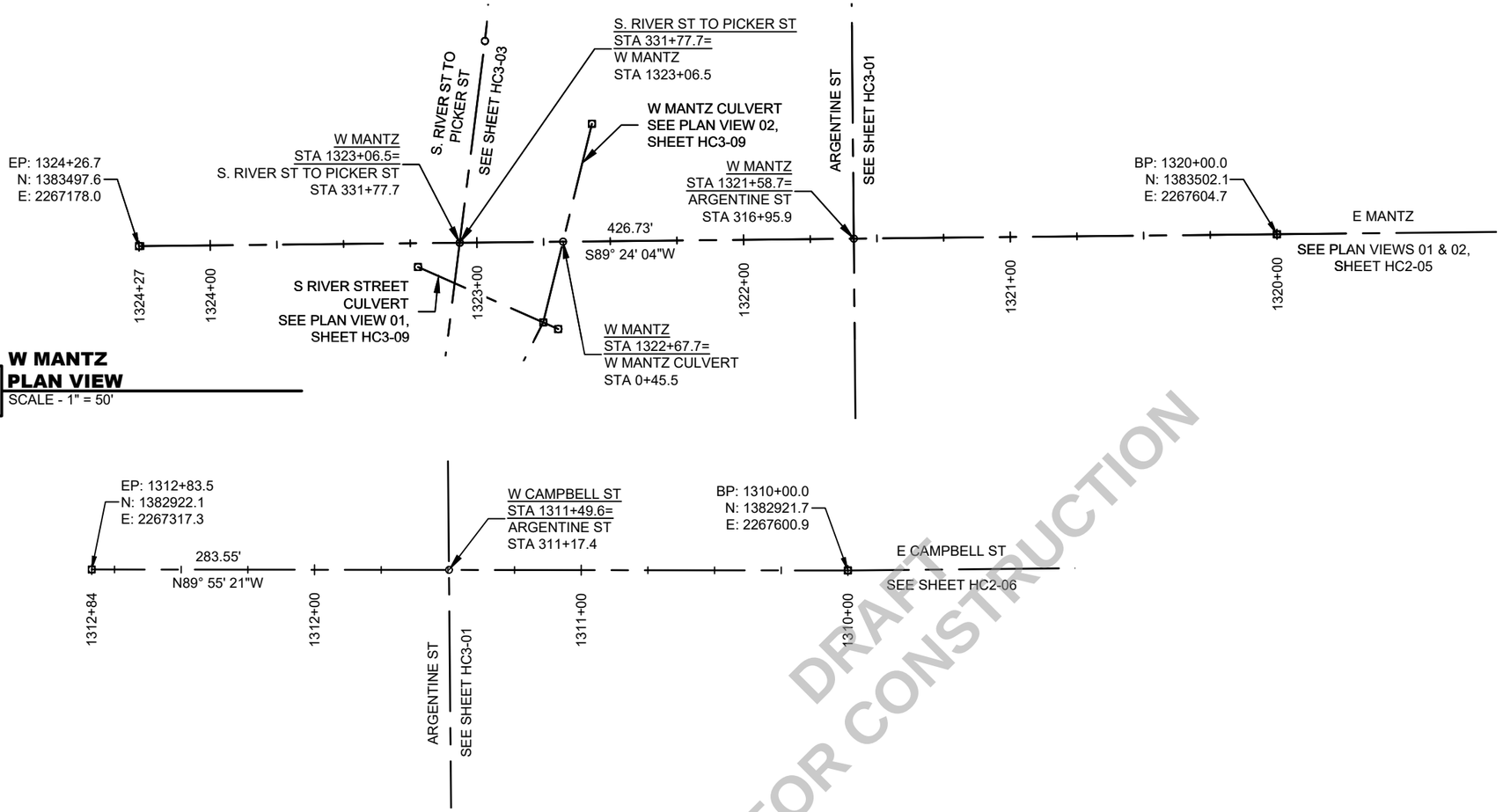

01 **W MANTZ PLAN VIEW**
SCALE - 1" = 50'

02 **W CAMPBELL ST PLAN VIEW**
SCALE - 1" = 50'

DRAFT
NOT FOR CONSTRUCTION

N

SCALE IN FEET
0 25 50

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

HORIZONTAL CONTROL W
MANTZ & CAMPBELL ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC3-07
Date: 09-Sep-2025	
Scale: 1" = 50'	

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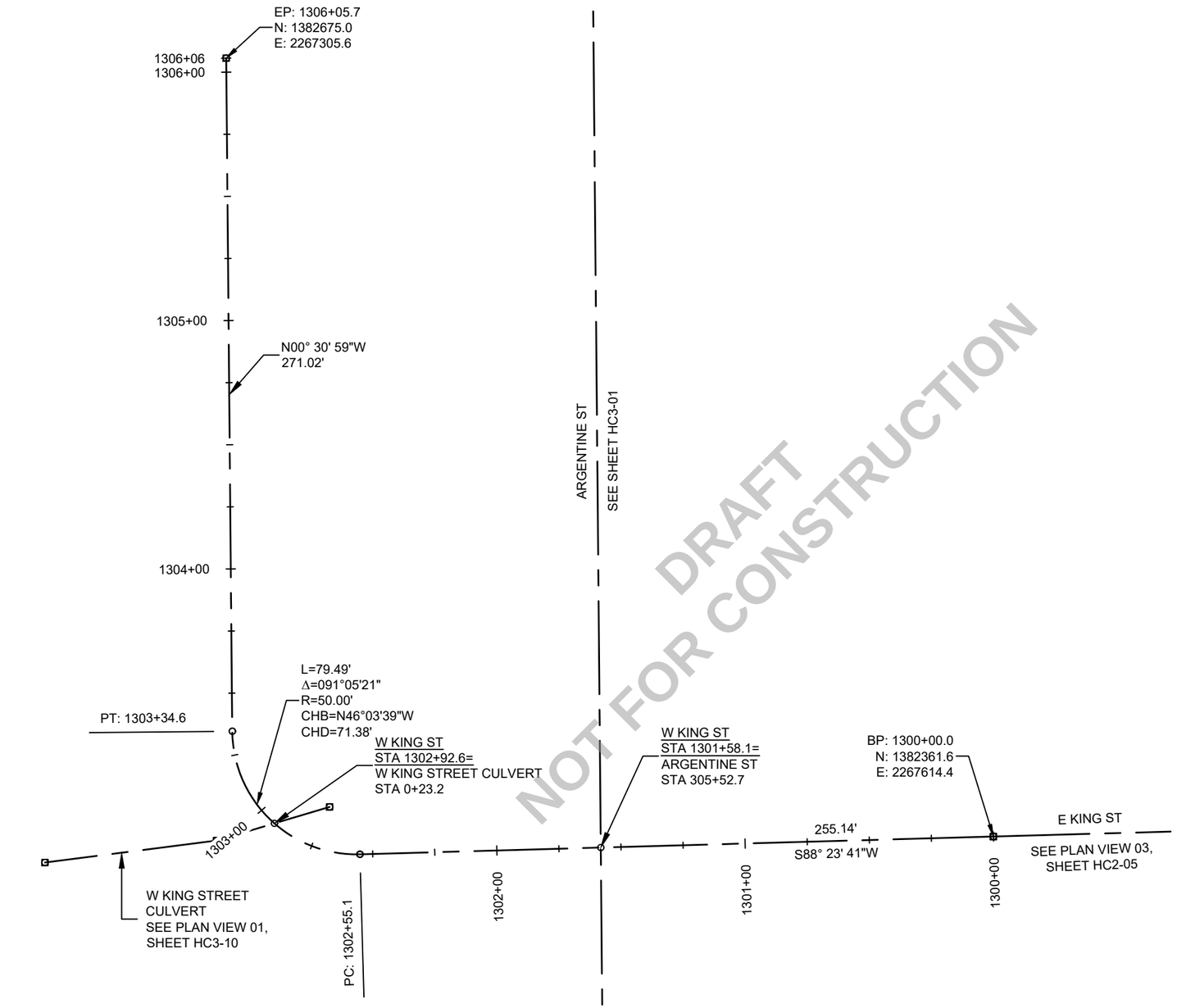

01 **W KING ST**
PLAN VIEW
SCALE - 1" = 50'

DRAFT
NOT FOR CONSTRUCTION

N

SCALE IN FEET
0 25 50

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

HORIZONTAL CONTROL KING ST.

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC3-08
Date: 09-Sep-2025	
Scale: 1" = 50'	

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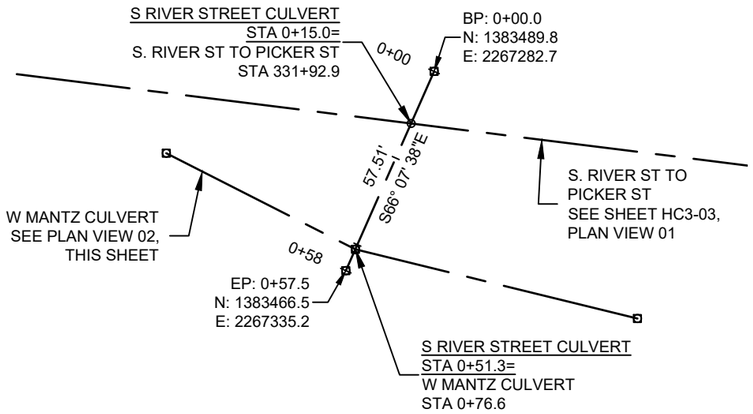
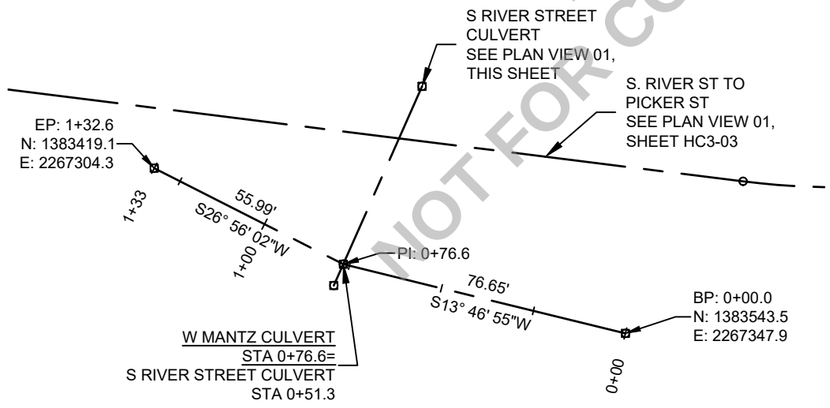
200



01 **S RIVER STREET CULVERT**
PLAN VIEW
SCALE - 1" = 40'



02 **W MANTZ CULVERT**
PLAN VIEW
SCALE - 1" = 40'

DRAFT
NOT FOR CONSTRUCTION

N

SCALE IN FEET
0 20 40

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON
ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL W MANTZ & S RIVER CULVERT & P. NETWORK

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC3-09
Date: 08-Aug-2025	
Scale: 1" = 40'	

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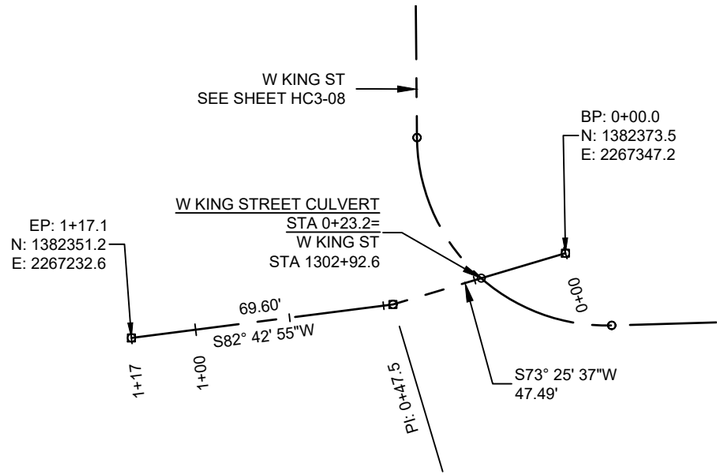
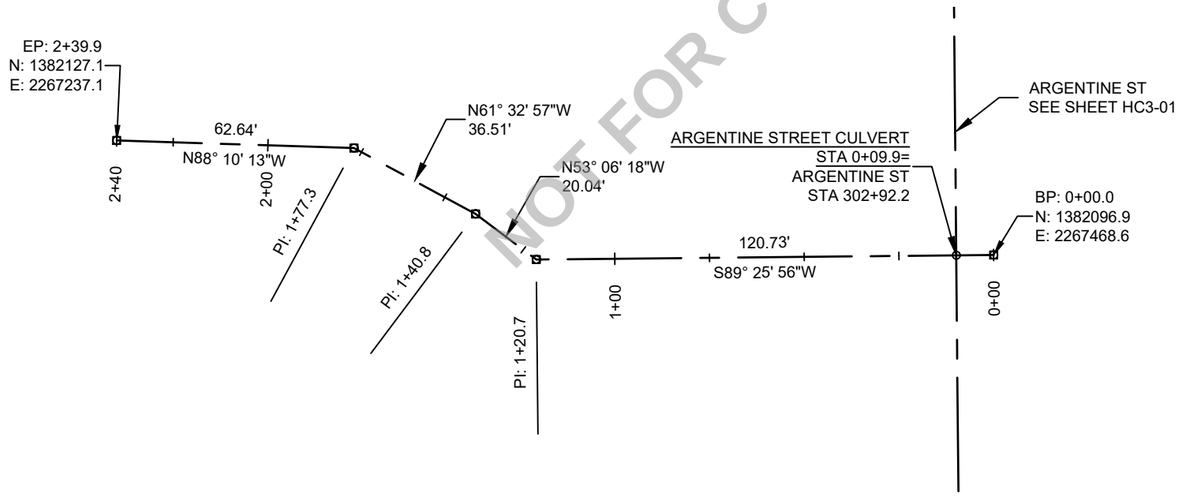
201



01 **W KING STREET CULVERT PLAN VIEW**
SCALE - 1" = 40'



02 **ARGENTINE STREET CULVERT PLAN VIEW**
SCALE - 1" = 40'

DRAFT
NOT FOR CONSTRUCTION

N

SCALE IN FEET
0 20 40

T:\JP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\HORIZONTAL CONTROL-PIPE CULVERTS.dwg

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL W KING & ARGENTINE OUTLET CULVERTS

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC3-10
Date: 08-Aug-2025	
Scale: 1" = 40'	

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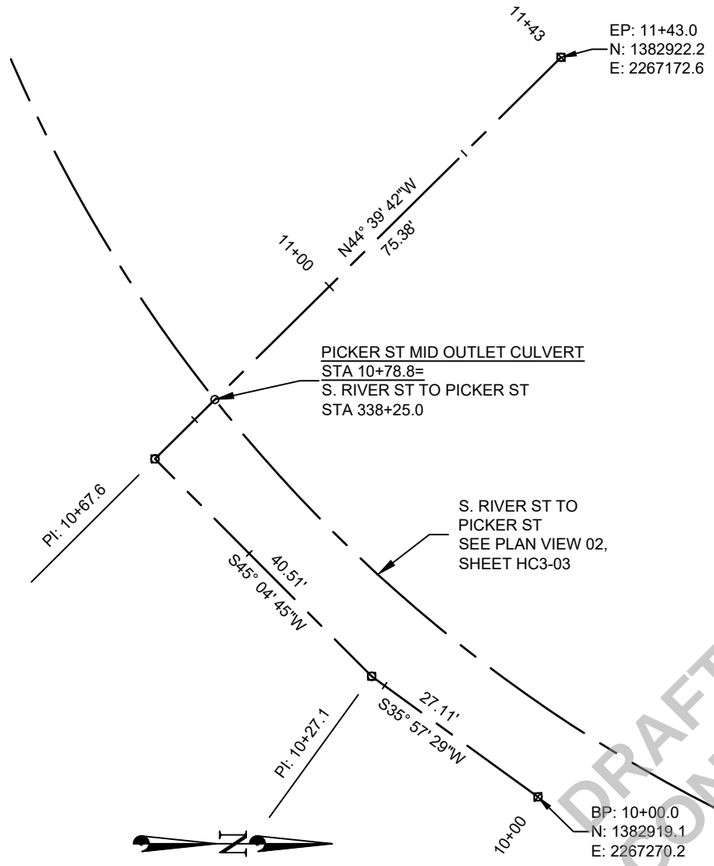
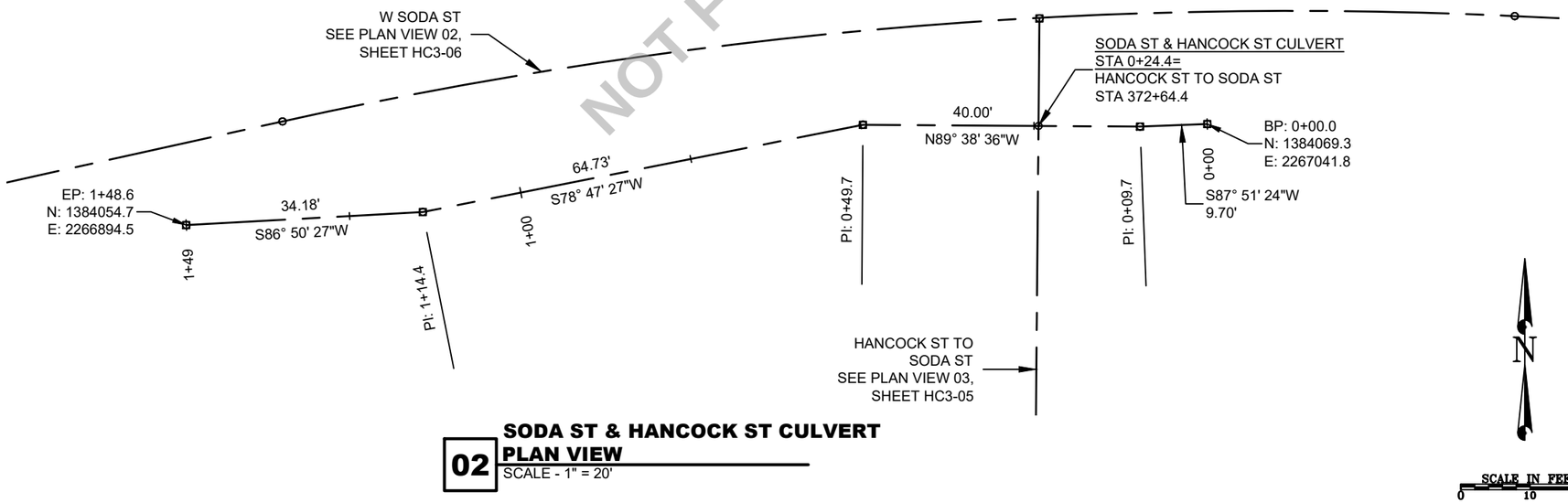


01 PICKER ST MID OUTLET CULVERT PLAN VIEW
SCALE - 1" = 20'



02 SODA ST & HANCOCK ST CULVERT PLAN VIEW
SCALE - 1" = 20'

DRAFT
NOT FOR CONSTRUCTION

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General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

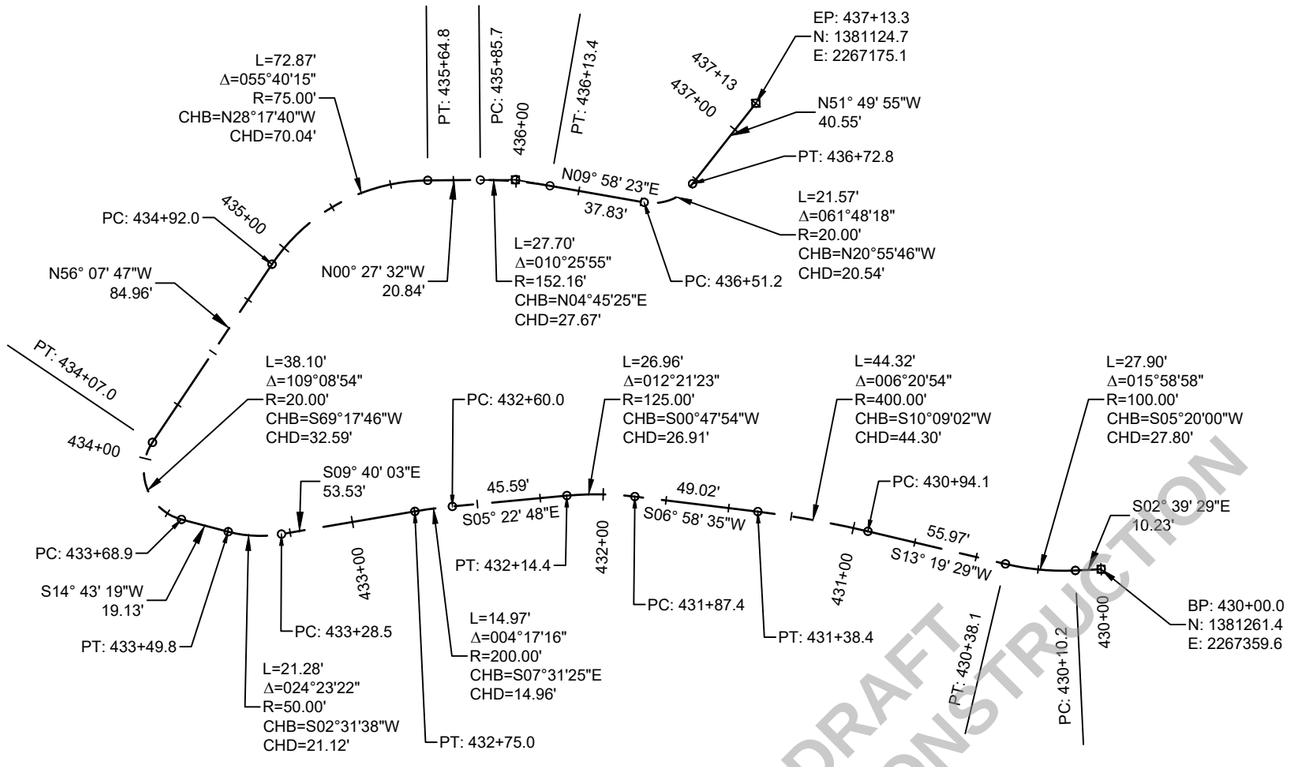
TOWN OF RICO STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL PICKER ST MID & SODA ST & HANCOCK CULVERTS

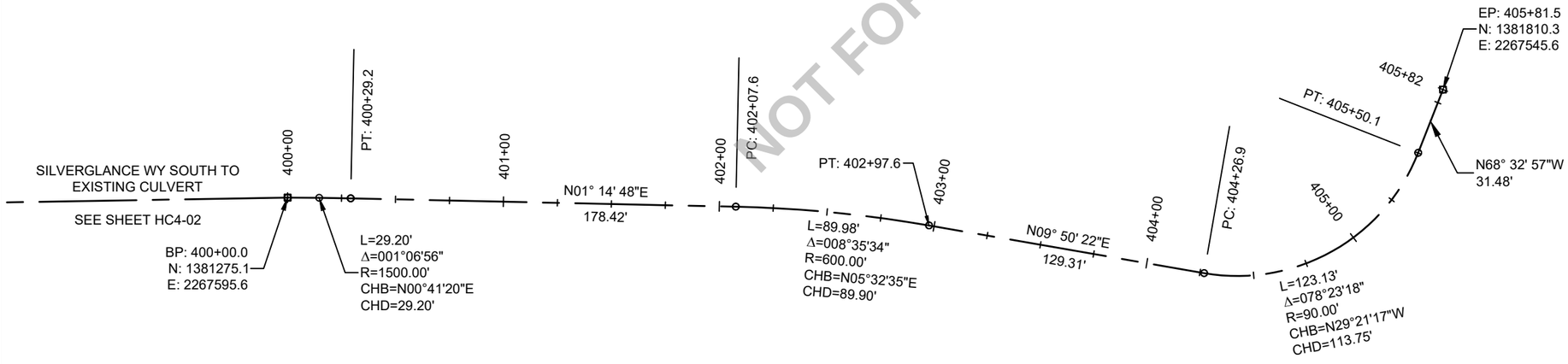
RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC3-11
Date: 08-Aug-2025	
Scale: 1" = 20'	



01 SILVERGLANCE WAY TO ACCESS ROAD
PLAN VIEW
SCALE - 1" = 60'



02 SILVERGLANCE TO GLASGOW
PLAN VIEW
SCALE - 1" = 60'

DRAFT
NOT FOR CONSTRUCTION

SCALE IN FEET
0 30 60

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL
SILVERGLANCE WAY

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC4-01
Date: 03-Sep-2025	
Scale: 1" = 60'	

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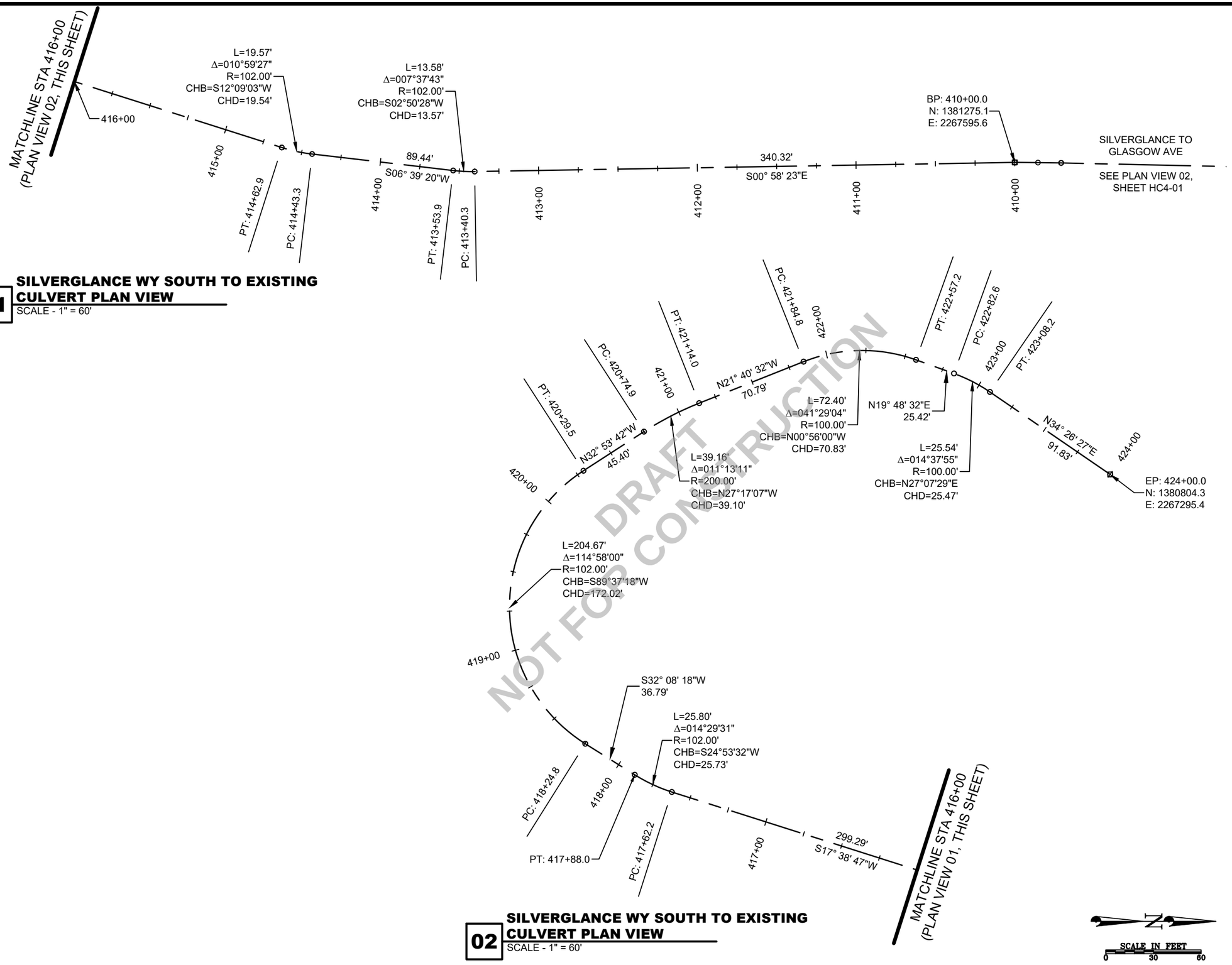
T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\STORM DRAIN CONTROL\4-SILVERGLANCE STORM DRAIN CONTROL.dwg



01 **SILVERGLANCE WY SOUTH TO EXISTING CULVERT PLAN VIEW**
SCALE - 1" = 60'

02 **SILVERGLANCE WY SOUTH TO EXISTING CULVERT PLAN VIEW**
SCALE - 1" = 60'

DRAFT
NOT FOR CONSTRUCTION

SCALE IN FEET
0 30 60

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\STORM DRAIN CONTROL\4-SILVERGLANCE STORM DRAIN CONTROL.dwg

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

HORIZONTAL CONTROL
SILVERGANCE TO CIRCLE

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC4-02
Date: 03-Sep-2025	
Scale: 1" = 60'	

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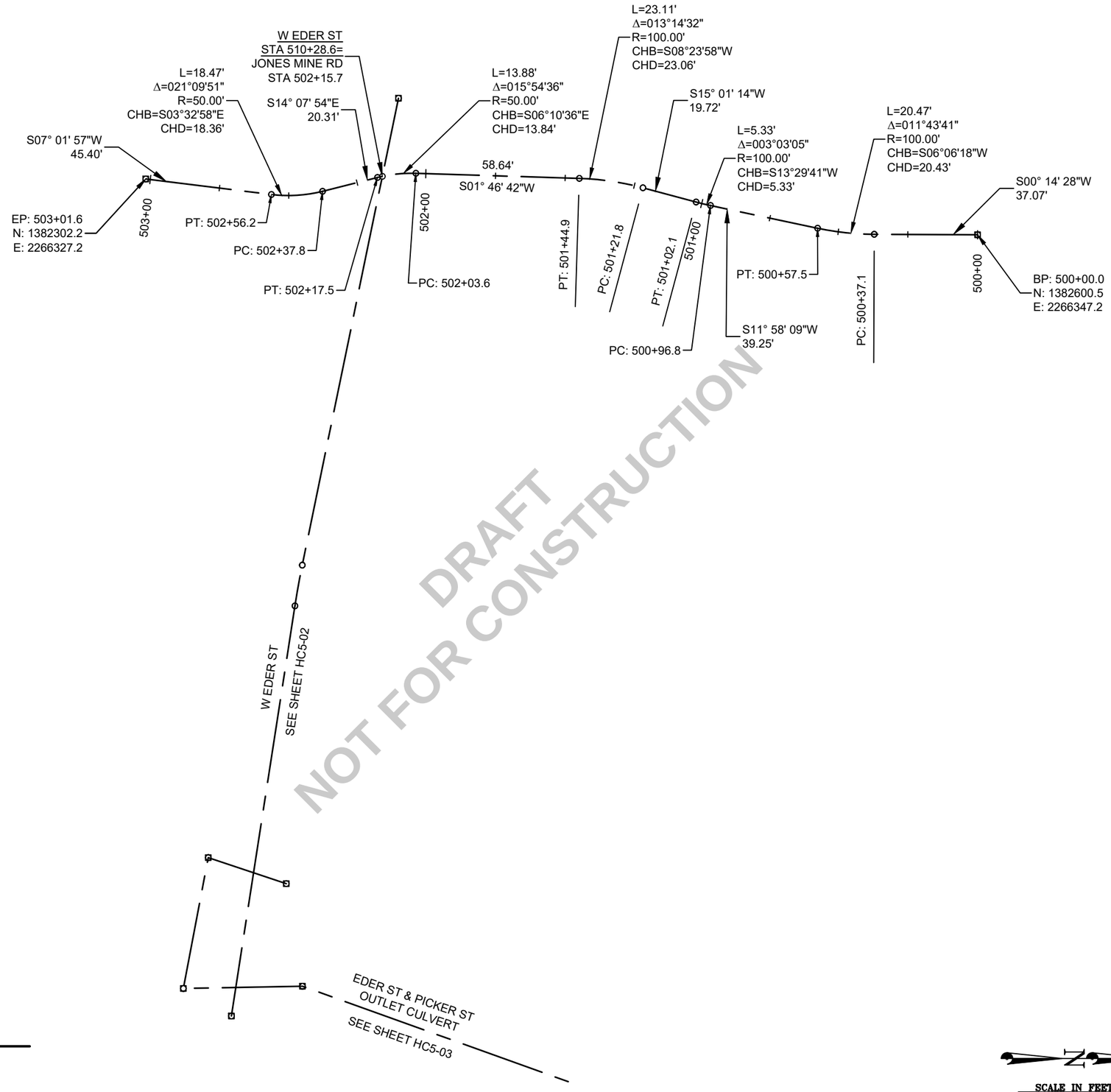
205



DRAFT
NOT FOR CONSTRUCTION

01 JONES MINE RD.
PLAN VIEW
SCALE - 1" = 40'

SCALE IN FEET
0 20 40

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

HORIZONTAL CONTROL JONES MINE RD

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC5-01
Date: 08-Aug-2025	
Scale: 1" = 40'	

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\STORM DRAIN CONTROL\6.1-EDER STORM DRAIN CONTROL.dwg

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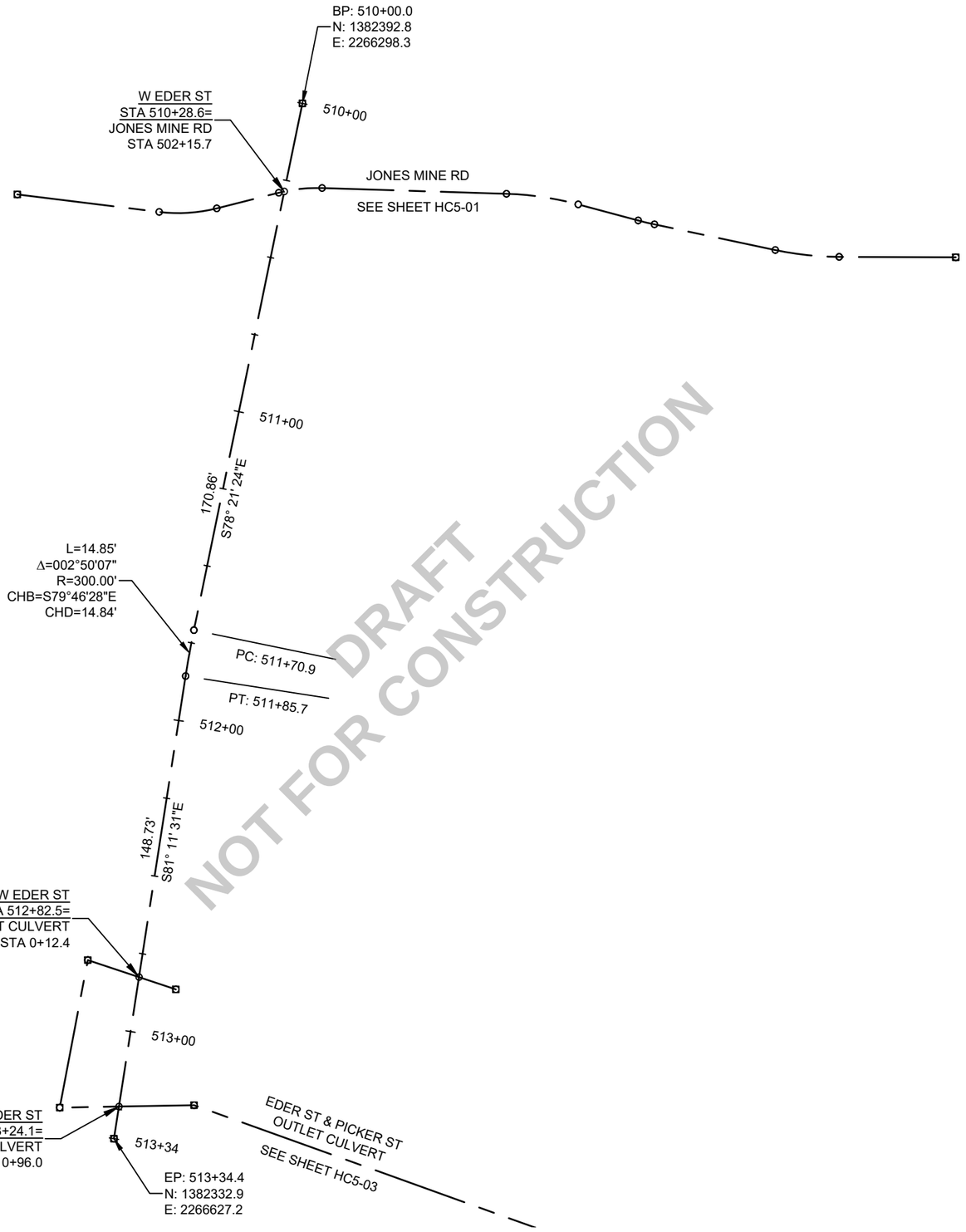
206



01 **W EDER ST PLAN VIEW**
SCALE - 1" = 40'

DRAFT
NOT FOR CONSTRUCTION

SCALE IN FEET
0 20 40

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\STORM DRAIN CONTROL\6.1-EDER STORM DRAIN CONTROL.dwg

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL EDER ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO	Sheet
Date	08-Aug-2025	HC5-02
Scale	1" = 40'	

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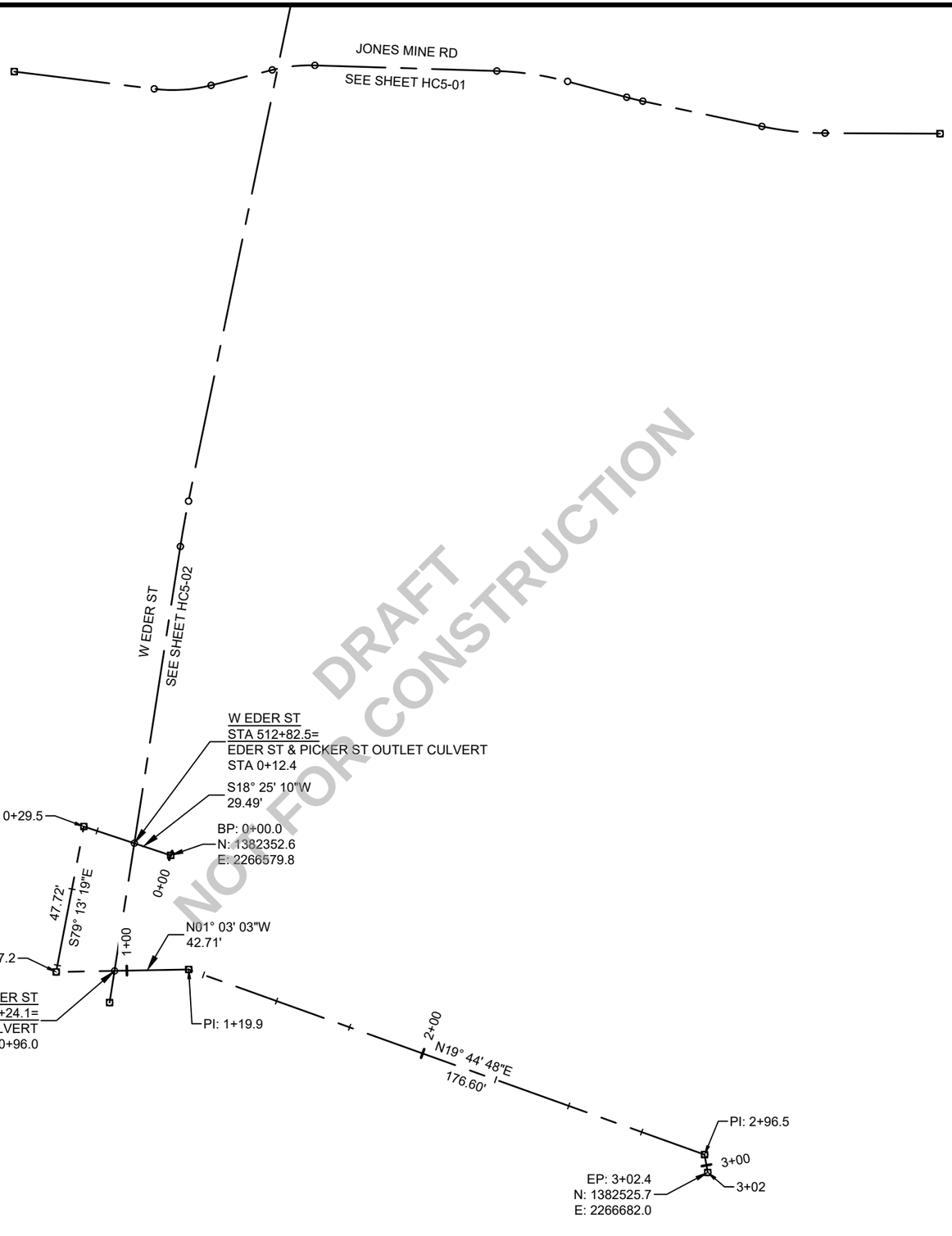
207



DRAFT
NOT FOR CONSTRUCTION

01 **EDER ST & PICKER ST OUTLET CULVERT PLAN VIEW**
SCALE - 1" = 40'

SCALE IN FEET
0 20 40

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\STORM DRAIN CONTROL\6.1-EDER STORM DRAIN CONTROL.dwg

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL EDER ST & PICKER OUTLET CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: HC5-03
Date: 08-Aug-2025	
Scale: 1" = 40'	

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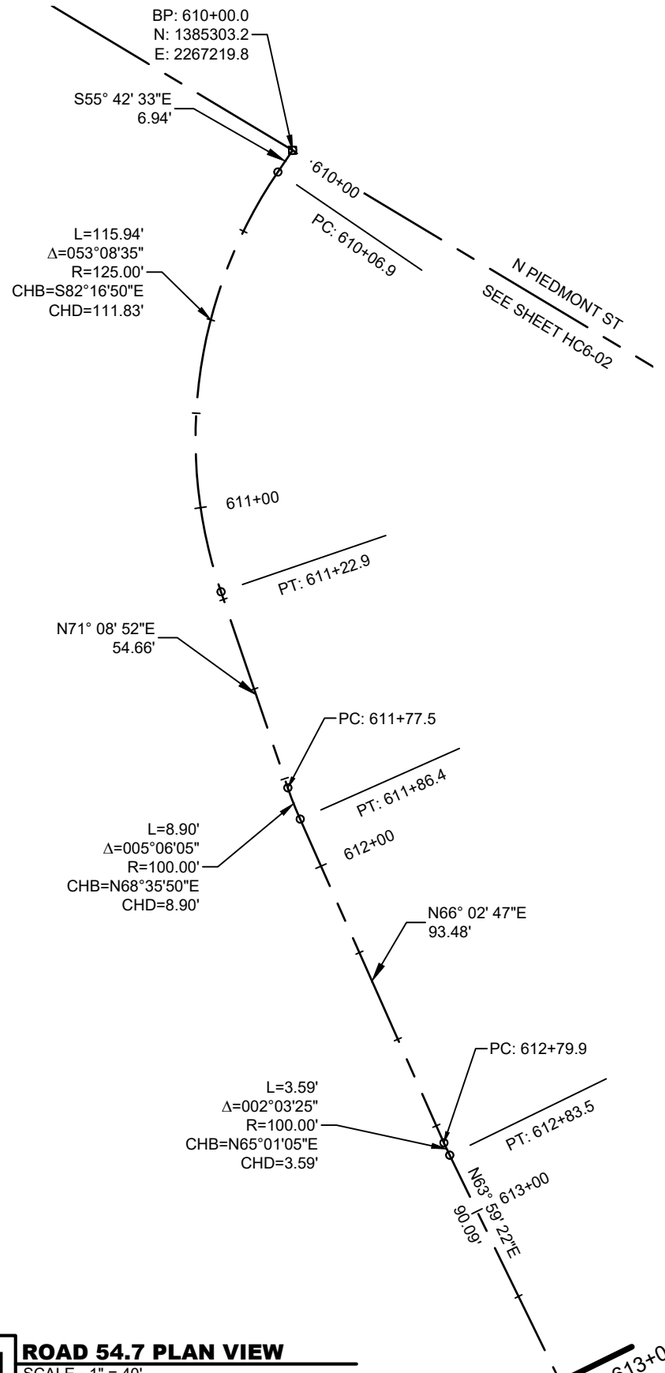
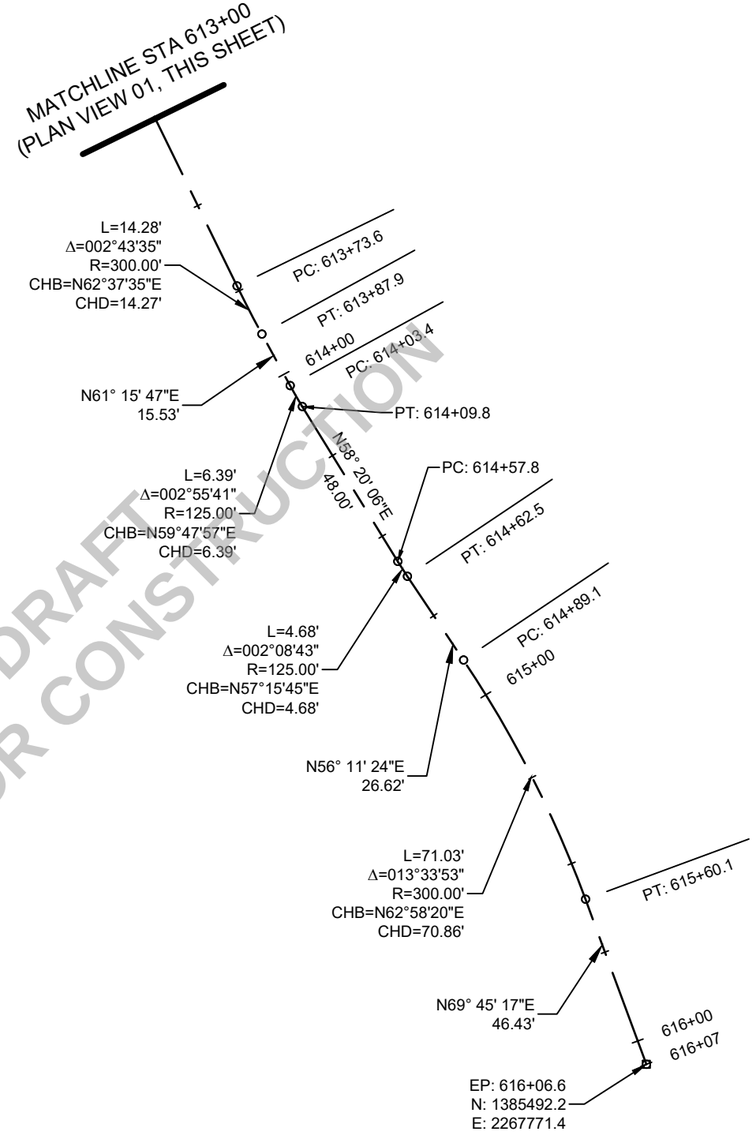


01 **ROAD 54.7 PLAN VIEW**
SCALE - 1" = 40'



02 **ROAD 54.7 PLAN VIEW**
SCALE - 1" = 40'

DRAFT
NOT FOR CONSTRUCTION

SCALE IN FEET
0 20 40

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HORIZONTAL CONTROL ROAD 54.7

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO	Sheet	HC6-01
Date	08-Aug-2025		
Scale	1" = 40'		

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.0 Stormwater Management Plan\Production\STORM DRAIN CONTROL\7.1 PIEDMONT STORM DRAIN CONTROL.dwg

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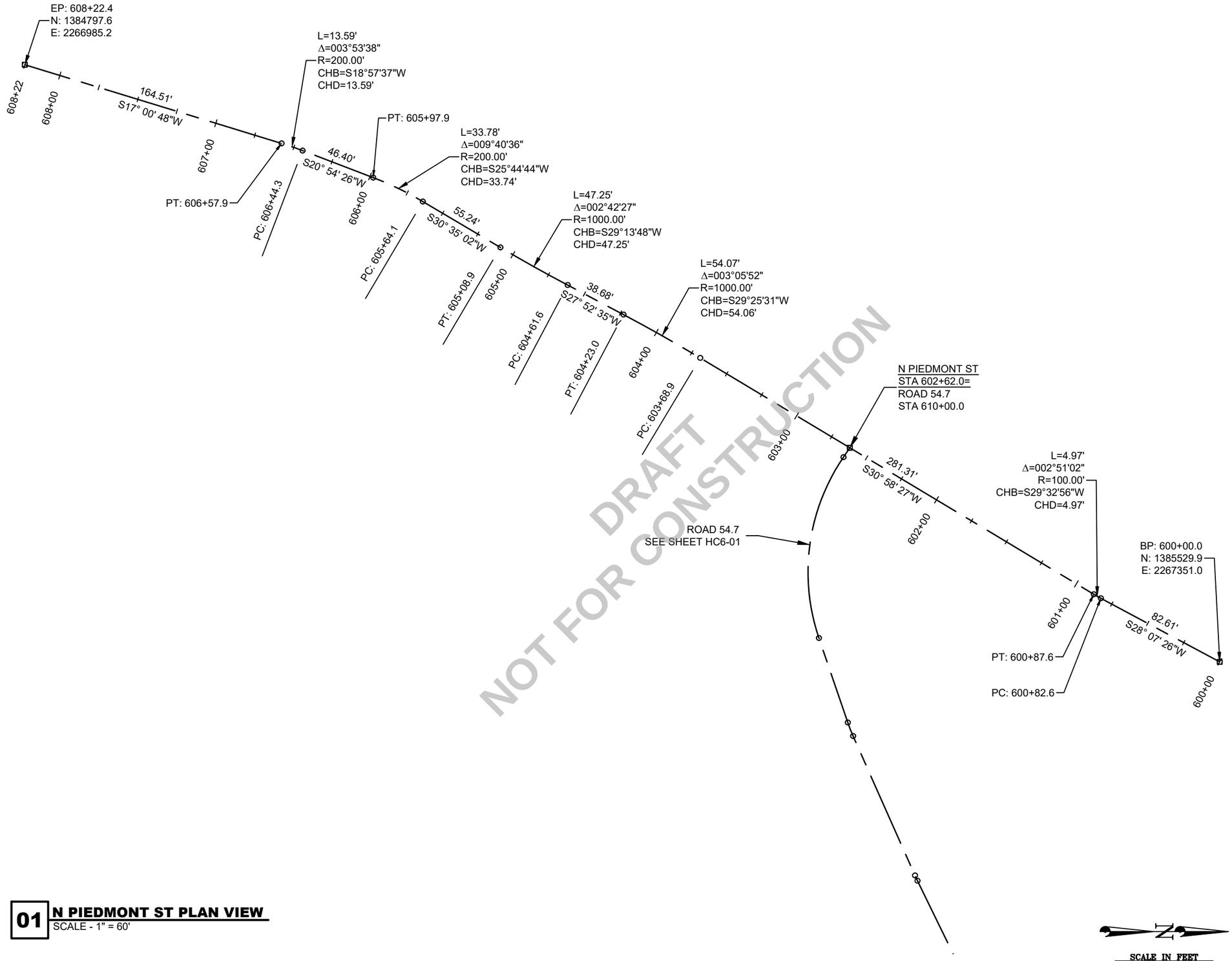

DRAFT
NOT FOR CONSTRUCTION

01 N PIEDMONT ST PLAN VIEW
SCALE - 1" = 60'

SCALE IN FEET
0 30 60

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

HORIZONTAL CONTROL
PIEDMONT ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	Sheet
RICO	HC6-02
Date: 08-Aug-2025	
Scale: 1" = 60'	

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210

REMEDIAL AREA SHEET INDEX

RM1-01 - REMEDIATION AREAS ZONE 1
RM1-02 - REMEDIATION AREAS ZONE 1
RM2-01 - REMEDIATION AREAS ZONE 2
RM3-01 - REMEDIATION AREAS ZONES 3 & 4

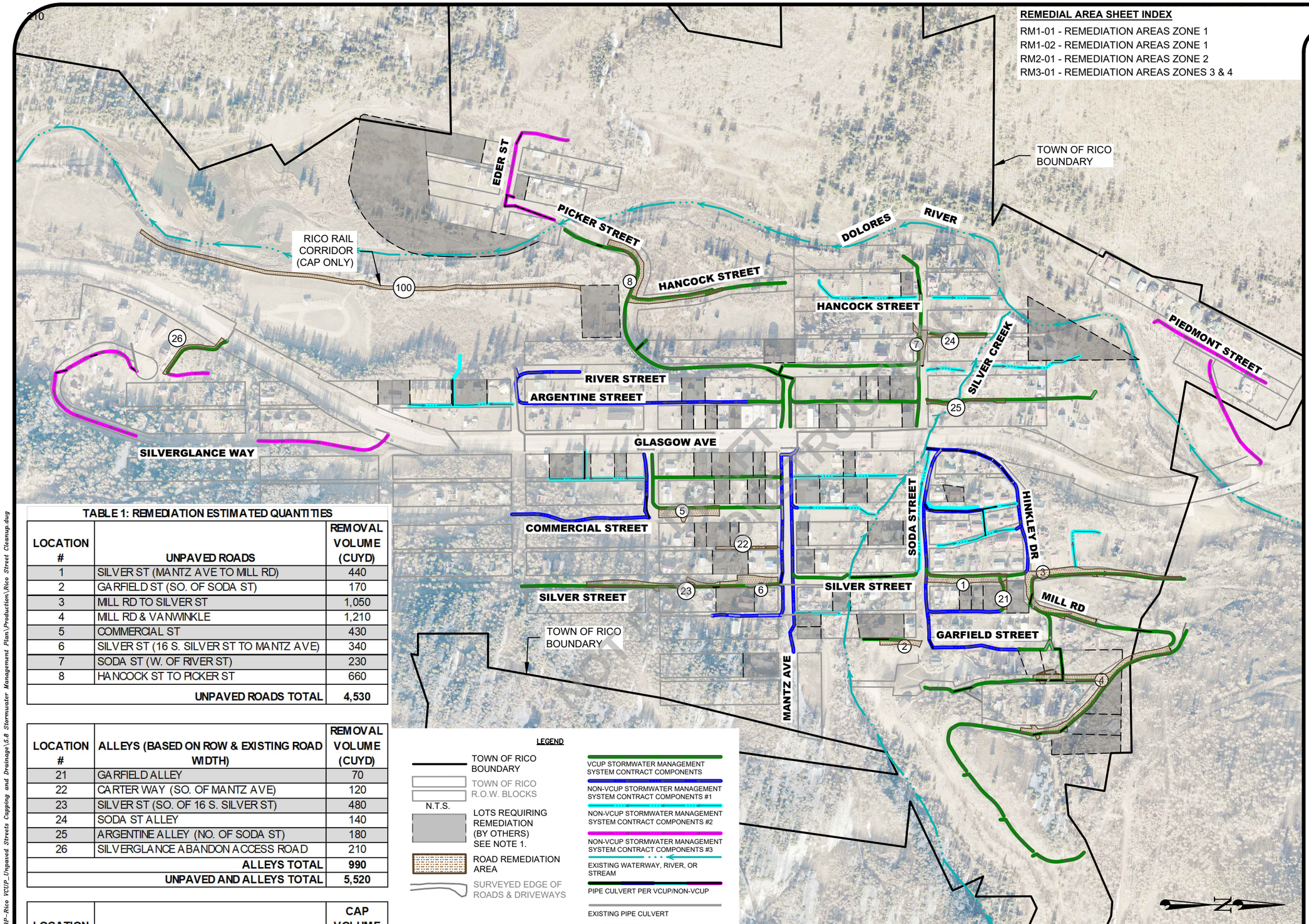

TABLE 1: REMEDIATION ESTIMATED QUANTITIES

LOCATION #	UNPAVED ROADS	REMOVAL VOLUME (CUYD)
1	SILVER ST (MANTZ AVE TO MILL RD)	440
2	GARFIELD ST (SO. OF SODA ST)	170
3	MILL RD TO SILVER ST	1,050
4	MILL RD & VANWINKLE	1,210
5	COMMERCIAL ST	430
6	SILVER ST (16 S. SILVER ST TO MANTZ AVE)	340
7	SODA ST (W. OF RIVER ST)	230
8	HANCOCK ST TO PICKER ST	660
	UNPAVED ROADS TOTAL	**4,530**

LOCATION #	ALLEYS (BASED ON ROW & EXISTING ROAD WIDTH)	REMOVAL VOLUME (CUYD)
21	GARFIELD ALLEY	70
22	CARTER WAY (SO. OF MANTZ AVE)	120
23	SILVER ST (SO. OF 16 S. SILVER ST)	480
24	SODA ST ALLEY	140
25	ARGENTINE ALLEY (NO. OF SODA ST)	180
26	SILVERGLANCE ABANDON ACCESS ROAD	210
	ALLEYS TOTAL	**990**
	UNPAVED AND ALLEYS TOTAL	**5,520**

LOCATION #	CAP VOLUME	CAP VOLUME (CUYD)
100	RAIL CORRIDOR	**1,060**

LEGEND

- TOWN OF RICO BOUNDARY
- TOWN OF RICO R.O.W. BLOCKS
- N.T.S.
- LOTS REQUIRING REMEDIATION (BY OTHERS) SEE NOTE 1.
- ROAD REMEDIATION AREA
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS
- NON-VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS #1
- NON-VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS #2
- NON-VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS #3
- EXISTING WATERWAY, RIVER, OR STREAM
- PIPE CULVERT PER VCUP/NON-VCUP
- EXISTING PIPE CULVERT

01 REMEDIAL CLEANUP AREAS OVERVIEW
SCALE - 1" = 400'

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

REMEDIAL CLEANUP AREAS OVERVIEW

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: RM-01
Date: 01-Oct-2025	
Scale: 1" = 400'	

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\Rico Street Cleanup.dwg

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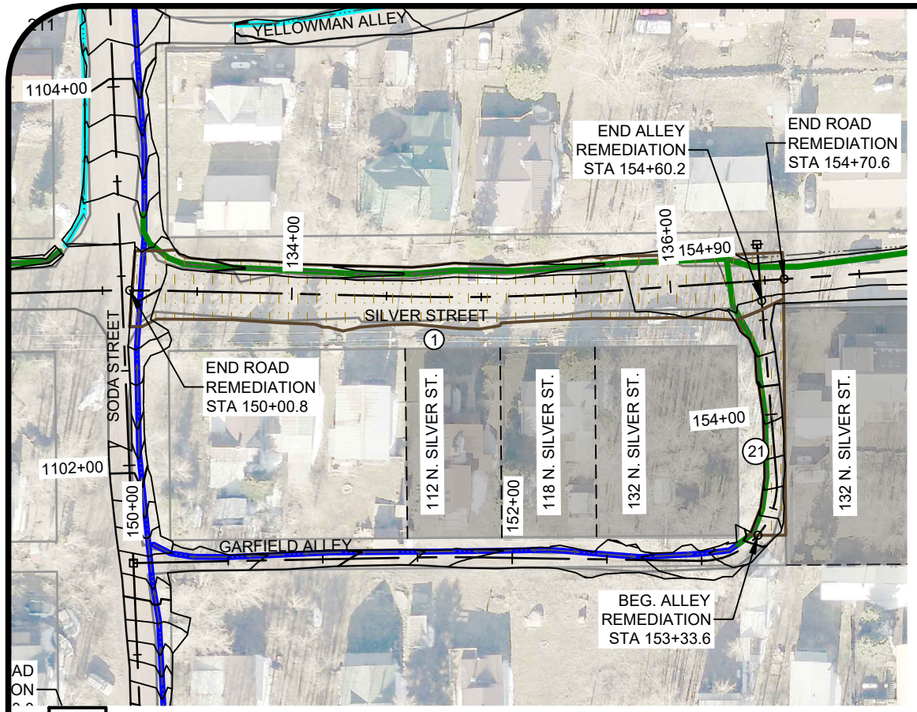
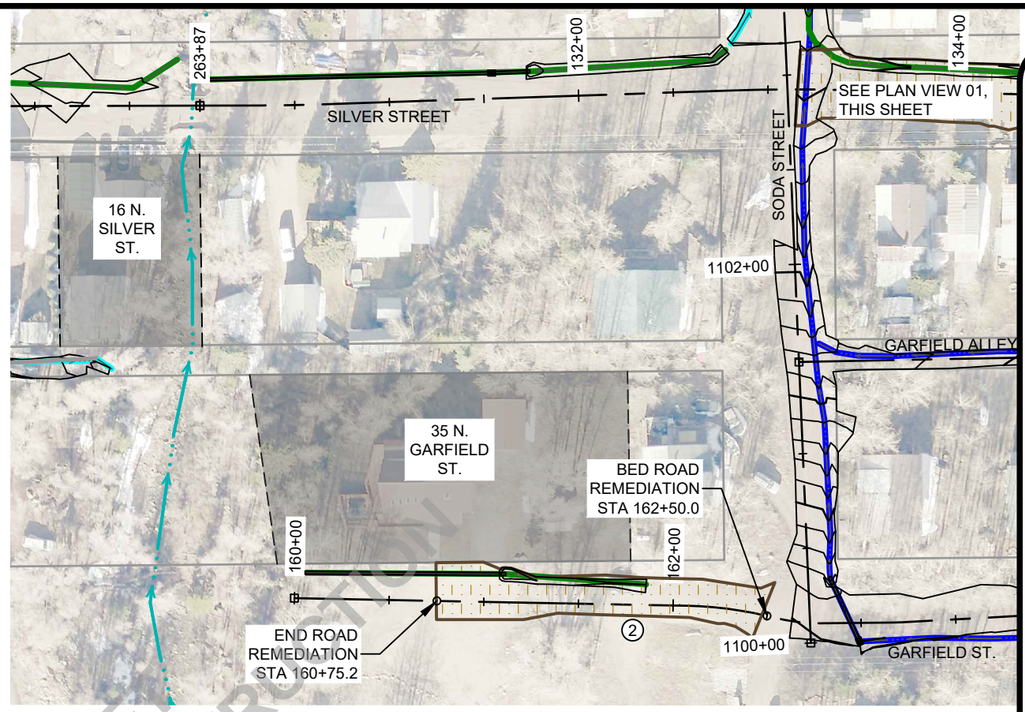


01 **REMEDIATION AREA SILVER ST. & GARFIELD ALLEY PLAN VIEW**
SCALE - 1" = 80'



02 **REMEDIATION AREA SILVER ST. & GARFIELD ST. PLAN VIEW**
SCALE - 1" = 80'

SCALE IN FEET
0 40 80

DRAFT
NOT FOR CONSTRUCTION

LEGEND

- TOWN OF RICO R.O.W. BLOCKS (N.T.S.)
- LOTS REQUIRING REMEDIATION (BY OTHERS) SEE NOTE 1
- LOTS REQUIRING NO REMEDIATION
- ROAD REMEDIATION AREA
- 2-FT DITCH & GRADING CONTOURS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- (1) REMEDIATION AREA LOCATION MARKER (REFERENCE TABLE 01 ON SHEET RM-01)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS
- NON-VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS #1
- NON-VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS #2
- EXISTING WATERWAY, RIVER, OR STREAM
- PIPE CULVERT PER VCUP/NON-VCUP

General Notes

1. LOTS IDENTIFIED AS REQUIRING REMEDIATION AS OF 01/01/2025

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

REMEDIATION AREAS ZONE 1

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	01-Oct-2025
Scale	1" = 80'
Sheet	RM1-01

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\Rico Street Cleanup.dwg

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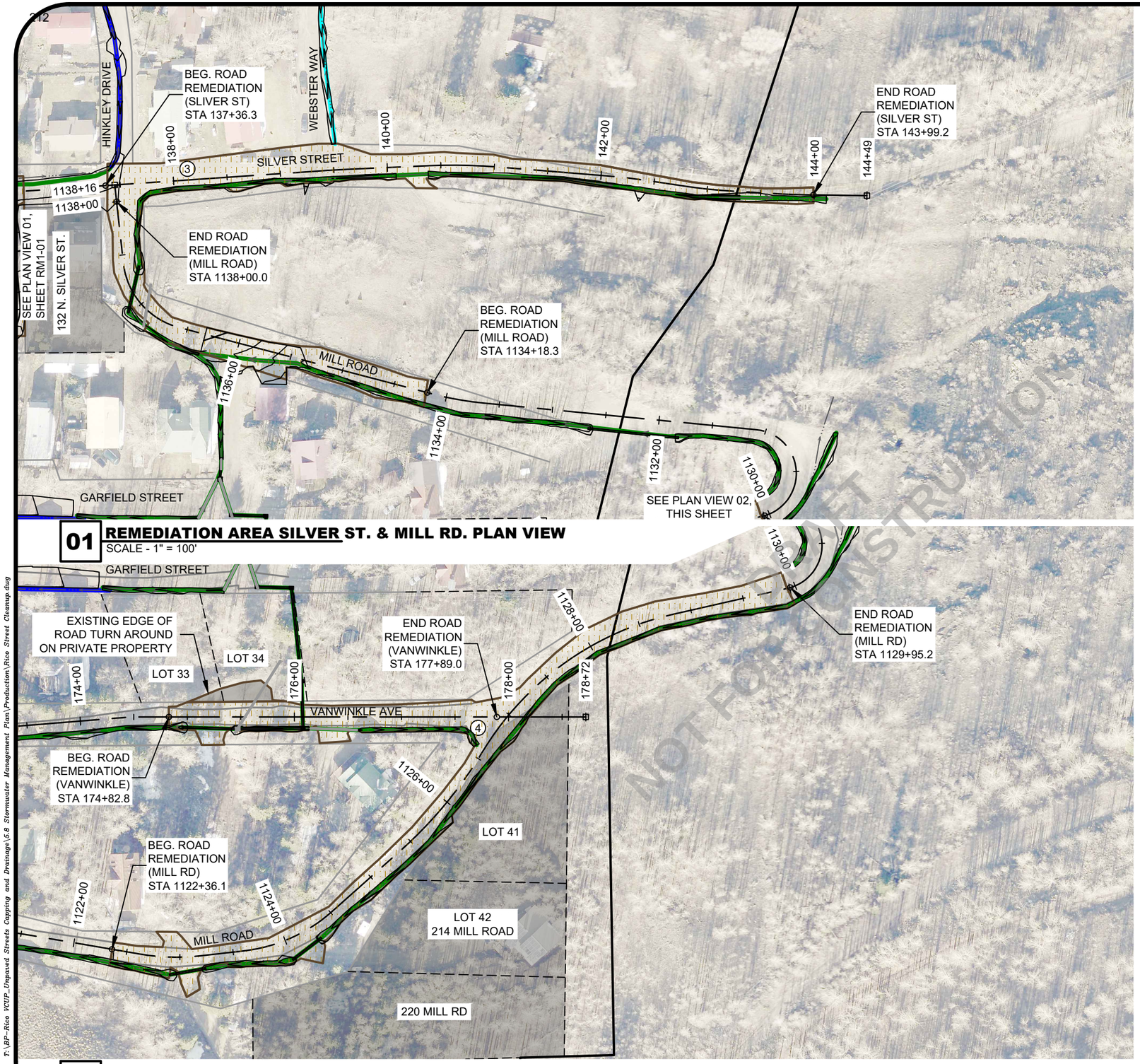

01 **REMEDIATION AREA SILVER ST. & MILL RD. PLAN VIEW**
SCALE - 1" = 100'

02 **REMEDIATION AREA MILL RD. & VANWINKLE AVE. PLAN VIEW**
SCALE - 1" = 100'

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- N.T.S.
- LOTS REQUIRING REMEDIATION (BY OTHERS) SEE NOTE 1
- LOTS REQUIRING NO REMEDIATION
- ROAD REMEDIATION AREA
- 2-FT DITCH & GRADING CONTOURS
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- (1) REMEDIATION AREA LOCATION MARKER (REFERENCE TABLE 01 ON SHEET RM-01)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS
- NON-VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS #1
- NON-VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS #2
- EXISTING WATERWAY, RIVER, OR STREAM
- PIPE CULVERT PER VCUP/NON-VCUP
- EXISTING PIPE CULVERT

General Notes

1. LOTS IDENTIFIED AS REQUIRING REMEDIATION AS OF 01/01/2025

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

REMEDIATION AREAS ZONE 1

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	01-Oct-2025
Scale	1" = 100'
Sheet	RM1-02

SCALE IN FEET
0 50 100

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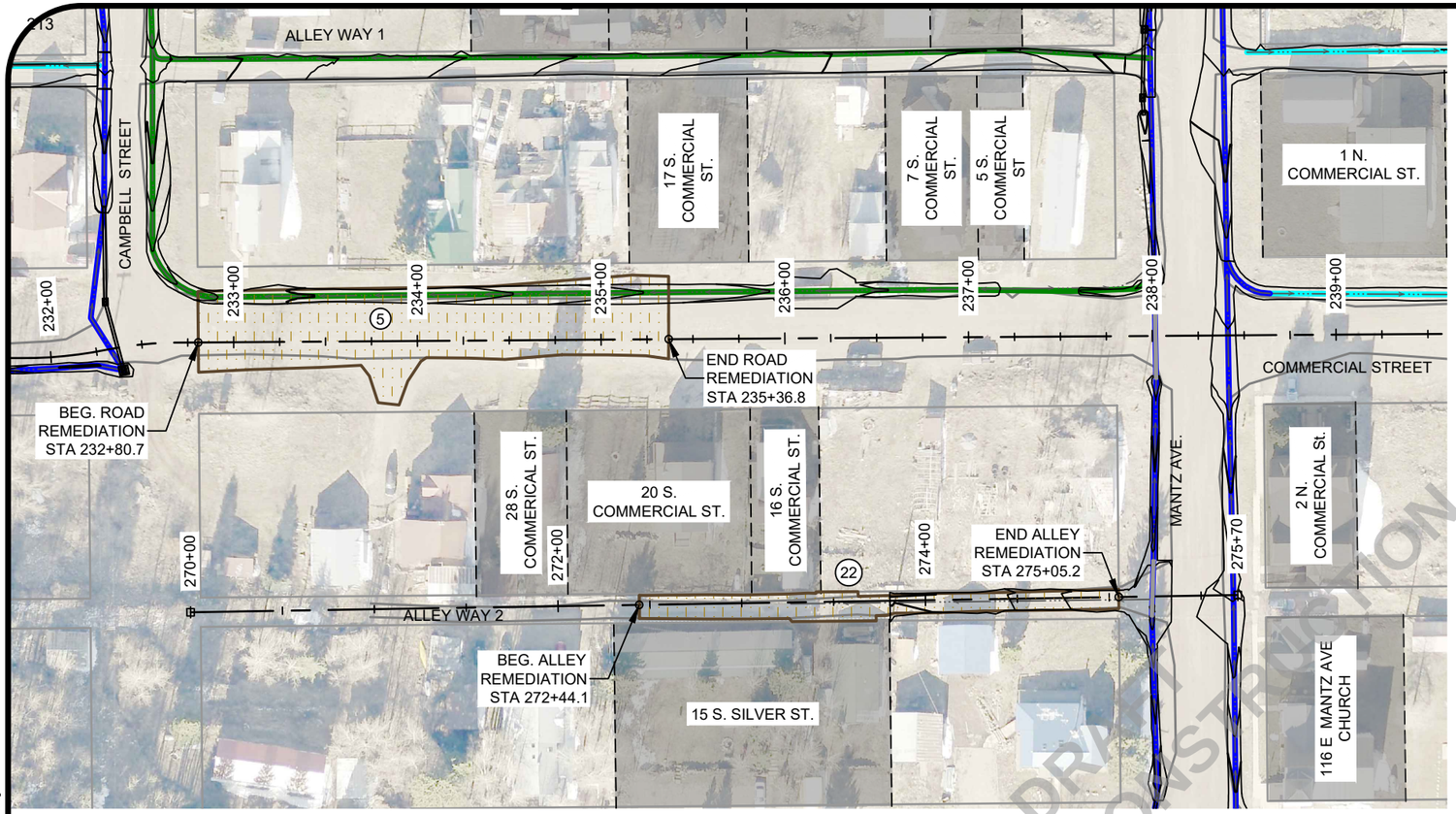
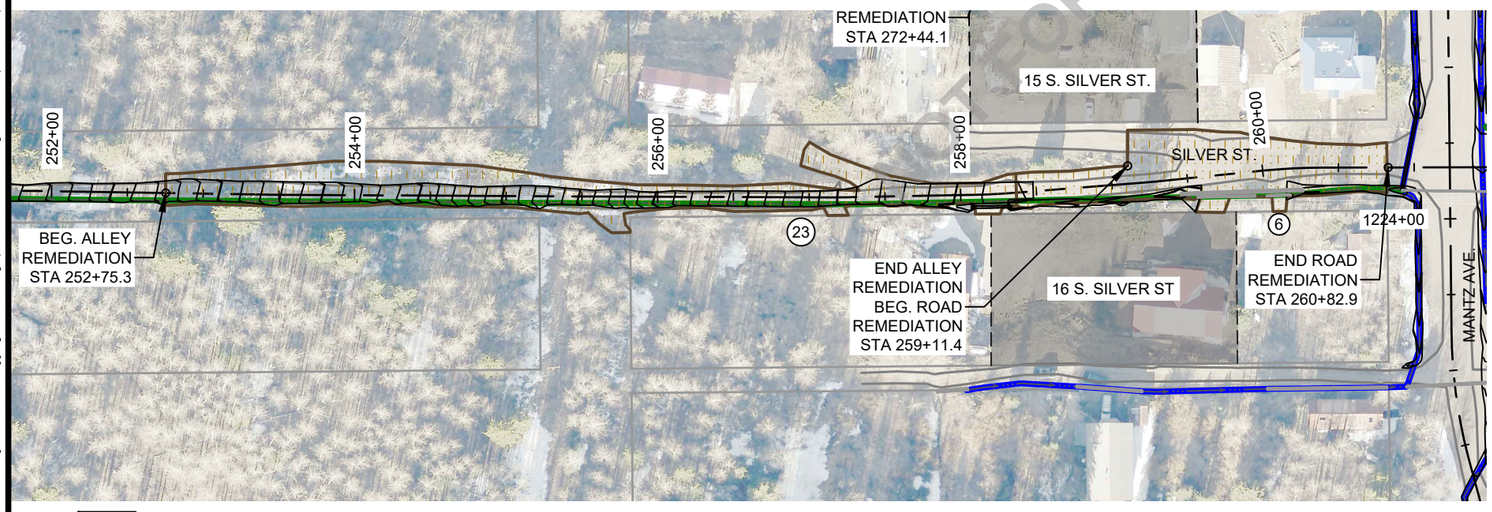


01 **REMEDIATION AREA ALLEY WAY-1, COMMERCIAL ST. & ALLEY WAY-2 PLAN VIEW**
SCALE - 1" = 80'

SCALE IN FEET
0 40 80



02 **REMEDIATION AREA SILVER ST. PLAN VIEW**
SCALE - 1" = 100'

SCALE IN FEET
0 50 100

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- N.T.S.
- LOTS REQUIRING REMEDIATION (BY OTHERS) SEE NOTE 1
- LOTS REQUIRING NO REMEDIATION
- ROAD REMEDIATION AREA
- 2-FT DITCH & GRADING CONTOURS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- (1) REMEDIATION AREA LOCATION MARKER (REFERENCE TABLE 01 ON SHEET RM-01)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS
- NON-VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS #1
- NON-VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS #2
- EXISTING WATERWAY, RIVER, OR STREAM
- PIPE CULVERT PER VCUP/NON-VCUP
- EXISTING PIPE CULVERT

General Notes

1. LOTS IDENTIFIED AS REQUIRING REMEDIATION AS OF 01/01/2025

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

REMEDIATION AREAS ZONE 2

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	01-Oct-2025
Scale	AS SHOWN
Sheet	RM2-01

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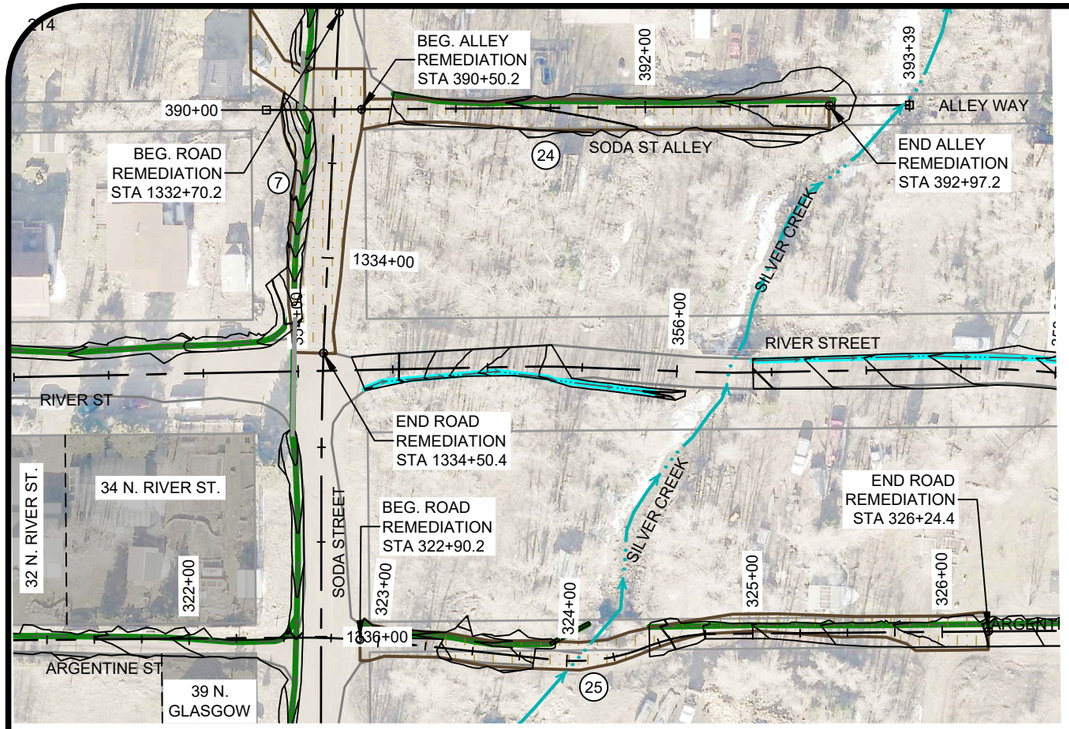
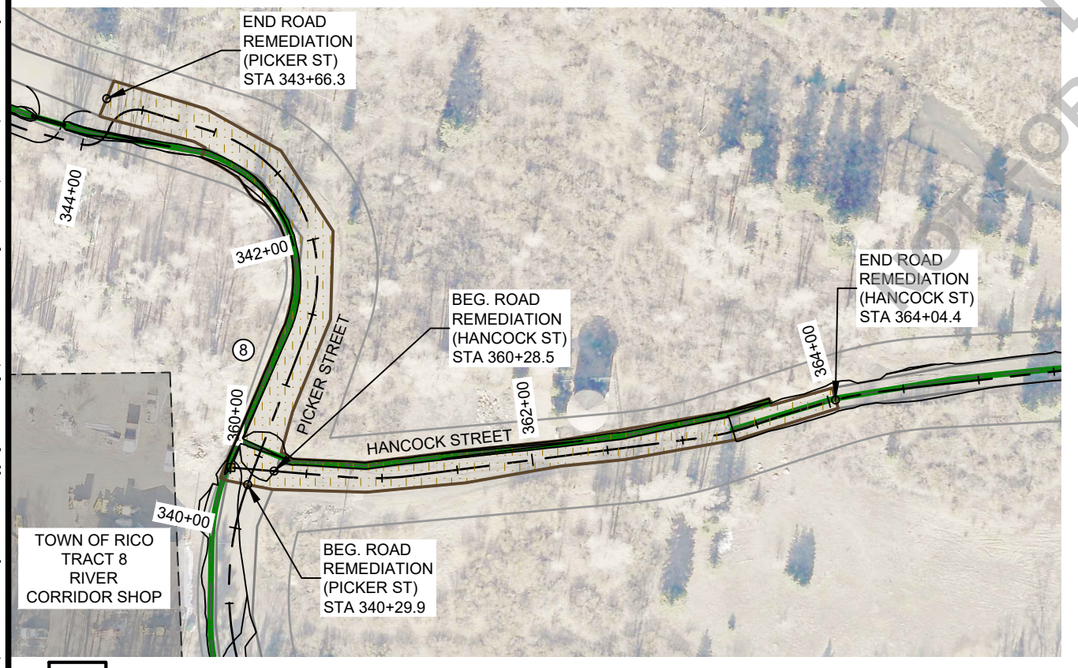


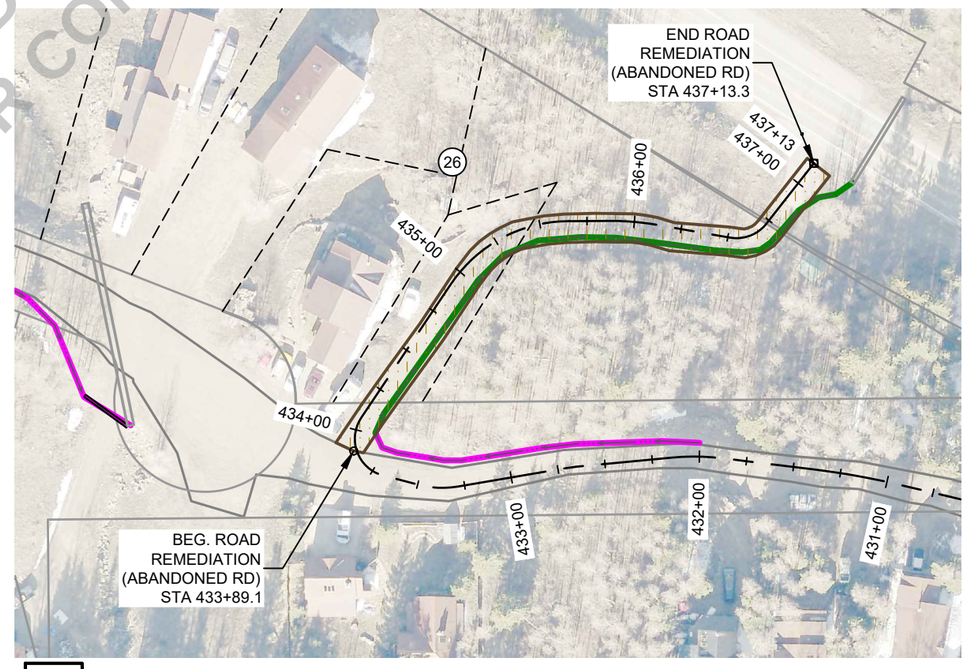
01 **REMEDIATION AREA SODA ST., ARGENTINE ST., RIVER ST. & ALLEY WAY PLAN VIEW**
SCALE - 1" = 80'

SCALE IN FEET
0 40 80



02 **REMEDIATION AREA PICKER ST. & HANCOCK ST. PLAN VIEW**
SCALE - 1" = 100'

SCALE IN FEET
0 50 100



03 **REMEDIATION AREA SILVERGLANCE ABANDONED ROAD**
SCALE - 1" = 80'

SCALE IN FEET
0 40 80

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- N.T.S.
- LOTS REQUIRING REMEDIATION (BY OTHERS) SEE NOTE 1
- LOTS REQUIRING NO REMEDIATION
- ROAD REMEDIATION AREA
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- SURVEYED EDGE OF ROADS & DRIVEWAYS
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- NON-VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS #1
- NON-VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS #2
- EXISTING WATERWAY, RIVER, OR STREAM
- PIPE CULVERT PER VCUP/NON-VCUP

General Notes

1. LOTS IDENTIFIED AS REQUIRING REMEDIATION AS OF 01/01/2025

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

REMEDIATION AREAS ZONES 3 & 4

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	01-Oct-2025
Scale	AS SHOWN
Sheet	RM3-01

DRAFT NOT FOR CONSTRUCTION

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.0 Stormwater Management Plan\Production\Rico Street Cleanup.dwg

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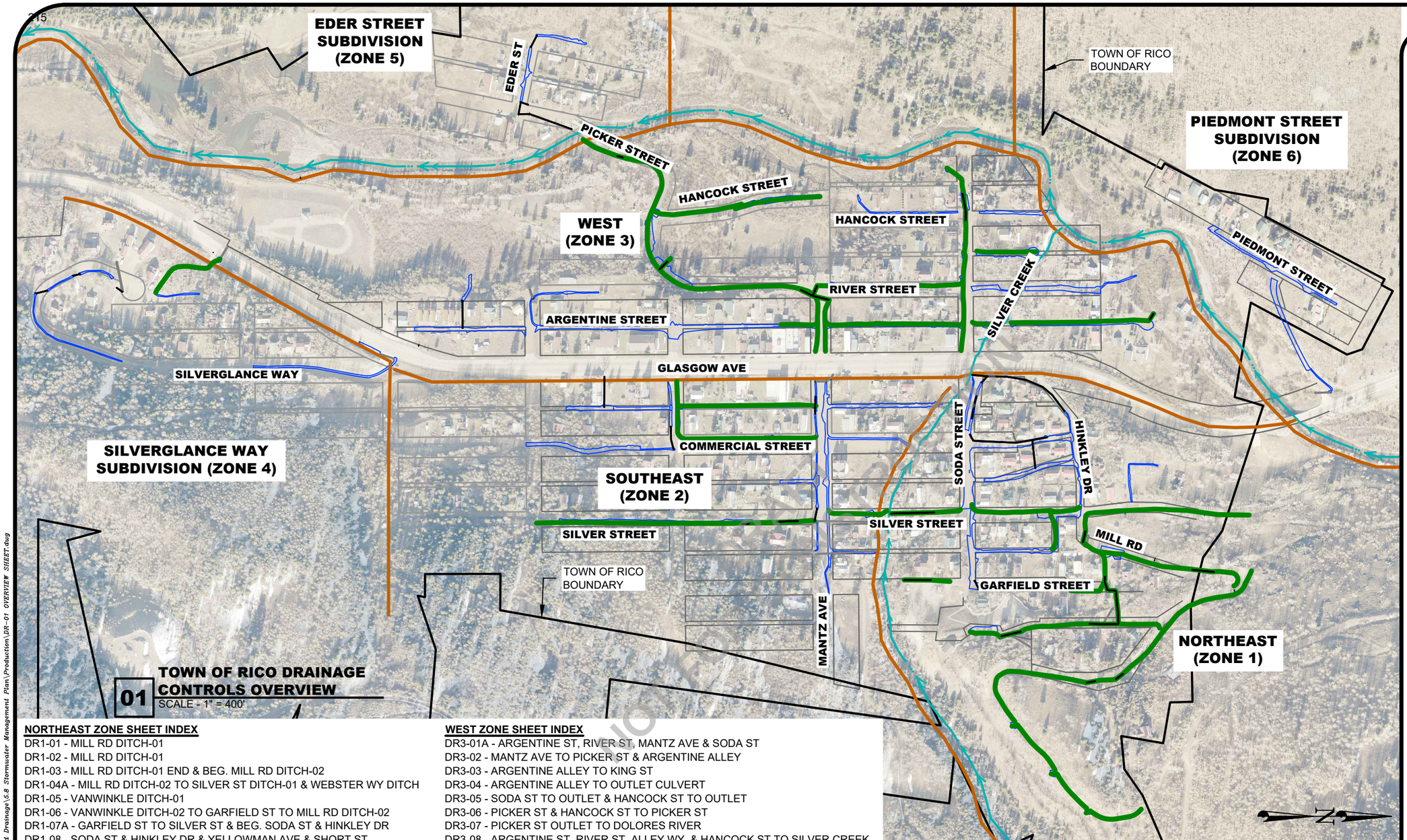

NORTHEAST ZONE SHEET INDEX

DR1-01 - MILL RD DITCH-01
DR1-02 - MILL RD DITCH-01
DR1-03 - MILL RD DITCH-01 END & BEG. MILL RD DITCH-02
DR1-04A - MILL RD DITCH-02 TO SILVER ST DITCH-01 & WEBSTER WY DITCH
DR1-05 - VANWINKLE DITCH-01
DR1-06 - VANWINKLE DITCH-02 TO GARFIELD ST TO MILL RD DITCH-02
DR1-07A - GARFIELD ST TO SILVER ST & BEG. SODA ST & HINKLEY DR
DR1-08 - SODA ST & HINKLEY DR & YELLOWMAN AVE & SHORT ST
DR1-09 - GARFIELD ST & SILVER ST TO SILVER CREEK & SODA ST
DR1-10 - SODA ST DITCHES 01 & 02 AND HINKLEY DR TO SILVER CREEK

SOUTHEAST ZONE SHEET INDEX

DR2-01A - MANTZ DITCH-01, CARTER WY & SILVER ST NORTH TO CREEK
DR2-02A - MANTZ DITCH-01, COMMERCIAL ST & ALLEY-1 NORTH TO CREEK
DR2-03 - SILVER ST SO. ROAD GRADING
DR2-04 - SILVER ST SO. ROAD GRADING, CARTER WY & MANTZ DITCH-02
DR2-05A - MANTZ DITCH-02 & CAMPBELL DITCH-01, COMMERCIAL ST & ALLEY-1
DR2-06 - COMMERCIAL ST TO CAMPBELL DITCH-02, & ALLEY-1 TO OUTLET

WEST ZONE SHEET INDEX

DR3-01A - ARGENTINE ST, RIVER ST, MANTZ AVE & SODA ST
DR3-02 - MANTZ AVE TO PICKER ST & ARGENTINE ALLEY
DR3-03 - ARGENTINE ALLEY TO KING ST
DR3-04 - ARGENTINE ALLEY TO OUTLET CULVERT
DR3-05 - SODA ST TO OUTLET & HANCOCK ST TO OUTLET
DR3-06 - PICKER ST & HANCOCK ST TO PICKER ST
DR3-07 - PICKER ST OUTLET TO DOLORES RIVER
DR3-08 - ARGENTINE ST, RIVER ST, ALLEY WY, & HANCOCK ST TO SILVER CREEK
DR3-09 - ARGENTINE ALLEY & RIVER STREET NORTH OF SILVER CREEK

SILVERGLANCE WAY ZONE SHEET INDEX

DR4-01 - SILVERGLANCE WY TO GLASGOW HWY
DR4-02 - SILVERGLANCE WY TO EXISTING SILVERGLANCE CULVERT
DR4-03 - SILVERGLANCE WY TO ABANDONED ACCESS ROAD TO EXSTING CULVERT

EDER STREET ZONE SHEET INDEX

DR5-01 - JONES MINE RD, EDER ST, & PICKER ST

PIEDMONT STREET ZONE SHEET INDEX

DR6-01 - PIEDMONT ST & ROAD 54.7
DR6-02 - ROAD 54.7 OUTLET

Legend

- TOWN OF RICO BOUNDARY
- TOWN OF RICO R.O.W. BLOCKS
- N.T.S.
- DITCH & ROAD GRADING LOCATIONS
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS
- DOLORES RIVER/SILVER CREEK FLOWLINE
- ZONE DIVISION LINES
- VCUP & NON-VCUP PIPE NETWORK

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

DRAINAGE CONTROLS OVERVIEW

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR-01
Date: 10-Oct-2025	
Scale: 1" = 400'	

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5-8 Stormwater Management Plan\Production\DR-01 OVERVIEW SHEET.dwg

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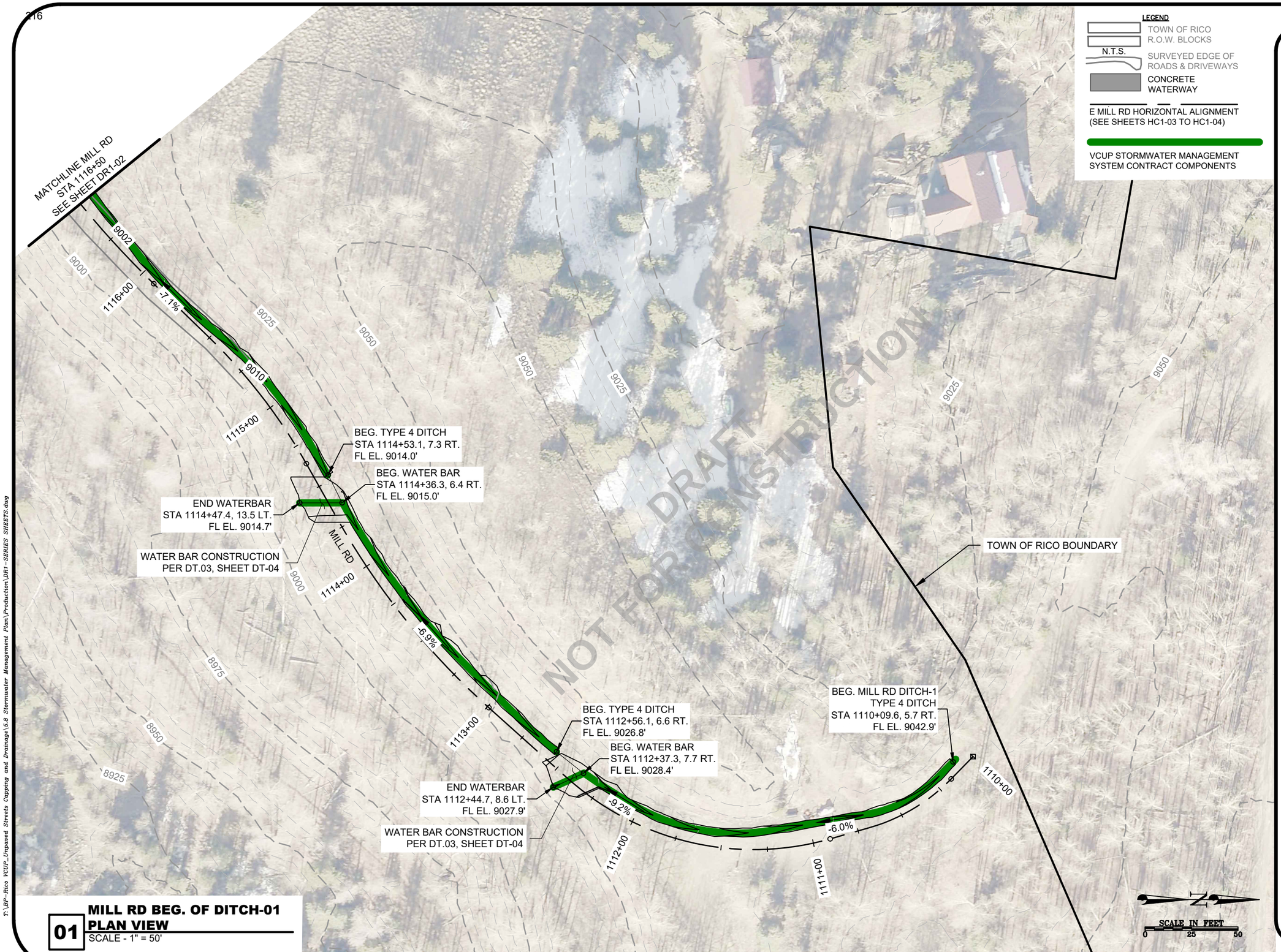

01 MILL RD BEG. OF DITCH-01 PLAN VIEW
SCALE - 1" = 50'

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

MILL RD DITCH-01

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 50'
Sheet	DR1-01

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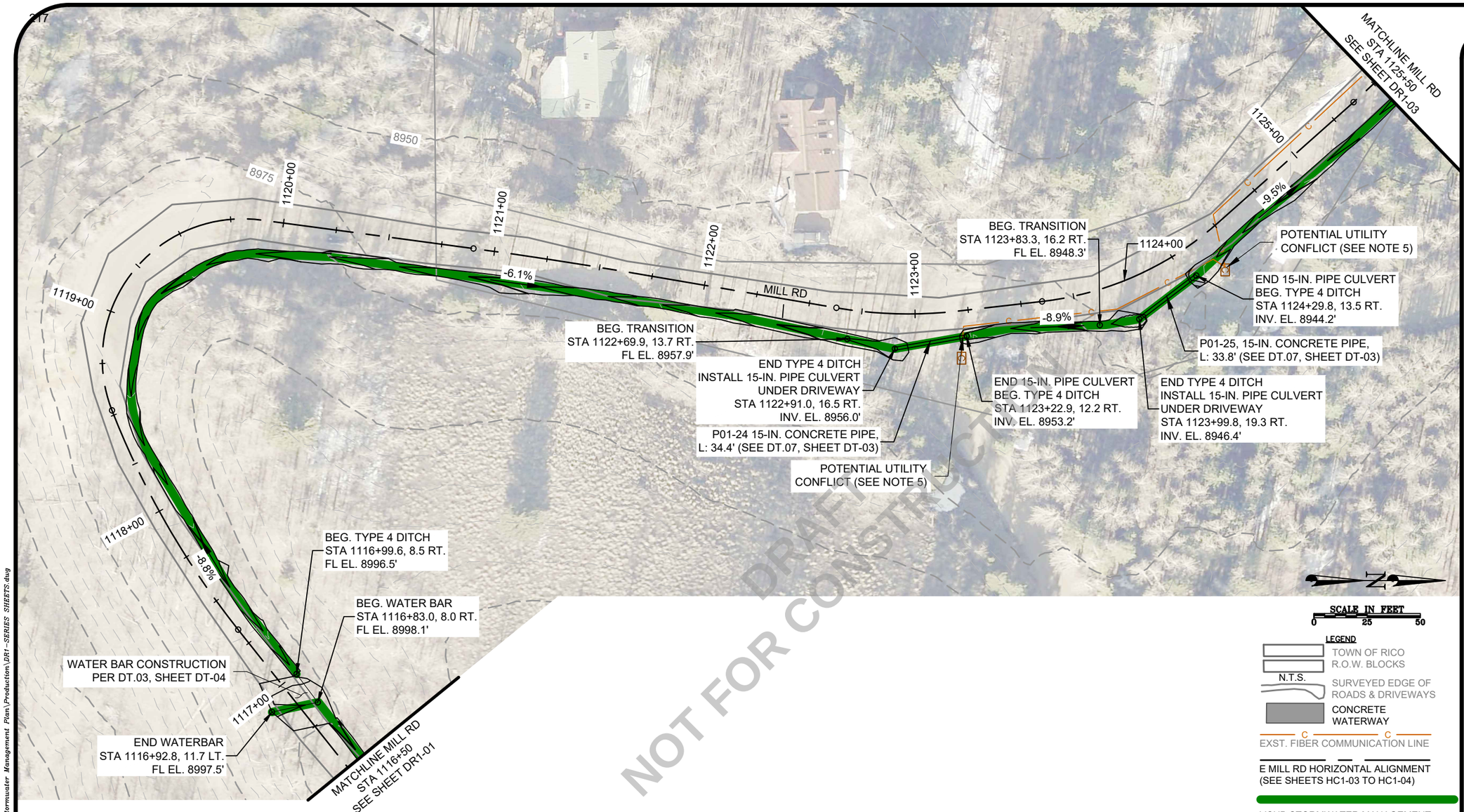

01 MILL RD DITCH-01
PLAN VIEW
SCALE - 1" = 50'

SCALE IN FEET
0 25 50

LEGEND
- TOWN OF RICO R.O.W. BLOCKS
- N.T.S. SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- C C EXST. FIBER COMMUNICATION LINE
- E MILL RD HORIZONTAL ALIGNMENT (SEE SHEETS HC1-03 TO HC1-04)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE TWO DRIVEWAY PIPE CULVERTS. A 6-FT CONCRETE WATERWAY MAY BE USED AS AN ALTERNATIVE AS APPROVED BY THE TOWN OF RICO.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

MILL RD DITCH-01

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR1-02
Date: 22-Oct-2025	
Scale: 1" = 50'	

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\DR1-SERIES SHEETS.dwg

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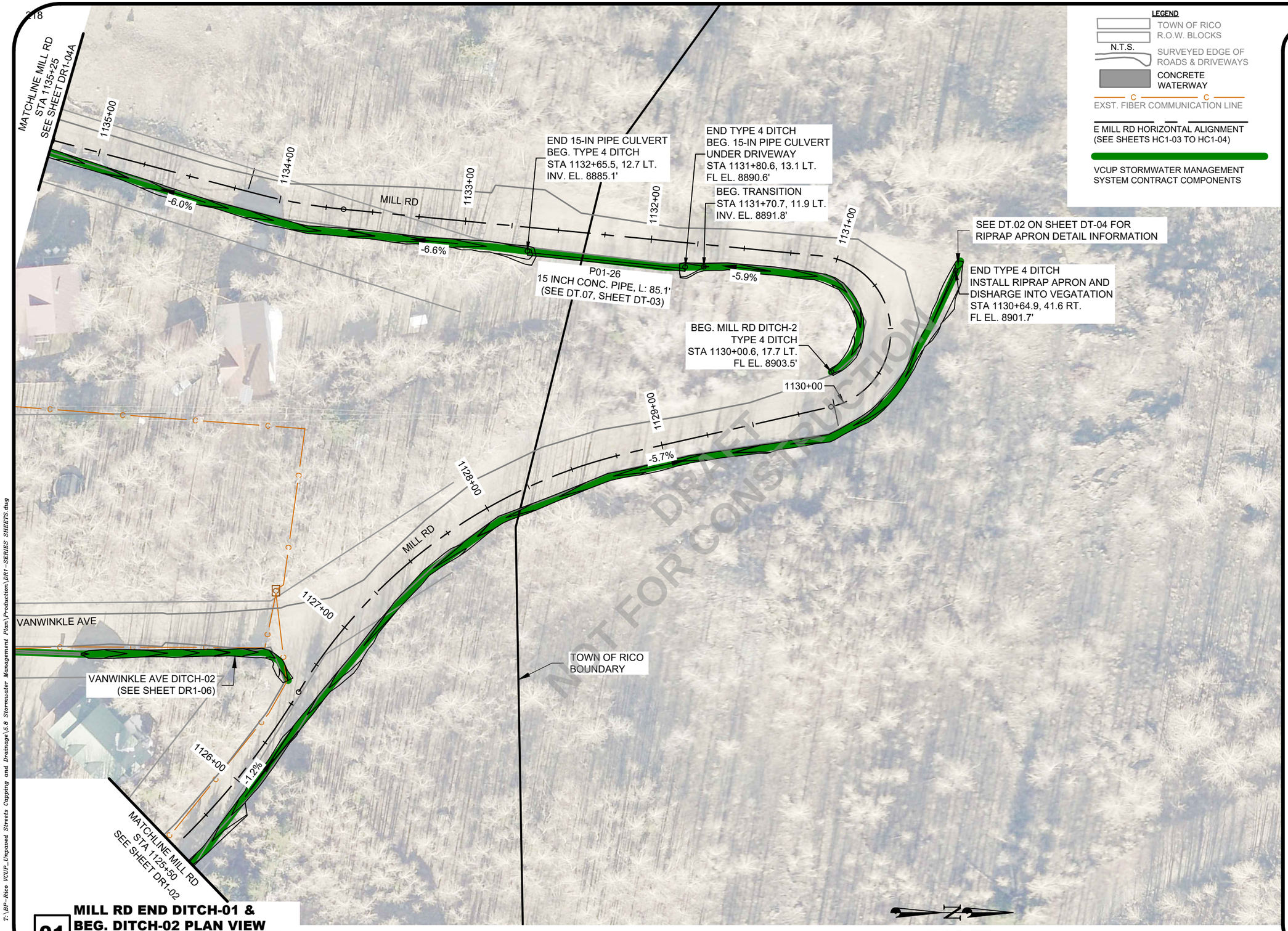

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- N.T.S. SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- C — C EXST. FIBER COMMUNICATION LINE
- E MILL RD HORIZONTAL ALIGNMENT (SEE SHEETS HC1-03 TO HC1-04)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

General Notes

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4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

01 MILL RD END DITCH-01 & BEG. DITCH-02 PLAN VIEW
SCALE - 1" = 50'

N

SCALE IN FEET
0 25 50

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

MILL RD DITCH-01 END & BEG. MILL RD DITCH-02

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 50'
Sheet	DR1-03

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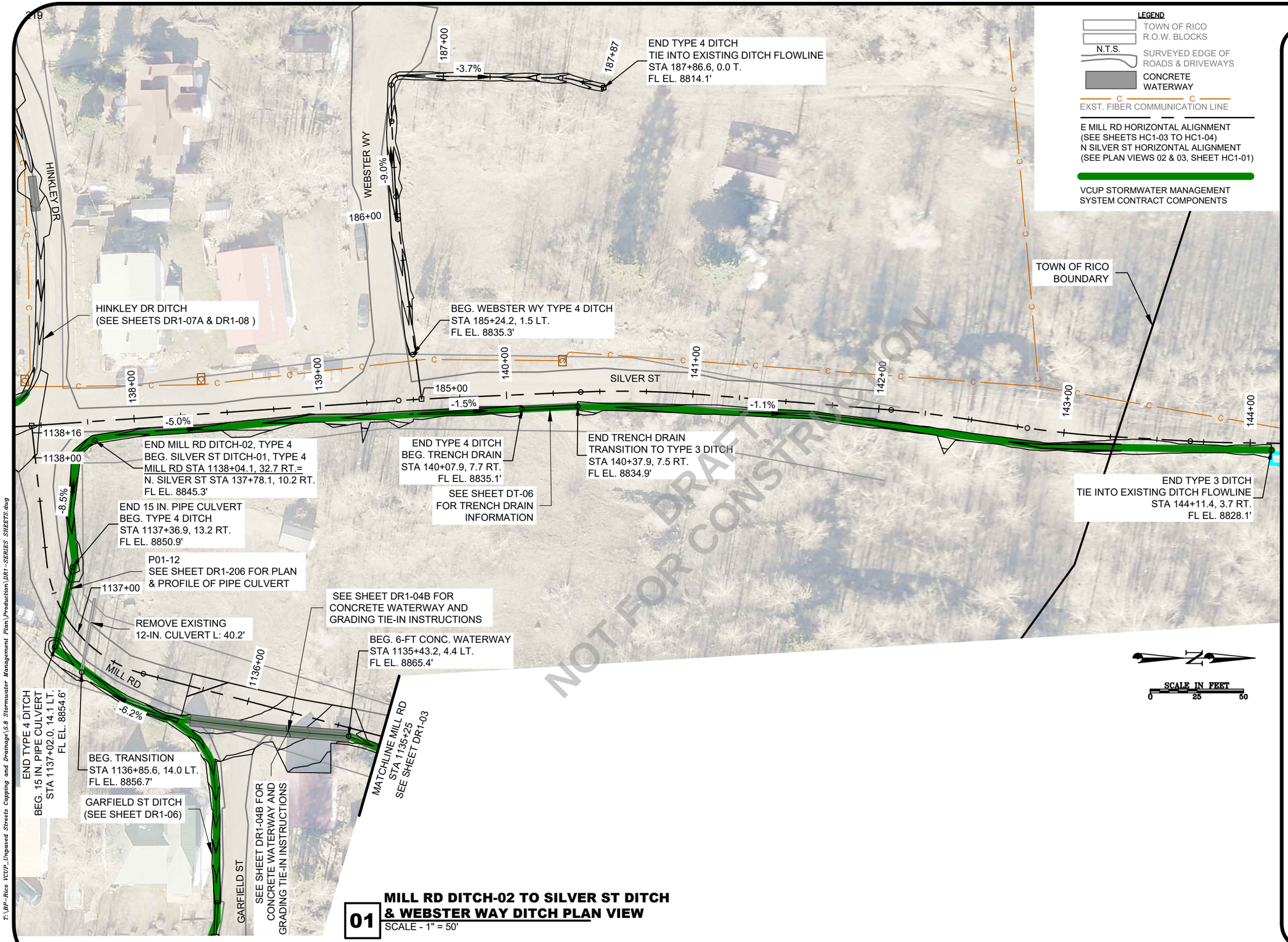

01 **MILL RD DITCH-02 TO SILVER ST DITCH & WEBSTER WAY DITCH PLAN VIEW**
SCALE - 1" = 50'

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

MILL RD DITCH-02 TO SILVER ST
DITCH-01 & WEBSTER WY DITCH

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR1-04A
Date: 22-Oct-2025	
Scale: 1" = 50'	

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.6 Stormwater Management Plan\Production\DR1--SERIES SHEETS.dwg

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220

LEGEND

N.T.S.

SURVEYED EDGE OF ROADS & DRIVEWAYS

CONCRETE WATERWAY

FLOWLINE

E MILL RD HORIZONTAL ALIGNMENT (SEE SHEETS HC1-03 TO HC1-04)

VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

MILL RD. ROW BOUNDARY LINE

TIE INTO EXISTING EDGE OF ROAD
STA 1136+32.6, 6.7 RT.
EL. 8859.3' (MATCH EXISTING)

TIE INTO EXISTING EDGE OF ROAD
STA 1135+97.9, 7.3 RT.
EL. 8860.6' (MATCH EXISTING)

TIE INTO EXISTING EDGE OF ROAD
STA 1135+72.7, 8.2 RT.
EL. 8862.5' (MATCH EXISTING)

TIE INTO EXISTING EDGE OF ROAD
STA 1135+43.3, 10.5 RT.
EL. 8865.1' (MATCH EXISTING)

SEE SHEET DR1-04A FOR MILL RD DITCH-02

END TRANSITION OF GARFIELD ST. DITCH INTO MILL ROAD DITCH-02 FL
STA 182+72.6, 37.7 LT.
FL EL. 8859.5'

TIE INTO EXISTING EDGE OF ROAD & TOP BANK OF MILL RD. DITCH
STA 1136+32.6, 16.4 LT.
EL. 8860.9' (MATCH EXISTING)

8860

1136+00

MILL ROAD

182+82

8862

8864

-3.7%

6'

CONC. WATERWAY FLOWLINE
STA 1135+80.2, 11.1 LT.
FL EL. 8862.6'

END TYPE 4 DITCH
BEG. 6-FT CONC. WATERWAY
STA 1135+43.2, 4.4 LT.
FL EL. 8865.4'

SEE SHEET DR1-04AFOR MILL RD DITCH-02

-7.0%

END 6-FT CONC. WATERWAY
BEG. TYPE 4 DITCH
STA 1136+27.4, 17.7 LT.
FL EL. 8860.9'

TYPE 4 DITCH FLOWLINE
STA 182+60.4, 18.2 LT.
FL EL. 8861.5'

8862

8864

8864

TIE INTO EXISTING EDGE OF DRIVEWAY
STA 1135+81.7, 17.7 LT.
EL. 8863.2' (MATCH EXISTING)

TIE INTO EXISTING EDGE OF DRIVEWAY
STA 1135+51.4, 10.5 LT.
EL. 8865.7' (MATCH EXISTING)

BEG. TRANSITION
STA 1135+33.2, 5.6 LT.
FL EL. 8865.6'

TYPE 4 DITCH FLOWLINE
STA 182+49.1, 12.1 LT.
FL EL. 8862.9'

8864

8866

TIE INTO EXISTING EDGE OF ROAD
STA 1135+90.5, 26.9 LT.
EL. 8864.3' (MATCH EXISTING)

TIE GRADING INTO GARAGE PAD
STA 1135+69.8, 31.4 LT.
EL. 8866.0' (MATCH EXISTING)

TIE GRADING INTO GARAGE PAD
STA 1135+47.3, 25.9 LT.
EL. 8866.8' (MATCH EXISTING)

TYPE 4 DITCH FLOWLINE
STA 182+35.0, 10.0 LT.
FL EL. 8864.9'

TIE INTO EXISTING EDGE OF ROAD
STA 1136+06.0, 34.9 LT.
EL. 8864.0' (MATCH EXISTING)

8866

MILL RD. ROW BOUNDARY LINE

GARFIELD STREET

SEE SHEET DR1-06 FOR GARFIELD ST DITCH

NOT FOR CONSTRUCTION

01 GARFIELD ST. & MILL RD INTERSECTION STAKING PLAN VIEW

SCALE - 1" = 10'

SCALE IN FEET
0 5 10

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

GARFIELD ST & MILL RD INTERSECTION STAKING

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR1-04B
Date: 22-Oct-2025	
Scale: 1" = 10'	

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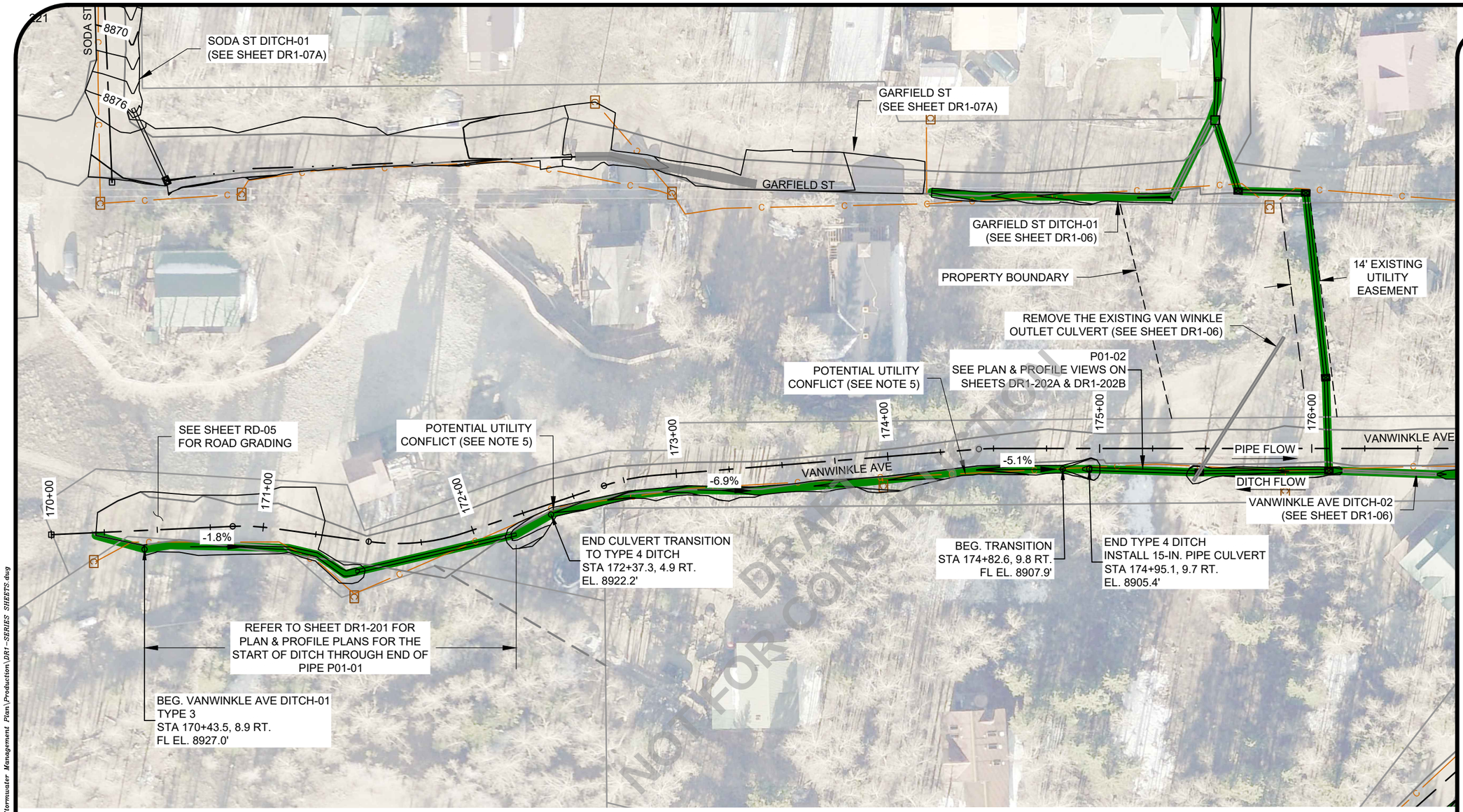

01 VANWINKLE DITCH-01 PLAN VIEW
SCALE - 1" = 50'

N

SCALE IN FEET
0 25 50

LEGEND
- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- C C EXST. FIBER COMMUNICATION LINE
- N VANWINKLE AVE HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 01 & 02, SHEET HC1-05)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
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4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE ROADSIDE DITCHES AND A DRIVEWAY PIPE CULVERT.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

VANWINKLE DITCH-01

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 50'
Sheet	DR1-05

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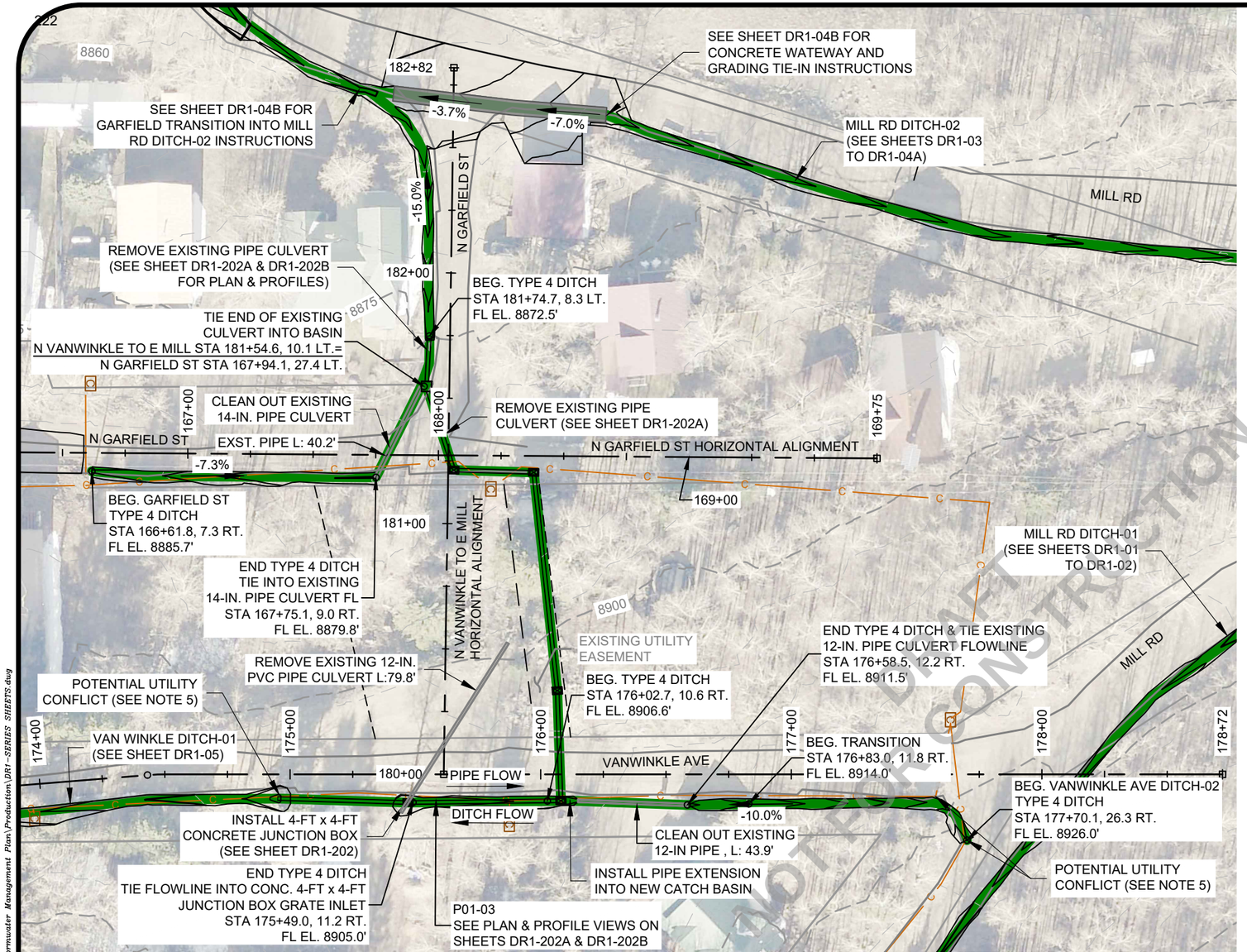

01 VANWINKLE AVE DITCH-02 TO GARFIELD ST TO MILL RD DITCH-02 PLAN VIEW

SCALE - 1" = 50'

SCALE IN FEET
0 25 50

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- N.T.S.
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- C C EXST. FIBER COMMUNICATION LINE
- N VANWINKLE AVE HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 01 & 02, SHEET HC1-05)
- N VANWINKLE TO E MILL HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC1-07)
- N GARFIELD ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02 & 03, SHEET HC1-02)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

General Notes

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4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE ROADSIDE DITCHES.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

VANWINKLE DITCH-02 TO GARFIELD ST TO MILL RD DITCH-02

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR1-06
Date: 22-Oct-2025	
Scale: AS SHOWN	

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MATCHLINE SODA ST.
STA 1103+75
SEE SHEET DR1-08

MATCHLINE HINKLEY DR.
STA 100+75
SEE SHEET DR1-08

END 6-FT CONC. WATERWAY
BEG. TYPE 2 DITCH
SODA ST STA 1103+23.1, 12.6 RT.=
SILVER ST STA 133+21.4, 31.1 LT.
FL EL. 8837.2'

END TYPE 1 DITCH
BEG. TYPE 2 DITCH AND
TRANSITION INTO WATERWAY
STA 133+42.1, 14.5 LT.
FL EL. 8839.0'

CONSTRUCT DITCH IN
EXISTING ROADWAY
SHOULDER BETWEEN
STATION CALLOUTS

SEE SHEET DR1-07C FOR START OF
DITCH & CONCRETE WATERWAY
STAKING INFORMATION

SEE SHEET DR1-07B FOR
CONC. WATERWAY
STAKING INFORMATION

END TRANSITION
BEG. TYPE 4 DITCH
STA 100+29.0, 8.5 LT.
FL EL. 8843.1'

POTENTIAL UTILITY
CONFLICT (SEE NOTE 5)

END SILVER ST GRADING & TRANSITION
TO HINKLEY DR TYPE 4 DITCH
N. SILVER ST STA 137+27.9, 9.3 LT.=
HINKLEY DR STA 100+06.2, 28.4 LT.
FL EL. 8844.6'

HINKLEY DR

EXISTING DRIVEWAY

N SILVER ST

SEE SHEET DR1-07C FOR
GRADING INFORMATION
SOUTH OF WATERWAY

SEE SHEET DR1-07B FOR
GRADING INFORMATION
TOWARDS HINKLEY DR.

SILVER ST DITCH-01
(SEE SHEET DR1-04A)

BEG. TRANSITION
STA 1102+32.4, 5.5 RT.
FL EL. 8844.3'

SEE SHEET DR1-07D FOR
CONC. WATERWAY &
GRADING STAKING

EXISTING DRIVEWAY

E SODA ST

BEG. 4-FT. CONC. WATERWAY
STA 154+57.5, 15.0 LT.
FL EL. 8845.8'

TRANSITION FROM
GARFIELD ALLEY GRADING
TO 4-FT CONC. WATERWAY
STA 154+41.9, 7.7 LT.
FL EL. 8847.0'

END 6-FT. CONC. WATERWAY
BEG. TYPE 2 DITCH
STA 1101+58.6, 7.9 RT.
FL EL. 8854.9'

END TYPE G C&C
STA 151+60.0, 2.7 LT.
FL EL. 8862.5'

BEG. TYPE G C&C
STA 151+75.9, 3.0 LT.
FL EL. 8863.4'

GARFIELD ALLEY GRADING
HIGH POINT
STA 152+20.0, 4.6 LT.
FL EL. 8864.8'

TRANSITION ALLEYGRADING
INTO CONCRETE WATERWAY
STA 150+19.7, 4.7 LT.
FL EL. 8856.0'

BEG. TRANSITION
STA 1101+34.3, 10.0 RT.
FL EL. 8858.0'

GARFIELD ALLEY

END TYPE 2 DITCH
BEG. 6-FT. CONC. WATERWAY
STA 1101+42.2, 8.9 RT.
FL EL. 8857.5'

BEG. TRANSITION
STA 150+12.7, 45.7 RT.
FL EL. 8863.5'

END 6-FT. CONC. WATERWAY
BEG. TYPE 2 DITCH
STA 1101+24.6, 11.5 RT.
FL EL. 8860.5'

END TRANSITION
BEG. 6-FT. CONC. WATERWAY
STA 1101+08.9, 11.8 RT.
FL EL. 8863.2'

END PIPE CULVERT
BEG. TYPE 2 DITCH
STA 1100+34.1, 11.8 RT.
INV. EL. 8875.3'

SEE SHEET RD1-02
FOR ROAD GRADING

END 4-FT CONC. WATERWAY
BEG. TYPE 6 DITCH
STA 164+92.2, 7.4 RT.
FL EL. 8882.2'

CONC. WATERWAY
FL TRANSITION
STA 165+09.4, 5.9 RT.
FL EL. 8883.1'

SEE SHEET DR1-203 FOR TYPE 6
DITCH STAKING INFORMATION

SEE SHEET RD1-02
FOR ROAD GRADING

POTENTIAL UTILITY
CONFLICT (SEE NOTE 6)

BEG. 4-FT CONC. WATERWAY
STA 165+79.3, 5.1 RT.
FL EL. 8885.4'

TRANSITION ALLEY TYPE GRADING
FLOWLINE OF CONC. WATERWAY
STA 165+95.6, 6.1 RT.
FL EL. 8885.6'

BEG. ALLEY TYPE GRADING
SO. FLOW TO WATERWAY
STA 166+57.6, 8.2 RT.
FL EL. 8886.9'

N GARFIELD ST DITCH-01
(SEE SHEET DR1-06)

N GARFIELD ST

SEE SHEET DR1-203 FOR PLAN
& PROFILE VIEWS OF THE
CATCH BASIN & PIPE CULVERT

-8.4%
-3.7%
-1.0%
-4.6%
-0.5%
-0.8%
-0.7%
-6.2%
-8.0%
-4.5%
-10.7%
-13.8%
-17.0%
-3.9%
-4.6%
-1.0%
-3.3%

1103+00
1102+00
1101+00
1100+00
154+90
154+00
100+00
150+00
151+00
152+00
153+00
162+00
163+00
164+00
165+00
166+00

8846
8850
8858
8860
8864
8870
8876

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- EXST. FIBER COMMUNICATION LINE
- EXST. WATERLINE
- N GARFIELD ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02 & 03, SHEET HC1-02)
- E SODA ST HORIZONTAL ALIGNMENT (SEE PLAN VIEW 02, SHEET HC1-07)
- N GARFIELD ALLEY HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC1-02)
- N SILVER ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02 & 03, SHEET HC1-01)
- E HINKLEY DR HORIZONTAL ALIGNMENT (SEE SHEET HC1-06)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

N.T.S.

SCALE IN FEET
0 20 40

01 GARFIELD ST TO SILVER ST & SODA ST DITCH-01 & HINKLEY DR DITCH PLAN VIEW
SCALE - 1" = 40'

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE ROADSIDE DITCH.
6. POT HOLE WATERLINE DEPTH PRIOR TO GRADING GARFIELD ST. AND NOTIFY FIELD ENGINEER.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

GARFIELD ST TO SILVER ST &
BEG. SODA ST & HINKLEY DR

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR1-07A
Date: 22-Oct-2025	
Scale: 1" = 40'	

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\DR1-SERIES SHEETS.dwg

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HINKLEY DR DITCH-04
(SEE SHEET DR1-08)

HINKLEY DR
ROW BOUNDARY
LINE

END TRANSITION
BEG. TYPE 4 DITCH
STA 100+29.0, 8.5 LT.
FL EL. 8843.1'

TIE INTO EXISITING
ROAD GRADE
STA 137+55.6, 27.1 LT.
EL. 8844.2' (MATCH EXISTING)

N SILVER
STREET ROW
BOUNDARY LINE

CREST OF SILVER ST GRADING BLEND
INTO BEG. OF SILVER ST DITCH-03
STA 136+44.1, 7.3 LT.
EL. 8845.2'

BEG. SILVER ST DITCH-03
TYPE 1 DITCH
STA 154+84.1, 16.6 LT.
FL EL. 8844.8'

154+90

END ALLEY GRADING
BEG. APWA G C&G
STA 136+68.2, 6.0 LT.
FL EL. 8845.0'

END APWA G C&G
TRANSITION TO ALLEY GRADING
STA 136+84.1, 6.8 LT.
FL EL. 8844.9'

ALLEY GRADING FLOWLINE
STA 137+09.1, 8.0 LT.
FL EL. 8844.7'

8845

-2.6%

-0.8%

2'

-0.7%

END 4-FT. CONC. WATERWAY
TIE INTO SILVER ST DITCH-03
STA 154+81.1, 16.4 LT.
FL EL. 8845.3'

END SILVER ST GRADING & TRANSITION
TO HINKLEY DR TYPE 4 DITCH
N. SILVER ST STA 137+27.9, 9.3 LT.=
HINKLEY DR STA 100+06.2, 28.4 LT.
FL EL. 8844.6'

137+00

TIE INTO EXISITING
ROAD GRADE
STA 137+49.3, 1.4 LT.
EL. 8845.9' (MATCH EXISTING)

E HINKLEY DR

-2.1%

4'

N. SILVER STREET

GRADE SILVER ST TO DRAIN
TOWARDS THE HINKLEY DR
DITCH (SEE DT. 05, SHEET DT-02)

-5.0%

1138+16

-6.2%

8846

TIE INTO EXISTING
EDGE OF ROADWAY
STA 137+24.1, 14.8 RT.
EL. 8846.6' (MATCH EXISTING)

TIE INTO EXISITING
ROAD GRADE
STA 137+46.9, 15.3 RT.
EL. 8847.1' (MATCH EXISTING)

-4.5%

1138+00

BEG. 4-FT. CONC. WATERWAY
STA 154+57.5, 15.0 LT.
FL EL. 8845.8'

-6.0%

N GARFIELD ALLEY

TIE INTO EXISITING
EDGE OF ROAD
STA 136+54.3, 12.9 RT.
EL. 8846.3' (MATCH EXISTING)

N SILVER
STREET ROW
BOUNDARY LINE

TIE INTO EXISITING GRADE
AT CORNER OF ROW
STA 137+30.8, 19.4 RT.
EL. 8847.0' (MATCH EXISTING)

E MILL ROAD

8850

TIE INTO EXISITING
EDGE OF ROAD
STA 136+51.6, 23.3 RT.
EL. 8847.2' (MATCH EXISTING)

TIE INTO EXISITING
EDGE OF ROAD
STA 137+36.3, 24.3 RT.
EL. 8847.3' (MATCH EXISTING)

TRANSITION FROM
GARFIELD ALLEY GRADING
TO 4-FT CONC. WATERWAY
STA 154+41.9, 7.7 LT.
FL EL. 8847.0'

ROW WAY
BOUNDARY
LINE

GARFIELD ALLEY ROW
BOUNDARY LINE

8850

DRAFT
NOT FOR CONSTRUCTION

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- EXST. FIBER COMMUNICATION LINE
- FLOWLINE

N.T.S.

N GARFIELD ALLEY HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 01, SHEET HC1-02)
N SILVER ST HORIZONTAL ALIGNMENT
(SEE PLAN VIEWS 02 & 03, SHEET HC1-01)
E HINKLEY DR HORIZONTAL ALIGNMENT
(SEE SHEET HC1-06)

VCUP STORMWATER MANAGEMENT
SYSTEM CONTRACT COMPONENTS

SCALE IN FEET
0 5 10

01 SILVER STREET GRADE TO DRAIN TO HINKLEY DR DITCH STAKING
PLAN VIEW
SCALE - 1" = 10'

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE ROADSIDE DITCH.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

SILVER STREET GRADE TO
DRAIN TO HINKLEY DR DITCH
STAKING

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR1-07B
Date: 22-Oct-2025	
Scale: 1" = 10'	

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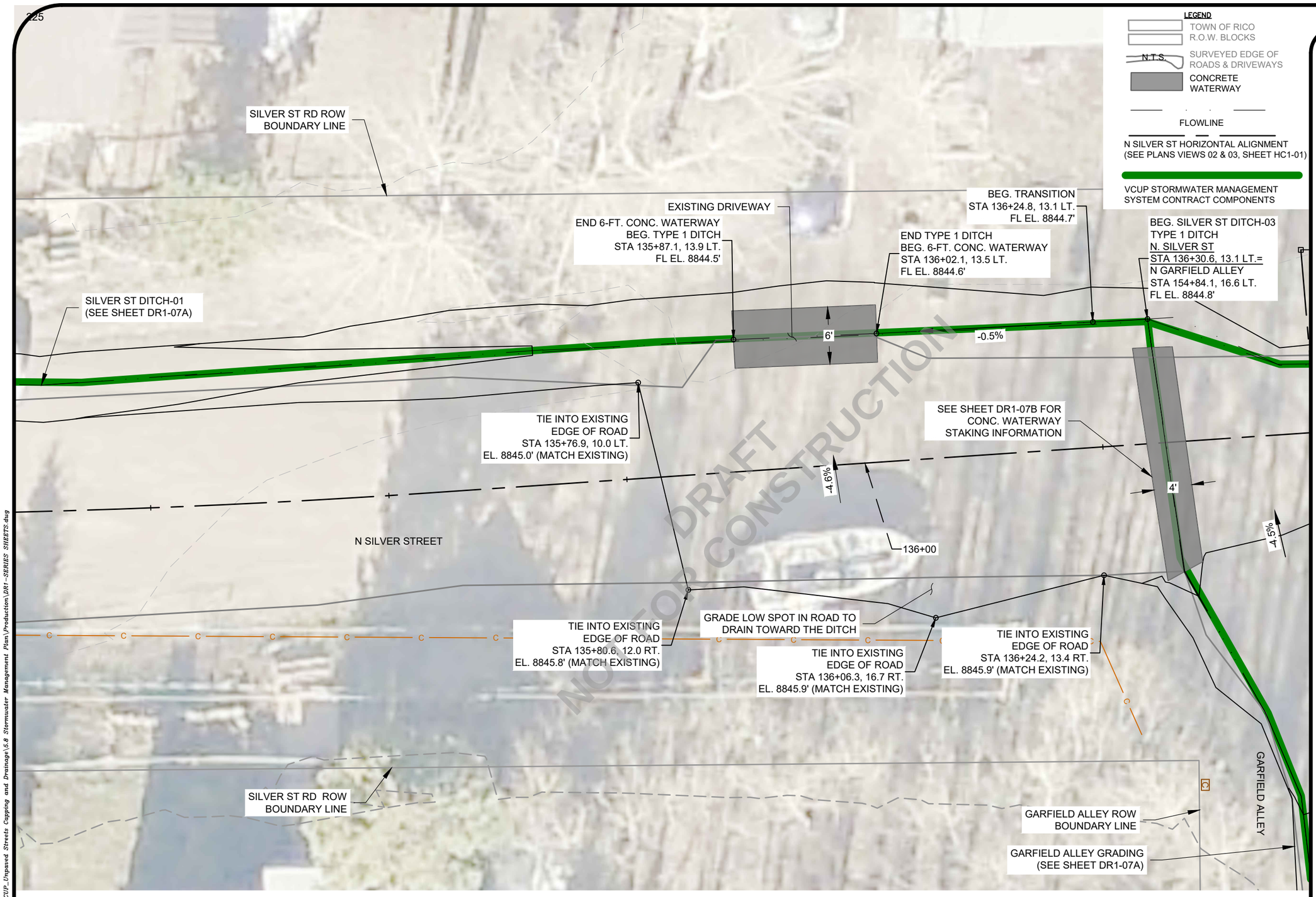
225



LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- FLOWLINE
- N SILVER ST HORIZONTAL ALIGNMENT (SEE PLANS VIEWS 02 & 03, SHEET HC1-01)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

N.T.S.

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

01 N. SILVER ST PLAN VIEW
SCALE - 1" = 10'

SCALE IN FEET
0 5 10

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

SILVER STREET CONCRETE WATERWAY CROSSING STAKING

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR1-07C
Date: 22-Oct-2025	
Scale: 1" = 10'	

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226

SODA ST DITCH-01
(SEE SHEET DR1-08)

SODA STREET
ROW BOUNDARY
LINE

END 6-FT CONC. WATERWAY
BEG. TYPE 2 DITCH
SODA ST STA 1103+23.1, 12.6 RT.=
SILVER ST STA 133+21.4, 31.1 LT.
FL EL. 8837.2'

-17.6%

END WATERWAY TRANSITION
TO SODA ST DITCH-01
STA 133+21.3, 40.2 LT.
FL EL. 8835.6'

TIE INTO THE EXISTING GRADE
STA 1103+23.4, 23.2 RT.
EL. 8837.5' (MATCH EXISTING)

SILVER ST RD ROW
BOUNDARY LINE

TIE INTO THE EXISTING GRADE
STA 1103+10.2, 31.1 RT.
EL. 8838.9' (MATCH EXISTING)

SODA ST ROAD GRADING
(SEE SHEET RD1-03)

END TYPE 1 DITCH
BEG. TYPE 2 DITCH AND
TRANSITION INTO WATERWAY
STA 133+42.1, 14.5 LT.
FL EL. 8839.0'

END TYPE 1 DITCH
BEG. TYPE 2 DITCH AND
TRANSITION INTO WATERWAY
STA 133+86.1, 12.7 LT.
FL EL. 8840.4'

CONC. WATERWAY FLOWLINE
STA 1103+07.2, 10.8 RT.
FL EL. 8838.4'

-3.7%

-2.6%

1103+00

-7.6%

TIE INTO EXISTING
ROAD GRADE
STA 1103+05.1, 24.1 RT.
EL. 8839.1' (MATCH EXISTING)

SILVER ST DITCH-02
(SEE SHEET DR1-07A)

134+00

N SILVER STREET

133+00

E SODA STREET

TIE INTO EXISTING
EDGE OF ROAD
STA 1102+76.5, 14.5 RT.
EL. 8841.0' (MATCH EXISTING)

6'

TIE INTO THE EXISTING GRADE
STA 1102+65.4, 25.0 RT.
EL. 8842.4' (MATCH EXISTING)

CONC. WATERWAY FLOWLINE
STA 1102+62.6, 5.8 RT.
FL EL. 8841.8'

EXISTING DRIVEWAY

SILVER ST RD ROW
BOUNDARY LINE

TIE INTO THE EXISTING GRADE
STA 1102+57.4, 13.7 RT.
EL. 8843.2' (MATCH EXISTING)

-10.5%

END TYPE 2 DITCH
BEG. 6-FT CONC. WATERWAY
STA 1102+40.8, 5.4 RT.
FL EL. 8844.1'

SODA STREET
ROW BOUNDARY
LINE

8845

SEE SHEET DR1-07A FOR
SODA STREET DITCH-01

DRAFT
NOT FOR CONSTRUCTION

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- EXST. FIBER COMMUNICATION LINE
- FLOWLINE
- N SILVER ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02 & 03, SHEET HC1-01)
- E SODA ST HORIZONTAL ALIGNMENT (SEE PLAN VIEW 02, SHEET HC1-07)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

N.T.S.

01 SILVER ST & SODA ST CONCRETE WATERWAY STAKING PLAN VIEW
SCALE - 1" = 10'

SCALE IN FEET
0 5 10

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

SILVER ST & SODA ST
CONCRETE WATERWAY
STAKING
RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR1-07D
Date: 22-Oct-2025	
Scale: 1" = 10'	

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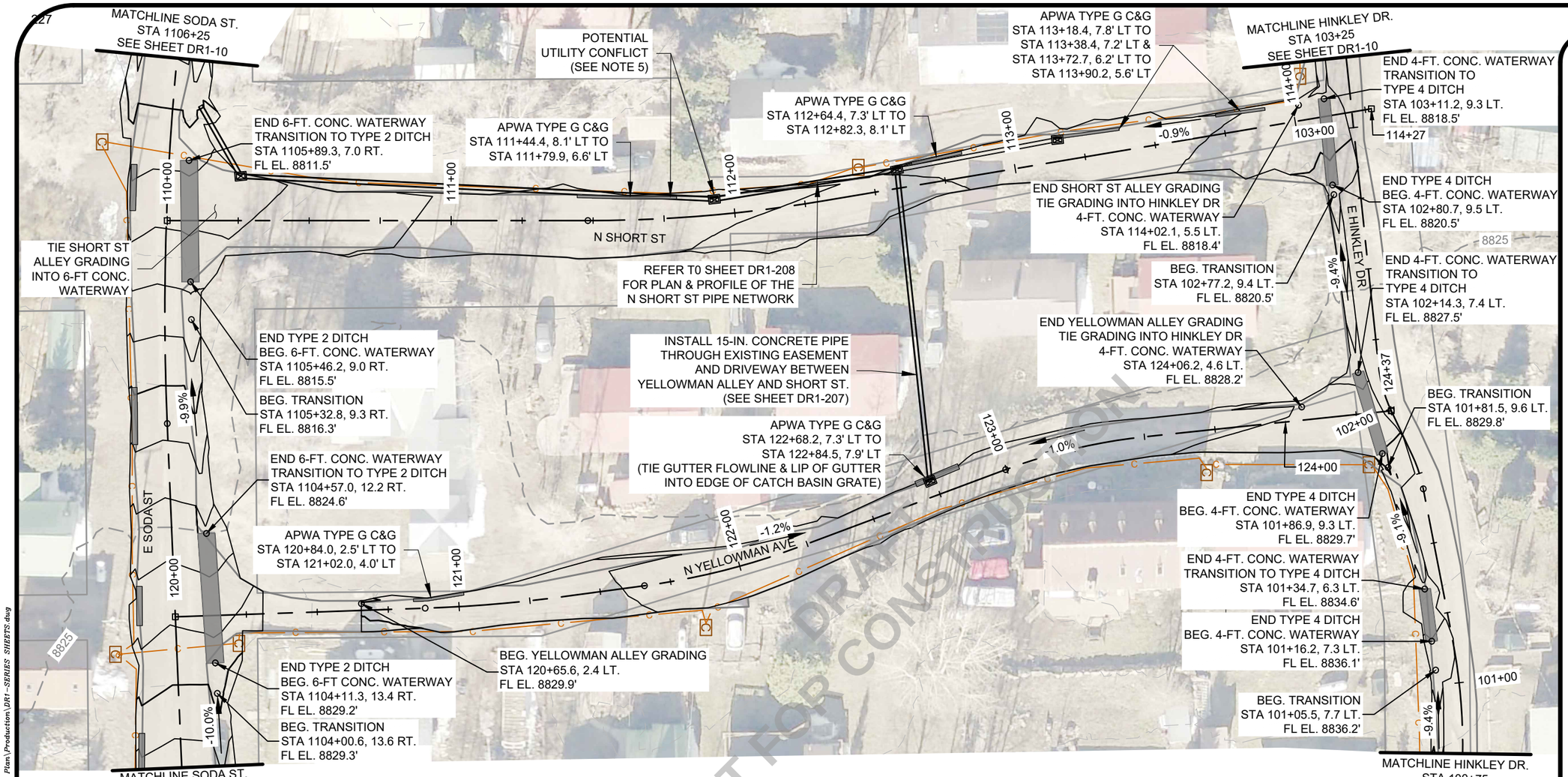

DRAFT
NOT FOR CONSTRUCTION

01 SODA ST, HINKLEY ST, YELLOWMAN AVE, & SHORT ST DITCHES PLAN VIEW

SCALE - 1" = 40'

N.T.S.

SCALE IN FEET
0 20 40

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- EXST. FIBER COMMUNICATION LINE

N YELLOWMAN AVE HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 01, SHEET HC1-01)
N SHORT ST HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 03, SHEET HC1-07)
E SODA ST HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 02, SHEET HC1-07)
E HINKLEY DR HORIZONTAL ALIGNMENT
(SEE SHEET HC1-06)

VCUP STORMWATER MANAGEMENT
SYSTEM CONTRACT COMPONENTS

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH CURBS, AND CULVERTS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

SODA ST & HINKLEY DR &
YELLOWMAN AVE & SHORT ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 40'
Sheet	DR1-08

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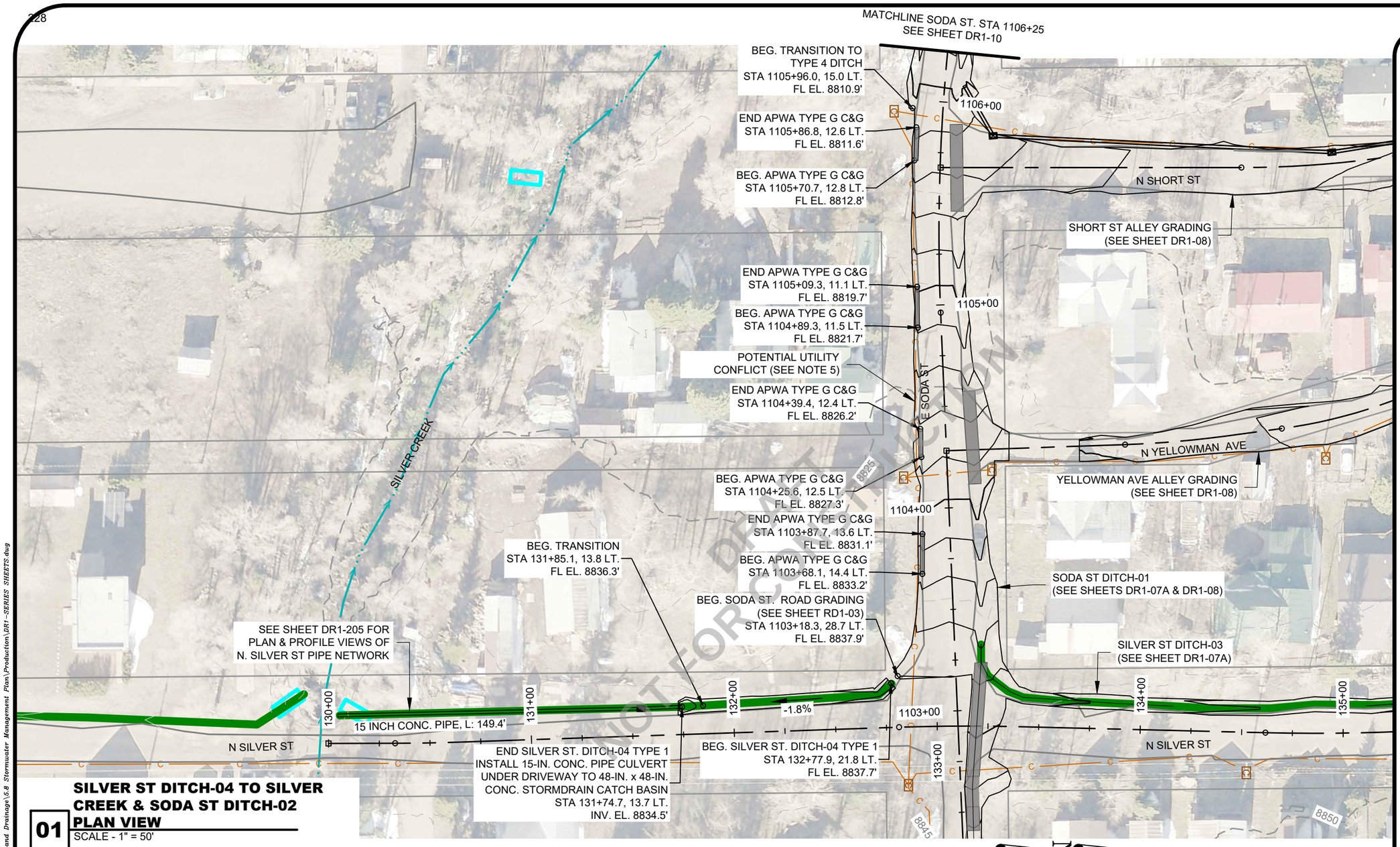
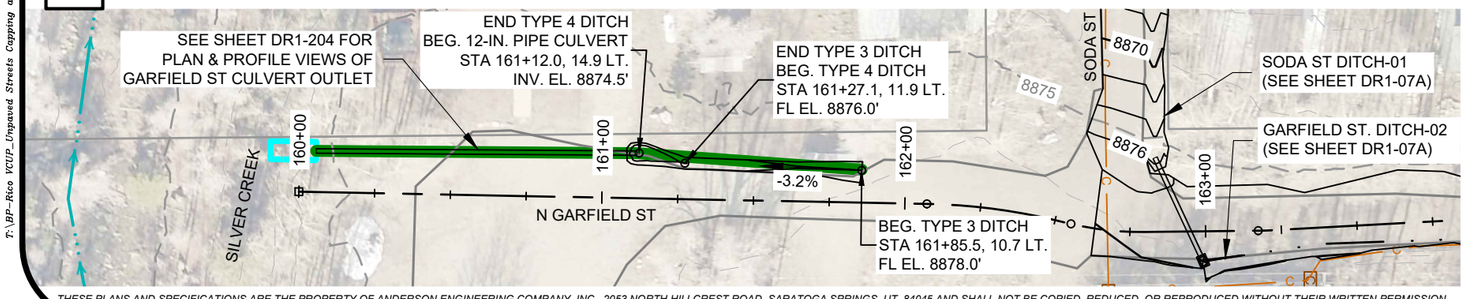


01 SILVER ST DITCH-04 TO SILVER CREEK & SODA ST DITCH-02 PLAN VIEW

SCALE - 1" = 50'



02 GARFIELD ST & SILVER ST TO SILVER CREEK & SODA ST DITCH-02 PLAN VIEW

SCALE - 1" = 50'

SCALE IN FEET
0 25 50

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE ROADSIDE DITCHES.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

GARFIELD ST & SILVER ST TO
SILVER CREEK & SODA ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 50'
Sheet	DR1-09

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SODA ST DITCH-02
TRANSITION TYPE 4 DITCH TO
DISCHARGE INTO SILVER CREEK.
STA 1108+14.9, 14.3 LT.
FL EL. 8795.8'

GLASGOW AVE

END 18-IN. PIPE CULVERT
AT SILVER CREEK BANK
(SEE SHEET DR1-211)

1108+76

108+30

108+00

107+00

106+00

105+00

104+00

SODA ST DITCH-02
END TYPE 4 DITCH
INSTALL RIPRAP ARPON
STA 1108+31.5, 24.8 LT.
FL EL. 8794.9'

SEE SHEET DR1-211 FOR PLAN &
PROFILE VIEW OF DRIVEWAY PIPE
CULVERT CONNECTION TO
HINKLEY DR. PIPE NETWORK

REFER TO SHEET DR1-209 & DR1-210
FOR PLAN & PROFILE VIEWS OF THE
HINKLEY DRIVE CATCH BASINS AND
PIPE CULVERT INFORMATION.

E HINKLEY DR

8775

8800

SILVER CREEK

-6.5%

SEE SHEET DR1-211 FOR PLAN &
PROFILE VIEW FOR DRIVEWAY PIPE
CULVERT AND CATCH BASIN, AND
THE END OF SODA ST. DITCH-01

E SODA ST

8800

1107+00

INSTALL CATCH BASIN & TIE
DITCH INTO SIDE OF BOX
(SEE SHEET DR1-209)

POTENTIAL UTILITY
CONFLICT (SEE NOTE 5)

END TYPE 2 DITCH
INSTALL 15-IN. PIPE CULVERT
STA 1106+72.0, 10.6 RT.
INV. EL. 8802.1'

DITCH FLOWLINE
STA 103+92.8, 6.0 LT.
FL EL. 8812.4'

END TRANSITION
AND ROAD GRADING
BEGIN TYPE 4 DITCH
STA 1106+26.3, 13.1 LT.
FL EL. 8807.3'

-10.3%

-7.5%

BEG. TRANSITION
STA 1106+43.1, 8.3 RT.
FL EL. 8805.7'

MATCHLINE SODA ST.
STA 1106+25
SEE SHEET DR1-09 FOR SODA ST DITCH-02
SEE SHEET DR1-08 FOR SODA ST DITCH-01

MATCHLINE HINKLEY DR.
STA 103+25
SEE SHEET DR1-08

DRAFT
NOT FOR CONSTRUCTION

SODA ST DITCHES 01 & 02 AND HINKLEY DR TO SILVER CREEK

01 PLAN VIEW

SCALE - 1" = 40'

N.T.S.

SCALE IN FEET
0 20 40

LEGEND
- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- EXST. FIBER COMMUNICATION LINE

E SODA ST HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 02, SHEET HC1-07)
E HINKLEY DR HORIZONTAL ALIGNMENT
(SEE SHEET HC1-06)

VCUP STORMWATER MANAGEMENT
SYSTEM CONTRACT COMPONENTS

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE PIPE CULVERTS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

SODA ST DITCHES 01 & 02 AND
HINKLEY DR TO SILVER CREEK

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO	Sheet	DR1-10
Date	22-Oct-2025		
Scale	1" = 40'		

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\6.0 Stormwater Management Plan\Production\DR1 -SERIES SHEETS.dwg

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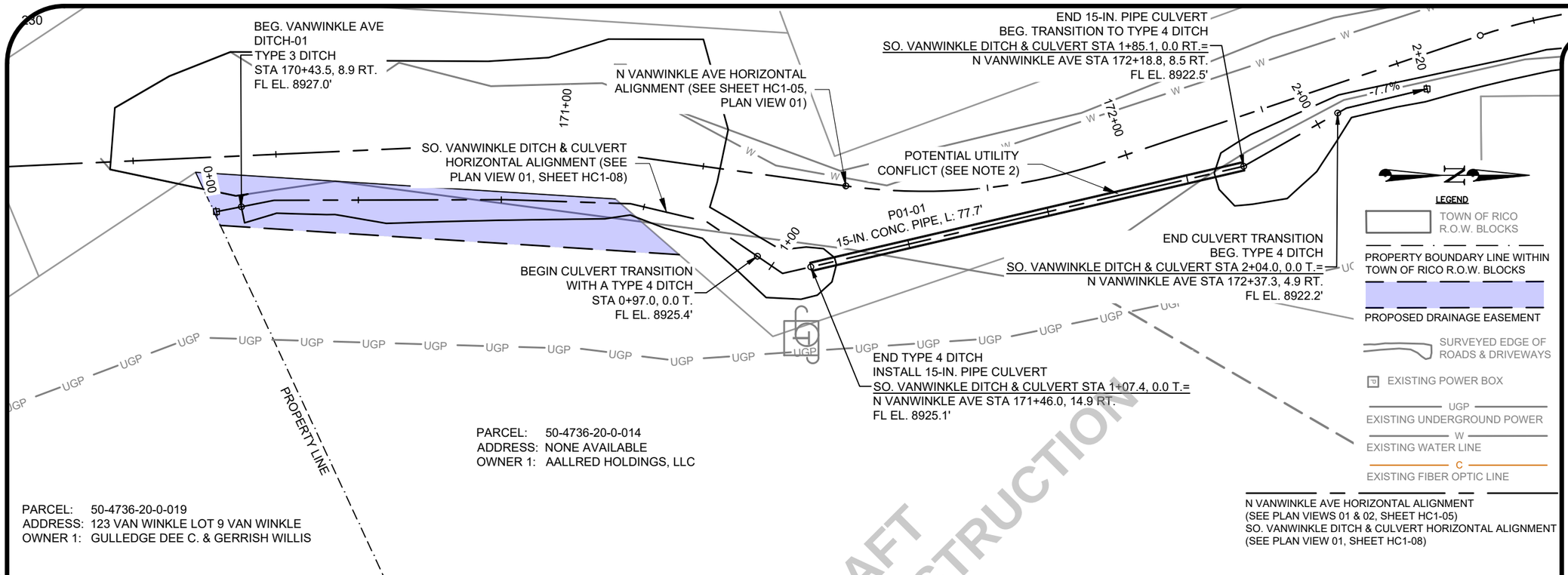
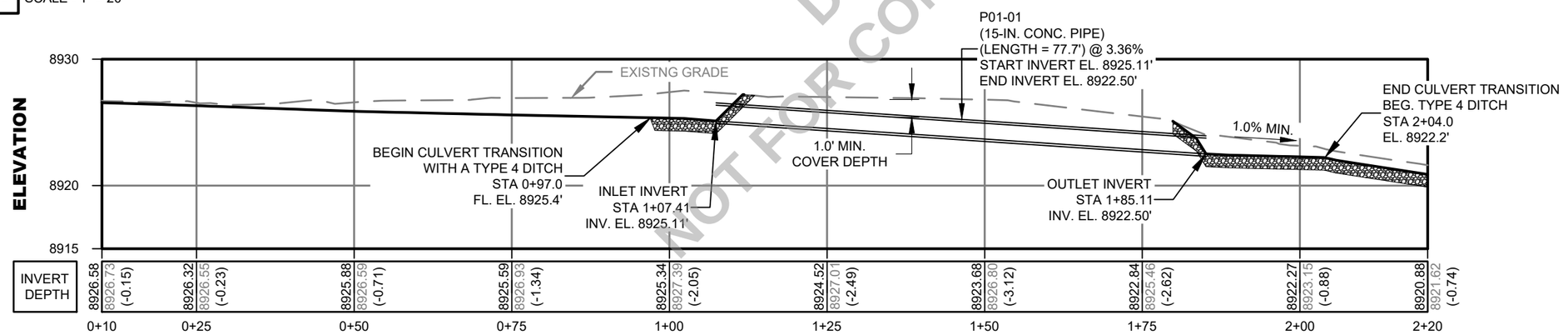


01 VANWINKLE PIPE CULVERT PLAN VIEW

SCALE - 1" = 20'



PROFILE VIEW OF SO. VANWINKLE DITCH & CULVERT
0+10 TO 2+20.25
(VERTICAL EXAGGERATION = 2:1)

02 VANWINKLE PIPE CULVERT PROFILE VIEW

SCALE - 1" = 20'

DRAFT
NOT FOR CONSTRUCTION

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS.
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

VANWINKLE PIPE CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	10-Oct-2025
Scale	1" = 20'
Sheet	DR1-201

SCALE IN FEET
0 10 20

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POTENTIAL UTILITY CONFLICT (SEE NOTE 2)

CB01-04
RIM TO SUMP: 4.5 FT.
36x24 CONC. CATCH BASIN
STA 2+57.11

POTENTIAL UTILITY CONFLICT (SEE NOTE 2)

P01-06
15-IN. CONC. PIPE, L: 29.0'

END PIPE CULVERT
STA 3+44.33, 0.25 RT.=
STA 181+74.75, 8.26 LT.
INV. EL. 8872.43'

P01-07B
REPLACE EXISTING 10-IN. PVC PIPE WITH A 15-IN. CONC. PIPE

CB01-06
RIM TO SUMP: 5.0 FT.
36x36 CONC. CATCH BASIN
STA 3+24.09

CONNECT EXISTING 12-IN PIPE CULVERT INTO CATCH BASIN CB01-06

EXISTING PIPE CULVERT
(SEE SHEET DR1-06)

GARFIELD ST. DITCH-01
(SEE SHEET DR1-06)

14.0' EXISTING UTILITY EASEMENT

CB01-05
RIM TO SUMP: 4.5 FT.
36x24 CONC. CATCH BASIN
STA 2+89.00

P01-05
15-IN. CONC. PIPE, L: 87.5'

P01-07A
15-IN. CONC. PIPE, L: 33.2'
(REPLACE EXISTING 12-IN. PIPE)

N VANWINKLE TO E MILL
HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 01, SHEET HC1-07)

P01-04
15-IN. CONC. PIPE, L: 42.1'

CB01-03
RIM TO SUMP: 5.5 FT.
36x24 CONC. CATCH BASIN
STA 1+69.52

POTENTIAL UTILITY CONFLICT (SEE NOTE 2)

REMOVE EXST VAN WINKLE OUTLET CULVERT
12-IN. PVC PIPE, L: 79.8'

P01-03
15-IN. CONC. PIPE, L: 58.1'

CB01-02
RIM TO SUMP: 5.5 FT.
36x24 CONC. CATCH BASIN
STA 1+25.55

VAN WINKLE AVE OUTLET CULVERT
HORIZONTAL ALIGNMENT (SEE
PLAN VIEW 02,SHEET HC1-08)

CB01-01
RIM TO SUMP: 3.5 FT.
36x24 CONC. CATCH BASIN
STA 0+64.49

N VANWINKLE AVE HORIZONTAL
ALIGNMENT (SEE PLAN VIEWS
01 & 02, SHEET HC1-05)

P01-02
15-IN. CONC. PIPE, L: 50.6'
(SEE PROFILE 01 ON
SHEET DR1-202B)

PROPERTY LINE

VANWINKLE AVE

175+00
END TYPE 01 DITCH
INSTALL 15-IN. PIPE CULVERT
STA 0+12.5, 0.0 RT.=
STA 174+95.1, 9.7 RT.
FL EL. 8905.4'

0+00
BEG. TRANSITION TO CULVERT
WITH A TYPE 4 DITCH
STA 174+79.8, 9.8 RT.
FL EL. 8908.1'

VAN WINKLE DITCH-01
(SEE SHEET DR1-05)

GARFIELD ST

3+49
3+00
2+00
1+00
181+00
180+00
176+00

8874 8876 8878 8880 8882 8884 8886 8888 8890 8892 8894 8896 8898 8900 8902 8904 8906 8908 8910 8912

DRAFT NOT FOR CONSTRUCTION

N

01 **VAN WINKLE AVE OUTLET CULVERT PLAN VIEW**
SCALE - 1" = 20'

SCALE IN FEET
0 10 20

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- PROPERTY BOUNDARY LINE WITHIN TOWN OF RICO R.O.W. BLOCKS
- 14-FT UTILITY EASEMENT
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- EXISTING POWER POLE
- EXISTING POWER BOX
- W EXISTING WATER METER
- OHP EXISTING OVERHEAD POWER
- UGP EXISTING UNDERGROUND POWER
- W EXISTING WATER LINE
- C EXISTING FIBER OPTIC LINE

N VANWINKLE AVE HORIZONTAL ALIGNMENT
(SEE PLAN VIEWS 01 & 02, SHEET HC1-05)
VAN WINKLE AVE OUTLET CULVERT HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 02, SHEET HC1-08)
N VANWINKLE TO E MILL HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 01, SHEET HC1-07)

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

VAN WINKLE TO GARFIELD PIPE CULVERT PLAN VIEW

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	10-Oct-2025
Scale	1" = 20'
Sheet	DR1-202A

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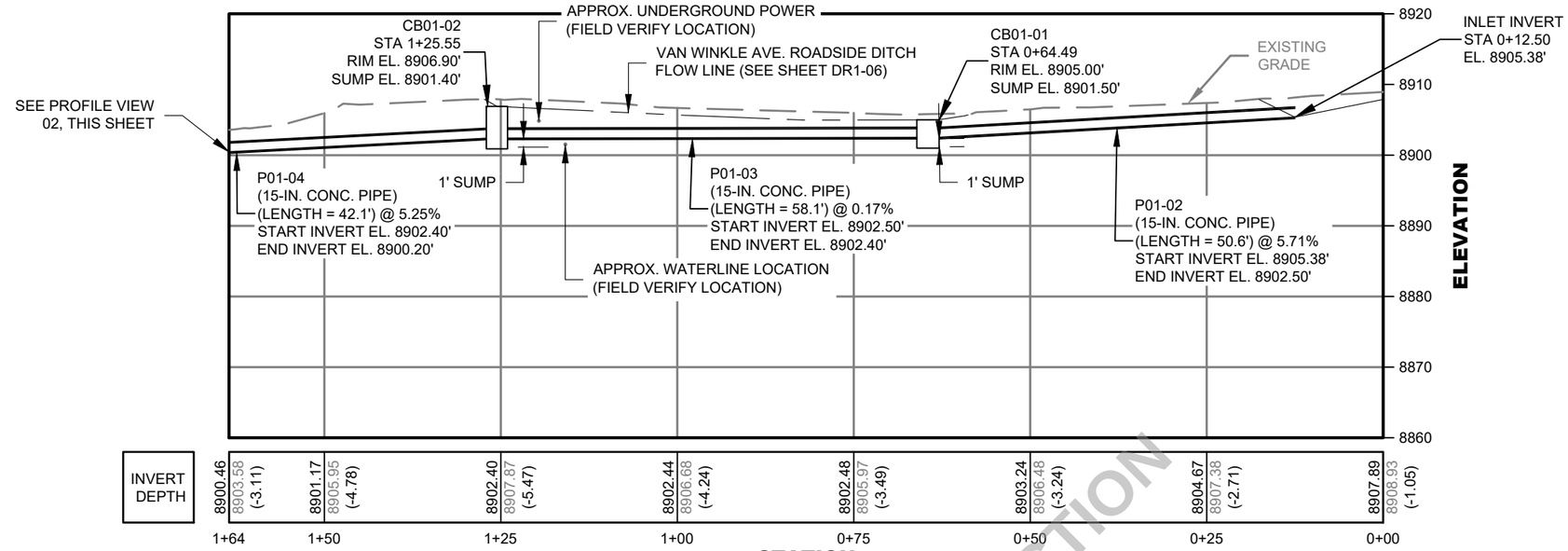
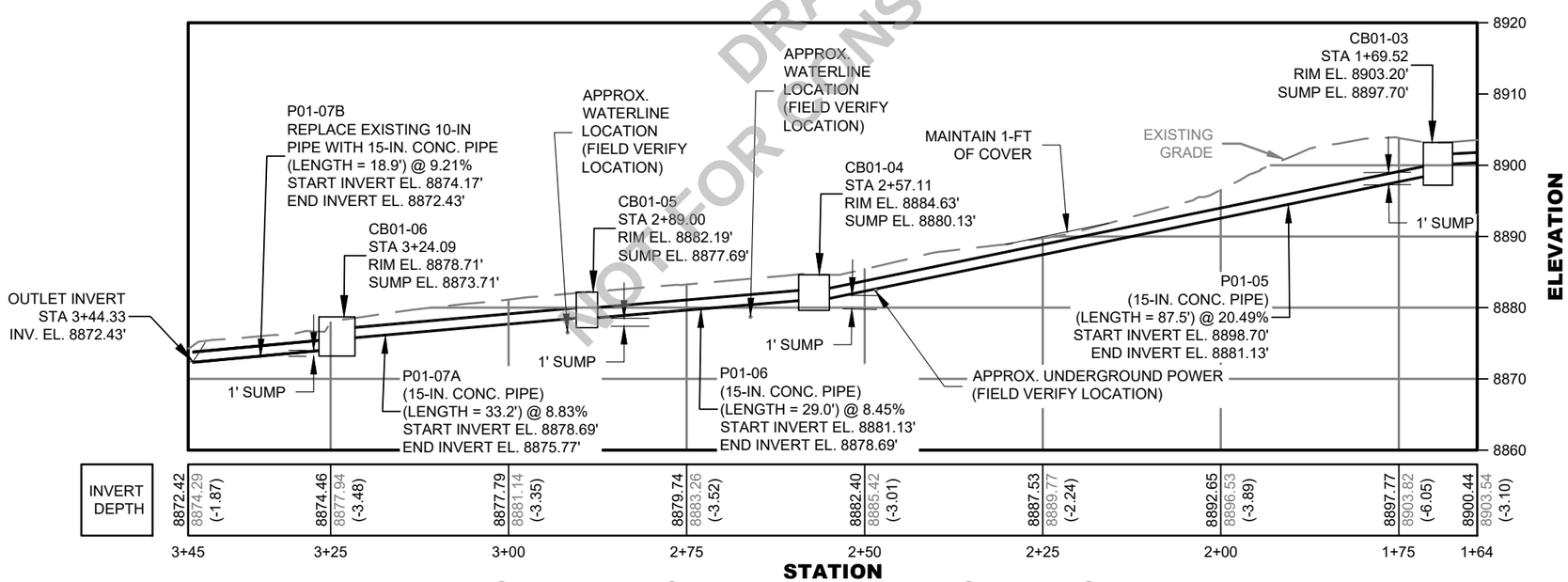


01 **VAN WINKLE AVE OUTLET CULVERT**
PROFILE VIEW 1
SCALE - 1" = 20'
SCALE IN FEET 0 10 20

PROFILE VIEW OF VAN WINKLE AVE OUTLET CULVERT
0+00 TO 1+63.50
(VERTICAL EXAGGERATION = 1:1)



PROFILE VIEW OF VAN WINKLE AVE OUTLET CULVERT
1+64 TO 3+45.00
(VERTICAL EXAGGERATION = 1:1)

02 **VAN WINKLE AVE OUTLET CULVERT**
PROFILE VIEW 2
SCALE - 1" = 20'
SCALE IN FEET 0 10 20

General Notes

1. REFER TO SHEET DR1-202A FOR A PLAN VIEW OF THE PIPE NETWORK FROM VAN WINKLE AVE. TO GARFIELD ST.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

VAN WINKLE TO GARFIELD PIPE CULVERT PROFILE VIEW

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR1-202B
Date: 10-Oct-2025	
Scale: 1" = 20"	

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END PIPE CULVERT
BEG. TYPE 2 DITCH
GARFIELD TO SODA ST CULVERT
STA 2+30.6, 0.0 RT. =
N GARFIELD ST
STA 162+83.6, 24.4 LT.
INV. EL. 8875.2

P01-08
15-IN. CONC. PIPE, L: 36.1'

SODA ST

END TYPE 6 DITCH
INSTALL CONC. CATCH BASIN
STA 1+93.1, 0.0 T.
FL EL. 8877.9'

POTENTIAL UTILITY
CONFLICT (SEE NOTE 2)

CB01-07
RIM TO SUMP: 4.0 FT.
36x24 CONC. CATCH BASIN
STA 1+93.08

GARFIELD TO SODA ST CULVERT
HORIZONTAL CONTROL (SEE
PLAN VIEW 01, SHEET HC1-09)

TYPE 6 DITCH BEND
STA 1+53.6, 0.0 T.
FL EL. 8878.3'

N GARFIELD ST HORIZONTAL
CONTROL (SEE PLAN VIEW 02,
SHEET HC1-02)

TYPE 6 DITCH BEND
STA 0+79.8, 0.0 T.
FL EL. 8879.0'

GARFIELD ST

END 4-FT
CONC. WATERWAY
GARFIELD TO SODA ST CULVERT
STA 0+00.0, 0.0 RT. =
N GARFIELD ST
STA 164+92.2, 7.4 RT.
INV. EL. 8882.2

4-FT CONC. WATERWAY
(SEE SHEET DR1-07A)

01 GARFIELD TO SODA ST CULVERT PLAN VIEW

SCALE - 1" = 20'

SCALE IN FEET
0 10 20

DRAFT
NOT FOR CONSTRUCTION

General Notes

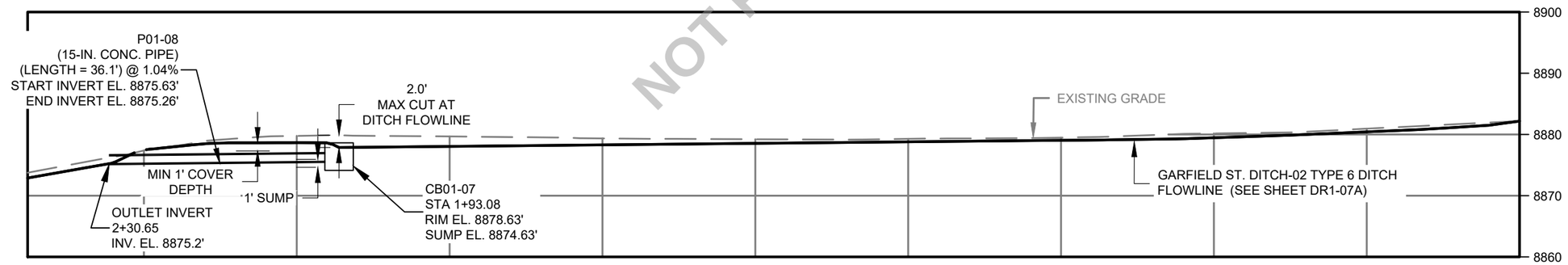
1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS.
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS.

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- PROPERTY BOUNDARY LINE WITHIN TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- EXISTING POWER BOX
- UGP — EXISTING UNDERGROUND POWER
- W — EXISTING WATER LINE
- C — EXISTING FIBER OPTIC LINE
- N GARFIELD ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02 7 03, SHEET HC1-02)
- GARFIELD TO SODA ST CULVERT HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC1-09

No.	Revision/Issue	Date

ELEVATION



INVERT	8872.89	8875.34	8875.71	8878.04	8878.30	8878.55	8878.79	8879.05	8879.48	8880.42	8882.19
DEPTH	8873.75 (-0.86)	8877.38 (-2.04)	8879.77 (-4.05)	8879.67 (-1.63)	8879.35 (-1.05)	8879.22 (-0.68)	8879.29 (-0.49)	8879.48 (-0.44)	8880.17 (-0.68)	8880.94 (-0.52)	8882.19 (0.00)
STATION	2+44	2+25	2+00	1+75	1+50	1+25	1+00	0+75	0+50	0+25	0+00

02 GARFIELD TO SODA ST CULVERT PROFILE VIEW

SCALE - 1" = 20'

STATION PROFILE VIEW OF GARFIELD TO SODA ST CULVERT 0+00 TO 2+44.02

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

GARFIELD TO SODA ST
CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	10-Oct-2025
Scale	1" = 20'
Sheet	DR1-203

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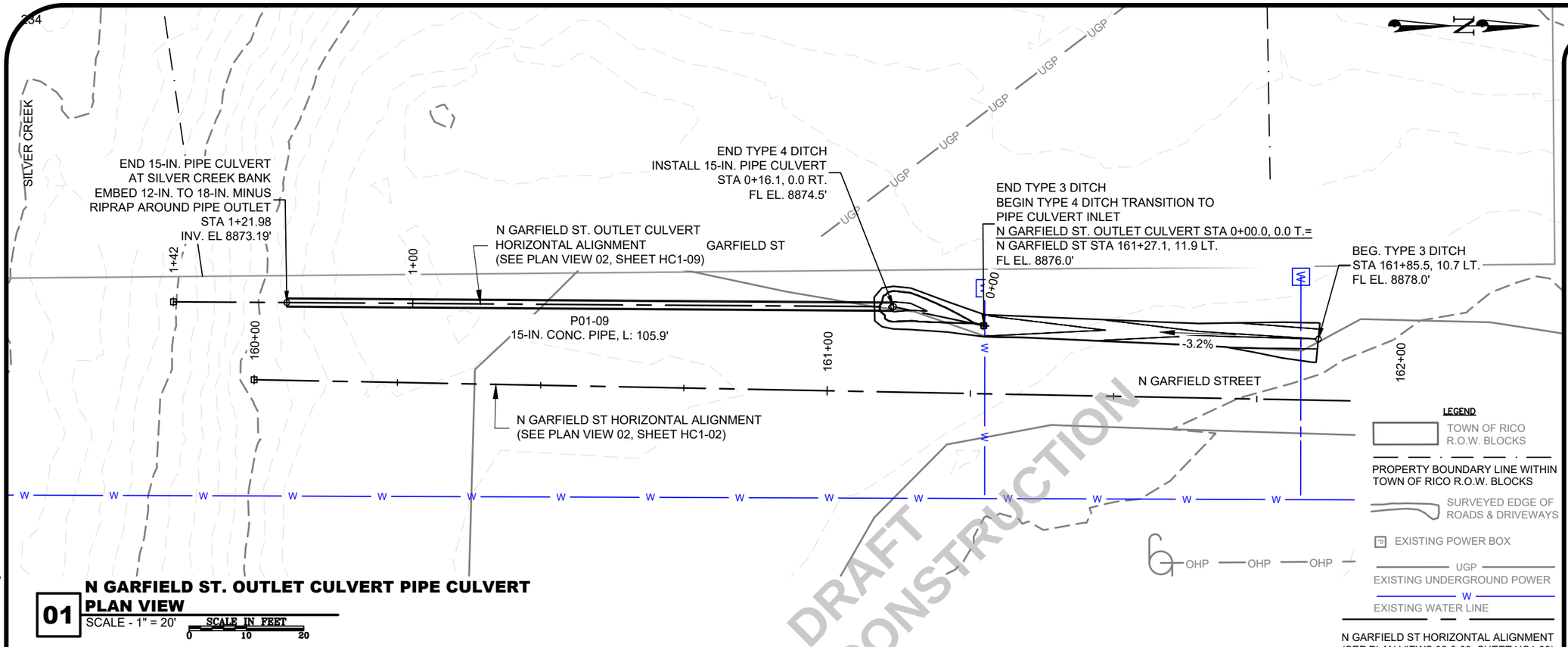
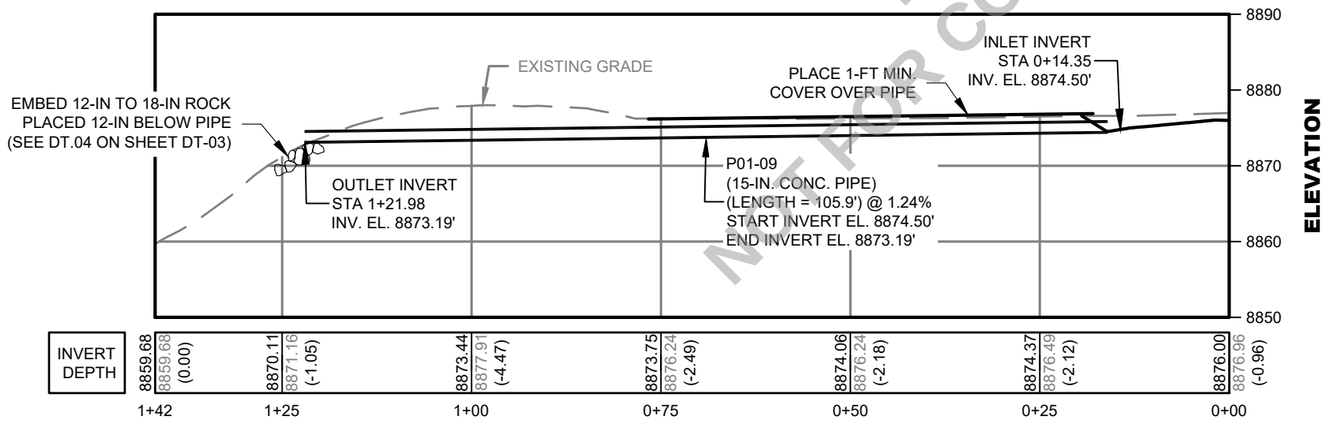


01 **N GARFIELD ST. OUTLET CULVERT PIPE CULVERT**
PLAN VIEW
SCALE - 1" = 20'
SCALE IN FEET 0 10 20



PROFILE VIEW OF N GARFIELD ST. OUTLET CULVERT
0+00 TO 1+41.76
(VERTICAL EXAGGERATION = 1:1)

02 **N GARFIELD ST. OUTLET CULVERT PIPE CULVERT**
PROFILE VIEW
SCALE - 1" = 20'
SCALE IN FEET 0 10 20

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- PROPERTY BOUNDARY LINE WITHIN TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- EXISTING POWER BOX
- UGP — EXISTING UNDERGROUND POWER
- W — EXISTING WATER LINE

N GARFIELD ST HORIZONTAL ALIGNMENT
(SEE PLAN VIEWS 02 & 03, SHEET HC1-02)
N GARFIELD ST TO OUTLET CULVERT
HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 02, SHEET HC1-09)

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS.
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

N GARFIELD ST PIPE CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	10-Oct-2025
Scale	1" = 20'
Sheet	DR1-204

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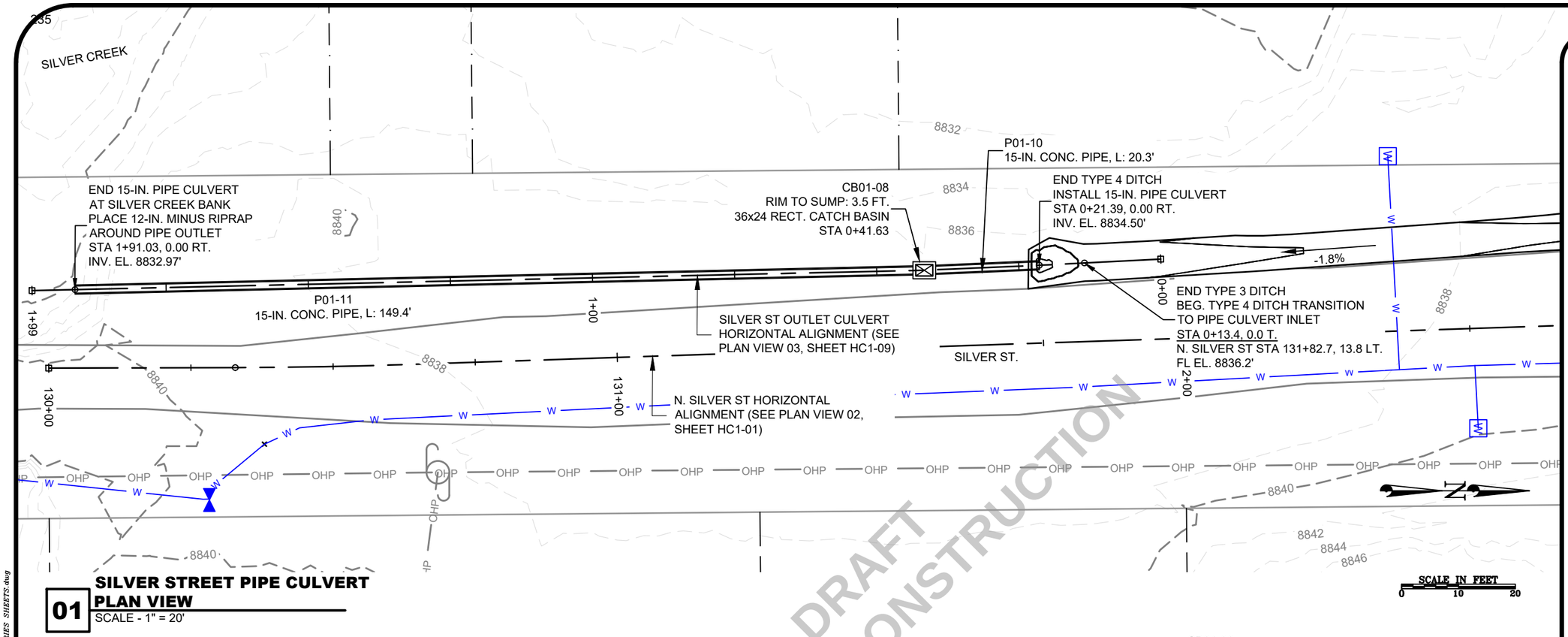
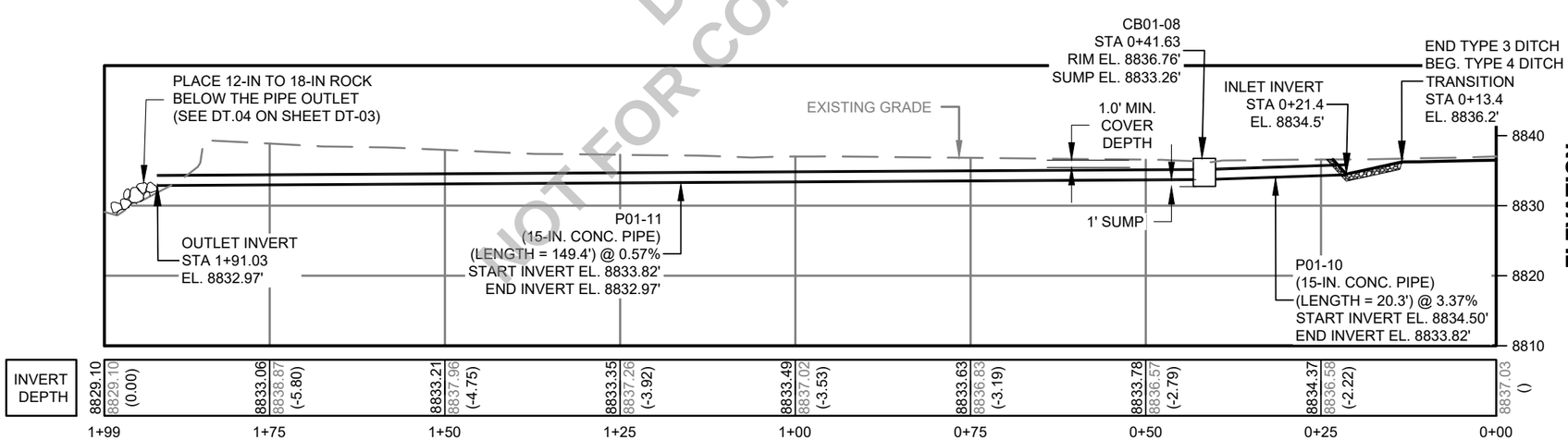


01 SILVER STREET PIPE CULVERT PLAN VIEW

SCALE - 1" = 20'

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- PROPERTY BOUNDARY LINE WITHIN TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- EXISTING POWER POLE
- W EXISTING WATER METER
- EXISTING WATER VALVE
- OHP EXISTING OVERHEAD POWER
- W EXISTING WATER LINE
- N SILVER ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02 & 03, SHEET HC1-01)
- SILVER ST OUTLET CULVERT HORIZONTAL ALIGNMENT (SEE SHEET HC1-06)



PROFILE VIEW OF SILVER ST OUTLET CULVERT
0+00 TO 1+98.59
(VERTICAL EXAGGERATION = 1:1)

02 SILVER STREET PIPE CULVERT PROFILE VIEW

SCALE - 1" = 20'

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

SILVER STREET PIPE CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR1-205
Date: 10-Oct-2025	
Scale: 1" = 20'	

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REMOVE EXISTING PIPE CULVERT

END 15-IN. PIPE CULVERT
BEG. TYPE 4 DITCH
MILL RD TO SILVER ST CULVERT STA 0+83.9, 0.0 T.=
E MILL RD STA 1137+37.1, 14.0 RT.
FL EL. 8850.7'

MILL RD TO SILVER ST CULVERT
HORIZONTAL ALIGNMENT (SEE
PLAN VIEW 01, SHEET HC1-10)

L: 40.2'

1137+00

0+00

BEG. TRANSITIONO TO CULVERT INLET
MILL RD TO SILVER ST CULVERT STA 0+19.9, 0.0 T.=
E MILL RD STA 1136+85.6, 14.0 LT.
FL EL. 8856.7'

-8.86%

1+14

1+00

P01-12
15-IN. CONC. PIPE, L: 45.0'

END CULVERT TRANSITION
BEG. TYPE 4 DITCH
MILL RD TO SILVER ST CULVERT STA 0+98.7, 0.0 T.=
E MILL RD STA 1137+53.0, 15.0 RT.
FL EL. 8850.3'

E MILL RD HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 01, SHEET HC1-04)

END TYPE 4 DITCH
INSTALL 15-IN. PIPE CULVERT
MILL RD TO SILVER ST CULVERT STA 0+39.0, 0.0 T.=
E MILL RD STA 1137+01.5, 14.5 LT.
FL EL. 8854.3'

8850 8852 8854 8856 8858 8860 8864

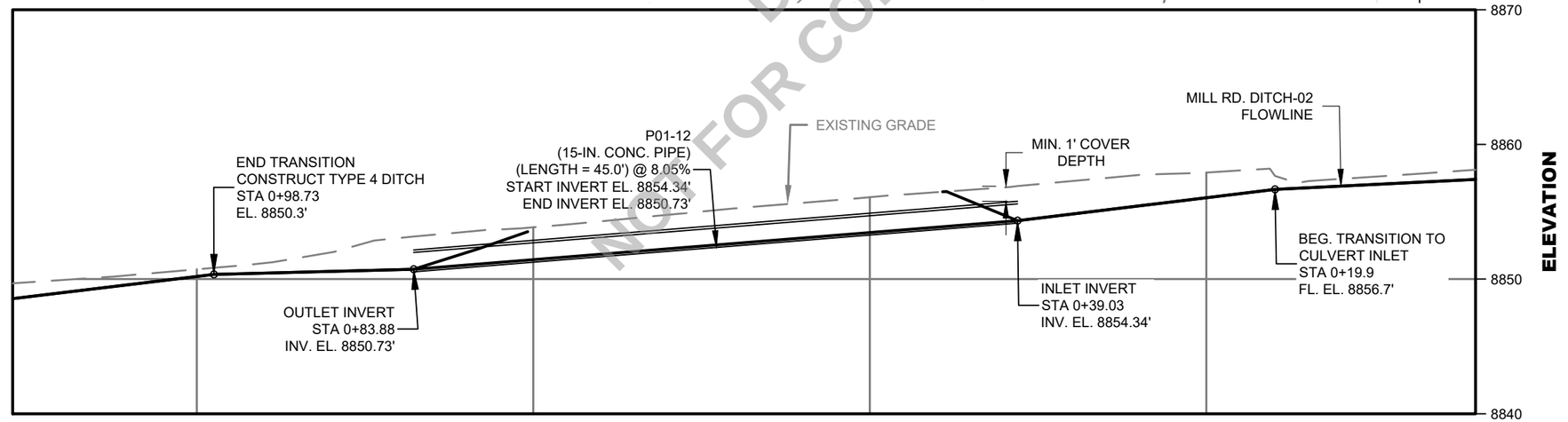
N

LEGEND

- PROPERTY BOUNDARY LINE WITHIN TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- W EXISTING WATER METER
- OHP EXISTING OVERHEAD POWER
- W EXISTING WATER LINE
- EXISTING FENCE LINE
- C EXISTING FIBER OPTIC LINE
- E MILL RD HORIZONTAL ALIGNMENT (SEE SHEETS HC1-03 TO HC1-04)
- MILL RD TO SILVER ST CULVERT HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC1-10)

01 MILL RD TO SILVER ST CULVERT PLAN VIEW

SCALE - 1" = 10'



INVERT DEPTH	8848.54 / 8849.68 (-1.13)	8850.19 / 8850.73 (-0.53)	8851.44 / 8853.84 (-2.40)	8853.45 / 8856.08 (-2.63)	8856.04 / 8857.91 (-1.87)	8857.40 / 8858.12 (-0.72)
	1+14	1+00	0+75	0+50	0+25	0+05

02 MILL RD TO SILVER ST CULVERT PROFILE VIEW

SCALE - 1" = 10'

STATION

PROFILE VIEW OF MILL RD TO SILVER ST CULVERT 0+05 TO 1+13.68 (VERTICAL EXAGGERATION = 1:1)

SCALE IN FEET
0 5' 10'

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

MILL RD TO SILVER ST PIPE CULVERT PLAN & PROFILE

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 10'
Sheet	DR1-206

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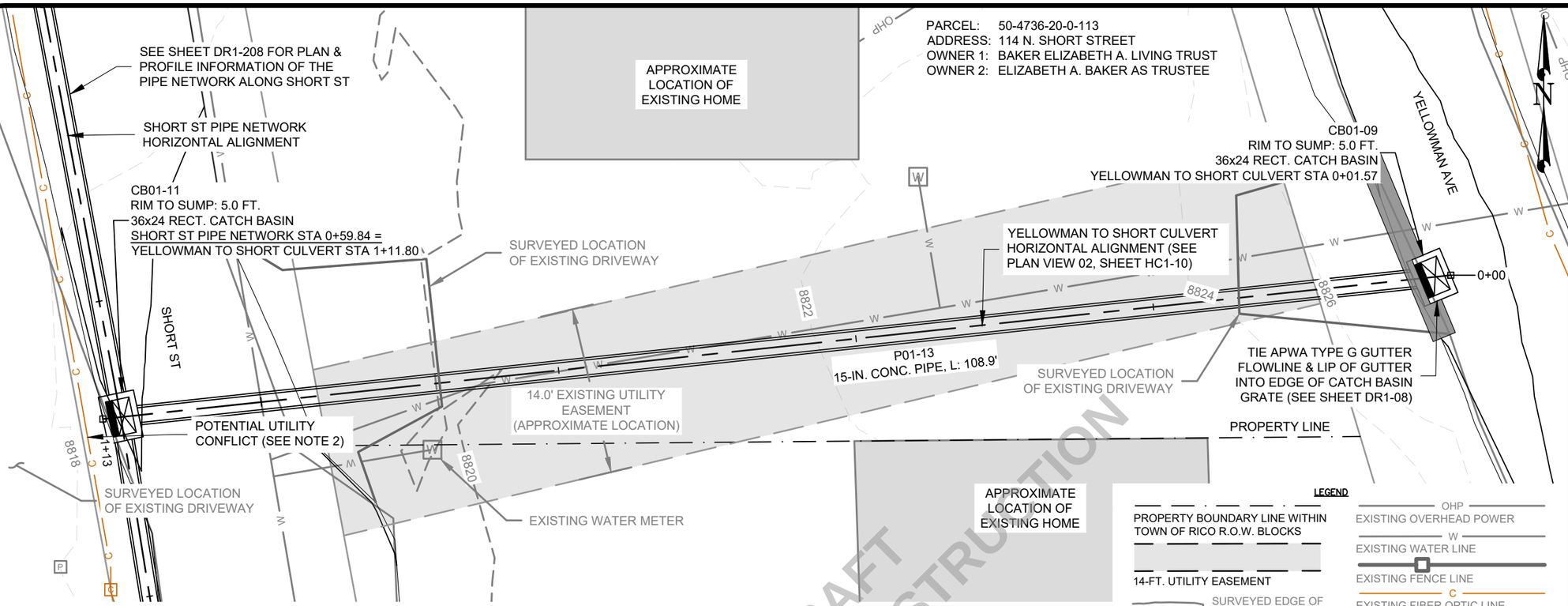
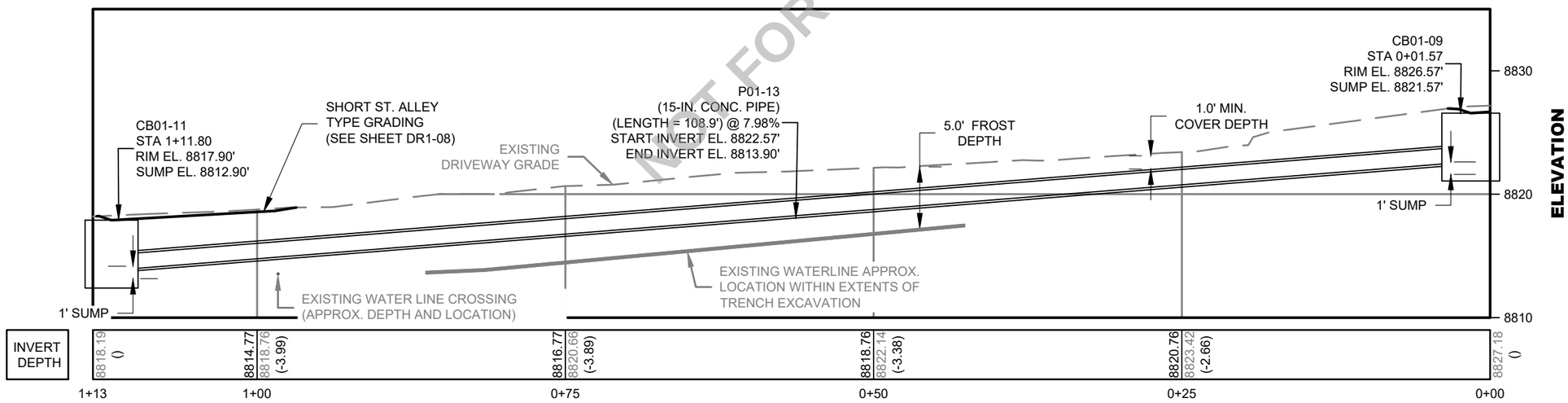


01 YELLOWMAN TO SHORT PIPE PLAN AND PROFILE PLAN VIEW
SCALE - 1" = 10'



02 YELLOWMAN TO SHORT PIPE PLAN AND PROFILE PROFILE VIEW
SCALE - 1" = 10'

STATION
PROFILE VIEW OF YELLOWMAN TO SHORT CULVERT
0+00 TO 1+13.31
(VERTICAL EXAGGERATION = 1:1)

SCALE IN FEET
0 5' 10'

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General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

YELLOWMAN TO SHORT PIPE PLAN AND PROFILE

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 10'
Sheet	DR1-207

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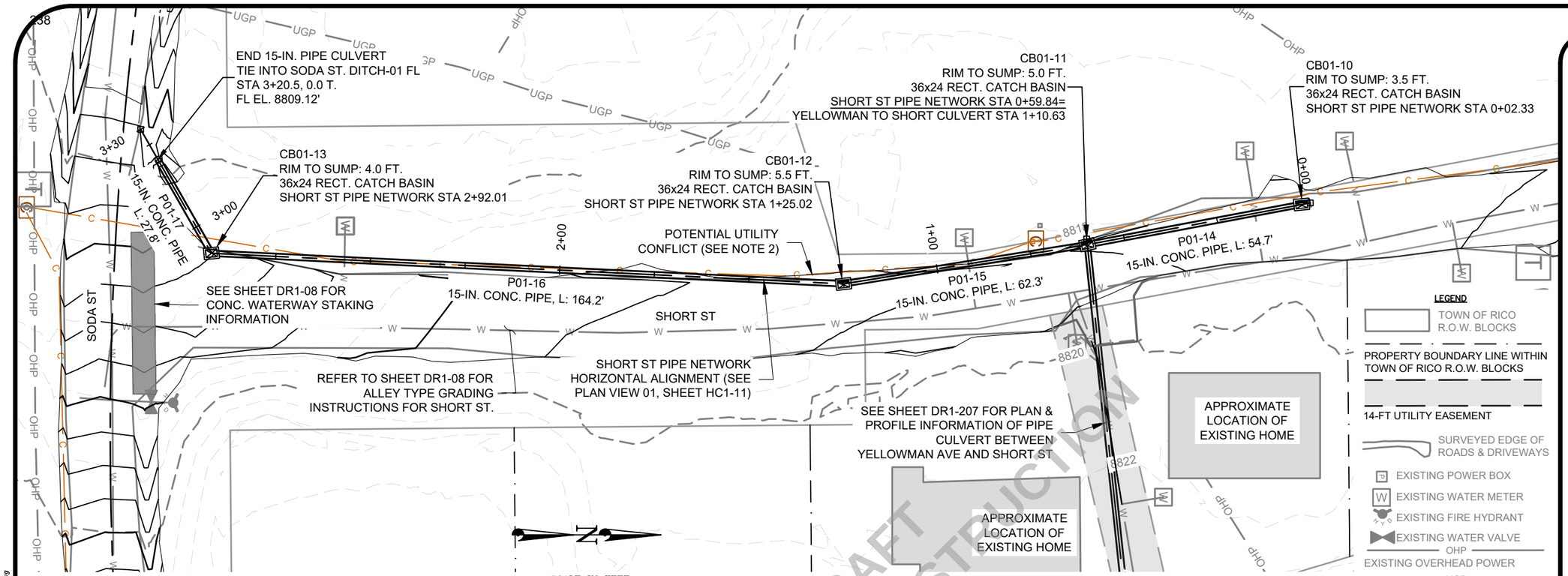
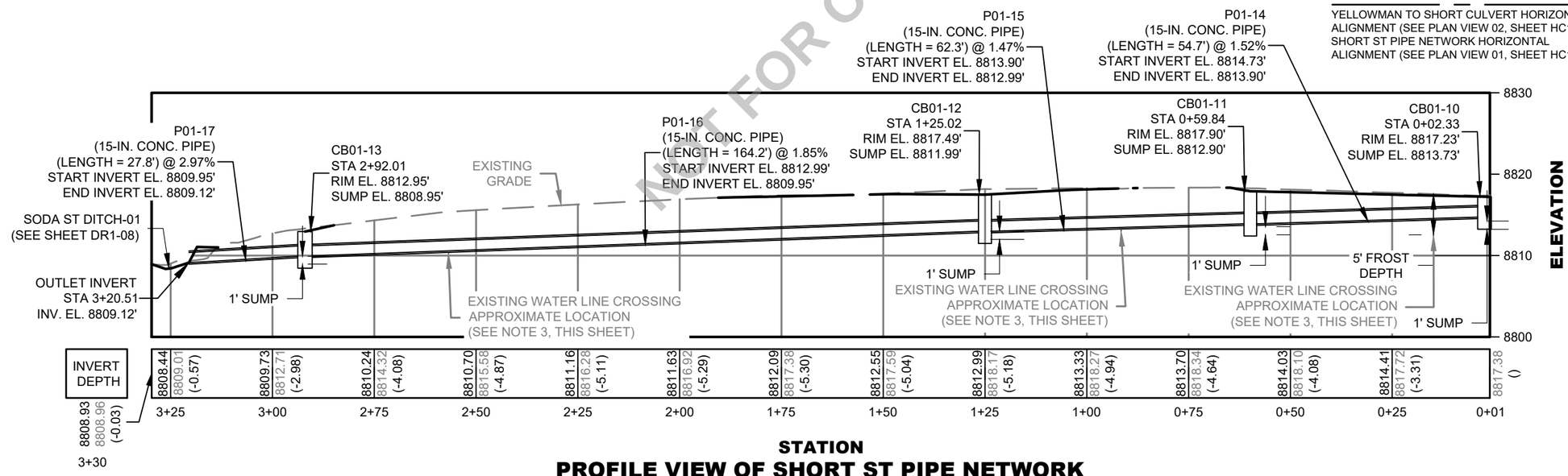


01 SHORT STREET PIPE CULVERT PLAN VIEW

SCALE - 1" = 30'



02 SHORT STREET PIPE CULVERT PROFILE VIEW

SCALE - 1" = 30'

STATION PROFILE VIEW OF SHORT ST PIPE NETWORK 0+01 TO 3+29.67 (VERTICAL EXAGGERATION = 2:1)

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS. THE PIPE CULVERTS MAY BE SHIFTED ADJACENT TO THE FIBER OPTIC LINE LOCATION AS APPROVED BY THE TOWN OF RICO.
3. WATER SERVICE LINES MAY BE LOOPED UNDER THE PIPE CULVERTS AS APPROVED BY THE TOWN OF RICO

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

SHORT STREET PIPE CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 30'
Sheet	DR1-208

DRAFT NOT FOR CONSTRUCTION

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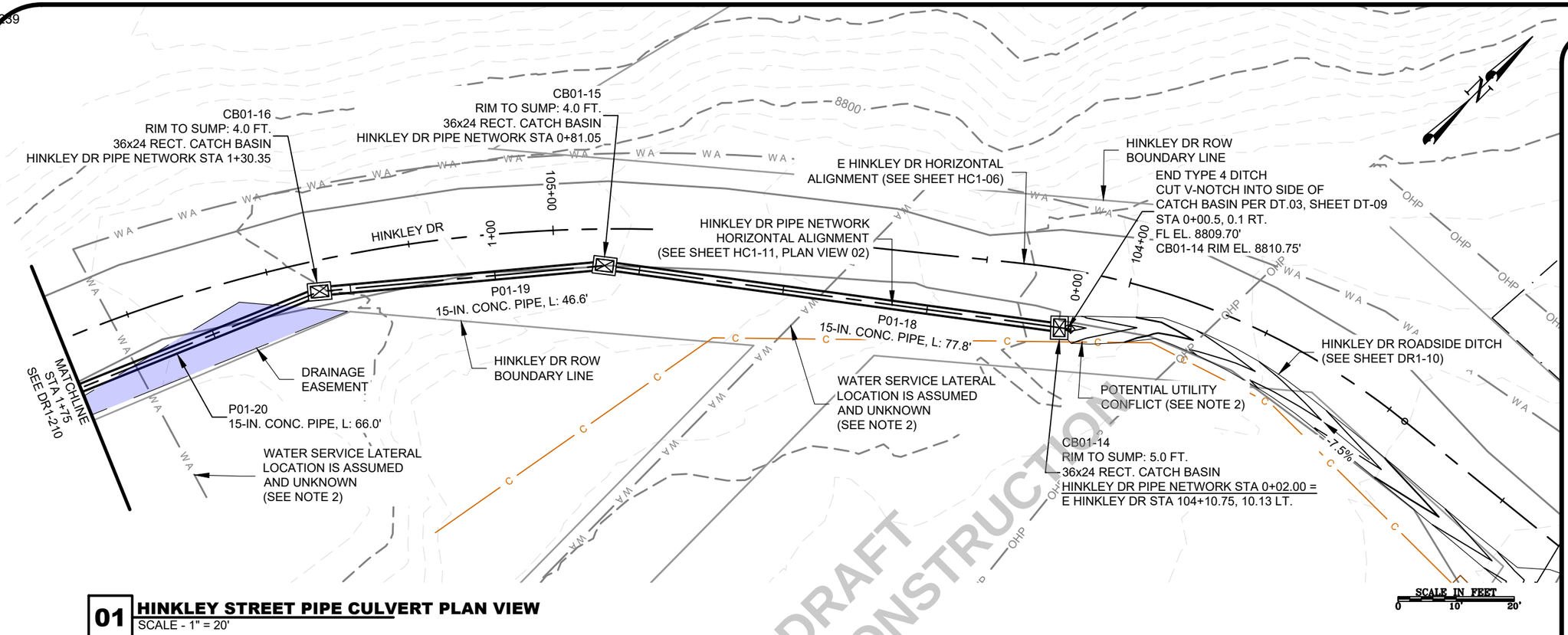
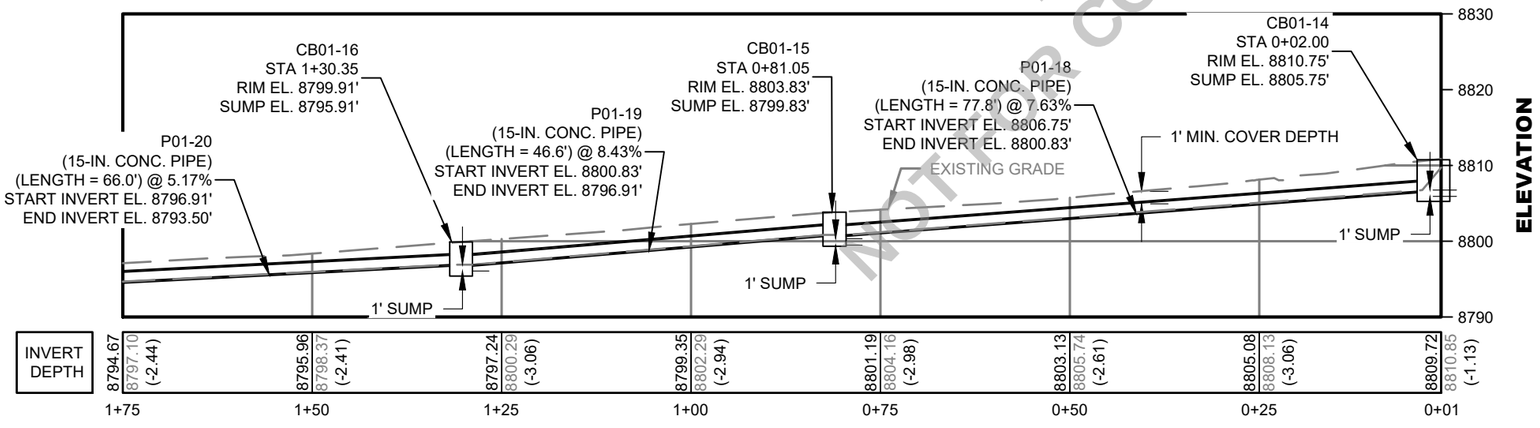


01 HINKLEY STREET PIPE CULVERT PLAN VIEW

SCALE - 1" = 20'



PROFILE VIEW OF HINKLEY DR PIPE NETWORK
0+01 TO 1+75.00
(VERTICAL EXAGGERATION = 1:1)

02 HINKLEY STREET PIPE CULVERT PROFILE VIEW

SCALE - 1" = 20'

DRAFT
NOT FOR CONSTRUCTION

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- PROPERTY BOUNDARY LINE WITHIN TOWN OF RICO R.O.W. BLOCKS
- PROPOSED DRAINAGE EASEMENT
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- EXISTING POWER POLE
- EXISTING POWER BOX
- W EXISTING WATER METER
- OHP EXISTING OVERHEAD POWER
- W EXISTING WATER LINE
- EXISTING FENCE LINE
- C EXISTING FIBER OPTIC LINE

E HINKLEY DR HORIZONTAL ALIGNMENT
(SEE SHEET HC1-06)
HINKLEY DR PIPE NETWORK
(SEE PLAN VIEW 02, SHEET HC1-11)

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

HINKLEY STREET PIPE CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 20'
Sheet	DR1-209

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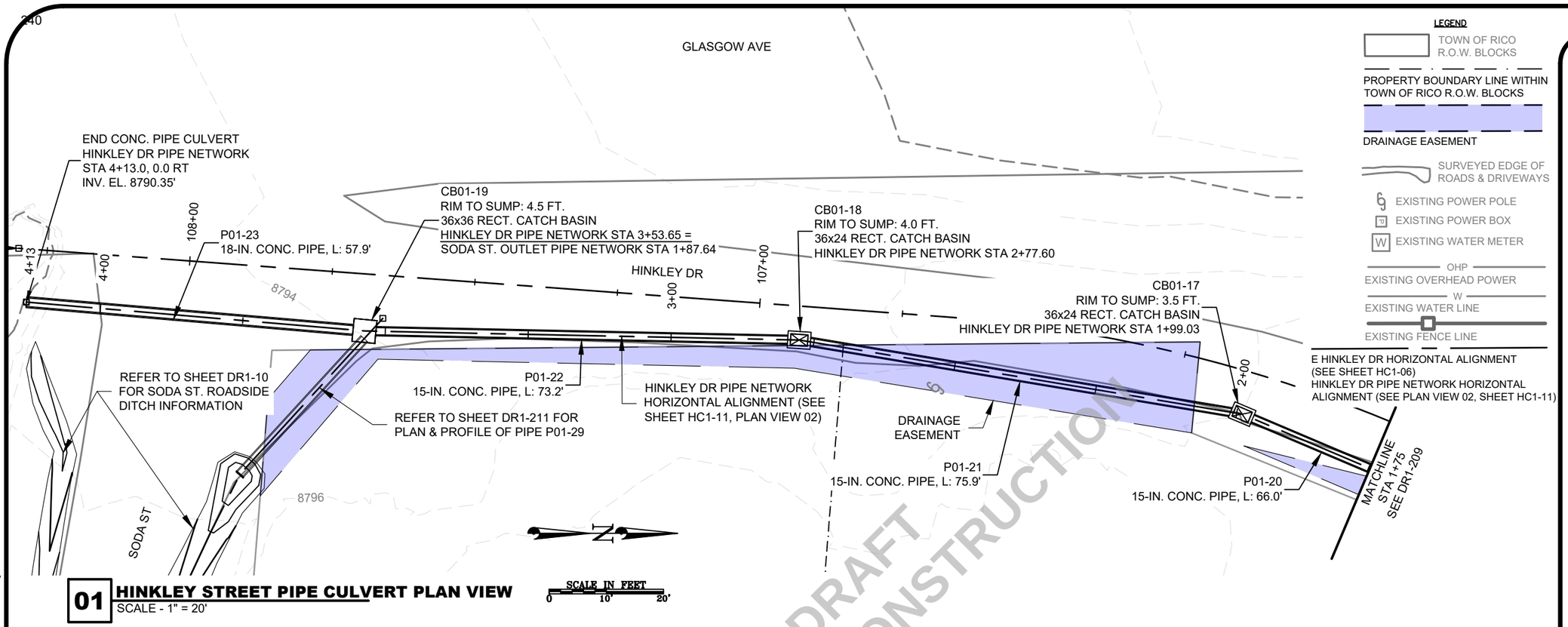
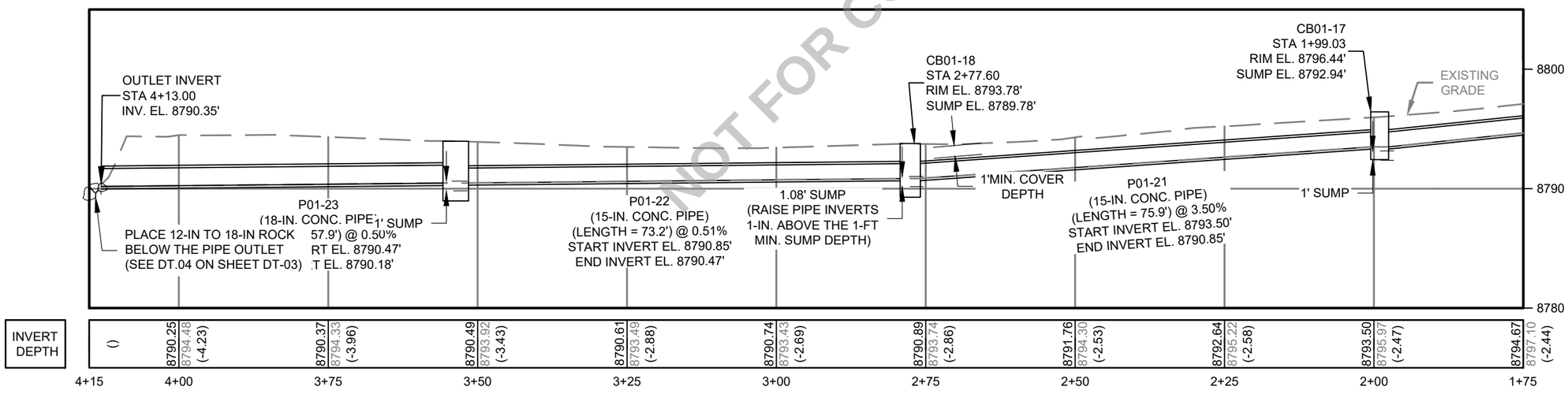


01 **HINKLEY STREET PIPE CULVERT PLAN VIEW**
SCALE - 1" = 20'



STATION

PROFILE VIEW OF HINKLEY DR PIPE NETWORK
1+75 TO 4+15.00
(VERTICAL EXAGGERATION = 2:1)

02 **HINKLEY STREET PIPE CULVERT PROFILE VIEW**
SCALE - 1" = 20'

DRAFT
NOT FOR CONSTRUCTION

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

HINKLEY STREET PIPE CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 20''
Sheet	DR1-210

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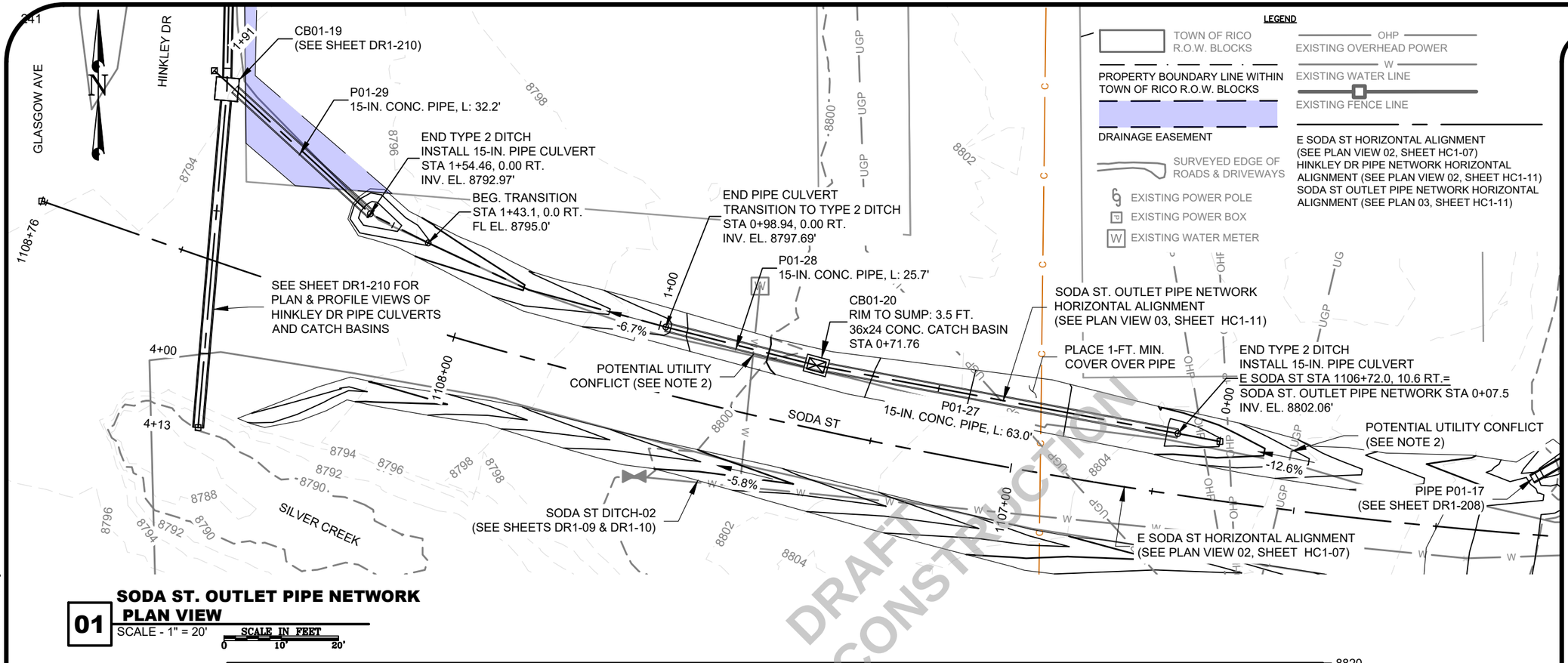


LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- PROPERTY BOUNDARY LINE WITHIN TOWN OF RICO R.O.W. BLOCKS
- DRAINAGE EASEMENT
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- EXISTING POWER POLE
- EXISTING POWER BOX
- EXISTING WATER METER
- OHP — EXISTING OVERHEAD POWER
- W — EXISTING WATER LINE
- EXISTING FENCE LINE
- E SODA ST HORIZONTAL ALIGNMENT (SEE PLAN VIEW 02, SHEET HC1-07)
- HINKLEY DR PIPE NETWORK HORIZONTAL ALIGNMENT (SEE PLAN VIEW 02, SHEET HC1-11)
- SODA ST OUTLET PIPE NETWORK HORIZONTAL ALIGNMENT (SEE PLAN 03, SHEET HC1-11)

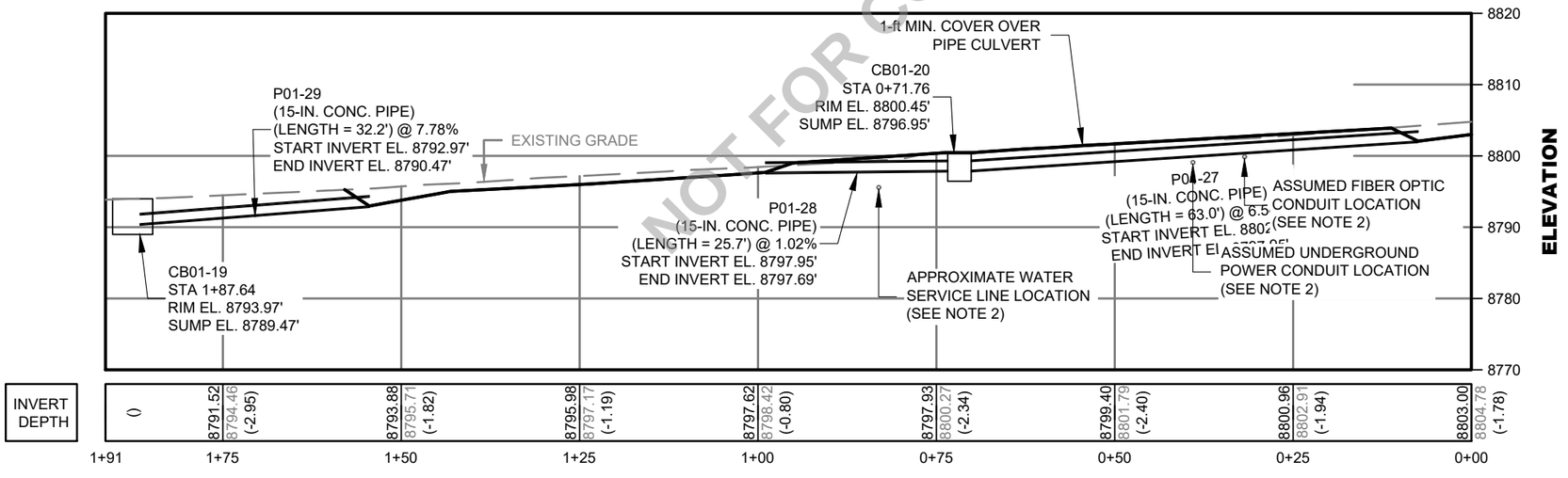
General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS.

01 SODA ST. OUTLET PIPE NETWORK PLAN VIEW

SCALE - 1" = 20'

SCALE IN FEET 0 10' 20'



02 SODA ST. OUTLET PIPE NETWORK PROFILE VIEW

SCALE - 1" = 20'

PROFILE VIEW OF SODA ST. OUTLET PIPE NETWORK
0+00 TO 1+91.44
(VERTICAL EXAGGERATION = 1:1)

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

SODA STREET OUTLET PIPE NETWORK

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 20``
Sheet	DR1-211

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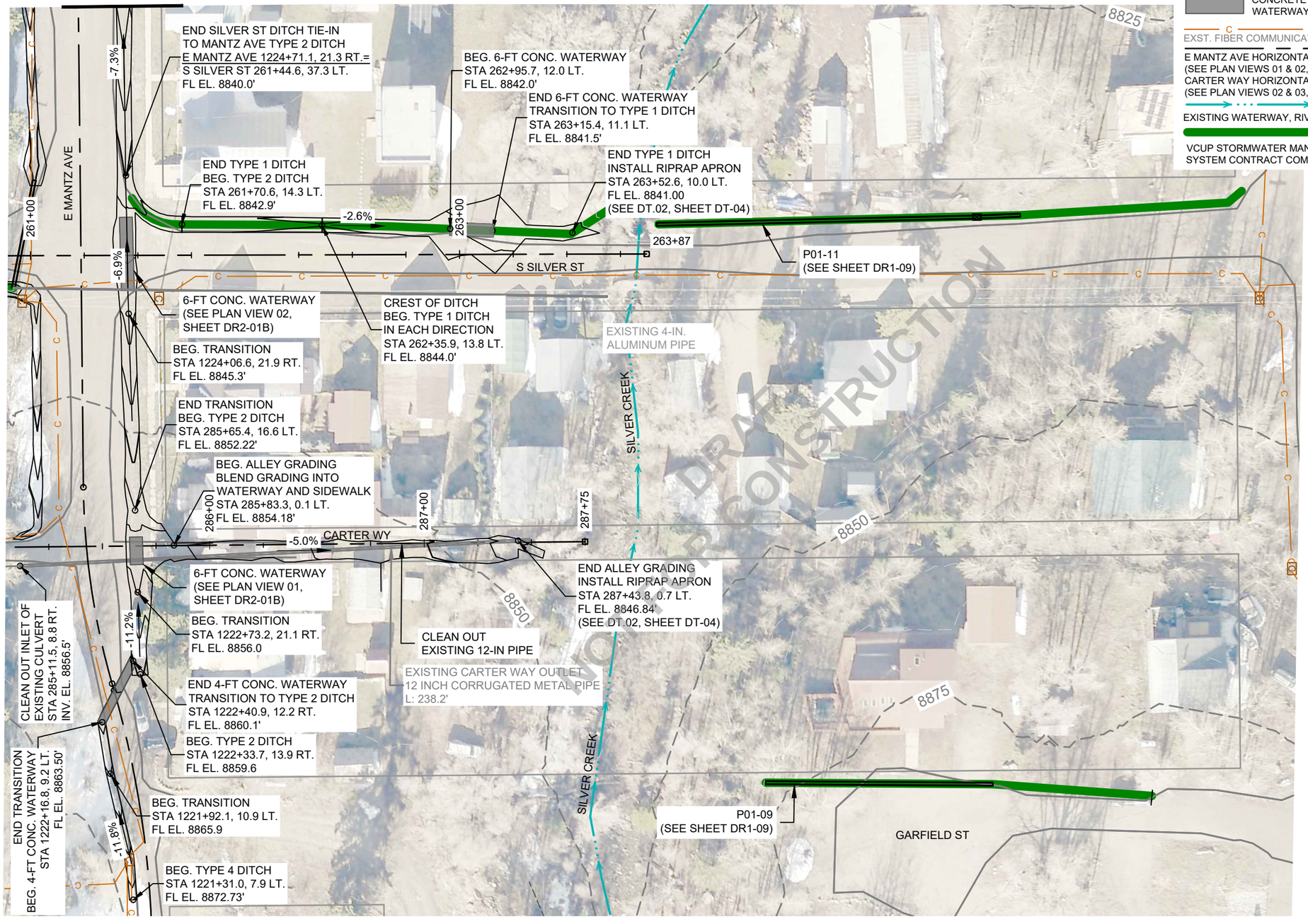

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS (N.T.S.)
- CONCRETE WATERWAY
- EXST. FIBER COMMUNICATION LINE
- E MANTZ AVE HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 01 & 02, SHEET HC2-05)
  CARTER WAY HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02 & 03, SHEET HC2-03)
- EXISTING WATERWAY, RIVER, OR STREAM
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

01 MANTZ DITCH-01, CARTER WY & SILVER ST NORTH TO CREEK PLAN VIEW
SCALE - 1" = 50'

SCALE IN FEET
0 25 50

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

MANTZ DITCH-01, CARTER WY & SILVER ST NORTH TO CREEK

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR2-01A
Date: 23-Oct-2025	
Scale: 1" = 50'	

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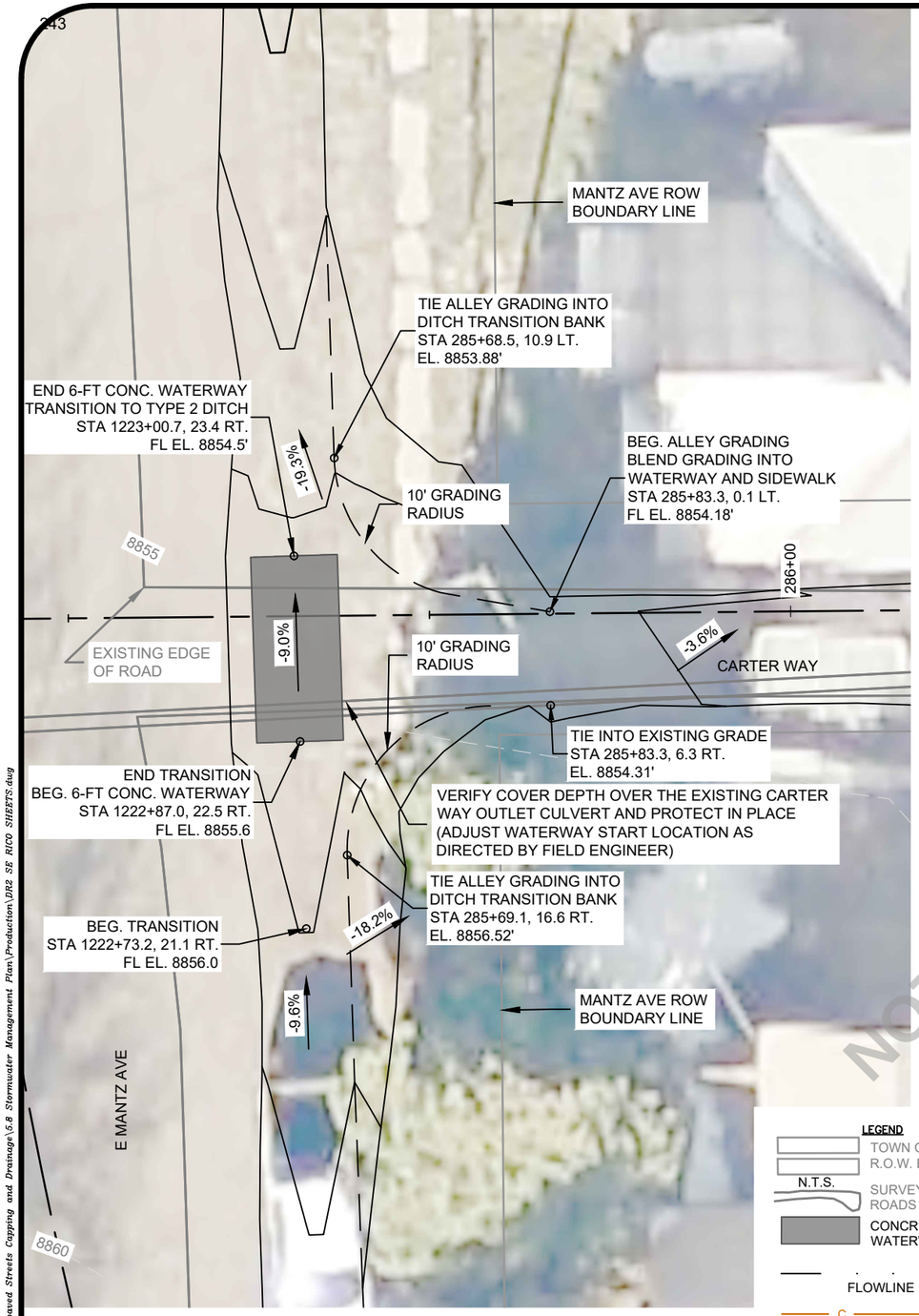

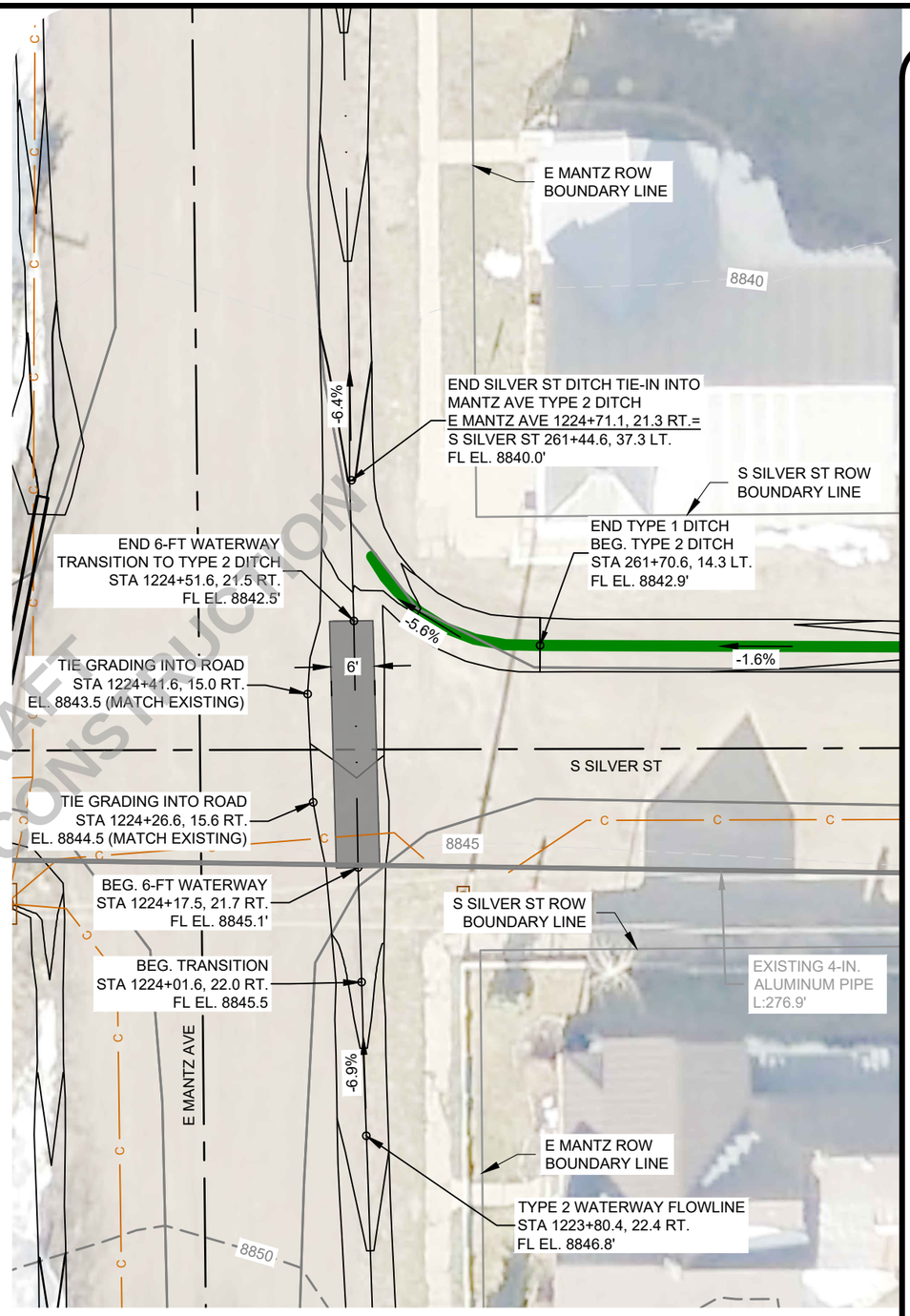

DRAFT NOT FOR CONSTRUCTION

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- FLOWLINE
- EXST. FIBER COMMUNICATION LINE
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

N.T.S.

01 E MANTZ AVE DITCH CROSSING AT CARTER WAY
PLAN VIEW
SCALE - 1" = 10'

E MANTZ AVE HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 01 & 02, SHEET HC2-05)
CARTER WAY HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02 & 03, SHEET HC2-03
S SILVER ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02 & 03, SHEET HC2-03)

02 E MANTZ AVE DITCH CROSSING AT S SILVER STREET
PLAN VIEW
SCALE - 1" = 20'

SCALE IN FEET
0 10 20

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

E MANTZ AVE DITCH CROSSING

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR2-01B
Date: 23-Oct-2025	
Scale: 1" = 20'	

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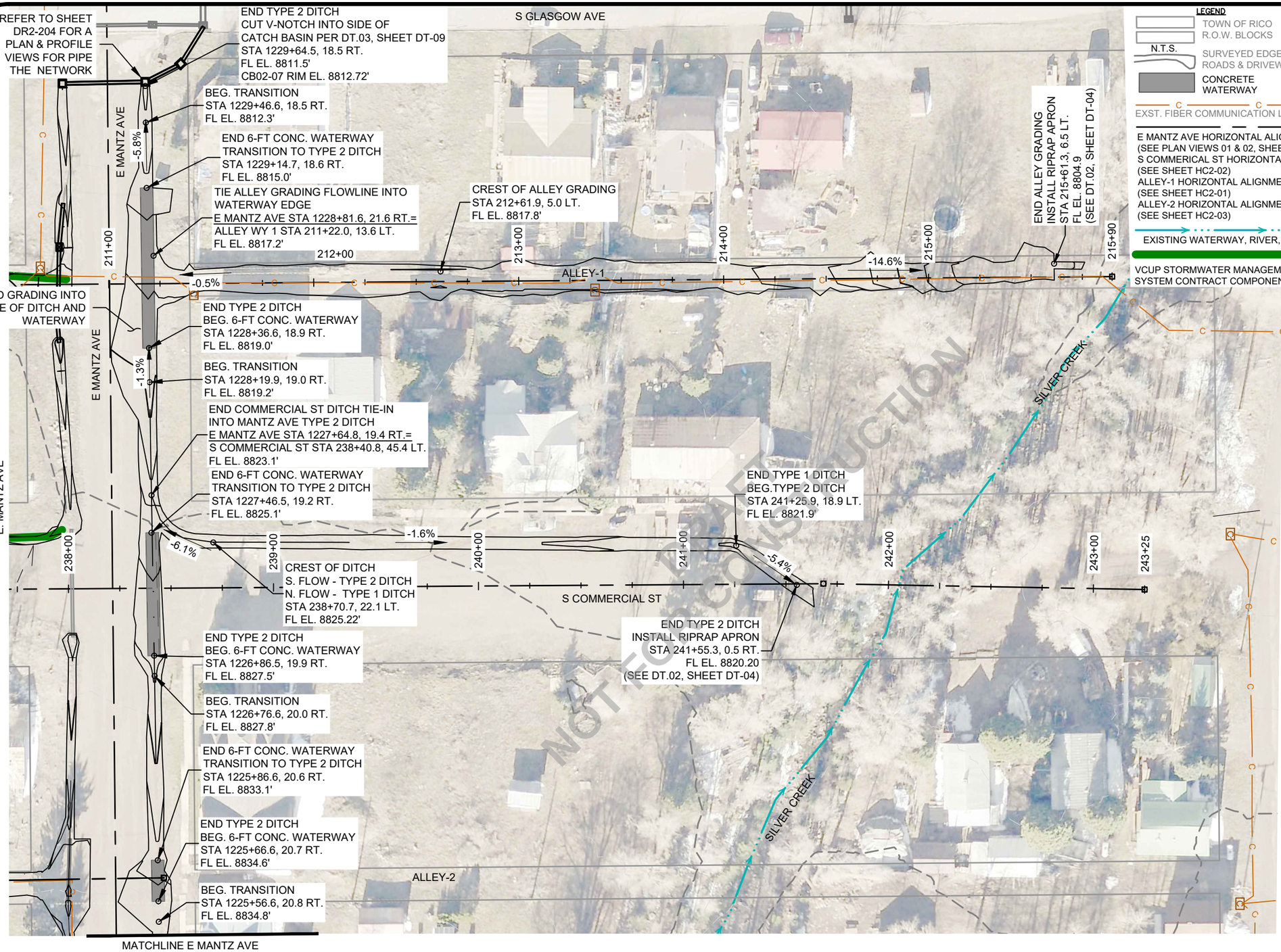

01 **MANTZ DITCH-01, COMMERCIAL ST & ALLEY-1 NORTH TO CREEK**
PLAN VIEW
SCALE - 1" = 50'

SCALE IN FEET
0 25 50

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

MANTZ DITCH-01, COMMERCIAL ST & ALLEY-1 NORTH TO CREEK

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR2-02A
Date: 23-Oct-2025	
Scale: 1" = 50'	

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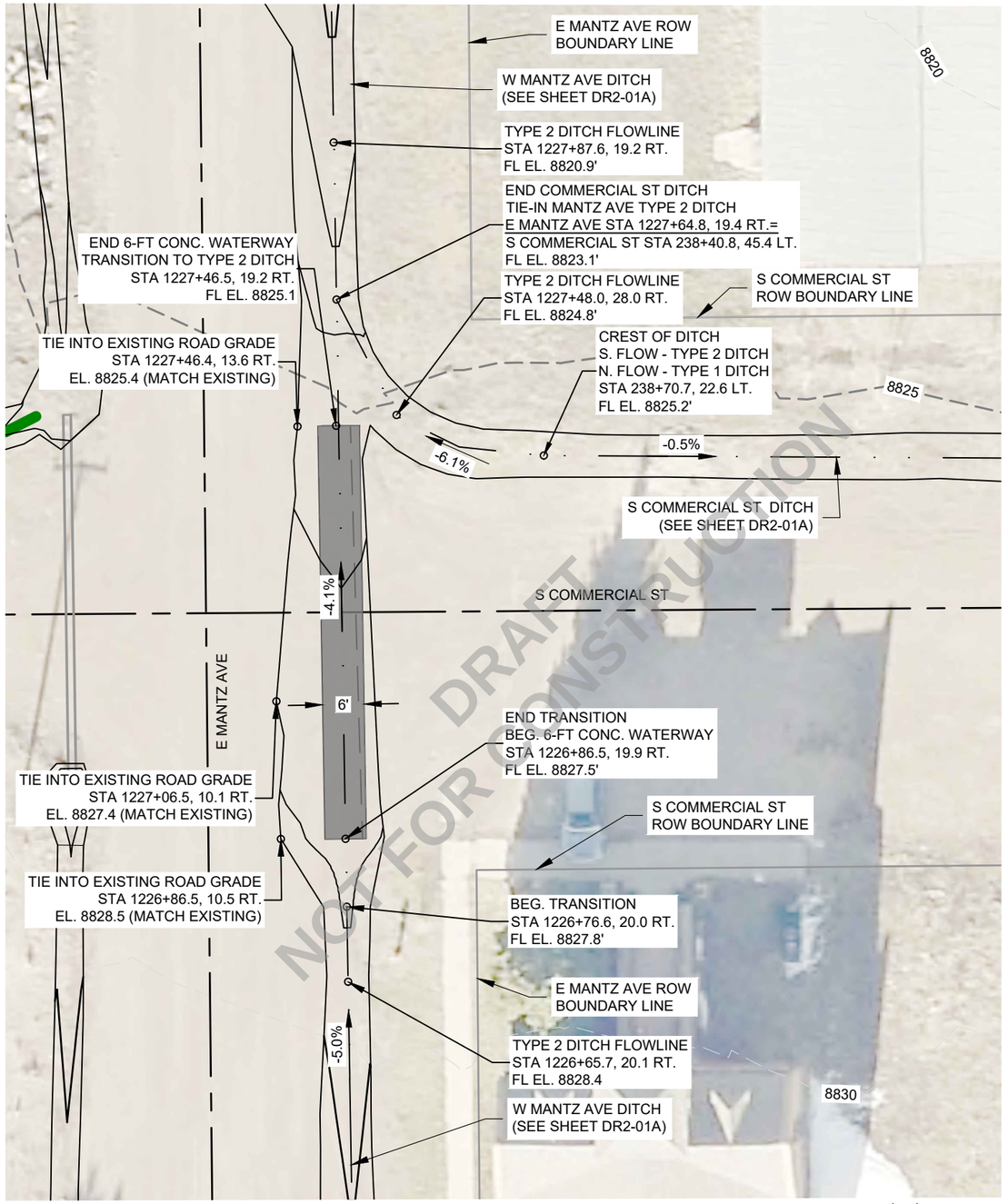

01 **E MANTZ AVE DITCH CROSSING AT COMMERCIAL ST.**
PLAN VIEW
SCALE - 1" = 20'

N

SCALE IN FEET
0 10 20

LEGEND

TOWN OF RICO R.O.W. BLOCKS

N.T.S.

SURVEYED EDGE OF ROADS & DRIVEWAYS

CONCRETE WATERWAY

FLOWLINE

E MANTZ AVE HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 01 & 02, SHEET HC2-05)
S COMMERICAL ST HORIZONTAL ALIGNMENT (SEE SHEET HC2-02)

VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

E MANTZ AVE DITCH CROSSING

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR2-02B
Date: 23-Oct-2025	
Scale: 1" = 20'	

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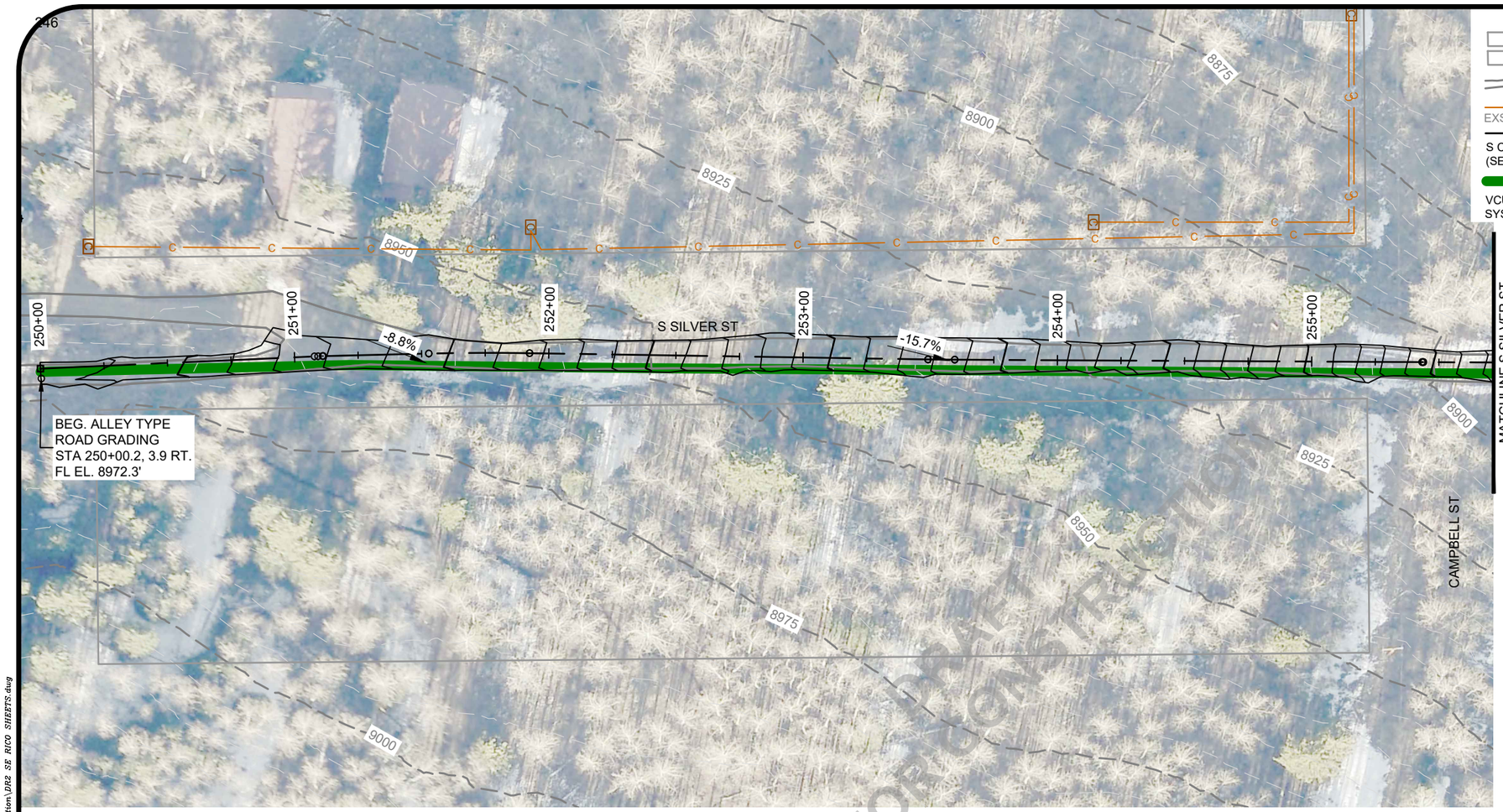

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- N.T.S. SURVEYED EDGE OF ROADS & DRIVEWAYS
- C C EXST. FIBER COMMUNICATION LINE
- S COMMERCIAL ST HORIZONTAL ALIGNMENT (SEE SHEET HC2-02)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

01 SILVER ST SO. ROAD GRADING PLAN VIEW
SCALE - 1" = 50'

SCALE IN FEET
0 25 50

NOT FOR CONSTRUCTION

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

SILVER ST SO. ROAD GRADING

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	23-Oct-2025
Scale	1" = 50'
Sheet	DR2-03

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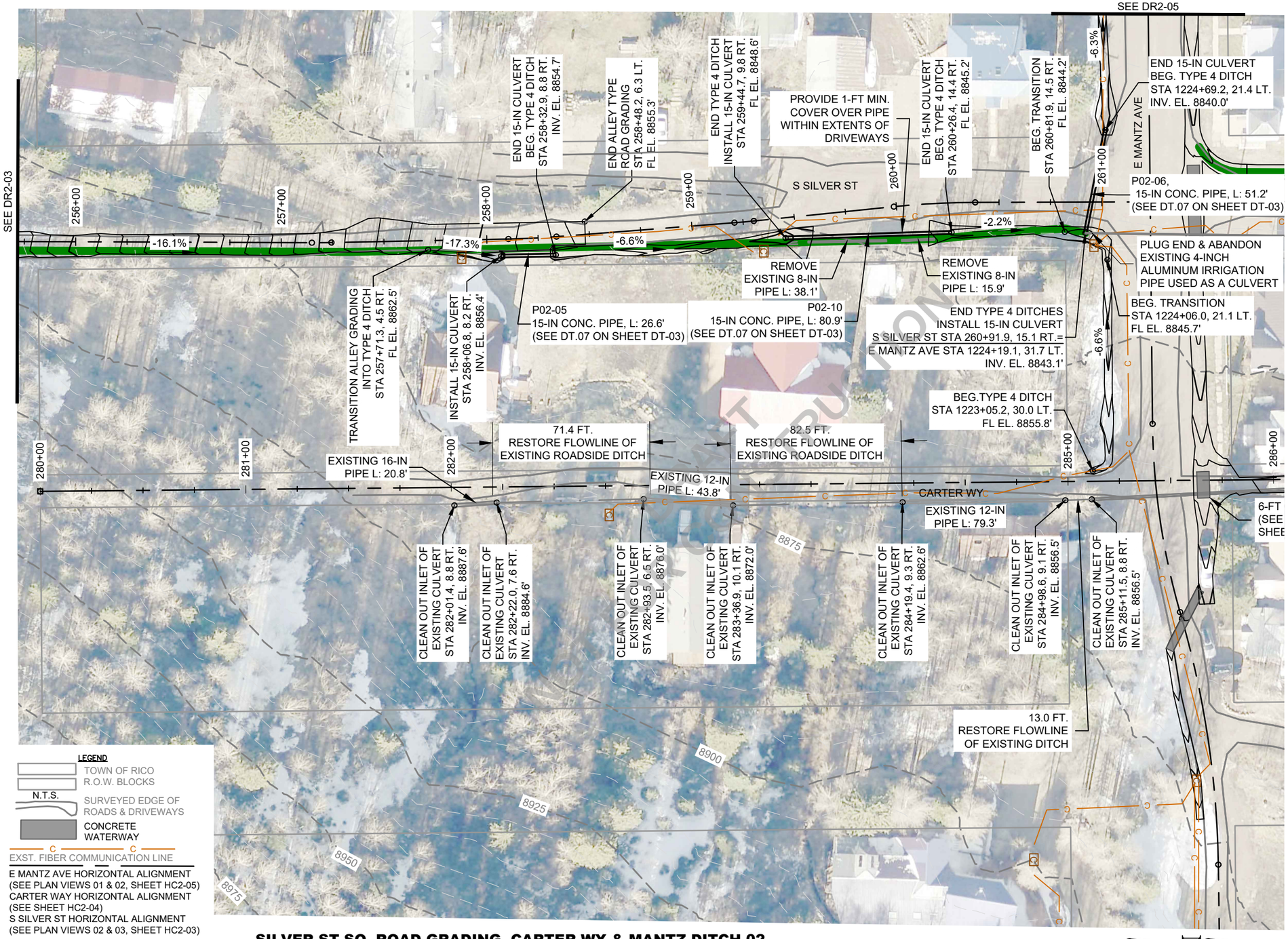

01 **SILVER ST SO. ROAD GRADING, CARTER WY & MANTZ DITCH-02**
PLAN VIEW
SCALE - 1" = 50'

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE ROADSIDE DITCH, AND THE CULVERT PIPE.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

SILVER ST SO. ROAD GRADING,
CARTER WY & MANTZ DITCH-02

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR2-04
Date: 23-Oct-2025	
Scale: 1" = 50'	

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\DR2 SE RICO SHEETS.dwg

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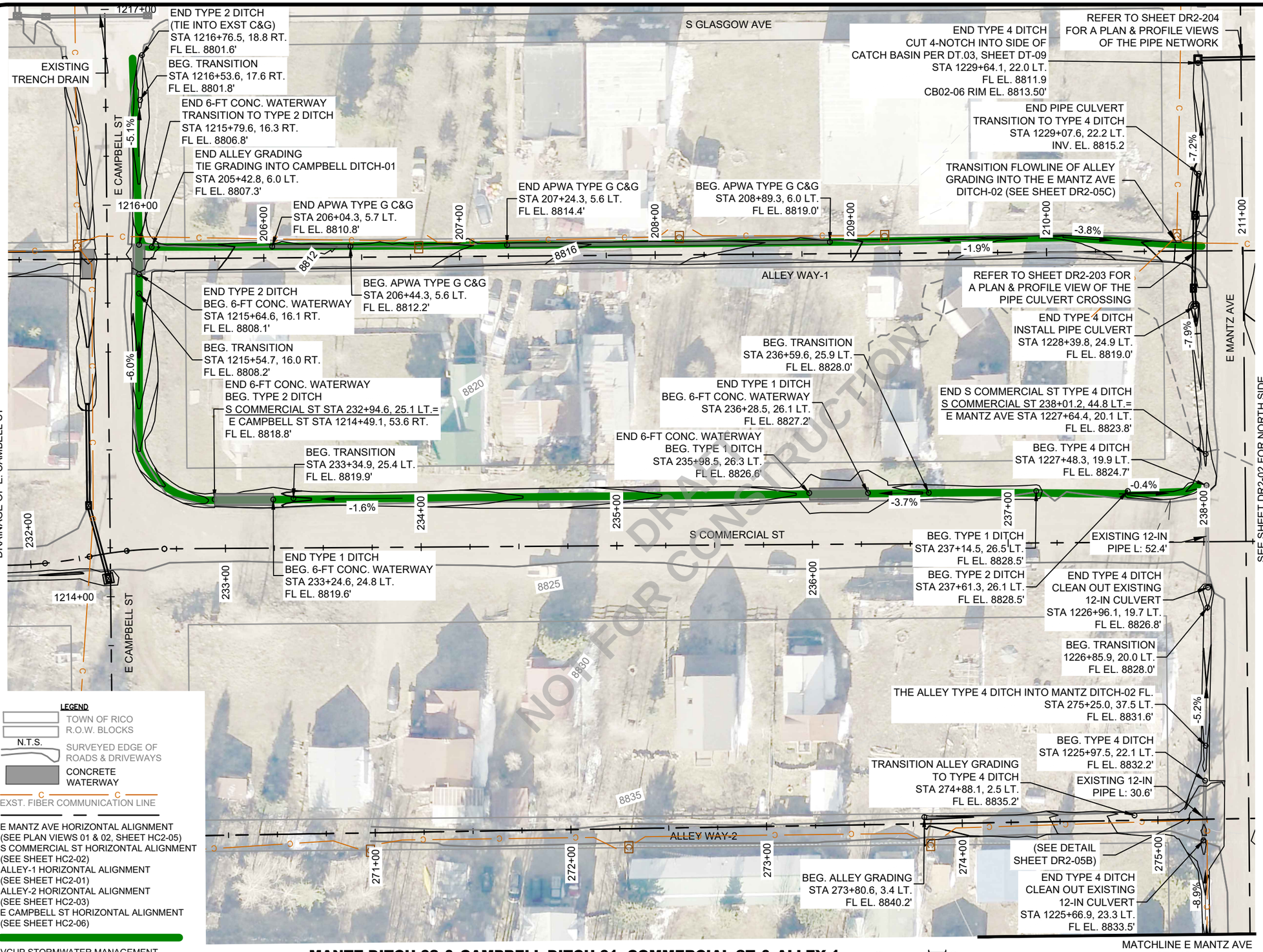

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- EXST. FIBER COMMUNICATION LINE

N.T.S.

E MANTZ AVE HORIZONTAL ALIGNMENT
(SEE PLAN VIEWS 01 & 02, SHEET HC2-05)
S COMMERCIAL ST HORIZONTAL ALIGNMENT
(SEE SHEET HC2-02)
ALLEY-1 HORIZONTAL ALIGNMENT
(SEE SHEET HC2-01)
ALLEY-2 HORIZONTAL ALIGNMENT
(SEE SHEET HC2-03)
E CAMPBELL ST HORIZONTAL ALIGNMENT
(SEE SHEET HC2-06)

VCUP STORMWATER MANAGEMENT
SYSTEM CONTRACT COMPONENTS

01 MANTZ DITCH-02 & CAMPBELL DITCH-01, COMMERCIAL ST & ALLEY-1 PLAN VIEW
SCALE - 1" = 50'

SCALE IN FEET
0 25 50

NOT FOR CONSTRUCTION

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

MANTZ DITCH-02 & CAMPBELL DITCH-01, COMMERCIAL ST & ALLEY-1
RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR2-05A
Date: 23-Oct-2025	
Scale: 1" = 50'	

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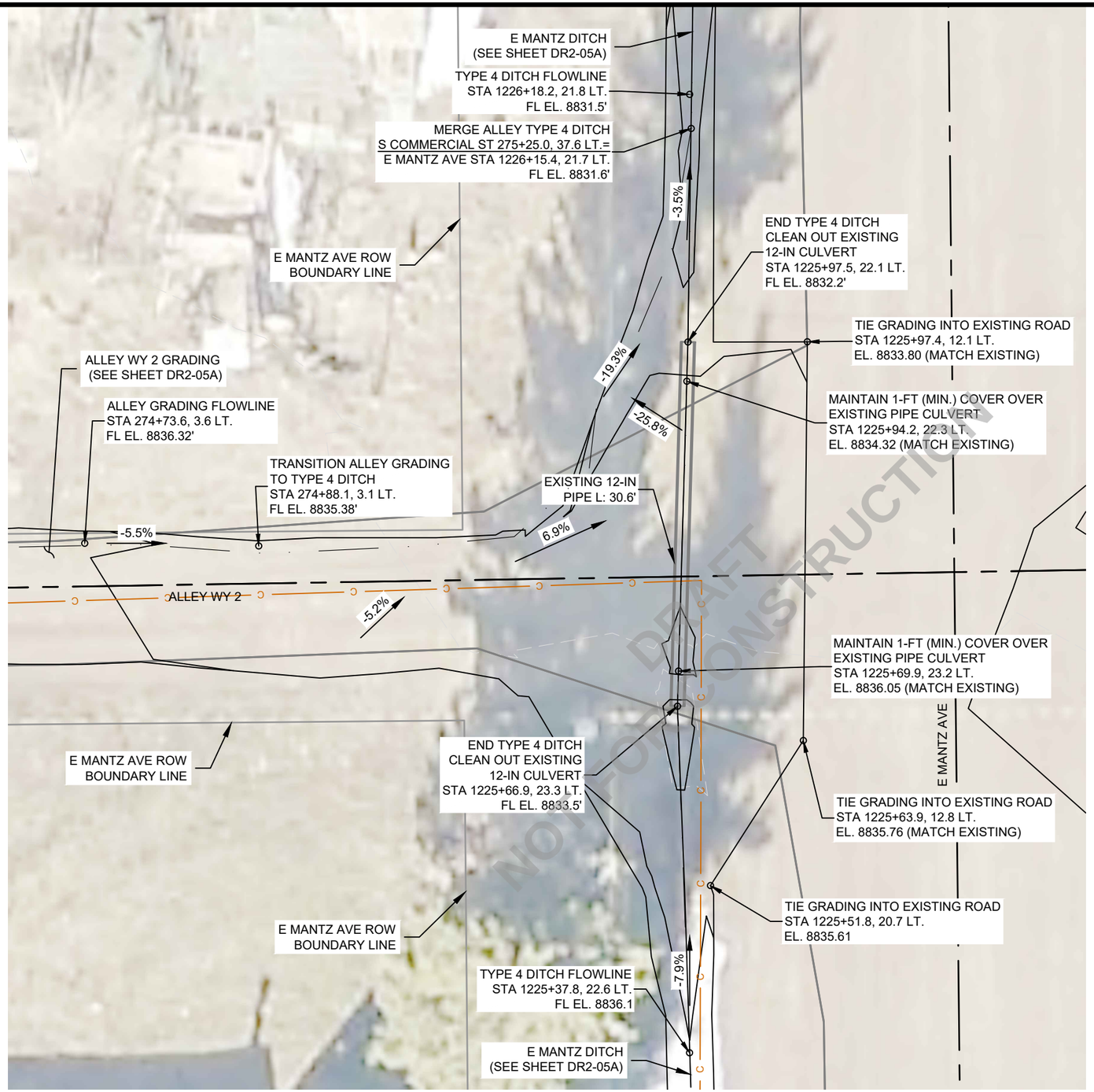

DRAFT
NOT FOR CONSTRUCTION

01 **E MANTZ CROSSING ALLEY 2**
PLAN VIEW
SCALE - 1" = 10'

LEGEND
- TOWN OF RICO R.O.W. BLOCKS
- N.T.S. SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- FLOWLINE
- EXST. FIBER COMMUNICATION LINE
- E MANTZ AVE HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 01 & 02, SHEET HC2-05)
- ALLEY-2 HORIZONTAL ALIGNMENT (SEE SHEET HC2-03)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

SCALE IN FEET
0 5 10

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

E MANTZ AVE DITCH CROSSING AT ALLEY 2

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	23-Oct-2025
Scale	1" = 10'
Sheet	DR2-05B

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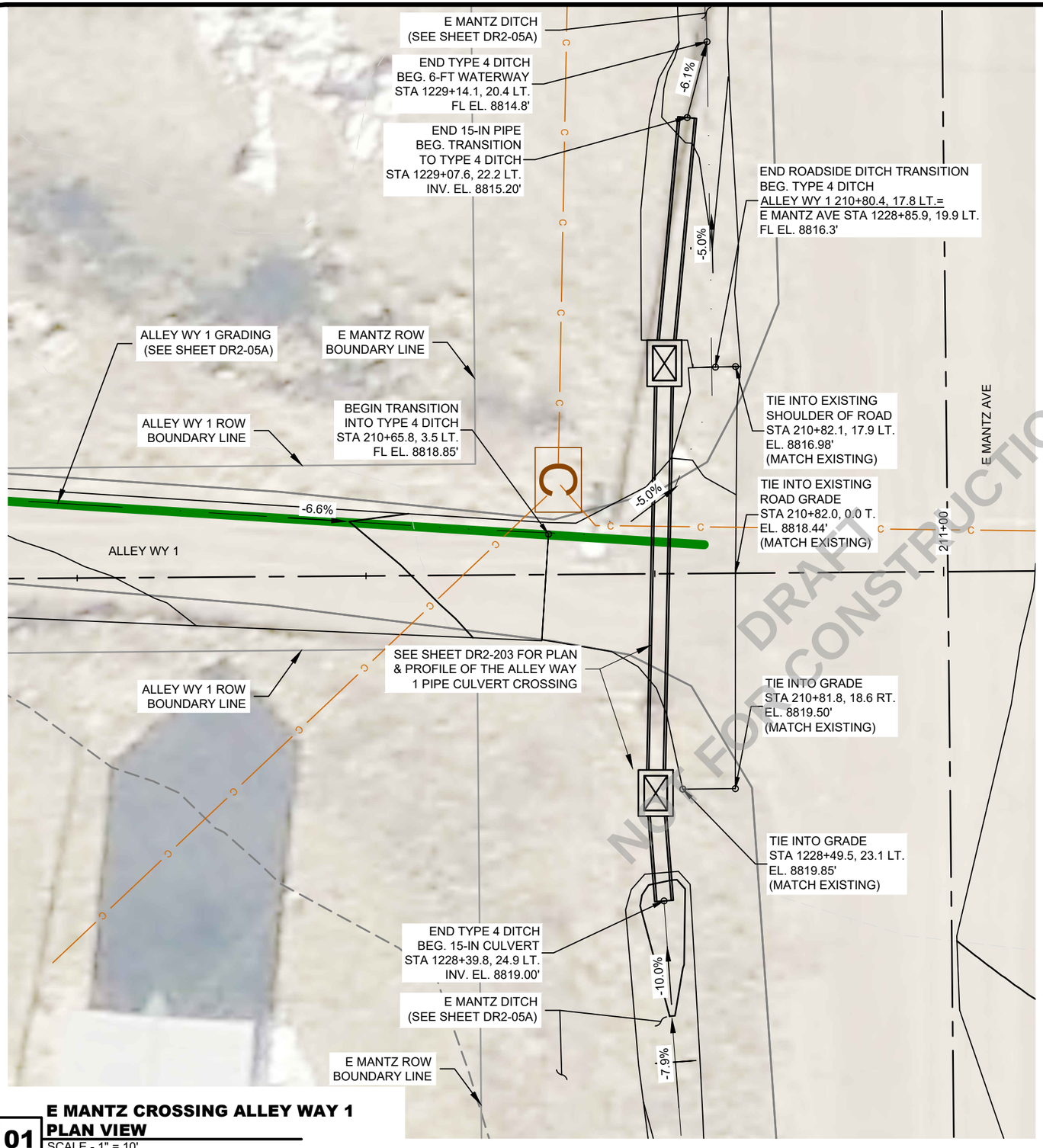

01 **E MANTZ CROSSING ALLEY WAY 1 PLAN VIEW**
SCALE - 1" = 10'

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- N.T.S. SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- C C EXST. FIBER COMMUNICATION LINE
- E MANTZ AVE HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 01 7 02, SHEET HC2-05)
- ALLEY-1 HORIZONTAL ALIGNMENT (SEE SHEET HC2-01)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

SCALE IN FEET
0 5 10

General Notes

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No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

E MANTZ AVE DITCH CROSSING AT ALLEY 1

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR2-05C
Date: 23-Oct-2025	
Scale: 1" = 10'	

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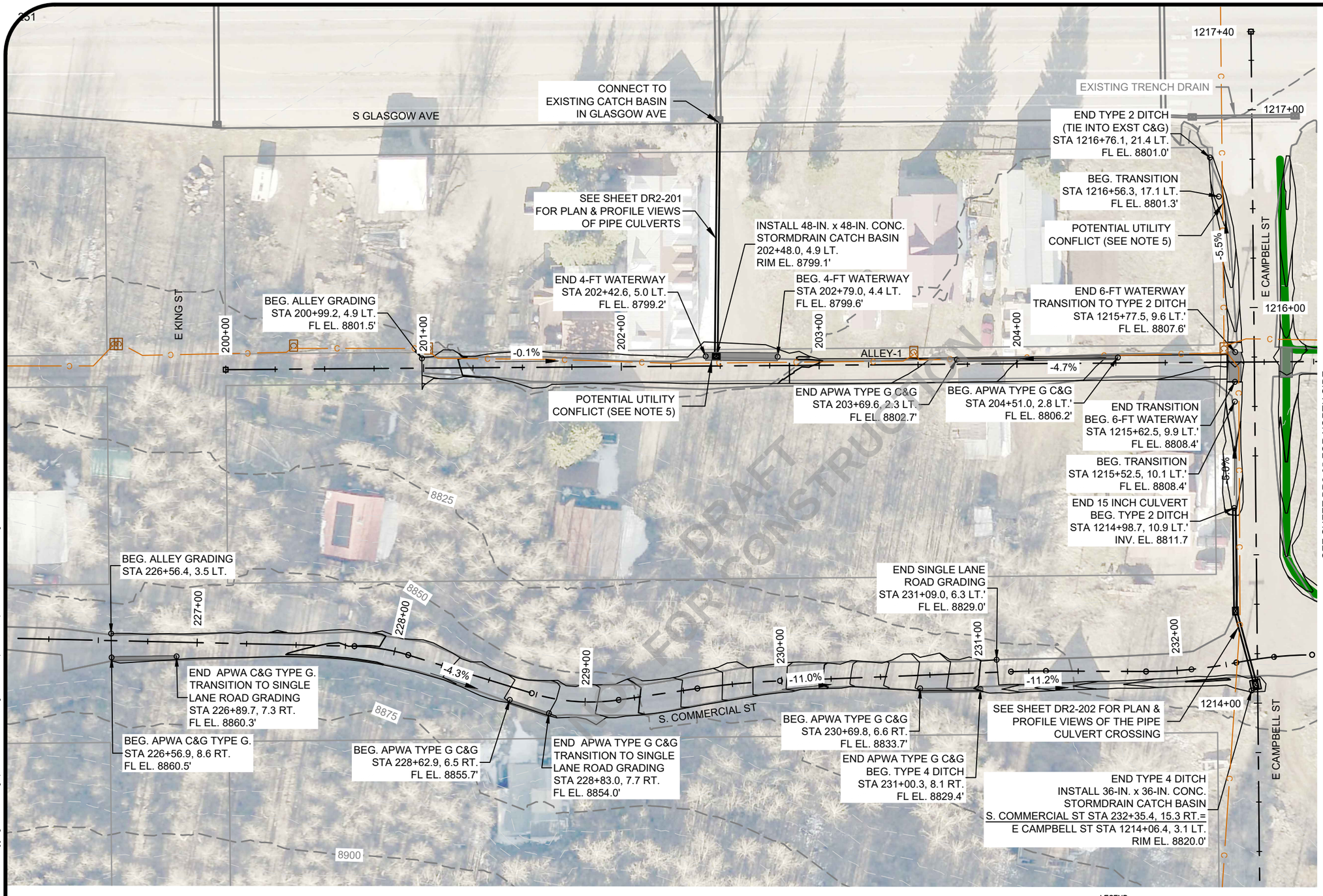

01 **COMMERCIAL ST TO CAMPBELL DITCH-02, & ALLEY-1 TO OUTLET PLAN VIEW**
SCALE - 1" = 50'

N

SCALE IN FEET
0 25 50

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- N.T.S. CONCRETE WATERWAY
- C C EXST. FIBER COMMUNICATION LINE
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS
- S COMMERCIAL ST HORIZONTAL ALIGNMENT (SEE SHEET HC2-02)
- ALLEY-1 HORIZONTAL ALIGNMENT (SEE SHEET HC2-01)
- (E CAMPBELL ST HORIZONTAL ALIGNMENT (SEE SHEET HC2-06)

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
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4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE ROADSIDE DITCH, AND THE STORM DRAIN.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

COMMERCIAL ST TO CAMPBELL DITCH-02, & ALLEY-1 TO OUTLET

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR2-06
Date: 23-Oct-2025	
Scale: 1" = 50'	

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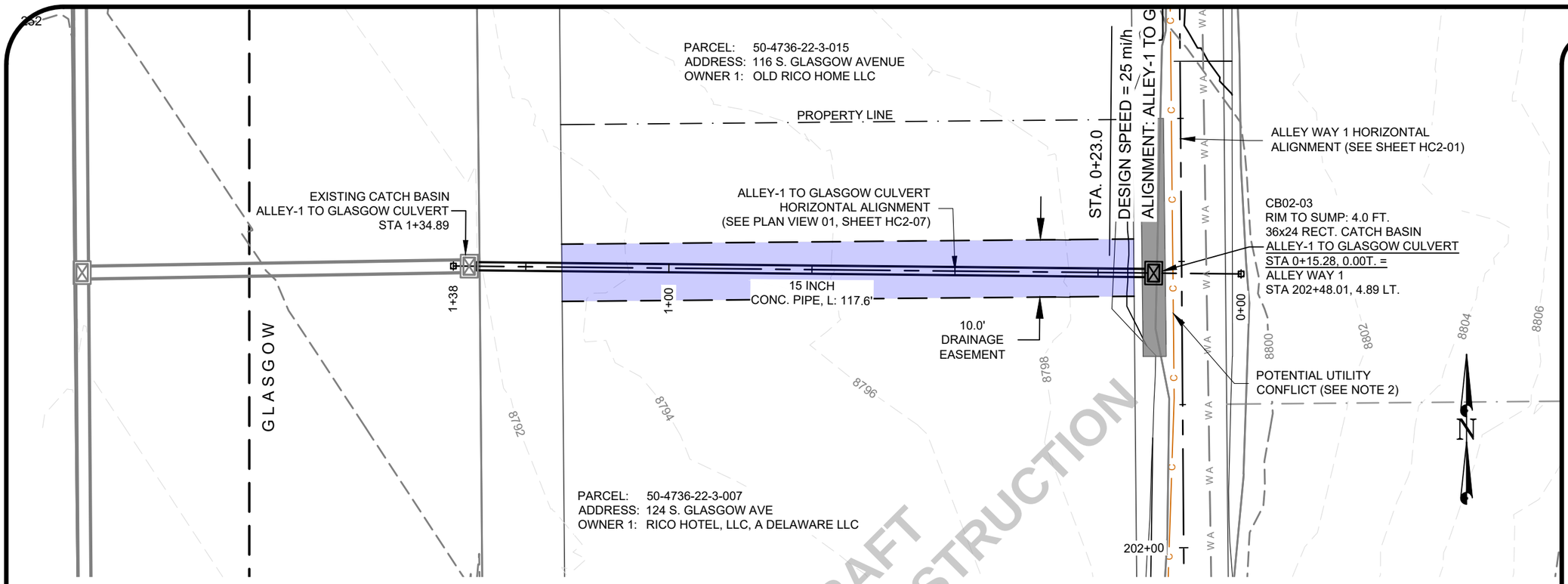
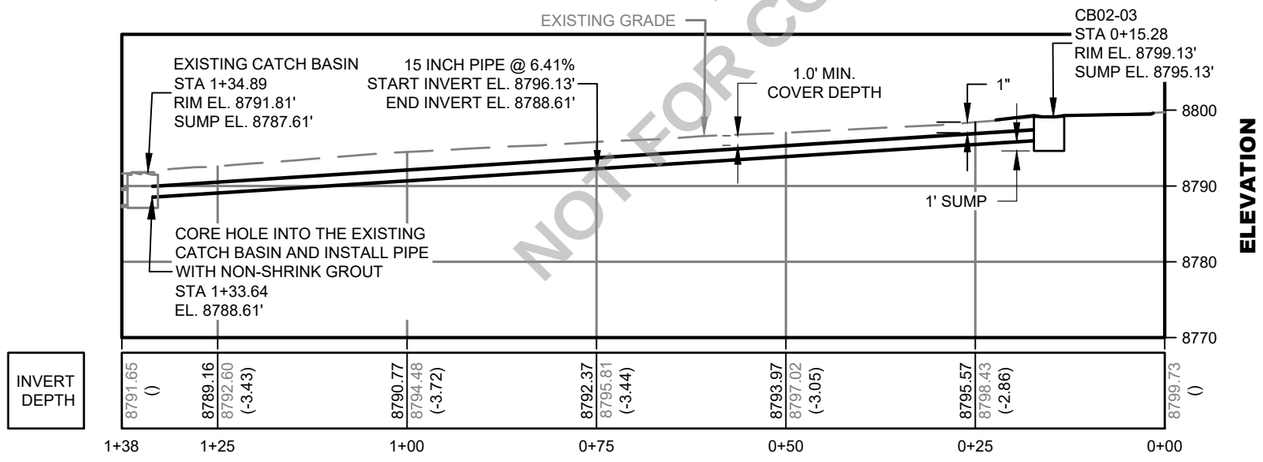


01 ALLEY-1 TO GLASGOW AVE PIPE CULVERT PLAN VIEW

SCALE - 1" = 20'



PROFILE VIEW OF ALLEY-1 TO GLASGOW CULVERT
0+00 TO 1+37.66
(VERTICAL EXAGGERATION = 1:1)

02 ALLEY-1 TO GLASGOW AVE PIPE CULVERT PROFILE VIEW

SCALE - 1" = 20'

SCALE IN FEET
0 10 20

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- PROPERTY BOUNDARY LINE WITHIN TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- DRAINAGE EASEMENT
- C C EXST. FIBER COMMUNICATION LINE
- W A W A EXISTING WATERLINES LOCATIONS ARE ASSUMED BASED ON SURVEYED LOCATIONS OF WATER METERS AND FOUND WATER VALVES

ALLEY WAY 1 HORIZONTAL ALIGNMENT (SEE SHEET HC2-01)
ALLEY-1 TO GLASGOW CULVERT HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC2-07)

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTHS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

ALLEY-1 TO GLASGOW AVE PIPE CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR2-201
Date: 23-Oct-2025	
Scale: 1" = 20'	

DRAFT NOT FOR CONSTRUCTION

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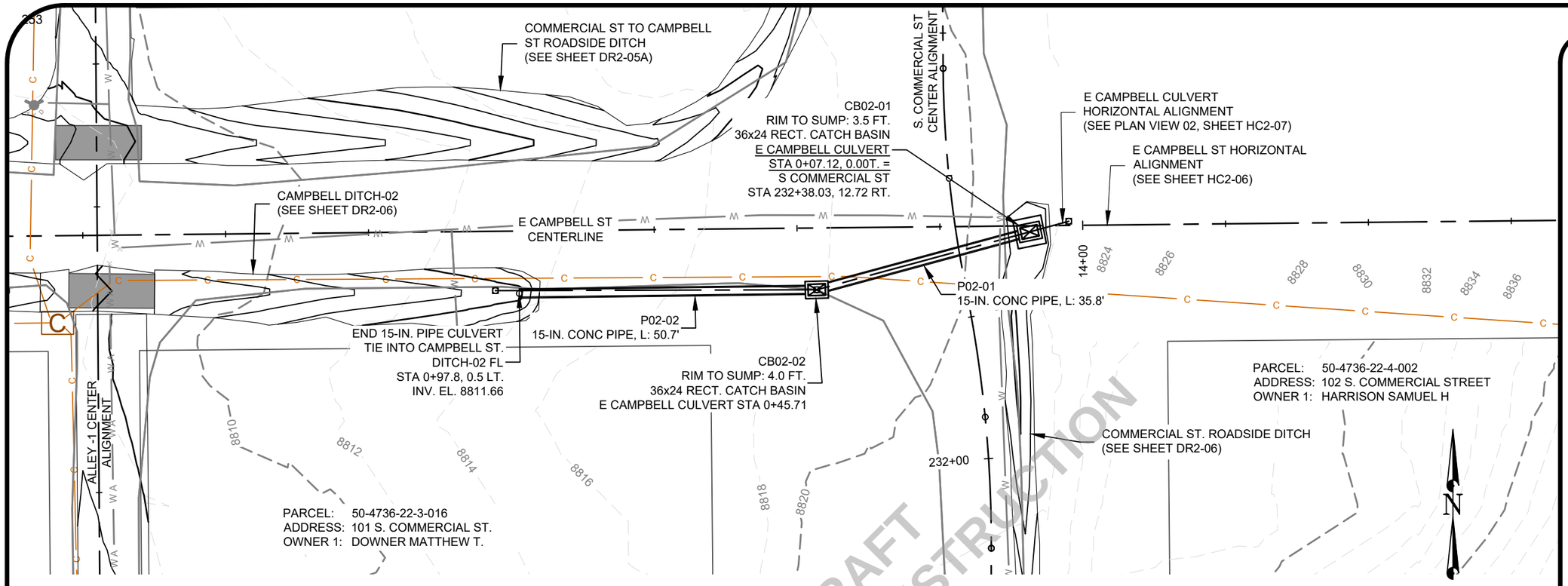
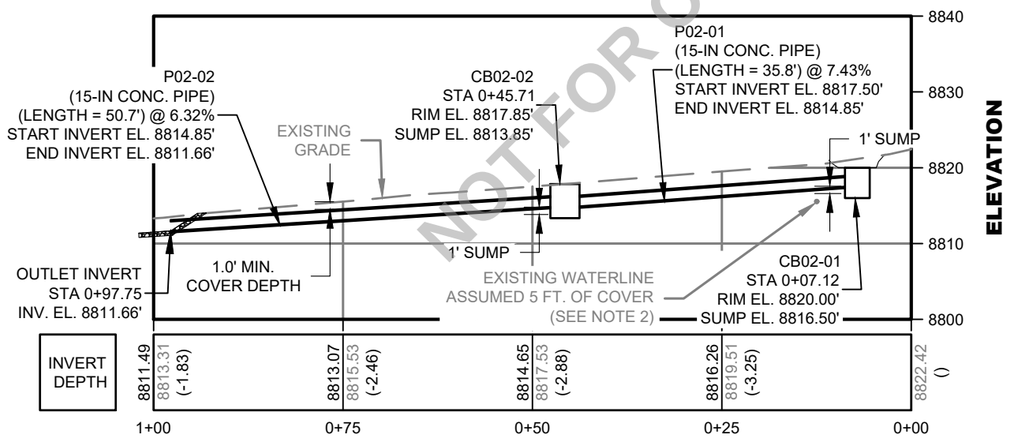


01 E CAMPBELL STREET PIPE CULVERT PLAN VIEW

SCALE - 1" = 20'



PROFILE VIEW OF E CAMPBELL CULVERT 0+00 TO 1+00.00 (VERTICAL EXAGGERATION = 1:1)

02 E CAMPBELL STREET PIPE CULVERT PROFILE VIEW

SCALE - 1" = 20'

DRAFT NOT FOR CONSTRUCTION

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- PROPERTY BOUNDARY LINE WITHIN TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- W — EXISTING WATERLINES BASED ON SURVEY OF WATER VALVES, WATER METERS, AND AS-BUILT INFORMATION PROVIDED BY THE TOWN OF RICO
- E CAMPBELL CULVERT HORIZONTAL ALIGNMENT (SEE PLAN VIEW 02, SHEET HC2-07)
- E CAMPBELL ST HORIZONTAL ALIGNMENT (SEE SHEET HC2-06)

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTHS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

E CAMPBELL STREET PIPE CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	23-Oct-2025
Scale	1" = 20'
Sheet	DR2-202

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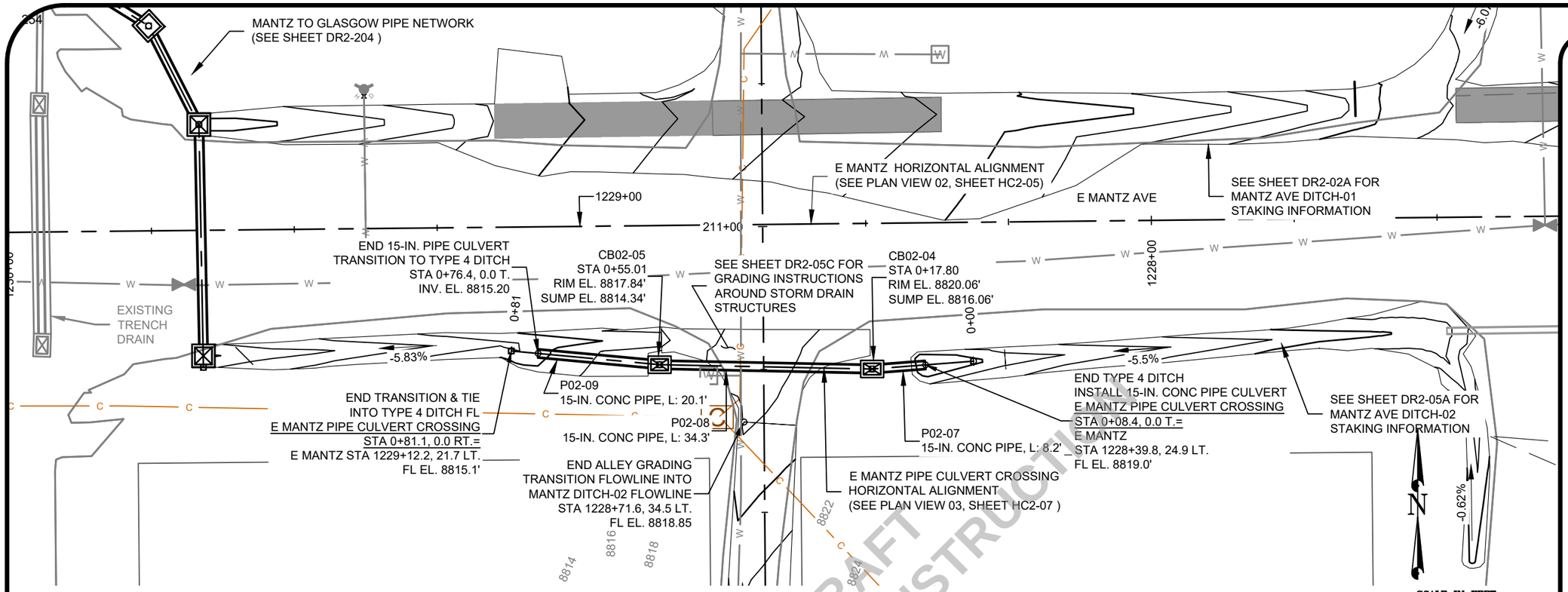
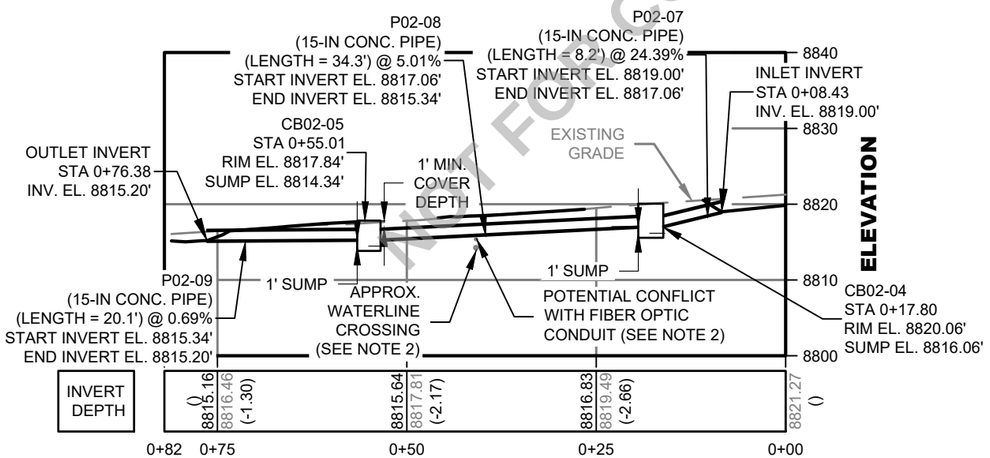


01 **E MANTZ PIPE CULVERT CROSSING**
PLAN VIEW
SCALE - 1" = 20'



PROFILE VIEW OF E MANTZ PIPE CULVERT CROSSING
0+00 TO 0+82.00
(VERTICAL EXAGGERATION = 1:1)

02 **E MANTZ PIPE CULVERT CROSSING**
PROFILE VIEW
SCALE - 1" = 20'

DRAFT
NOT FOR CONSTRUCTION

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTHS.

No.	Revision/Issue	Date

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- PROPERTY BOUNDARY LINE WITHIN TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- W — EXISTING WATERLINES BASED ON SURVEY OF WATER VALVES, WATER METERS, AND AS-BUILT INFORMATION PROVIDED BY THE TOWN OF RICO
- E MANTZ HORIZONTAL ALIGNMENT (SEE SHEET HC2-05)
- E MANTZ PIPE CULVERT CROSSING HORIZONTAL ALIGNMENT (SEE PLAN VIEW 03, SHEET HC2-07)

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

E MANTZ PIPE CULVERT CROSSING

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR2-203
Date: 23-Oct-2025	
Scale: 1" = 20'	

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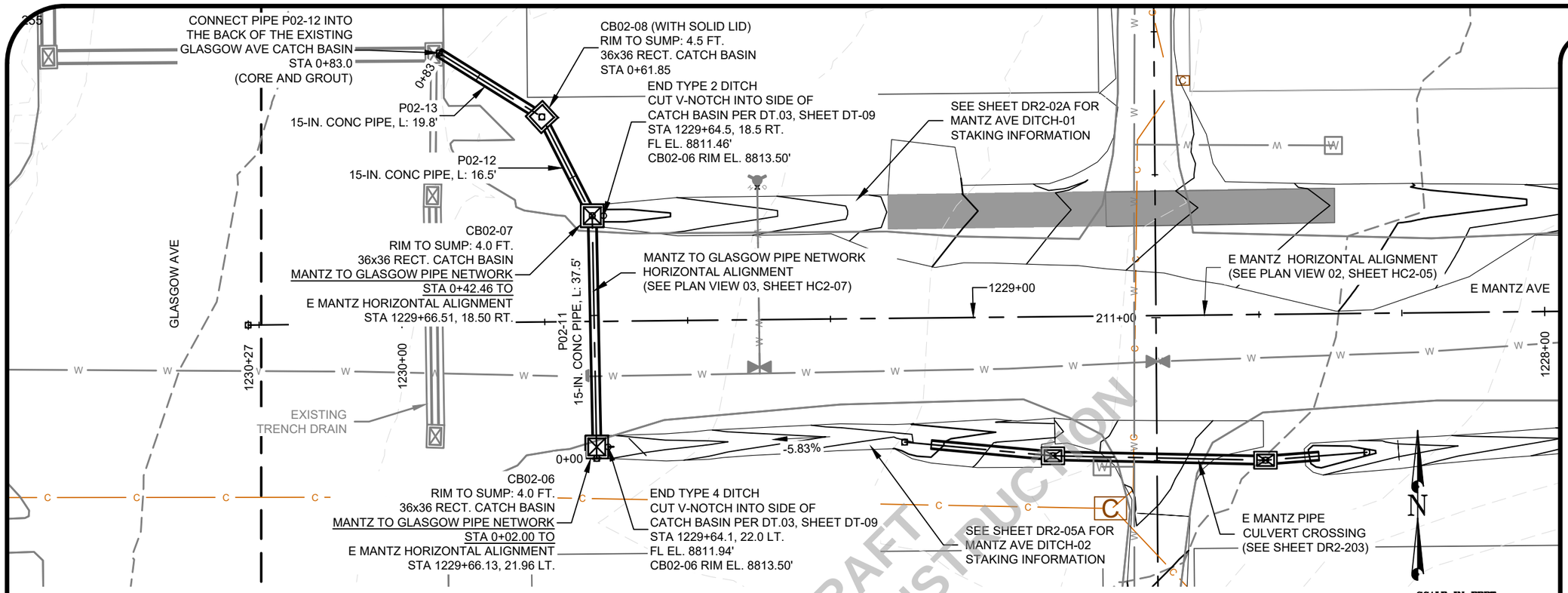
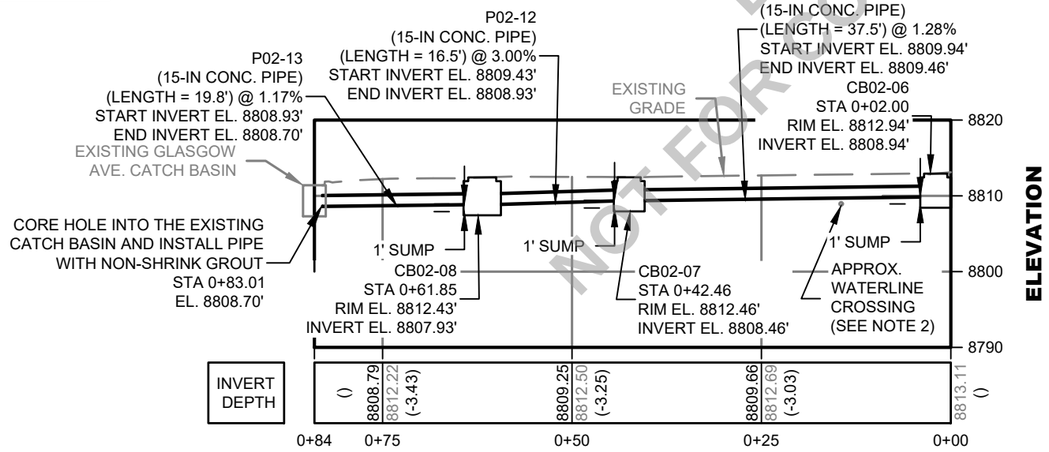


01 MANTZ TO GLASGOW PIPE NETWORK PLAN VIEW

SCALE - 1" = 20'



PROFILE VIEW OF MANTZ TO GLASGOW PIPE NETWORK 0+00 TO 0+84.00 (VERTICAL EXAGGERATION = 1:1)

02 MANTZ TO GLASGOW PIPE NETWORK PROFILE VIEW

SCALE - 1" = 20'

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTHS.

No.	Revision/Issue	Date

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- PROPERTY BOUNDARY LINE WITHIN TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- W — EXISTING WATERLINES BASED ON SURVEY OF WATER VALVES, WATER METERS, AND AS-BUILT INFORMATION PROVIDED BY THE TOWN OF RICO
- E MANTZ HORIZONTAL ALIGNMENT (SEE SHEET HC2-05)
- E MANTZ PIPE CULVERT CROSSING HORIZONTAL ALIGNMENT (SEE PLAN VIEW 03, SHEET HC2-07)

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

MANTZ TO GLASGOW PIPE NETWORK

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	23-Oct-2025
Scale	1" = 20'
Sheet	DR2-204

DRAFT NOT FOR CONSTRUCTION

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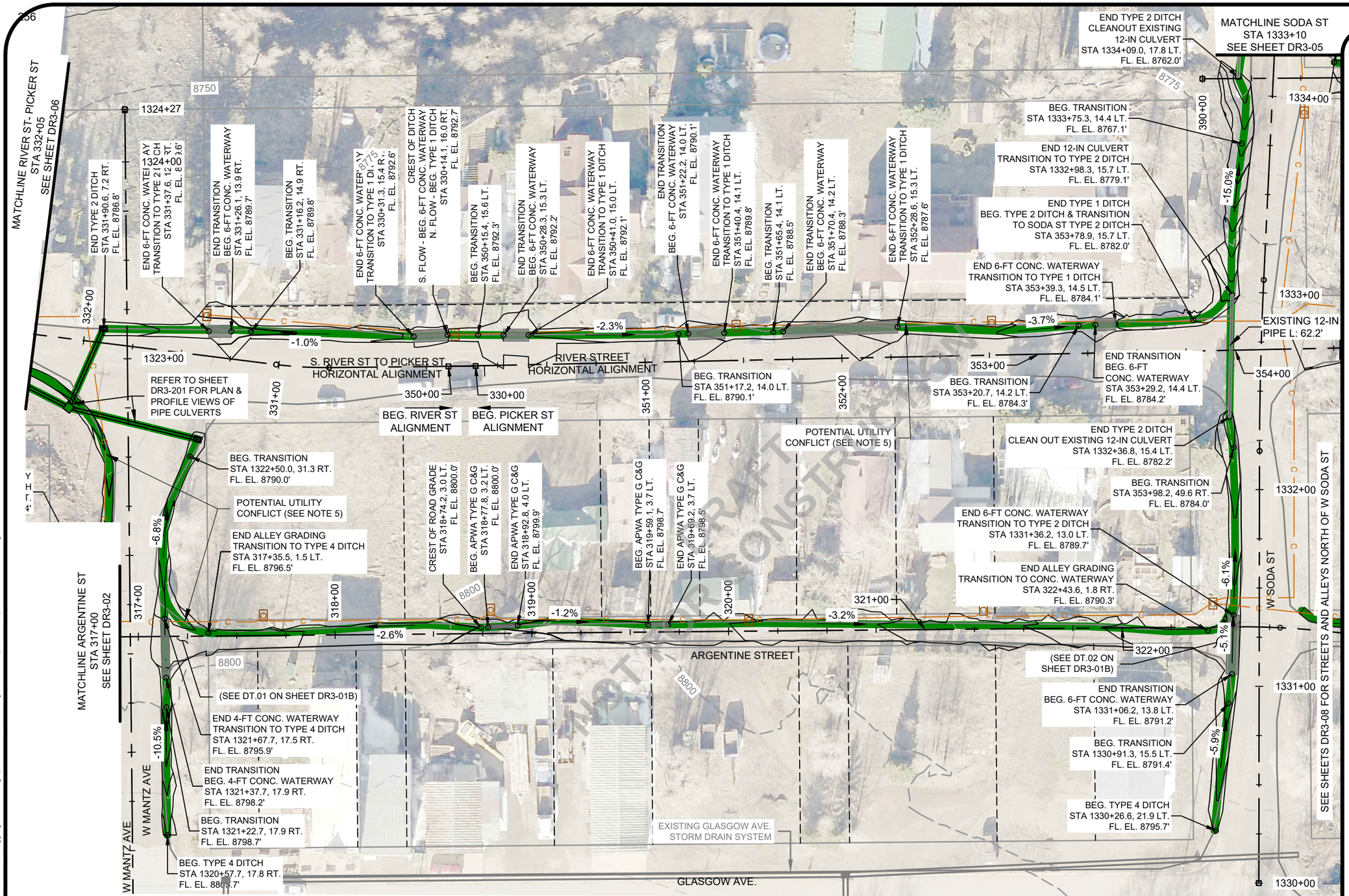

ARGENTINE ST, RIVER ST, MANTZ AVE & SODA ST PLAN VIEW

01 SCALE - 1" = 50'

SCALE IN FEET
0 25 50

N.T.S.

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- C — C EXST. FIBER COMMUNICATION LINE
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

W SODA ST HORIZONTAL ALIGNMENT (SEE SHEET HC3-06)
ARGENTINE ST HORIZONTAL ALIGNMENT (SEE SHEET HC3-01)
RIVER ST HORIZONTAL ALIGNMENT (SEE SHEET HC3-02)
S RIVER ST TO PICKER ST HORIZONTAL ALIGNMENT (SEE SHEET HC3-03)
W MANTZ AVE HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SEE SHEET HC3-07)

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5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE CONCRETE WATERWAYS AND DITCH. THE CONCRETE WATERWAYS MAY BE SHIFTED ADJACENT TO THE FIBER OPTIC LINES AS APPROVED BY THE TOWN OF RICO.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

ARGENTINE ST, RIVER ST, MANTZ AVE & SODA ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR3-01A
Date: 22-Oct-2025	
Scale: 1" = 50'	

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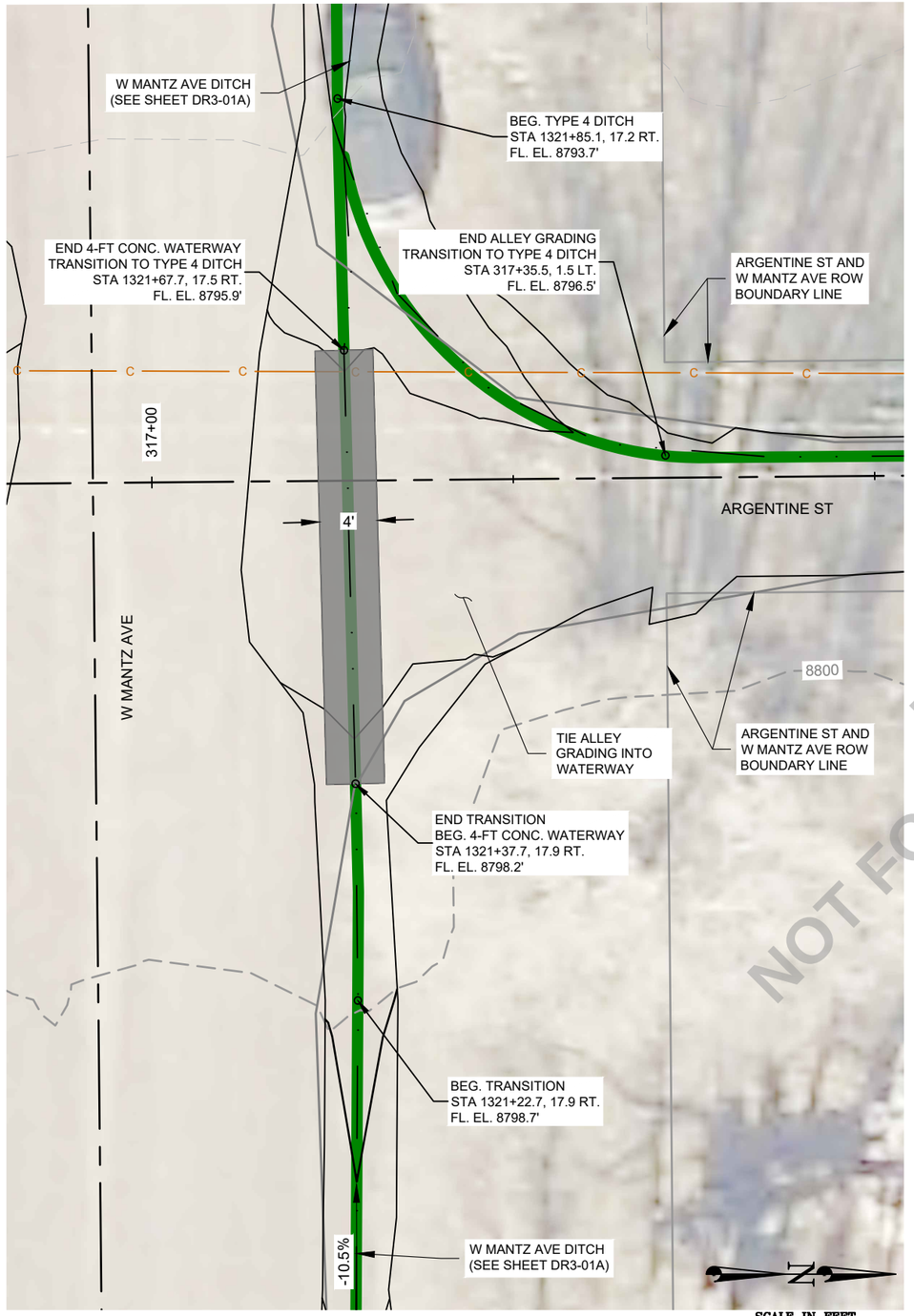
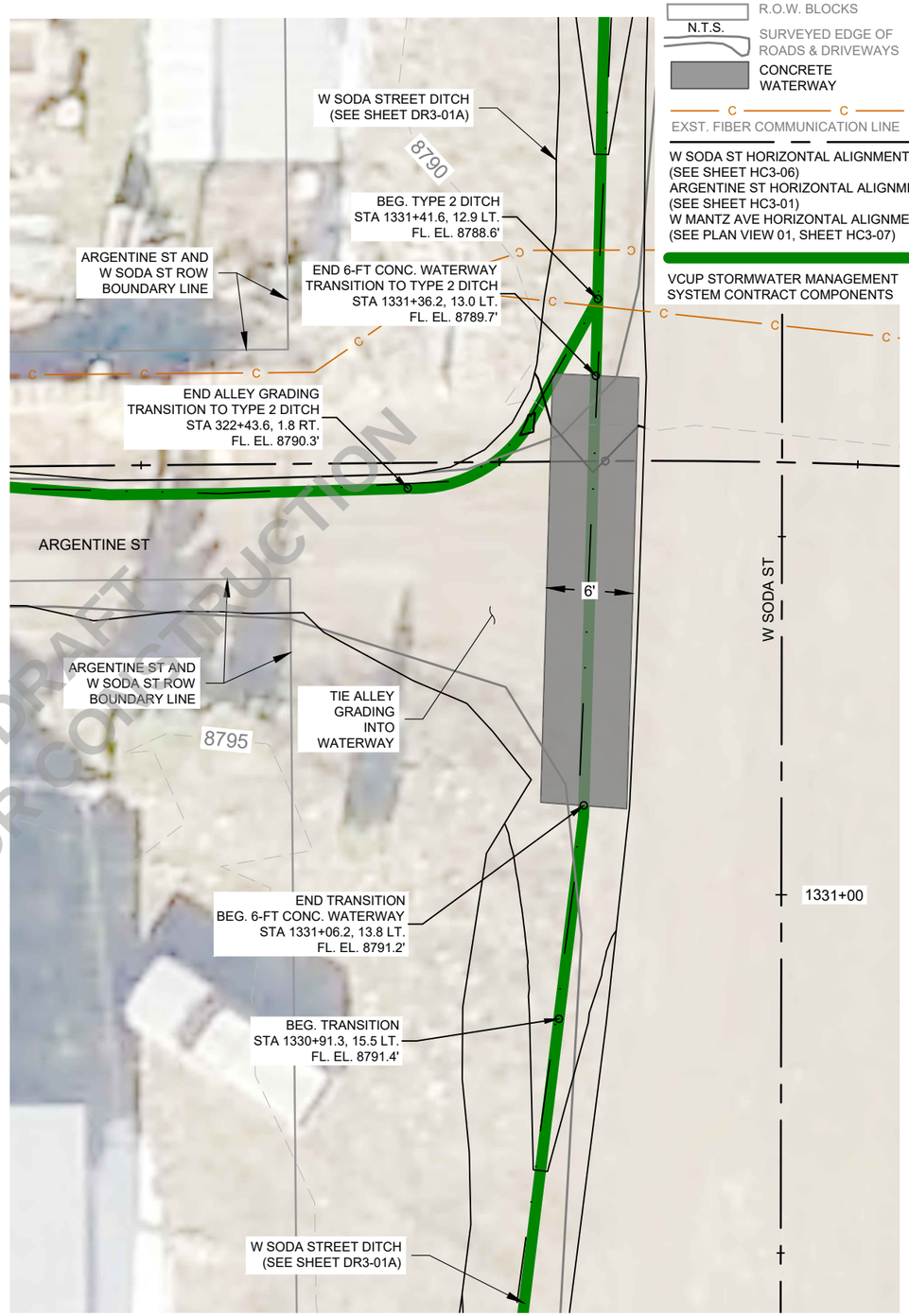


01 ARGENTINE ST DTICH CROSSING AT W MANTZ AVE
PLAN VIEW
SCALE - 1" = 10'



02 ARGENTINE ST DTICH CROSSING AT W SODA ST
PLAN VIEW
SCALE - 1" = 10'

LEGEND
- TOWN OF RICO R.O.W. BLOCKS
- N.T.S. SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- EXST. FIBER COMMUNICATION LINE
- W SODA ST HORIZONTAL ALIGNMENT (SEE SHEET HC3-06)
- ARGENTINE ST HORIZONTAL ALIGNMENT (SEE SHEET HC3-01)
- W MANTZ AVE HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC3-07)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

ARGENTINE ST DTICH CROSSING

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR3-01B
Date: 22-Oct-2025	
Scale: 1" = 10'	

DRAFT NOT FOR CONSTRUCTION

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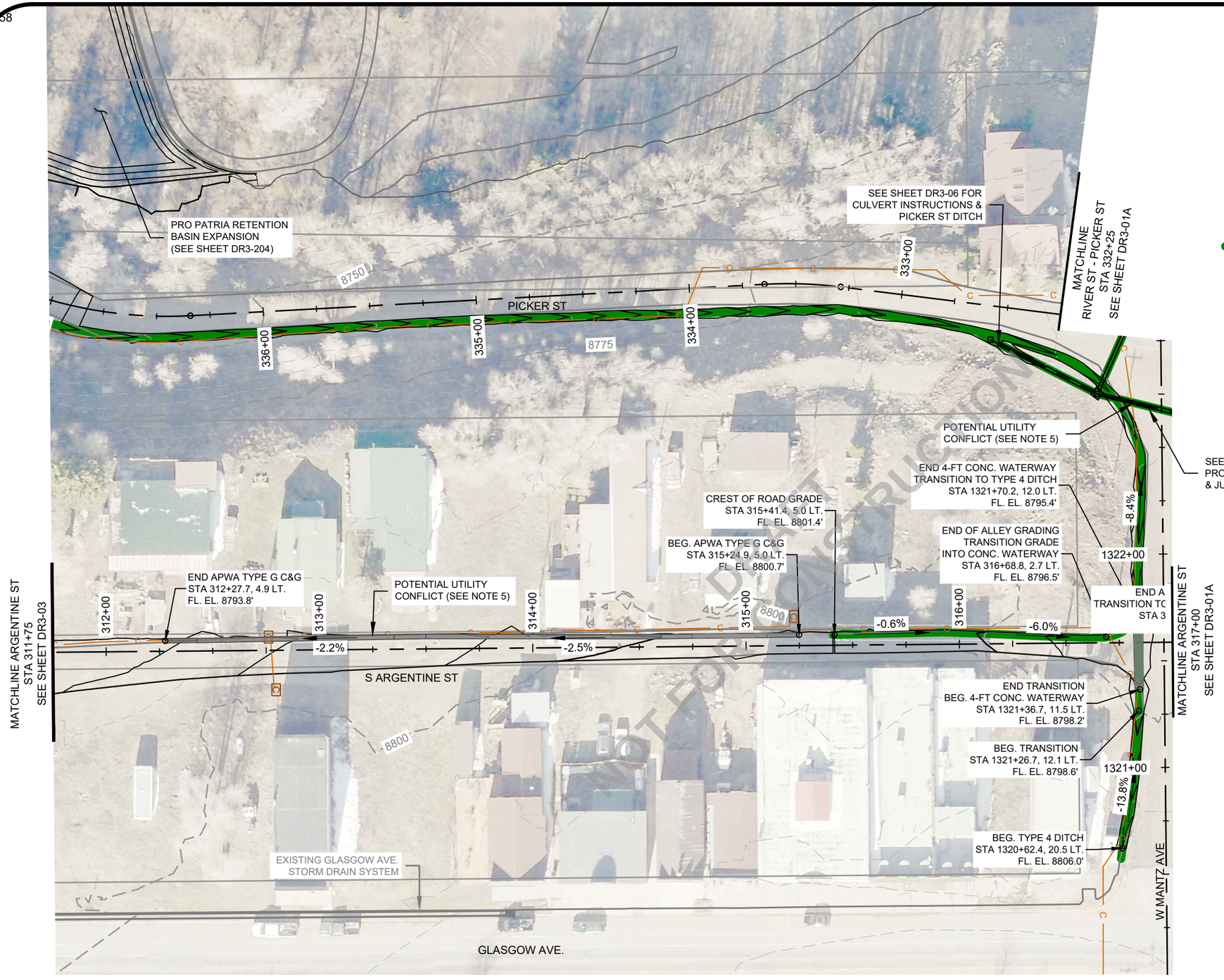

01 **MANTZ AVE TO PICKER ST & ARGENTINE ALLEY PLAN VIEW**
SCALE - 1" = 50'

N

SCALE IN FEET
0 25 50

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- EXST. FIBER COMMUNICATION LINE
- ARGENTINE ST HORIZONTAL ALIGNMENT (SEE PLAN VIEW 02, SHEET HC3-01)
- W MANTZ HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 01, SHEET HC3-07)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

General Notes

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2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
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4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE ROADSIDE DITCH, PIPE, CURB, AND GUTTER.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

MANTZ AVE TO PICKER ST & ARGENTINE ALLEY

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 50'
Sheet	DR3-02

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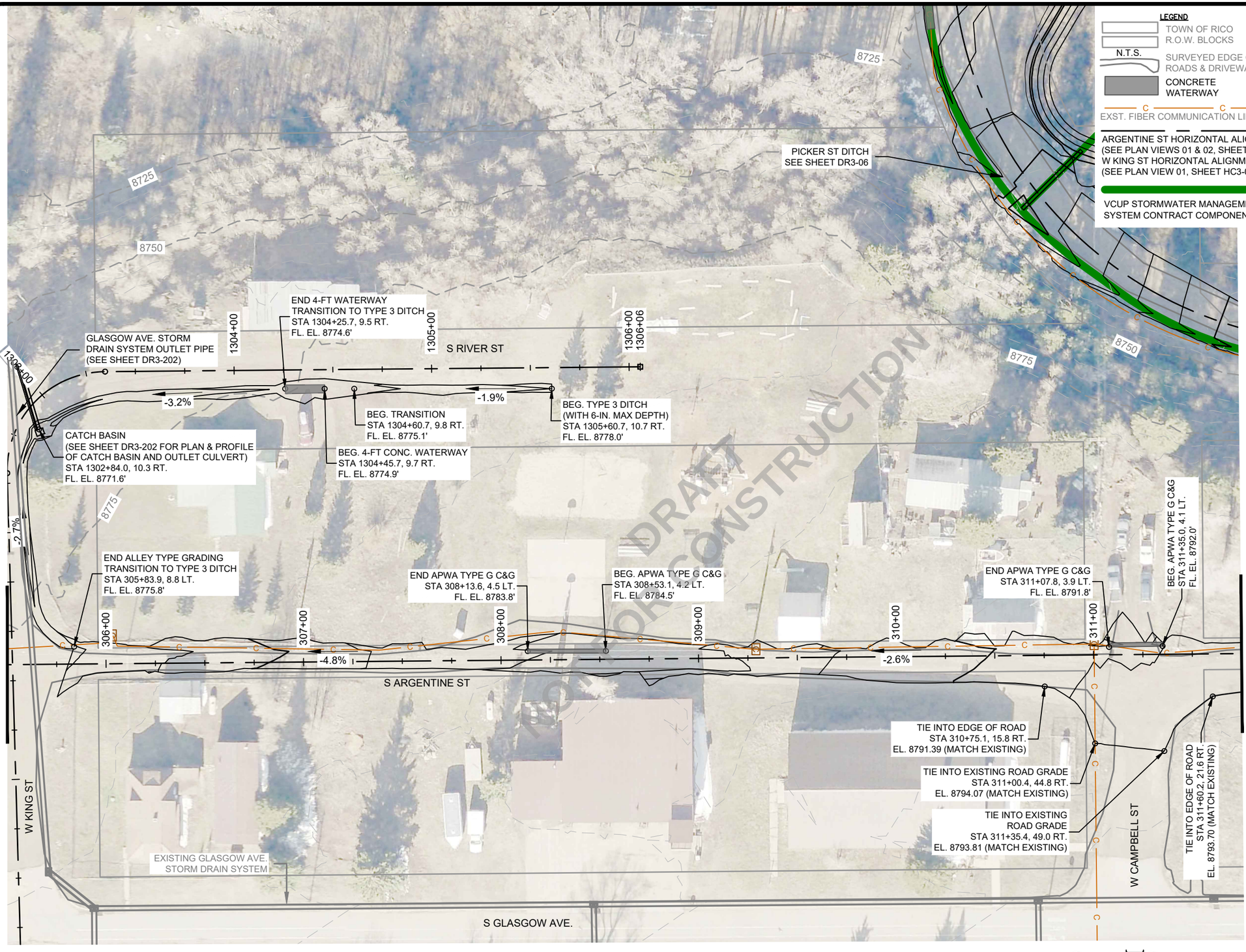

01 **ARGENTINE ALLEY TO KING ST PLAN VIEW**
SCALE - 1" = 50'

SCALE IN FEET
0 25 50

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

ARGENTINE ALLEY TO KING ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR3-03
Date: 22-Oct-2025	
Scale: 1" = 50'	

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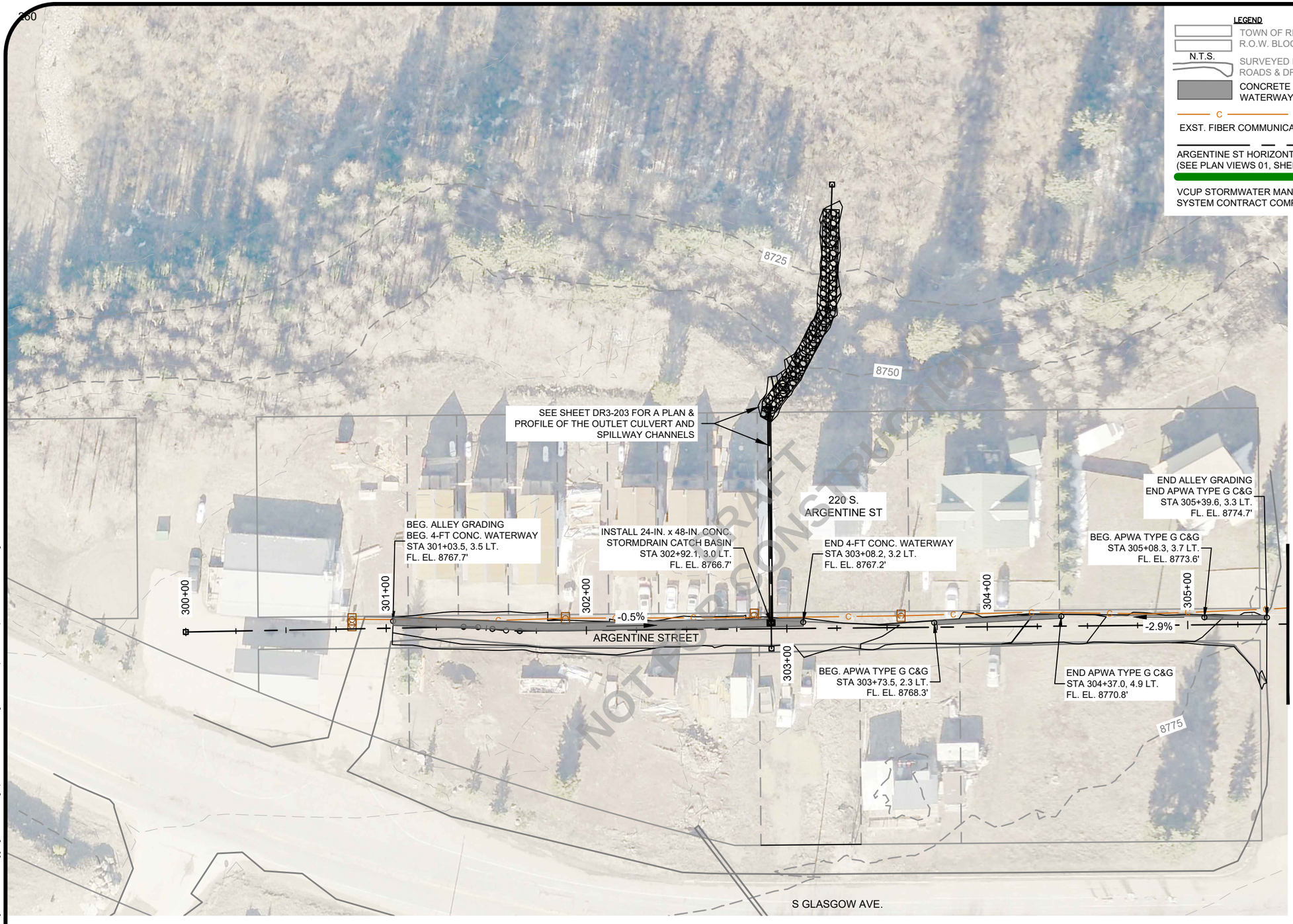

01 ARGENTINE ALLEY TO OUTLET CULVERT PLAN VIEW
SCALE - 1" = 50'

SCALE IN FEET
0 25 50

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
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No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

ARGENTINE ALLEY TO OUTLET CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR3-04
Date: 22-Oct-2025	
Scale: 1" = 50'	

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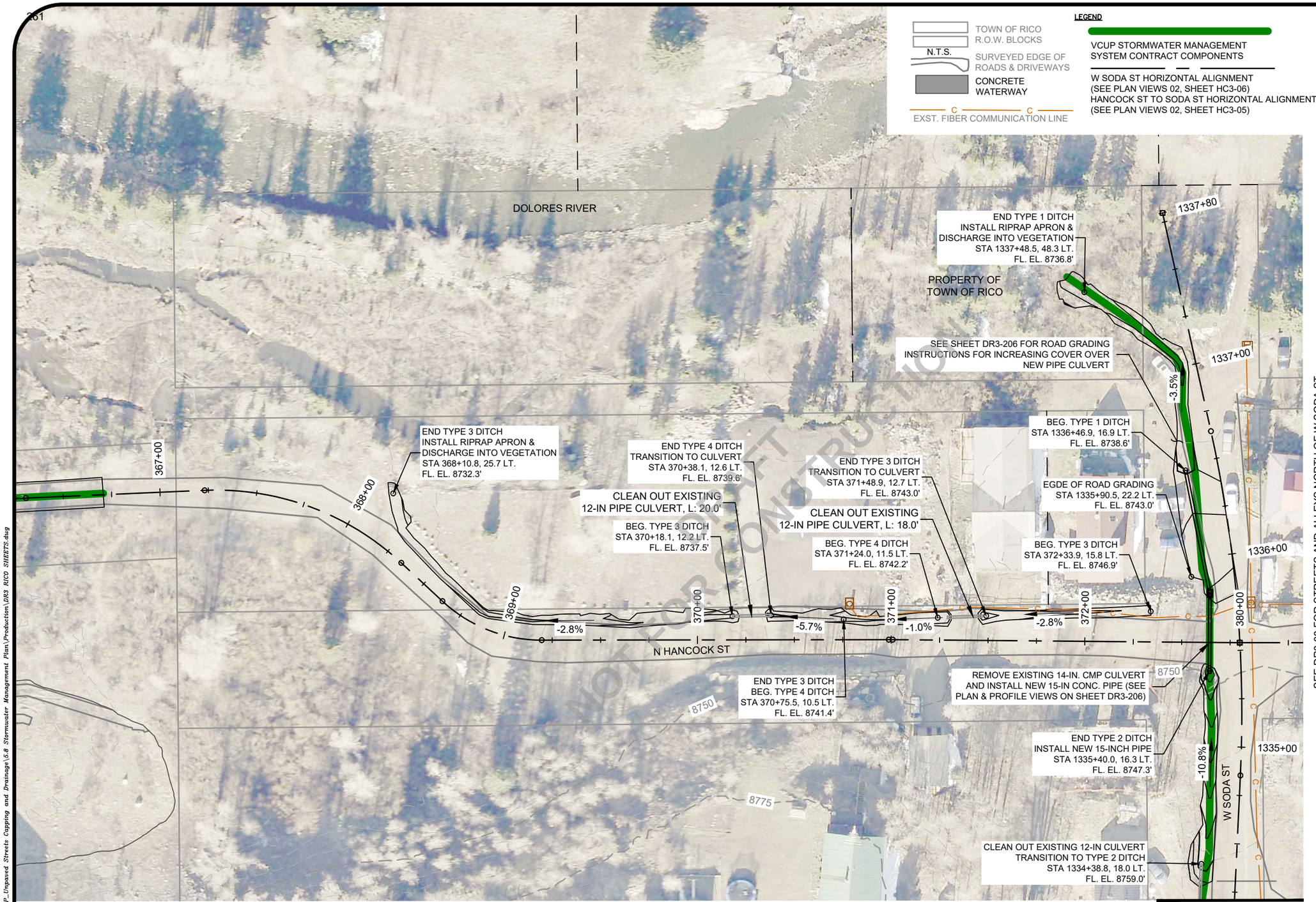

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- EXST. FIBER COMMUNICATION LINE
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS
- W SODA ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02, SHEET HC3-06) HANCOCK ST TO SODA ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02, SHEET HC3-05)

N.T.S.

SEE DR3-08 FOR STREETS AND ALLEYS NORTH OF W SODA ST

MATCHLINE SODA ST
STA 1333+10
SEE SHEET DR3-01A

SCALE IN FEET
0 25 50

01 SODA ST TO OUTLET & HANCOCK ST TO OUTLET PLAN VIEW

SCALE - 1" = 50'

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

SODA ST TO OUTLET & HANCOCK ST TO OUTLET

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR3-05
Date: 22-Oct-2025	
Scale: 1" = 50'	

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MATCHLINE PICKER ST STA 341+75 SEE SHEET DR3-07

END 4-FT WATERWAY TRANSITION TO TYPE 3 DITCH STA 360+05.7, 17.9 LT. FL. EL. 8723.9'

END TRANSITION BEG. 4-FT WATERWAY STA 360+34.2, 9.0 LT. FL. EL. 8724.0'

BEG. TRANSITION STA 360+40.0, 7.2 LT. FL. EL. 8724.1'

341+00

-0.7%

360+00

361+00

-1.0%

362+00

363+00

S HANCOCK ST

BEG. TYPE 3 DITCH STA 363+63.1, 10.8 LT. FL. EL. 8727.9'

364+00

365+00

366+00

SEE SHEET RD3-03 FOR ROAD GRADING

END ROAD GRADING STA 363+33.8, 1.3 LT. CL EL. 8728.24

S PICKER ST STA 340+55.1, 15.8 LT.= S HANCOCK ST STA 360+03.8, 18.4 LT. FL EL. 8723.1'

-0.8%

340+00

END ROAD GRADING STA 340+41.1

S PICKER ST

END 4-FT WATERWAY TRANSITION TO TYPE 3 DITCH STA 340+28.0, 16.4 LT. FL. EL. 8724.2'

-0.8%

ROAD GRADE TRANSITION INTO 4-FT WATERWAY (SEE SHEET RD-03)

END TRANSITION BEG. 4-FT WATERWAY STA 339+20.8, 14.8 LT. FL. EL. 8725.5'

THE PRO PATRIA RETENTION BASIN EXPANSION (SEE SHEET DR3-204)

ON-SITE RETENTION BASIN AND CAP (DESIGNED BY OTHERS) FOR THE TRACT 9 RIVER CORRIDOR (REFERRED AS THE PRO PATRIA SITE)

339+00

BEG. TRANSITION STA 338+97.5, 15.3 LT. FL. EL. 8725.6'

-4.5%

END TYPE 4 DITCH CONSTRUCT STILLING BASIN AROUND OUTLET PIPE CULVERT INLET STA 338+23.9, 11.1 LT. FL. EL. 8728.4'

18 INCH PIPE L: 42.0'

GRADE ROAD TO DRAIN TOWARD TYPE 4 ROADSIDE DITCH (SEE SHEET RD3-02)

BEG. TYPE 4 DITCH TIE INTO TOP OF STILLING BASIN STA 338+32.0, 10.0 LT. FL. EL. 8730.3'

338+00

BEG. ROAD GRADING CONT. TYPE 4 DITCH STA 336+81.2, 6.3 RT.

8750

POTENTIAL UTILITY CONFLICT (SEE NOTE 5)

PICKER ST

8775

337+00

336+00

335+00

-11.4%

4+00

333+00

END PIPE CULVERT S. RIVER ST TO PICKER ST STA 332+52.2, 17.2 LT.= W MANTZ CULVERT STA 1+28.5, 0.0 RT. FL EL. 8782.9'

END TRANSITION CONTINUE TYPE 4 DITCH STA 332+65.5, 12.4 LT. FL. EL. 8782.3'

MATCHLINE RIVER ST - PICKER ST STA 332+25 SEE SHEET DR3-01

-5.8%

TYPE 4 DITCH (SEE SHEET DR3-06 FOR CONTINUTATION INFORMATION) W MANTZ STA 1322+90.1, 41.0 LT.= S. RIVER ST TO PICKER ST STA 332+16.1, 21.7 LT. FL EL. 8784.5'

SEE SHEET DR3-201 FOR PLAN & PROFILE OF THE OUTLET CULVERT & JUNCTION BOX

DRAFT NOT FOR CONSTRUCTION

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- EXST. FIBER COMMUNICATION LINE
- S RIVER ST TO PICKER ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02, SHEET HC3-03)
- HANCOCK ST TO SODA ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 01, SHEET HC3-05)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

N.T.S.

SCALE IN FEET 0 25 50

01 PICKER ST & HANCOCK ST TO PICKER ST PLAN VIEW

SCALE - 1" = 50'

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE ROADSIDE DITCH, AND THE CULVERT PIPE.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

PICKER ST & HANCOCK ST TO PICKER ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO	Sheet	DR3-06
Date	22-Oct-2025		
Scale	1" = 50'		

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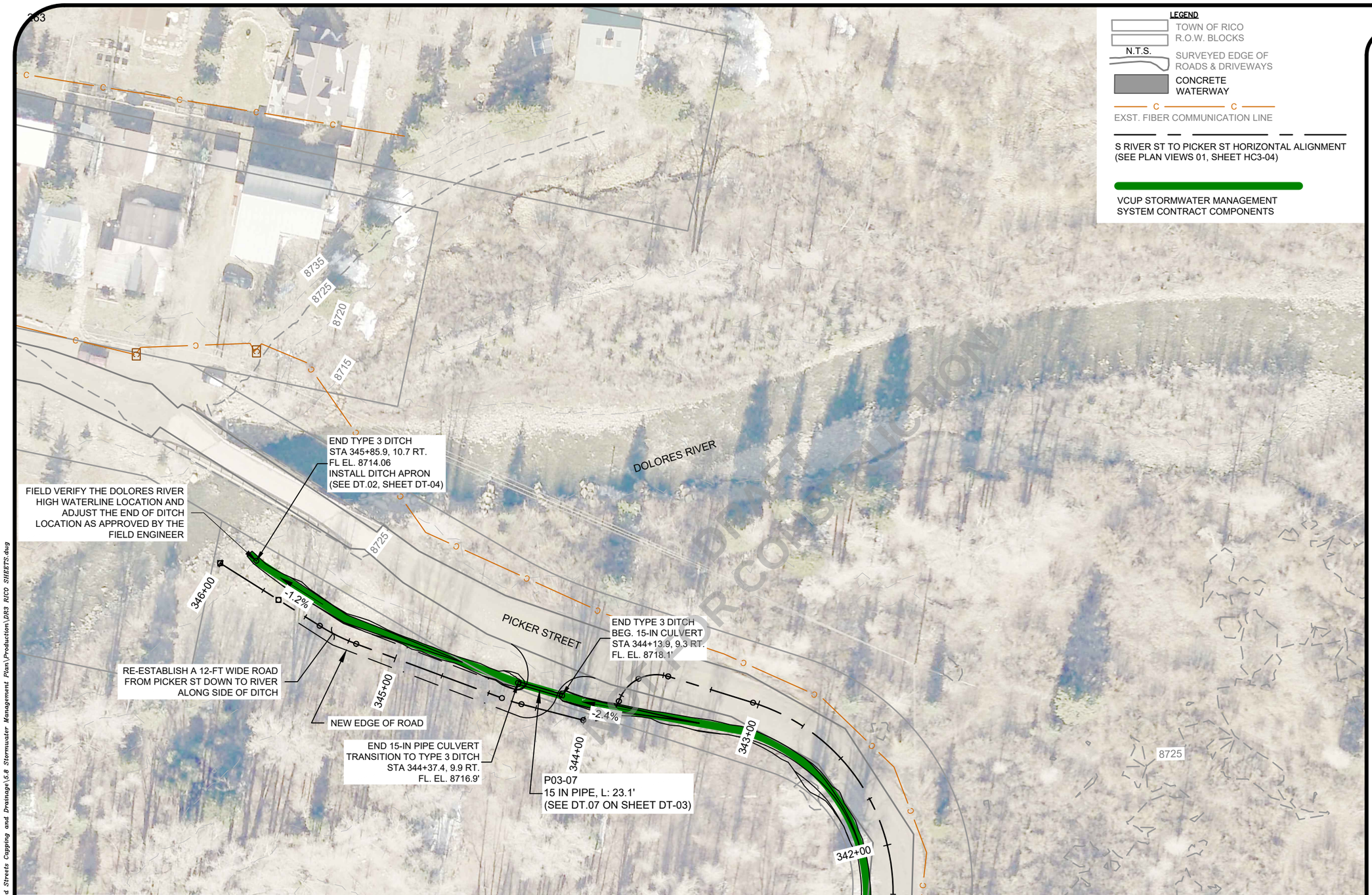

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS (N.T.S.)
- CONCRETE WATERWAY
- EXST. FIBER COMMUNICATION LINE
- S RIVER ST TO PICKER ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 01, SHEET HC3-04)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

General Notes

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No.	Revision/Issue	Date

01 PICKER ST OUTLET TO DOLORES RIVER
PLAN VIEW
SCALE - 1" = 50'

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

PICKER ST OUTLET TO DOLORES RIVER

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 50'
Sheet	DR3-07

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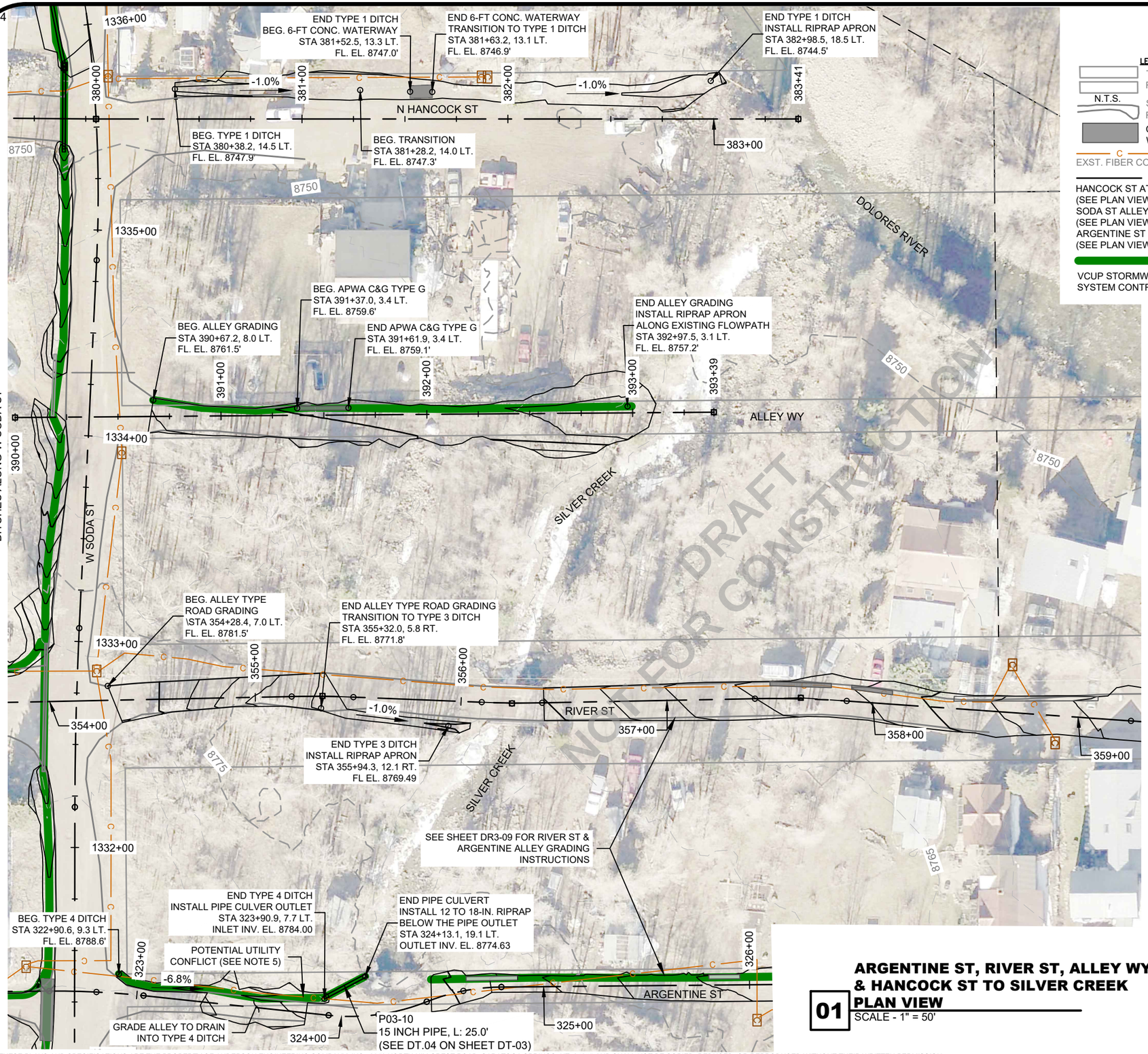

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- N.T.S. SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- C C EXST. FIBER COMMUNICATION LINE
- HANCOCK ST AT SODA ST TO RIVER HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 03, SHEET HC3-05)
  SODA ST ALLEY HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02, SHEET HC3-04)
  ARGENTINE ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 03, SHEET HC3-01)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

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No.	Revision/Issue	Date

01 ARGENTINE ST, RIVER ST, ALLEY WY, & HANCOCK ST TO SILVER CREEK PLAN VIEW
SCALE - 1" = 50'

SCALE IN FEET
0 25 50

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)
ARGENTINE ST, RIVER ST, ALLEY WY, & HANCOCK ST TO SILVER CREEK
RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO	Sheet	DR3-08
Date	22-Oct-2025		
Scale	1" = 50'		

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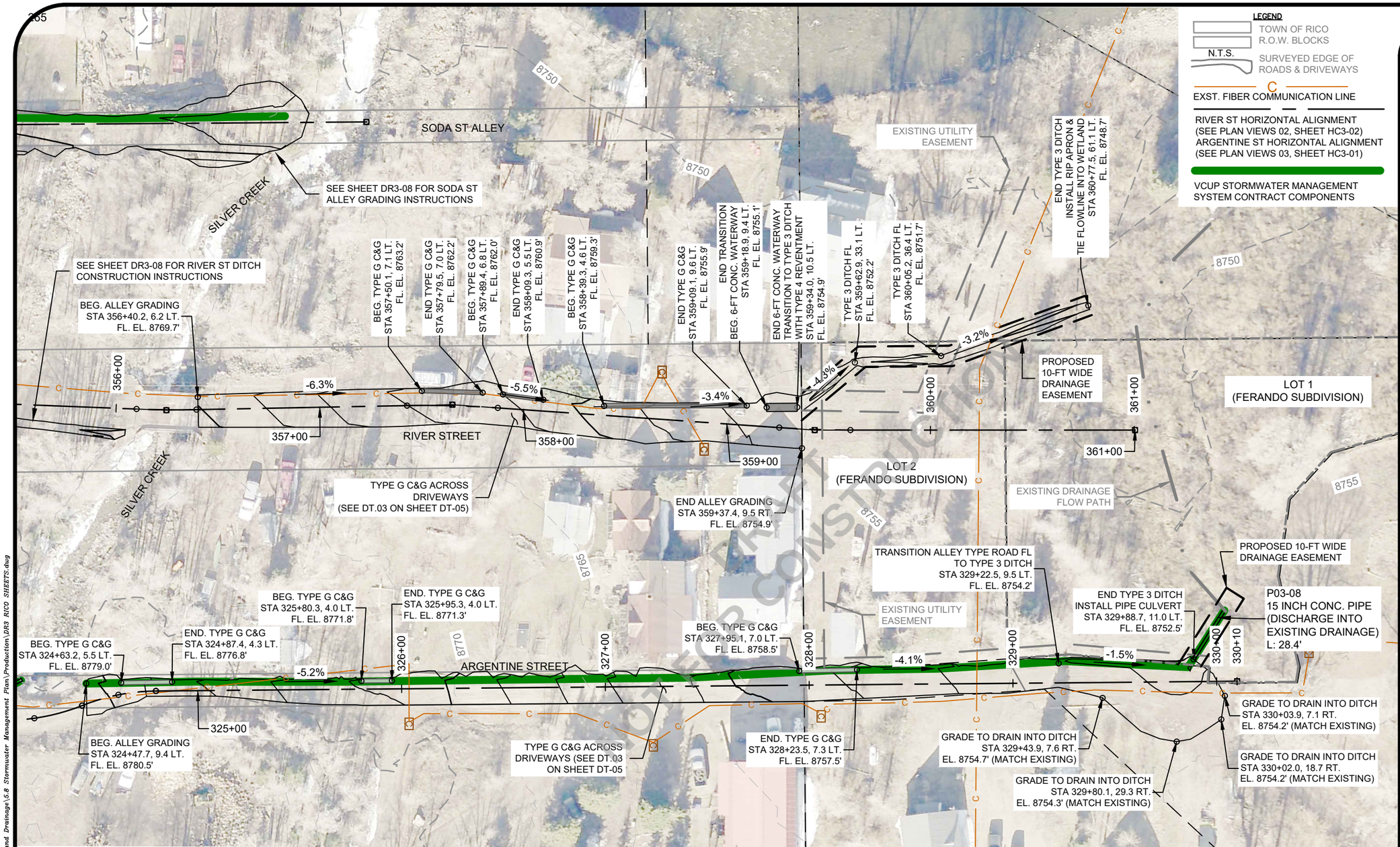

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- N.T.S.
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- EXST. FIBER COMMUNICATION LINE
- RIVER ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02, SHEET HC3-02) ARGENTINE ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 03, SHEET HC3-01)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
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No.	Revision/Issue	Date

ARGENTINE ALLEY & RIVER STREET NORTH OF SILVER CREEK

01 PLAN VIEW

SCALE - 1" = 50'

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

ARGENTINE ALLEY & RIVER STREET NORTH OF SILVER CREEK

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 50'
Sheet	DR3-09

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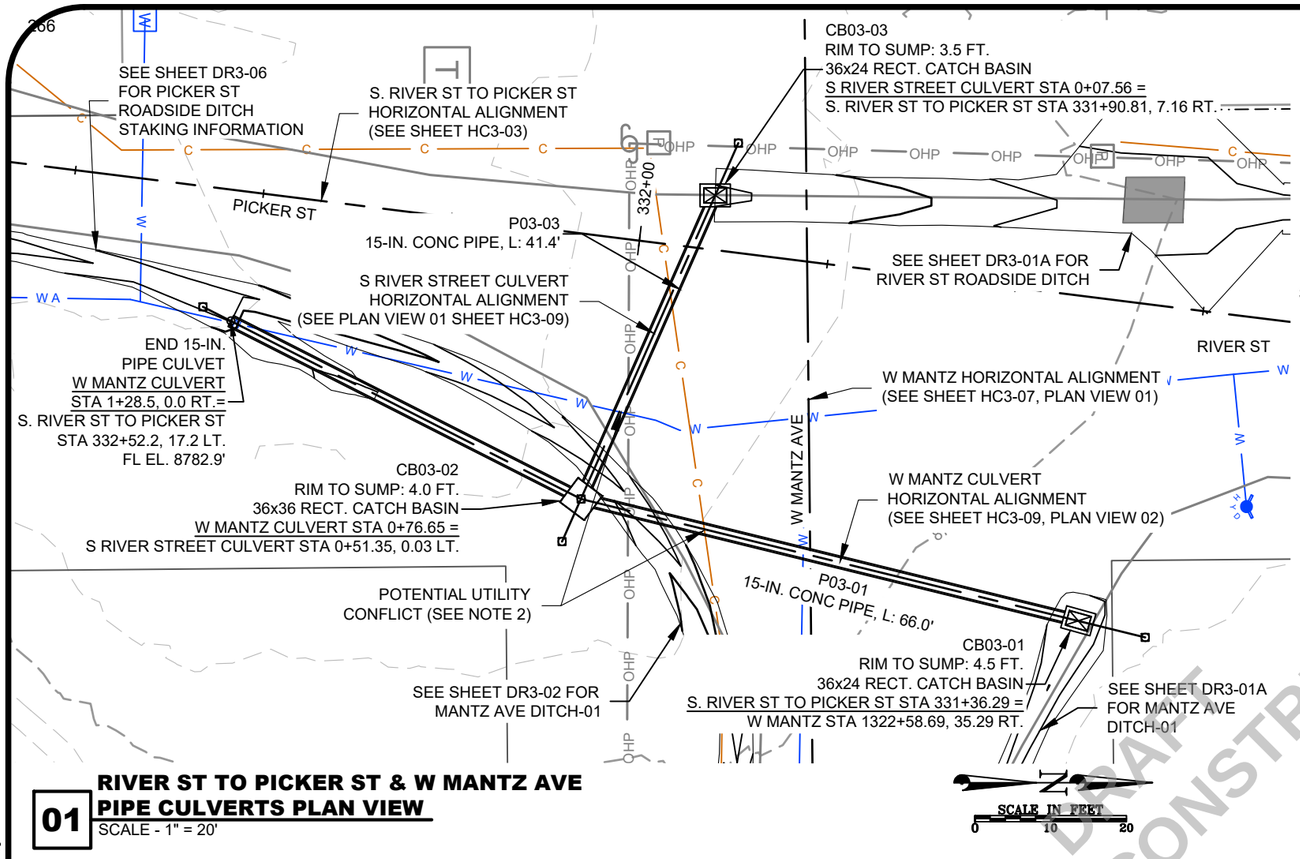
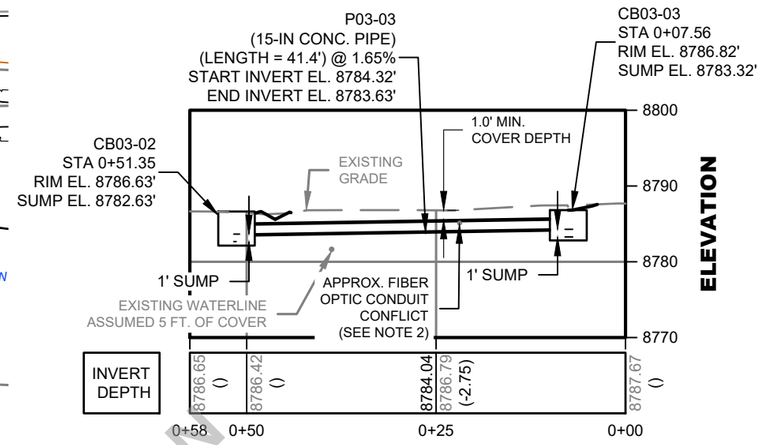


01 RIVER ST TO PICKER ST & W MANTZ AVE PIPE CULVERTS PLAN VIEW

SCALE - 1" = 20'

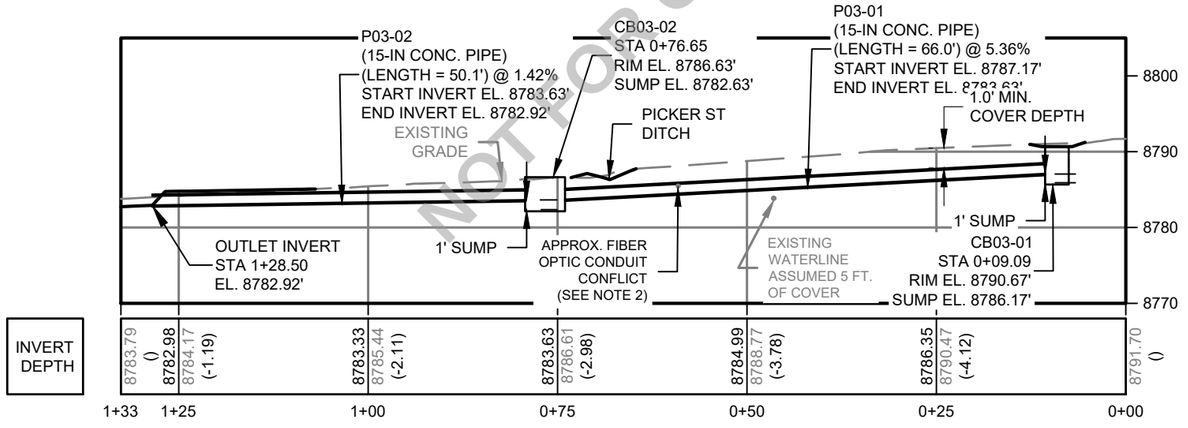


STATION

PROFILE VIEW OF S RIVER STREET CULVERT 0+00 TO 0+57.51 (VERTICAL EXAGGERATION = 1:1)

03 S RIVER ST PIPE CULVERT PROFILE VIEW

SCALE - 1" = 20'



STATION

PROFILE VIEW OF W MANTZ CULVERT 0+00 TO 1+32.64 (VERTICAL EXAGGERATION = 1:1)

02 W MANTZ AVE TO PICKER ST CULVERT PROFILE VIEW

SCALE - 1" = 20'

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- C — C — EXST. FIBER COMMUNICATION LINE
- W — EXISTING WATERLINES BASED ON SURVEY OF WATER VALVES, WATER METERS, AND AS-BUILT INFORMATION PROVIDED BY THE TOWN OF RICO
- WA — WA — EXISTING WATERLINES LOCATIONS ARE ASSUMED BASED ON SURVEYED LOCATIONS OF WATER METERS AND FOUND WATER VALVES
- OHP — EXISTING OVERHEAD POWER LINES

W MANTZ CULVERT HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 01, SHEET HC3-09)
S RIVER ST CULVERT ST HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 02, SHEET HC3-09)
W MANTZ AVE HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 01, SHEET HC3-07)
S RIVER ST TO PICKER ST HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 01, SHEET HC3-03)

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS.
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTHS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

RIVER ST & MANTZ AVE TO PICKER ST PIPE CULVERTS

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	1" = 20'
Sheet	DR3-201

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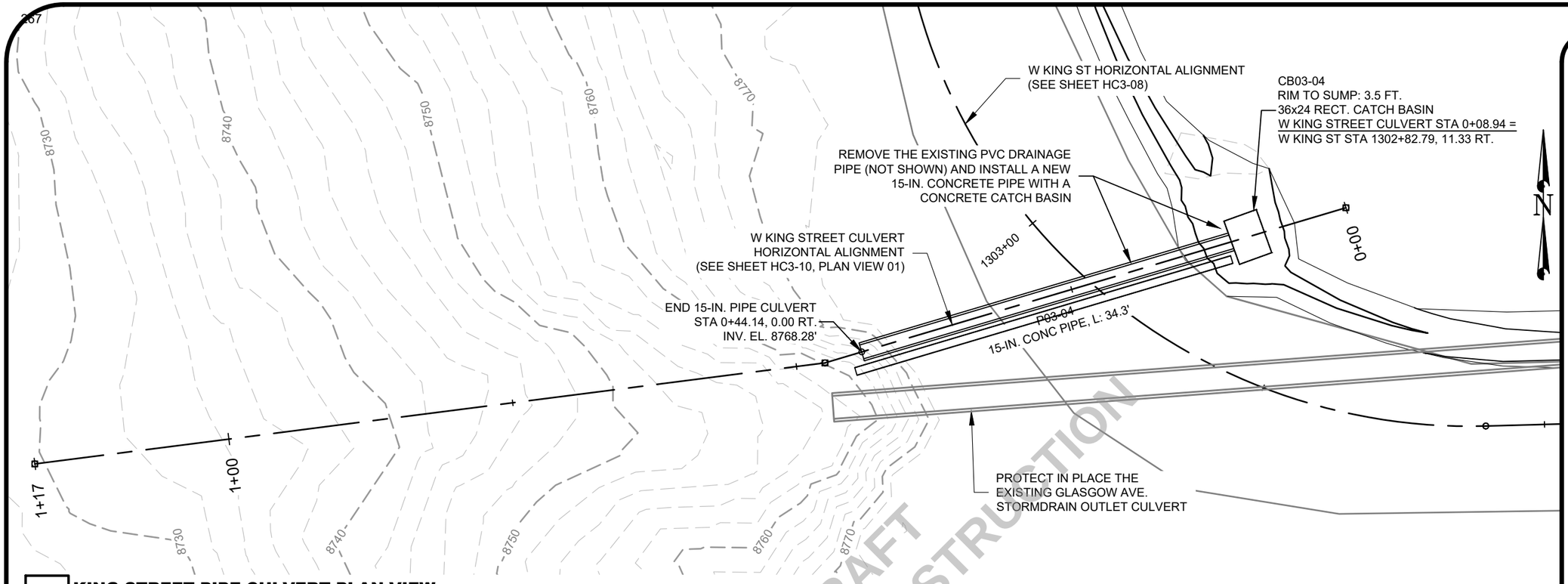
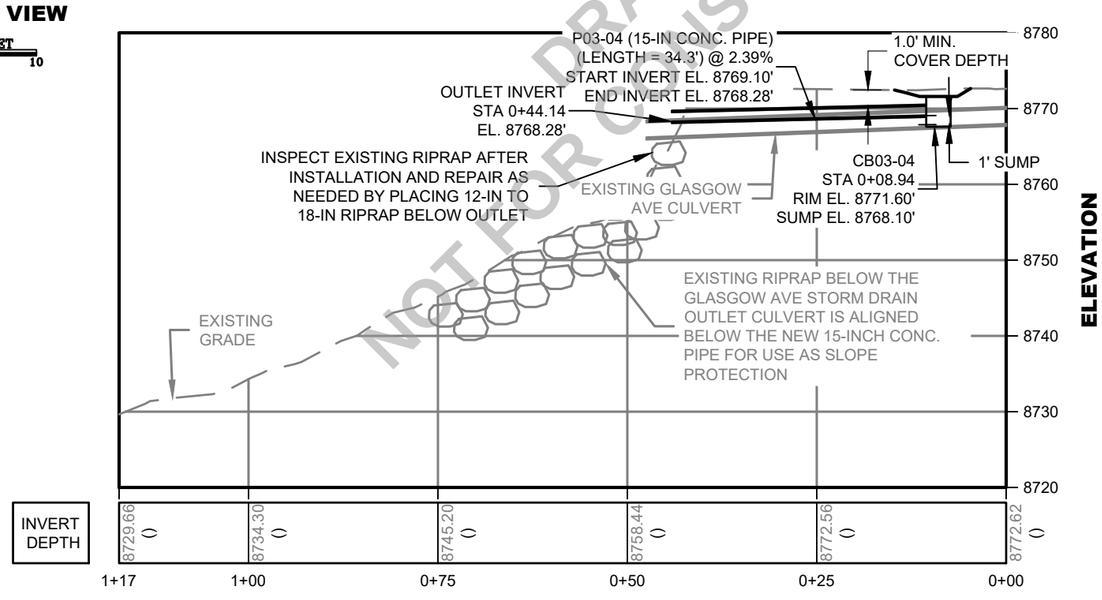
T:\BP--Rico VCUP_Unpaved Streets Capping and Drainage\6.0 Stormwater Management Plan\Production\DR3--2 SHEETS.dwg



01 KING STREET PIPE CULVERT PLAN VIEW

SCALE - 1" = 10'

SCALE IN FEET
0 5 10



PROFILE VIEW OF W KING STREET CULVERT
0+00 TO 1+17.09
(VERTICAL EXAGGERATION = 1:1)

02 KING STREET PIPE CULVERT PROFILE VIEW

SCALE - 1" = 20'

SCALE IN FEET
0 10 20

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS.

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- W KING STREET CULVERT HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC3-10)

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

KING STREET PIPE CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	AS SHOWN
Sheet	DR3-202

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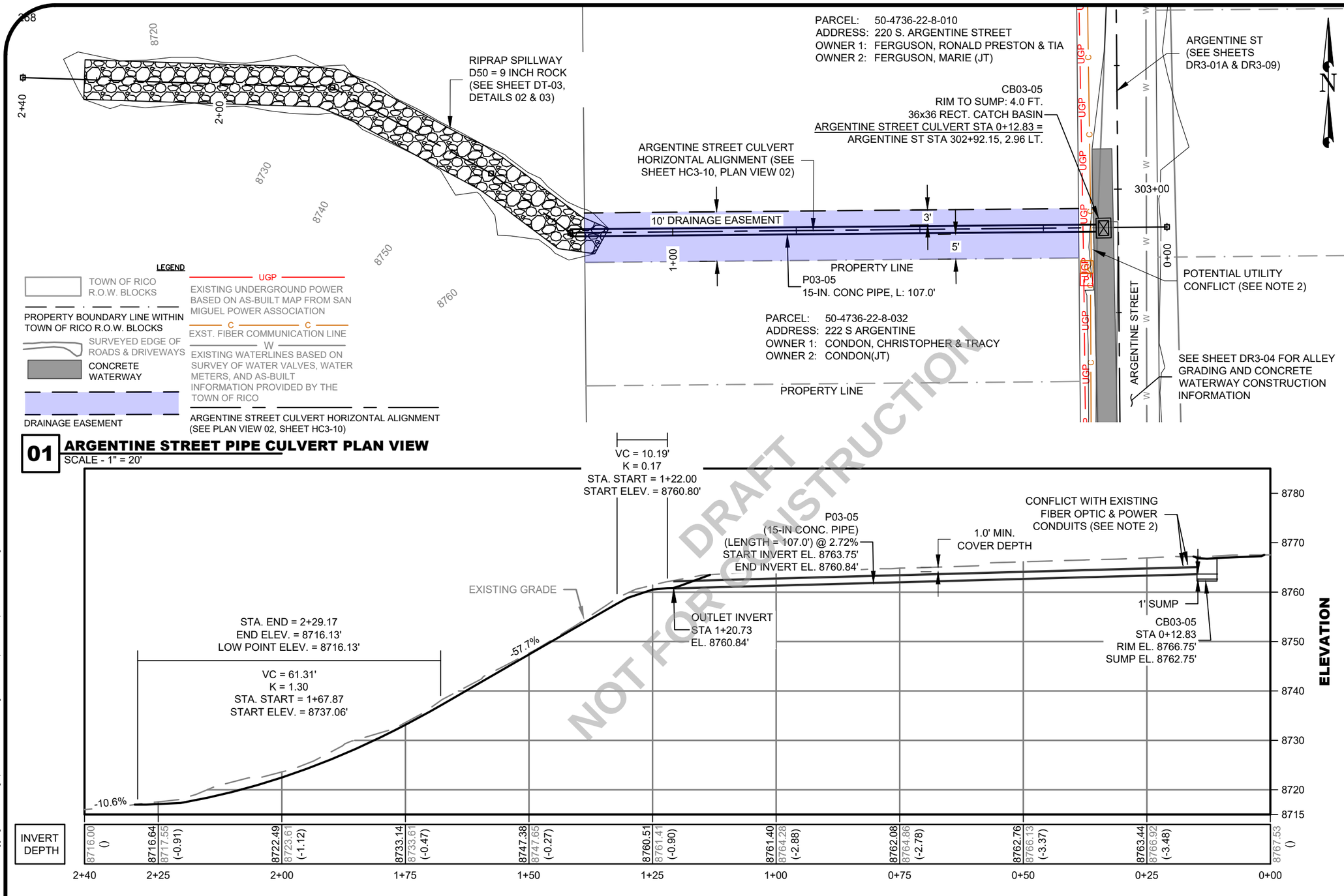

01 **ARGENTINE STREET PIPE CULVERT PLAN VIEW**
SCALE - 1" = 20'

02 **ARGENTINE STREET PIPE CULVERT PROFILE VIEW**
SCALE - 1" = 20'
SCALE IN FEET 0 10 20

PROFILE VIEW OF ARGENTINE STREET CULVERT
0+00 TO 2+39.92
(VERTICAL EXAGGERATION = 1:1)

DRAFT
NOT FOR CONSTRUCTION

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED BASED ON THE SURVEYED LOCATIONS OF EXISTING UTILITY STRUCTURES. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF UTILITIES.
   2.1. THE DEPTH TO SUMP FROM THE RIM OF CB03-05 MAY BE INCREASED AND THE CULVERT DEPTH MAY BE LOWERED TO GO UNDER THE UNDERGROUND POWER AND FIBER OPTIC COMMUNICATION LINES AS DIRECTED BY THE FIELD ENGINEER.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

ARGENTINE STREET PIPE
CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR3-203
Date: 22-Oct-2025	
Scale: 1" = 20'	

T:\BP--Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\DR3--2 SHEETS.dwg

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340+00

REFER TO SHEET DR3-06 FOR PICKER ST. ROADSIDE DITCH AND CONC, TO CONC. WATERWAY INFORMATION

R99'

339+00

TIE EMBANKED SECTION OF BASIN PERIMETER INTO CUT SLOPE
STA 338+45.7, 22.4 RT.
EL. 8728.00'

P03-06
18 INCH PIPE @ 2.16%
START INVERT EL. 8728.41'
END INVERT EL. 8727.50'
(INSTALL WITH 1-FT MIN. COVER)

INSTALL 18-IN PIPE CULVERT
PICKER ST MID OUTLET CULVERT STA 10+67.6, 0.0 RT.=
S. RIVER ST TO PICKER ST STA 338+23.9, 11.1 LT.
(SEE PROFILE VIEW 02, THIS SHEET)

PRO PATRIA EXPANSION RETENTION BASIN WAS DESIGNED TO RETAIN A 100-YEAR, 24-HOUR STORM EVENT WITH 1.1 FT OF FREEBOARD

RIM EL. 8728.0'
BASIN INVERT EL. 8724.5'
(SEE SHEET DR3-205 FOR STAKING INFORMATION)

ON-SITE RETENTION BASIN AND CAP (DESIGNED BY OTHERS) FOR THE TRACT 9 RIVER CORRIDOR (REFERRED AS THE PRO PATRIA SITE)

11+43

PICKER ST MID OUTLET CULVERT HORIZONTAL ALIGNMENT (SEE SHEET HC3-11, PLAN VIEW 01)

END 18-IN. PIPE CULVERT
INSTALL 5-FT WIDE SPILLWAY
EXTENDING 5-FT FROM
THE TOE OF SLOPE
STA 11+09.6, 0.0 RT.
(SEE PROFILE VIEW 02, THIS SHEET)

11+00

338+00

S. RIVER ST TO PICKER ST HORIZONTAL ALIGNMENT (SEE PLAN VIEW 02, SHEET HC3-03)

10+00

8726 8728 8730 8740 8750

OHP dHO W C C W A C

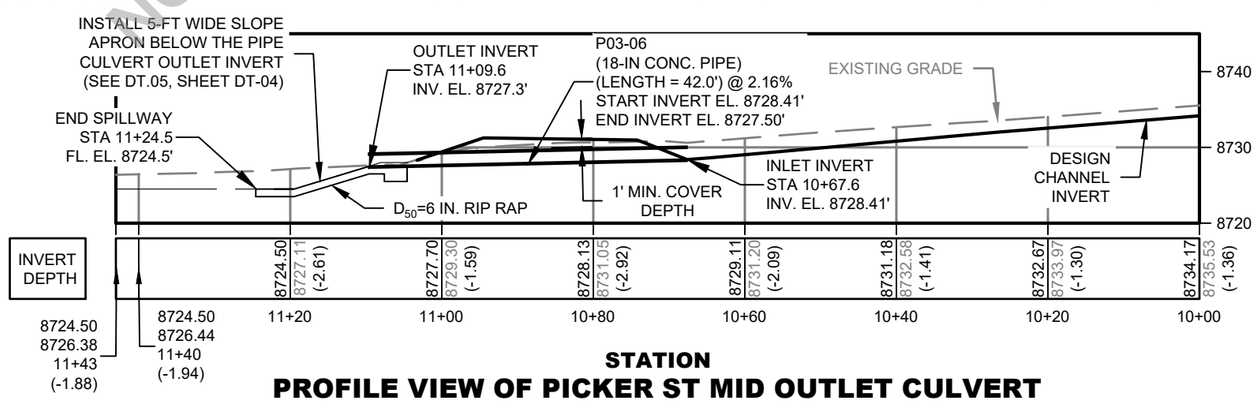
01 PRO PATRIA RETENTION BASIN EXPANSION PLAN VIEW

SCALE - 1" = 30'

SCALE IN FEET
0 15 30

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- OHP — EXISTING OVERHEAD POWER LINES
- C — C — EXST. FIBER COMMUNICATION LINE
- W A — W A — EXISTING WATERLINES LOCATIONS ARE ASSUMED BASED ON SURVEYED LOCATIONS OF WATER METERS AND FOUND WATER VALVES
- S RIVER ST TO PICKER ST HORIZONTAL ALIGNMENT (SEE PLAN VIEW 02, SHEET HC3-03)



STATION

PROFILE VIEW OF PICKER ST MID OUTLET CULVERT 10+00 TO 11+43.00 (VERTICAL EXAGGERATION = 1:1)

02 PICKER ST MID OUTLET CULVERT PROFILE VIEW

SCALE - 1" = 20'

SCALE IN FEET
0 10 20

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED BASED ON THE SURVEYED LOCATIONS OF EXISTING UTILITY STRUCTURES. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF UTILITIES.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

PRO PATRIA RETENTION BASIN EXPANSION

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	22-Oct-2025
Scale	AS SHOWN
Sheet	DR3-204

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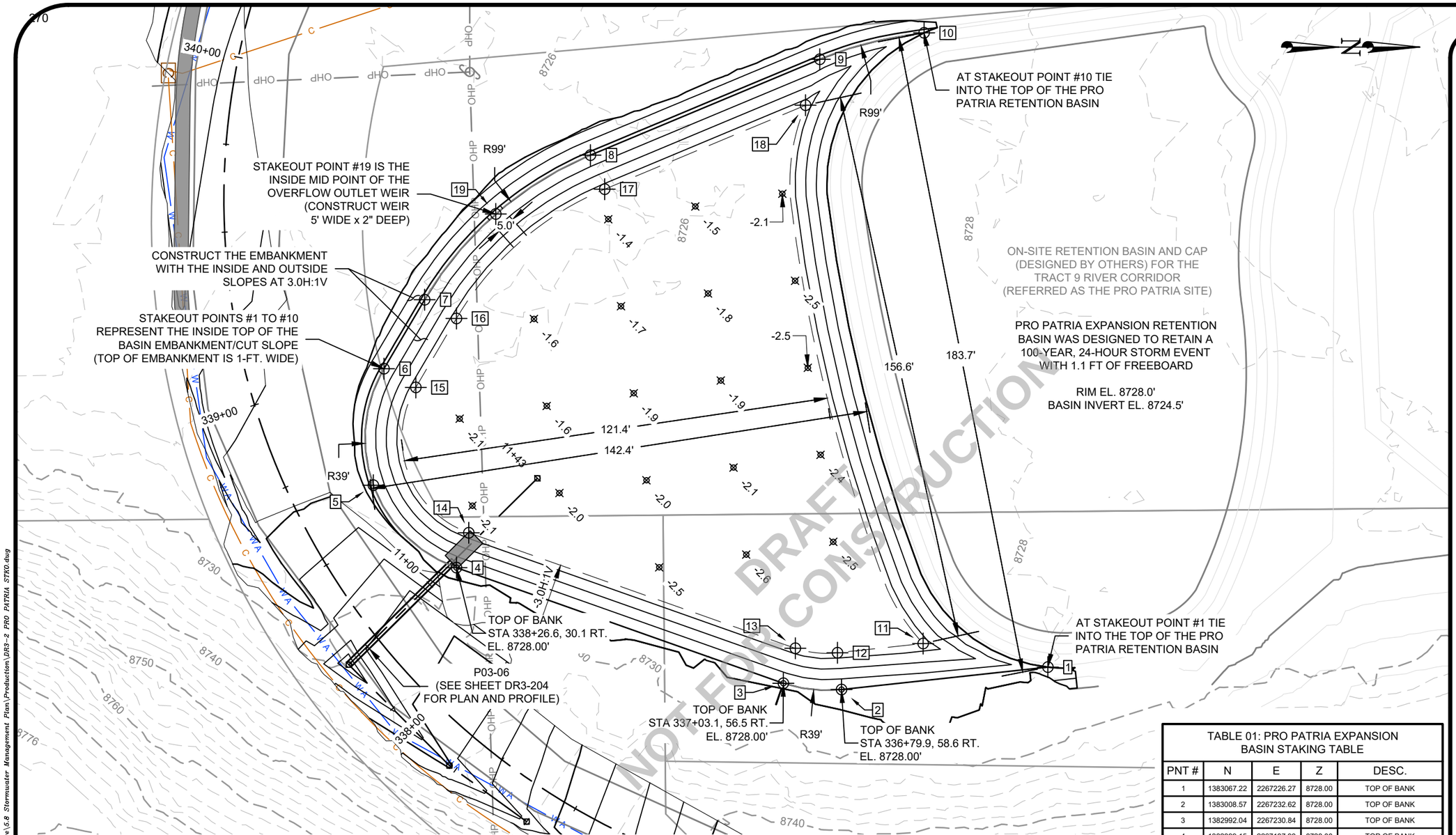

PRO PATRIA RETENTION BASIN STAKING
01 PLAN VIEW

SCALE - 1" = 30'

SCALE IN FEET
0 15 30

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- C — C — EXST. FIBER COMMUNICATION LINE
- W A — W A — EXISTING WATERLINES LOCATIONS ARE ASSUMED BASED ON SURVEYED LOCATIONS OF WATER METERS AND FOUND WATER VALVES
- OHP — EXISTING OVERHEAD POWER LINES

TABLE 01: PRO PATRIA EXPANSION BASIN STAKING TABLE

PNT #	N	E	Z	DESC.
1	1383067.22	2267226.27	8728.00	TOP OF BANK
2	1383008.57	2267232.62	8728.00	TOP OF BANK
3	1382992.04	2267230.84	8728.00	TOP OF BANK
4	1382899.15	2267197.98	8728.00	TOP OF BANK
5	1382875.52	2267174.56	8728.00	TOP OF BANK
6	1382878.56	2267141.43	8728.00	TOP OF BANK
7	1382890.09	2267121.83	8728.00	TOP OF BANK
8	1382937.22	2267080.73	8728.00	TOP OF BANK
9	1383002.39	2267053.48	8728.00	TOP OF BANK
10	1383032.05	2267045.98	0.00	TOP OF BANK
11	1383031.77	2267219.54	8724.50	BASIN INVERT
12	1383007.44	2267222.18	8724.50	BASIN INVERT
13	1382995.45	2267220.91	8724.50	BASIN INVERT
14	1382902.66	2267188.08	8724.50	BASIN INVERT
15	1382887.60	2267146.75	8724.50	BASIN INVERT
16	1382899.14	2267127.16	8724.50	BASIN INVERT
17	1382941.27	2267090.42	8724.50	BASIN INVERT
18	1382998.36	2267066.55	8724.50	BASIN INVERT
19	1382910.32	2267097.46	8727.83	CENTER OF OUTLET WEIR

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED BASED ON THE SURVEYED LOCATIONS OF EXISTING UTILITY STRUCTURES. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF UTILITIES.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

PRO PATRIA RETENTION BASIN STAKING

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	04-Sep-2025
Scale	AS SHOWN
Sheet	DR3-205

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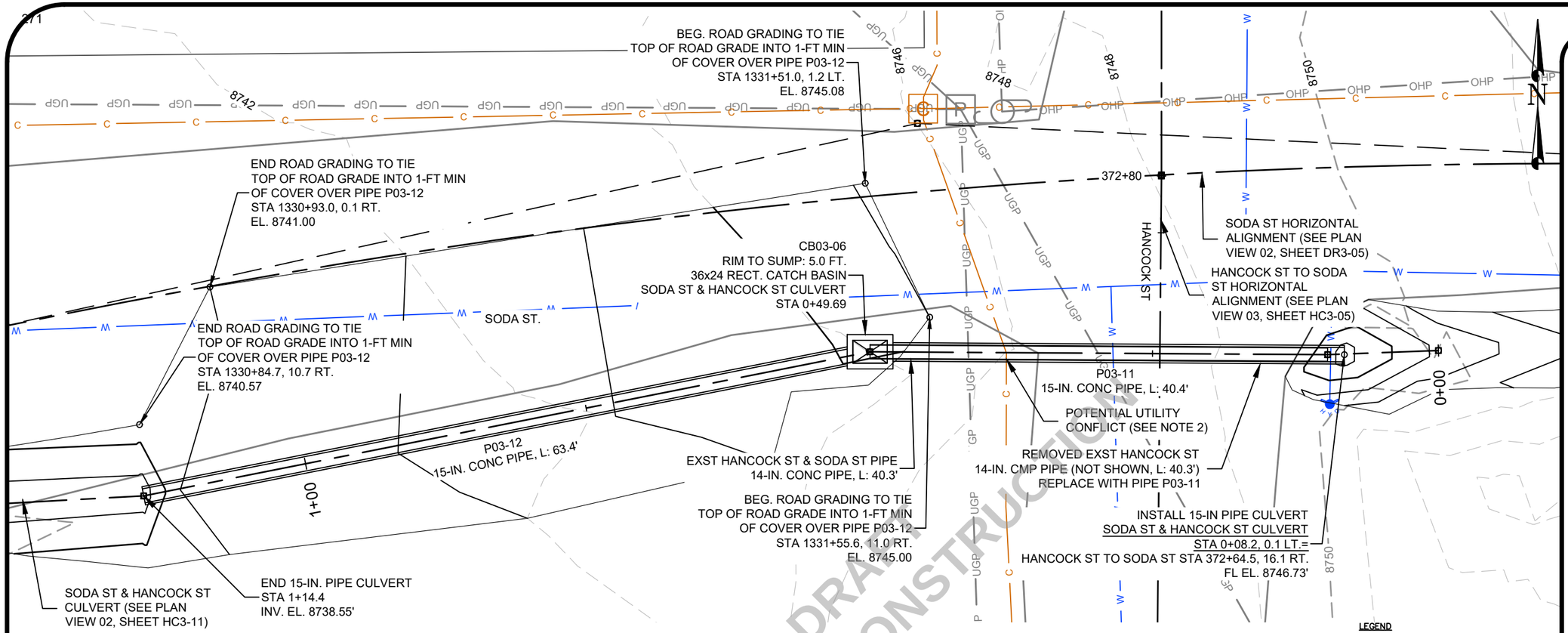
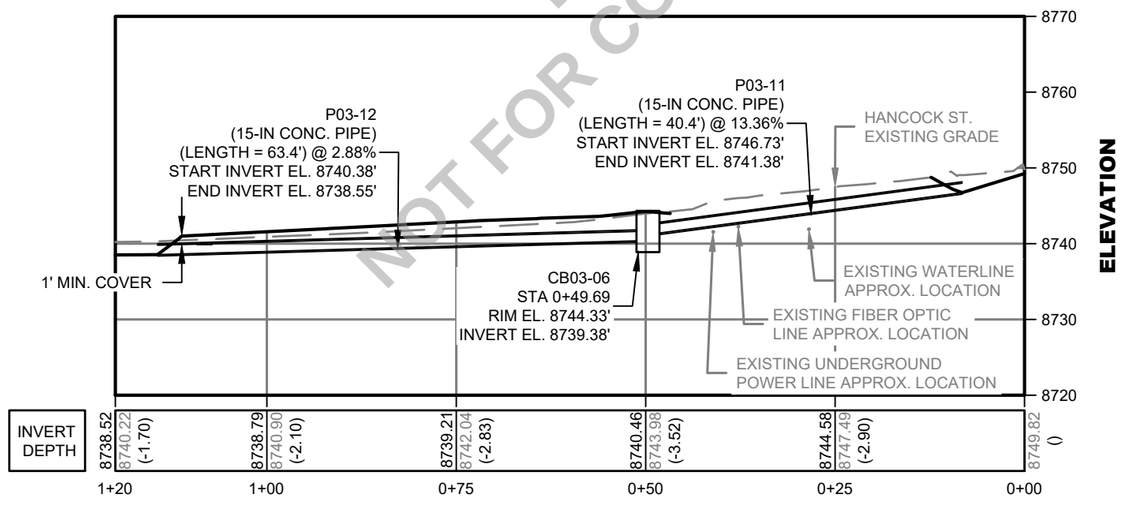


01 SODA ST & HANCOCK ST CULVERT PLAN VIEW

SCALE - 1" = 10'

SCALE IN FEET 0 5 10



PROFILE VIEW OF SODA ST & HANCOCK ST CULVERT 0+00 TO 1+20.00 (VERTICAL EXAGGERATION = 1:1)

02 SODA ST & HANCOCK ST CULVERT PROFILE VIEW

SCALE - 1" = 20'

SCALE IN FEET 0 10 20

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- C C EXST. FIBER COMMUNICATION LINE
- W A W A EXISTING WATERLINES LOCATIONS ARE ASSUMED BASED ON SURVEYED LOCATIONS OF WATER METERS AND FOUND WATER VALVES
- SODA ST & HANCOCK ST HORIZONTAL ALIGNMENT (SEE PLAN VIEW 02, SHEET HC3-11)

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS
2. LOCATIONS OF UTILITIES ARE APPROXIMATED BASED ON THE SURVEYED LOCATIONS OF EXISTING UTILITY STRUCTURES. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF UTILITIES.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

SODA ST & HANCOCK ST CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR3-206
Date: 22-Oct-2025	
Scale: AS SHOWN	

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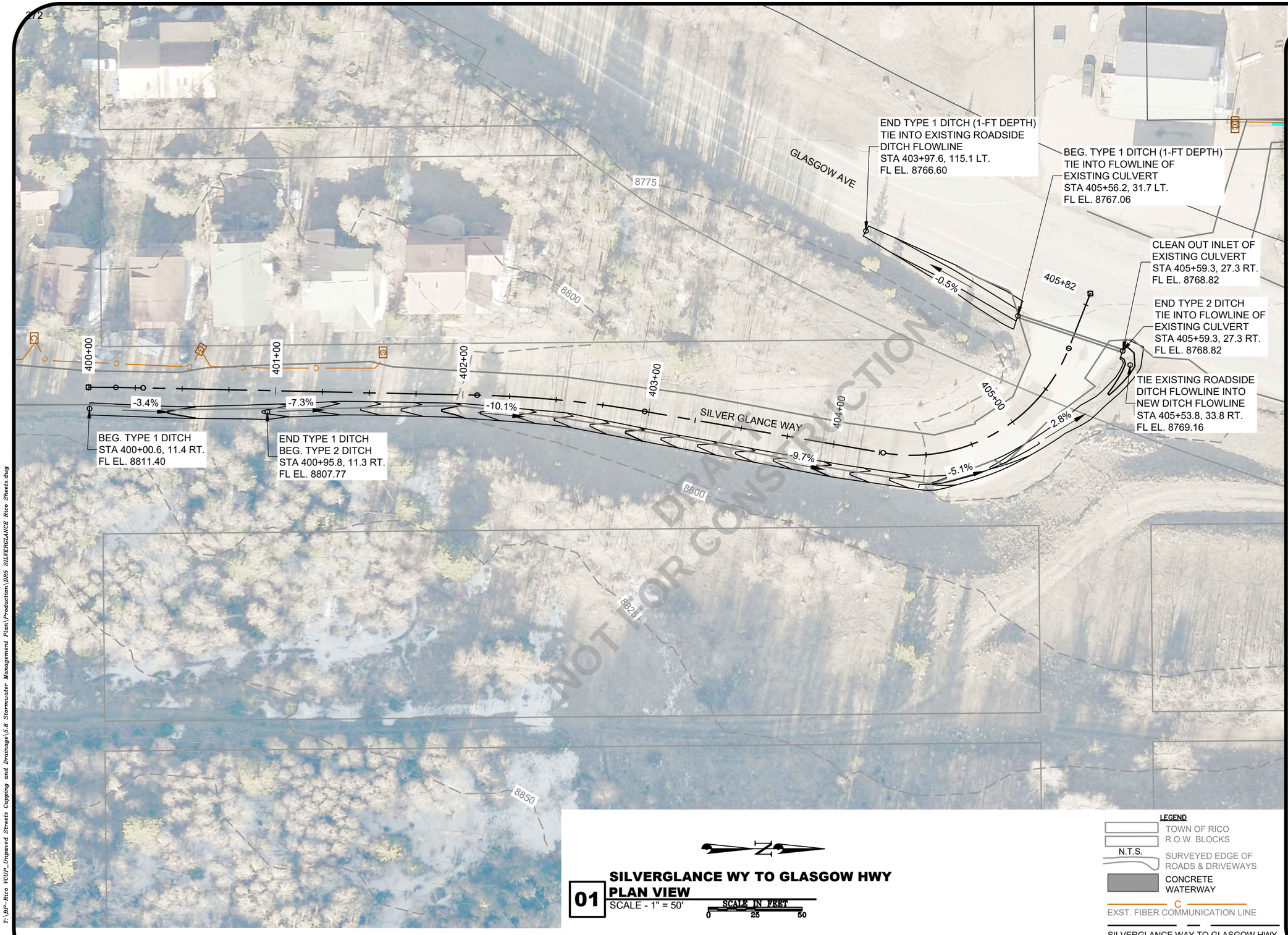

DRAFT
NOT FOR CONSTRUCTION

01 **SILVERGLANCE WY TO GLASGOW HWY PLAN VIEW**
SCALE - 1" = 50'

SCALE IN FEET
0 25 50

N.T.S.

LEGEND
- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- C — EXST. FIBER COMMUNICATION LINE

SILVERGLANCE WAY TO GLASGOW HWY
HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 02, SHEET HC4-01)

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

SILVERGLANCE WY TO GLASGOW HWY

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	30-Sep-2025
Scale	1" = 50'
Sheet	DR4-01

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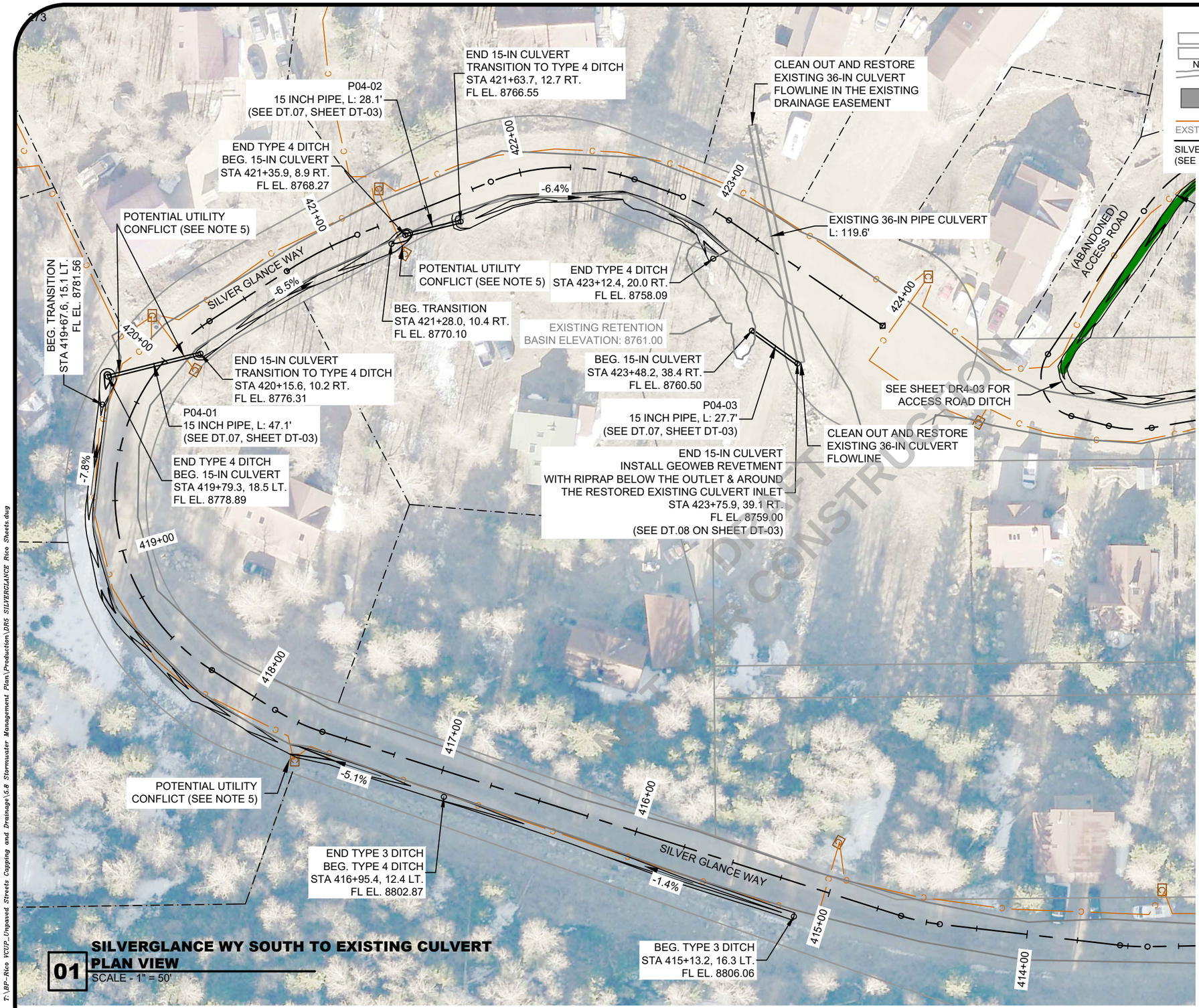

01 **SILVERGLANCE WY SOUTH TO EXISTING CULVERT PLAN VIEW**
SCALE - 1" = 50'

LEGEND
- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS (N.T.S.)
- CONCRETE WATERWAY
- EXST. FIBER COMMUNICATION LINE
- SILVERGLANCE WAY HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01 & 02, SHEET HC4-02)

SCALE IN FEET
0 25 50

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE ROADSIDE DITCH, AND PIPE CULVERTS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)
SILVERGLANCE WY TO EXISTING SILVERGLANCE CULVERT
RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	30-Sep-2025
Scale	1" = 50'
Sheet	DR4-02

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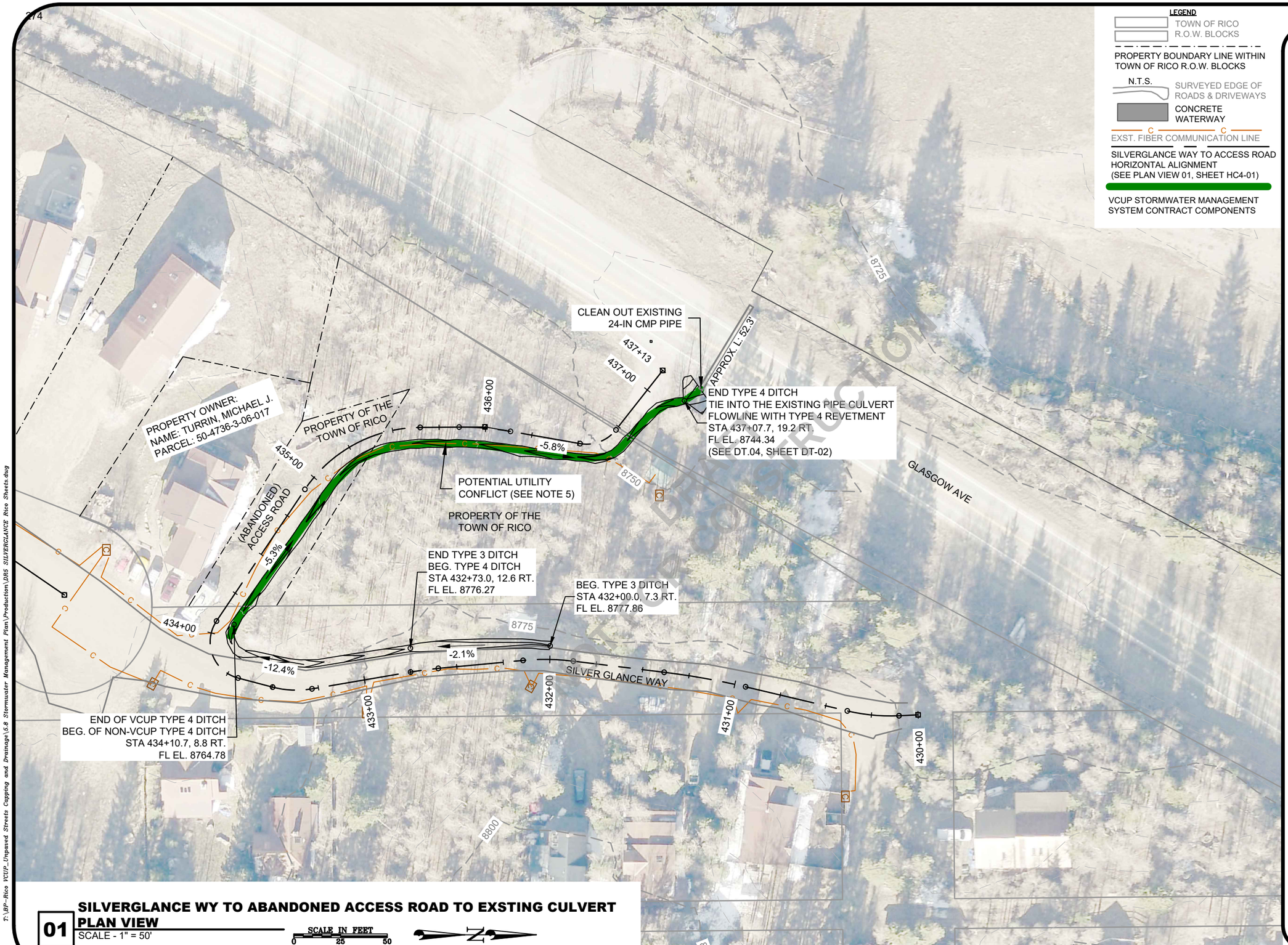

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- PROPERTY BOUNDARY LINE WITHIN TOWN OF RICO R.O.W. BLOCKS
- N.T.S. SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- C C EXST. FIBER COMMUNICATION LINE
- SILVERGLANCE WAY TO ACCESS ROAD HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC4-01)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE ROADSIDE DITCH.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

SILVERGLANCE WY TO ABANDONED ACCESS ROAD TO EXSTING CULVERT

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO	Sheet	DR4-03
Date	30-Sep-2025		
Scale	1" = 50'		

01 SILVERGLANCE WY TO ABANDONED ACCESS ROAD TO EXSTING CULVERT PLAN VIEW

SCALE - 1" = 50'

SCALE IN FEET 0 25 50

N

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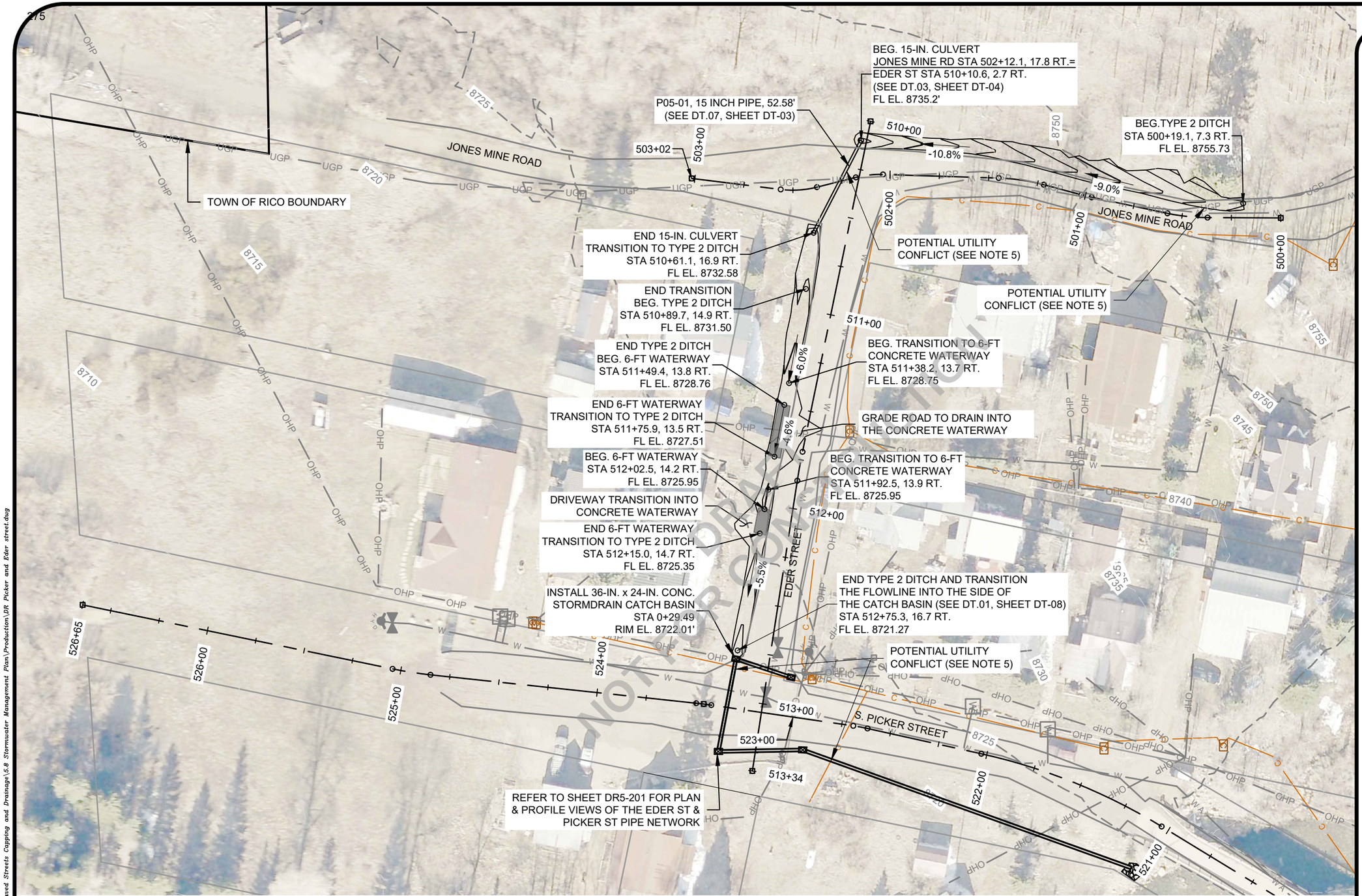

01 JONES MINE RD, EDER ST, & PICKER ST PLAN VIEW

SCALE - 1" = 50'

SCALE IN FEET
0 25 50

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- SURVEYED EDGE OF ROADS & DRIVEWAYS (N.T.S.)
- CONCRETE WATERWAY
- EXISTING OVERHEAD POWER LINES (OHP)
- EXISTING UNDERGROUND POWER (UGP)
- EXISTING WATERLINES (W)
- EXST. FIBER COMMUNICATION LINE (C)
- JONES MINE ROAD HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC5-01)
- W EDER ST HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC5-02)
- EDER ST & PICKER ST OUTLET CULVERT HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC5-03)

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General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE OR UGP LINE CONFLICTS WITH THE PIPE NETWORK.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

JONES MINE RD, EDER ST, & PICKER ST

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR5-01
Date: 10-Sep-2025	
Scale: 1" = 50'	

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5-8 Stormwater Management Plan\Production\DR Picker and Eder street.dwg

CB05-02
RIM TO SUMP: 4.5 FT.
36x24 CONC. CATCH BASIN
EDER ST & PICKER ST OUTLET CULVERT
STA 0+29.49

POTENTIAL UTILITY
CONFLICT (SEE NOTE 2)

POTENTIAL UTILITY
CONFLICT (SEE NOTE 2)

CB05-01
RIM TO SUMP: 4.5 FT.
36x24 CONC. CATCH BASIN
EDER ST & PICKER ST OUTLET CULVERT
STA 0+00.00

W. EDER ST HORIZONTAL
ALIGNMENT (SEE PLAN
VIEW 01, SHEET HC5-02)

P05-02

P05-03

P05-04

P05-05

S. PICKER STREET

POTENTIAL UTILITY
CONFLICT (SEE NOTE 2)

EDER ST & PICKER ST OUTLET
CULVERT HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 01, SHEET HC5-03)

CB05-03
RIM TO SUMP: 3.5 FT.
36x24 CONC. CATCH BASIN
EDER ST & PICKER ST OUTLET CULVERT
STA 0+77.21

CB05-04
RIM TO SUMP: 6.0 FT.
36x24 CONC. CATCH BASIN
EDER ST & PICKER ST OUTLET CULVERT
STA 1+19.92

PICKER ST BRIDGE

DOLORES
RIVER BANK

END PIPE CULVERT
INSTALL APRON AT END OF PIPE
(SEE DT.08 ON SHEET DT-03)
STA 2+96.5, 0.0 T.
INV. EL. 8714.84'

LEGEND

TOWN OF RICO
R.O.W. BLOCKS

N.T.S.

SURVEYED EDGE OF
ROADS & DRIVEWAYS

EXISTING POWER POLE

EXISTING WATERLINES

EXST. FIBER COMMUNICATION LINE

EXISTING OVERHEAD POWER

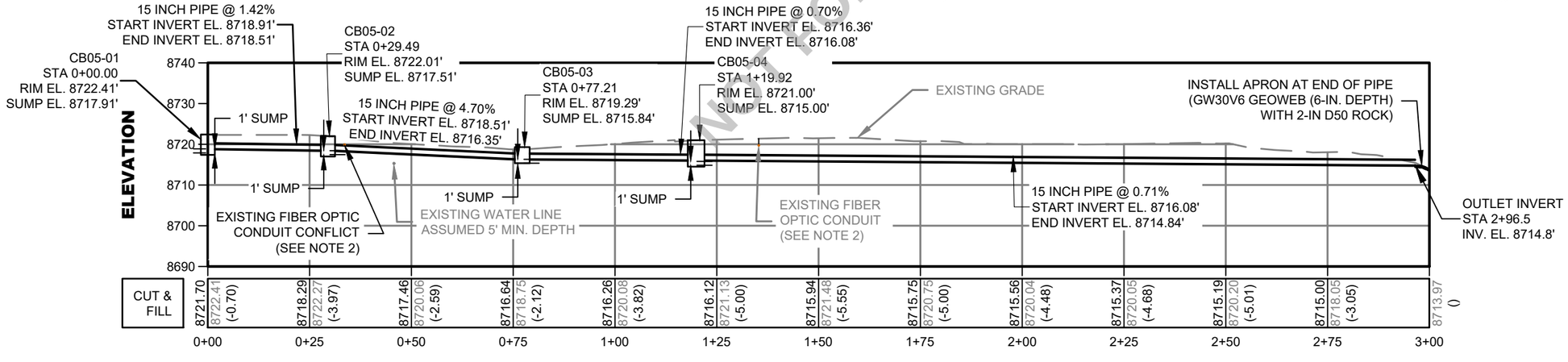
EDER ST & PICKER ST OUTLET CULVERT
HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 01, SHEET HC5-03)
W EDER ST HORIZONTAL ALIGNMENT
(SEE PLAN VIEW 01, SHEET HC5-02)

DRAFT
NOT FOR CONSTRUCTION

01 EDER ST & PICKER ST OUTLET CULVERT PLAN VIEW

SCALE - 1" = 20'

SCALE IN FEET
0 10 20



02 EDER ST & PICKER ST OUTLET CULVERT PROFILE VIEW

SCALE - 1" = 30'

SCALE IN FEET
0 15 30

PROFILE VIEW OF EDER ST & PICKER ST OUTLET CULVERT
0+00 TO 3+00.00
(VERTICAL EXAGGERATION = 1:1)

General Notes

1. EXISTING CONTOURS SHOWN AT 2-FOOT INTERVALS. DESIGN CONTOURS SHOWN AT 1-FOOT INTERVALS.
2. LOCATIONS OF UTILITIES ARE APPROXIMATED. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

EDER ST AND PICKER ST PIPE
NETWORK

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR5-201
Date: 10-Sep-2025	
Scale: 1" = 20'	

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CONSTRUCT WATERBAR BETWEEN DRIVEWAYS (SEE DT.04, SHEET DT-04) STA 605+56.5, 13.6 RT. FL EL. 8802.35

606+00

END TYPE 1 DITCH BEG. TYPE 2 DITCH STA 605+44.1, 10.4 LT. FL EL. 8800.30

-6.8%

END TYPE 2 DITCH AT WATER BAR STA 605+68.7, 7.4 LT. FL EL. 8799.65

605+00

-1.7%

604+00

-2.6%

8800

END 6-FT CONC. WATERWAY TRANSITION TO TYPE 1 DITCH STA 603+18.4, 15.2 LT. FL EL. 8804.80

PIEDMONT STREET

603+00

GRADE TRANSITION INTO CONCRETE WATERWAY

BEG. ALLEY TYPE ROAD GRADING (SEE DT.05 ON SHEET DT-02) STA 610+54.2, 11.6 LT. FL EL. 8804.87

610+00

GRADE ROAD TO DRAIN INTO DITCH AND CONCRETE WATERWAY

BEG. 6-FT CONC. WATERWAY STA 602+34.0, 12.4 LT. FL EL. 8806.93

BEG. TRANSITION STA 602+19.1, 11.9 LT. FL EL. 8807.09

602+00

-4.3%

END 6-FT CONC. WATERWAY TRANSITION TO TYPE 1 DITCH STA 601+40.2, 13.7 LT. FL EL. 8811.09

END TYPE 2 DITCH BEG. 6-FT CONC. WATERWAY STA 601+12.9, 12.9 LT. FL EL. 8812.61

POTENTIAL UTILITY CONFLICT (SEE NOTE 5)

8800

8775

ROAD 54.7

DRIVEWAY TRANSITION INTO CONCRETE WATERWAY

BEG. TRANSITION STA 600+94.3, 12.3 LT. FL EL. 8813.54

601+00

-5.0%

600+00

POTENTIAL UTILITY CONFLICT (SEE NOTE 5)

BEG. TYPE 2 DITCH STA 600+00.0, 13.3 LT. FL EL. 8819.34

TOWN OF RICO BOUNDARY

8850

8875

8825

TOWN OF RICO BOUNDARY

-9.7%

MATCHLINE ROAD 54.7 STA 612+00 SEE SHEET DR6-02

NOT FOR CONSTRUCTION

LEGEND

- TOWN OF RICO R.O.W. BLOCKS
- N.T.S. SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- EXST. FIBER COMMUNICATION LINE
- ROAD 54.7 HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC6-01)
- PIEDMONT ST HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC6-02)

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
5. THE CONTRACTOR SHALL FIELD VERIFY IF THE FIBER OPTIC COMMUNICATION LINE CONFLICTS WITH THE ROADSIDE DITCH. AND CONCRETE WATERWAYS.

No.	Revision/Issue	Date

01 PIEDMONT ST & ROAD 54.7 PLAN VIEW
SCALE - 1" = 40'

SCALE IN FEET
0 20 40

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

PIEDMONT ST & ROAD 54.7

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	26-Sep-2025
Scale	1" = 40'
Sheet	DR6-01

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MATCHLINE ROAD 54.7
STA 612+25
SEE SHEET DR6-01

-12.0%

613+00

-11.6%

614+00

END ALLEY TYPE ROAD GRADING
TRANSITION TO TYPE 3 DITCH
STA 614+30.8, 6.3 LT.
FL EL. 8770.31

TOWN OF RICO BOUNDARY

ROAD 54.7

-1.4%

615+00

INSTALL DITCH ALONG THE
EXISTING TOE OF SLOPE

END TYPE 3 DITCH
BEG. TYPE 4 DITCH
STA 615+41.7, 37.8 LT.
FL EL. 8767.52

-9.9%

END TYPE 4 DITCH
TIE INTO INVERT OF
EXISTING CULVERT
STA 615+49.1, 26.9 LT.
FL EL. 8765.93

CLEAN OUT THE INLET
AND OUTLET OF THE
EXISTING CULVERT

PROTECT IN PLACE
EXISTING PIPE CULVERT

616+00
616+07

GLASGOW AVE

8775
8825
8800

DRAFT
NOT FOR CONSTRUCTION

LEGEND
- TOWN OF RICO R.O.W. BLOCKS
- N.T.S. SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- ROAD 54.7 HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02, SHEET HC6-01)

General Notes

1. DETAILS OF DITCH TYPES ARE FOUND ON SHEET DT-02.
2. REFER TO SHEET DT-03 FOR CONCRETE WATERWAY DETAILS.
3. THE AERIAL BACKGROUND IMAGE SHOWN IS FOR REFERENCE ONLY AND VARIES FROM THE TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON. THE AERIAL IMAGE WAS TAKEN IN 2021 AND PROVIDED BY DOLORES COUNTY, COLORADO.
4. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

ROAD 54.7 OUTLET

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DR6-02
Date: 26-Sep-2025	
Scale: 1" = 40'	

01 ROAD 54.7 OUTLET PLAN VIEW
SCALE - 1" = 40'

SCALE IN FEET
0 20 40

N

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5-8 Stormwater Management Plan\Production\DR7 Piedmont Rico Sheets.dwg

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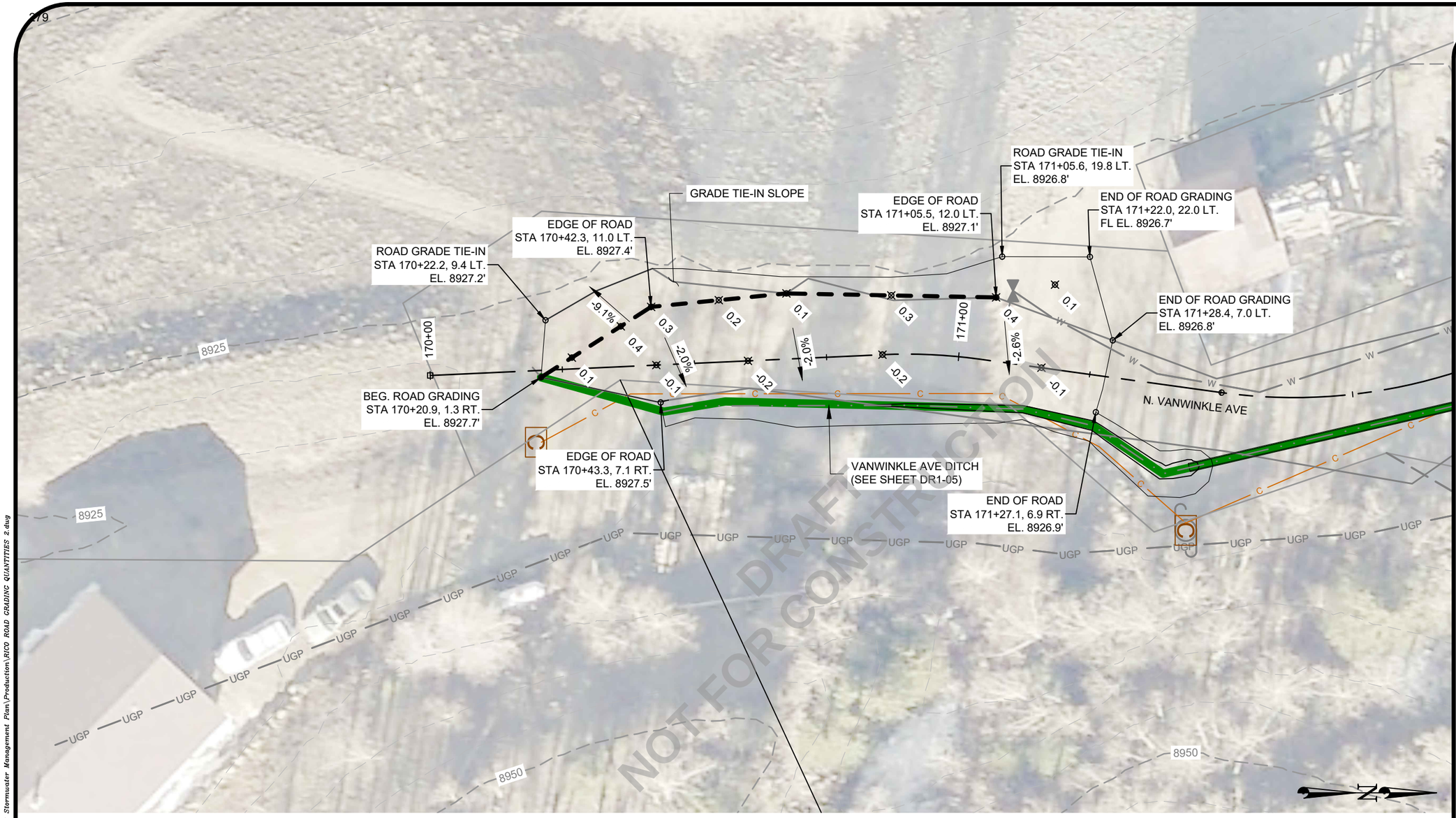

01 N. VANWINKLE AVE - ROAD GRADING PLAN VIEW

SCALE - 1" = 20'

TABLE 01:
GRADING VOLUMES ESTIMATES

ROAD GRADE FILL LOCATION	CUT QUANTITY (BCY)	FILL QUANTITY (ECY)*
VANWINKLE AVE (SOUTH END)	5	10
TOTAL	**5**	**10**

NOTE: *ECY REPRESENTS COMPACTED TO LINES AND GRADES.

COMPACTION NOTES

1. SMOOTH AND COMPACT THE FINAL GRADE OF THE CUT ROAD SURFACE BY RIPPING THE TOP 6 INCHES, WATER CONDITIONING THE RIPPED MATERIAL, AND COMPACT. REFER TO SPECIFICATION 01100 - TOWN OF RICO QUALITY MANAGEMENT PLAN FOR MORE INFORMATION.
2. PLACE CDOT CLASS 6 AGGREGATE BASE COURSE IN 8-IN. MAX LOOSE LIFTS UP TO THE FILL LINES AND GRADES AND COMPACT EACH LIFT TO 95% MDD MODIFIED PROCTOR. REFER TO SPECIFICATION 02721 - AGGREGATE BASE COURSE FOR MORE INFORMATION.

TOWN OF RICO R.O.W. BLOCKS
N.T.S.
SURVEYED EDGE OF ROADS & DRIVEWAYS
EDGE OF ROAD
N VANWINKLE AVE HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 01, SHEET HC1-05)
VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

Legend
SCALE IN FEET 0 10 20
OR 0.2 0.4 CUT OR FILL TICK MARKS
OHP EXISTING OVERHEAD POWER
W EXISTING WATER LINE
C EXISTING FIBER OPTIC LINE

GENERAL NOTE
1. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
2. REFER TO CUT/FILL TICK MARKS AS SHOWN IN PLAN VIEW.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)
VANWINKLE AVE ROAD GRADING PLAN
RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	02-Oct-2025
Scale	1" = 20'
Sheet	RD1-01

T:\JP--Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\RICO ROAD GRADING QUANTITIES 2.dwg

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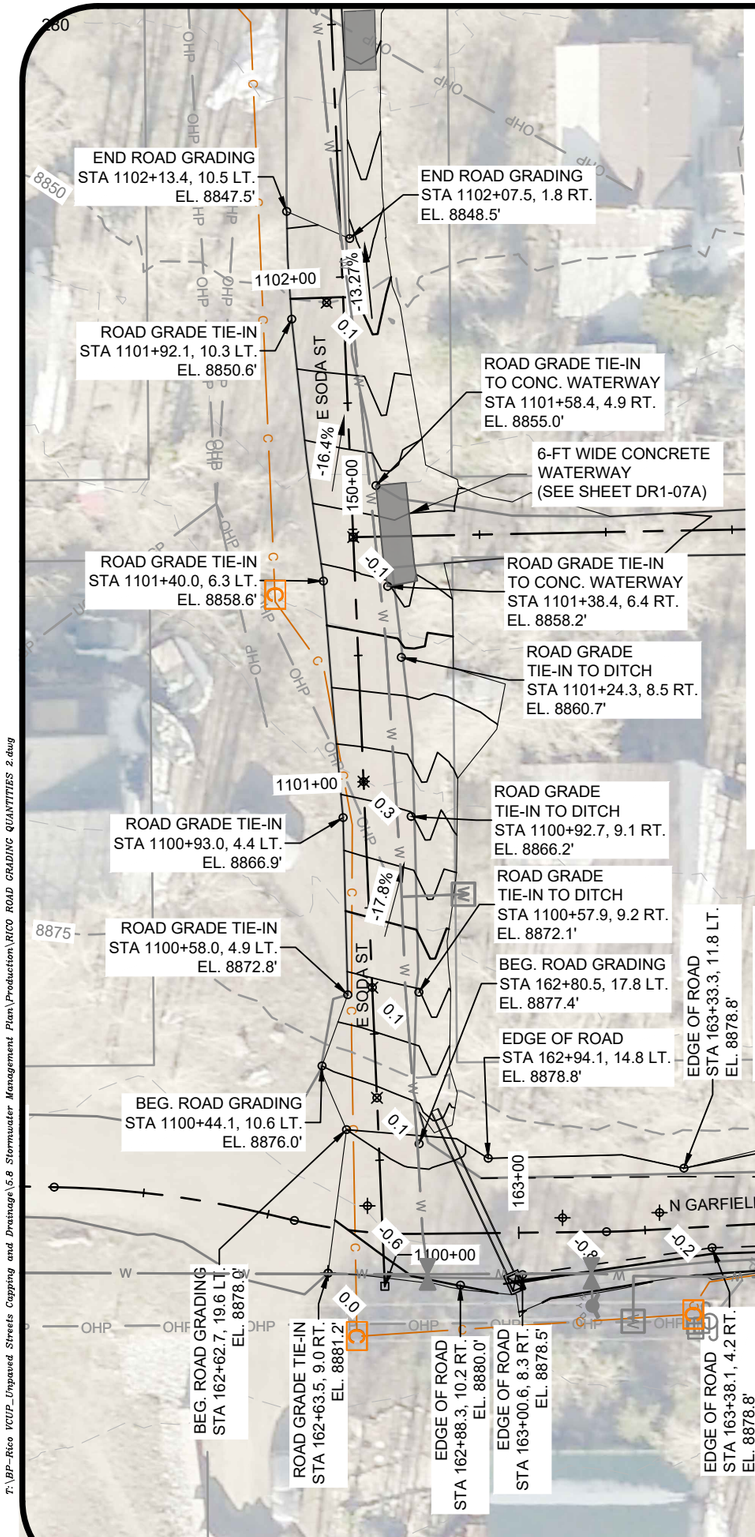

Legend

- TOWN OF RICO R.O.W. BLOCKS
- N.T.S. SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- E SODA ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02, SHEET HC1-07)
- N GARFIELD ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02 & 03, SHEET HC1-02)
- OR -0.2 0.4 CUT OR FILL TICK MARKS
- OHP EXISTING OVERHEAD POWER
- W EXISTING WATER LINE
- C EXISTING FIBER OPTIC LINE
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

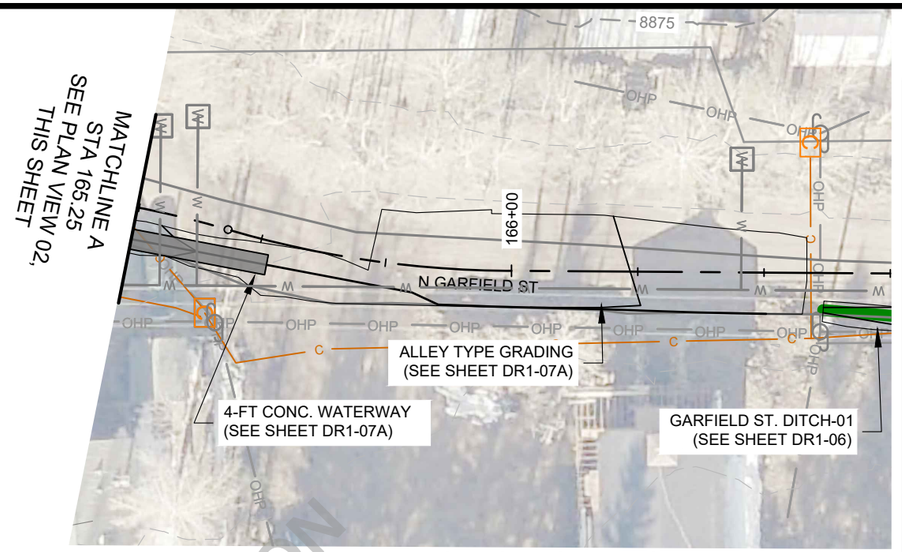

TABLE 01:
GRADING VOLUME ESTIMATES

ROAD GRADE FILL LOCATION	CUT QUANTITY (BCY)	FILL QUANTITY (ECY)*
E SODA ST	25	20
(01) N GARFIELD	10	5
(02) N GARFIELD	50	25
TOTAL	**85**	**50**

NOTE: *ECY REPRESENTS COMPACTED TO LINES AND GRADES.

01 N GARFIELD ST ROAD GRADING PLAN VIEW

SCALE - 1" = 30'

COMPACTION NOTES

1. SMOOTH AND COMPACT THE FINAL GRADE OF THE CUT ROAD SURFACE BY RIPPING THE TOP 6 INCHES, WATER CONDITIONING THE RIPPED MATERIAL, AND COMPACT. REFER TO SPECIFICATION 01100 - TOWN OF RICO QUALITY MANAGEMENT PLAN FOR MORE INFORMATION.
2. PLACE CDOT CLASS 6 AGGREGATE BASE COURSE IN 8-IN. MAX LOOSE LIFTS UP TO THE FILL LINES AND GRADES AND COMPACT EACH LIFT TO 95% MDD MODIFIED PROCTOR. REFER TO SPECIFICATION 02721 - AGGREGATE BASE COURSE FOR MORE INFORMATION.

02 N GARFIELD ST TO E SODA ST ROAD GRADING PLAN VIEW

SCALE - 1" = 30'

SCALE IN FEET
0 15 30

GENERAL NOTE

1. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.
2. REFER TO CUT/FILL TICK MARKS AS SHOWN IN PLAN VIEW.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

GARFIELD ST TO SODA ST ROAD GRADING PLAN

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	02-Oct-2025
Scale	1" = 30'
Sheet	RD1-02

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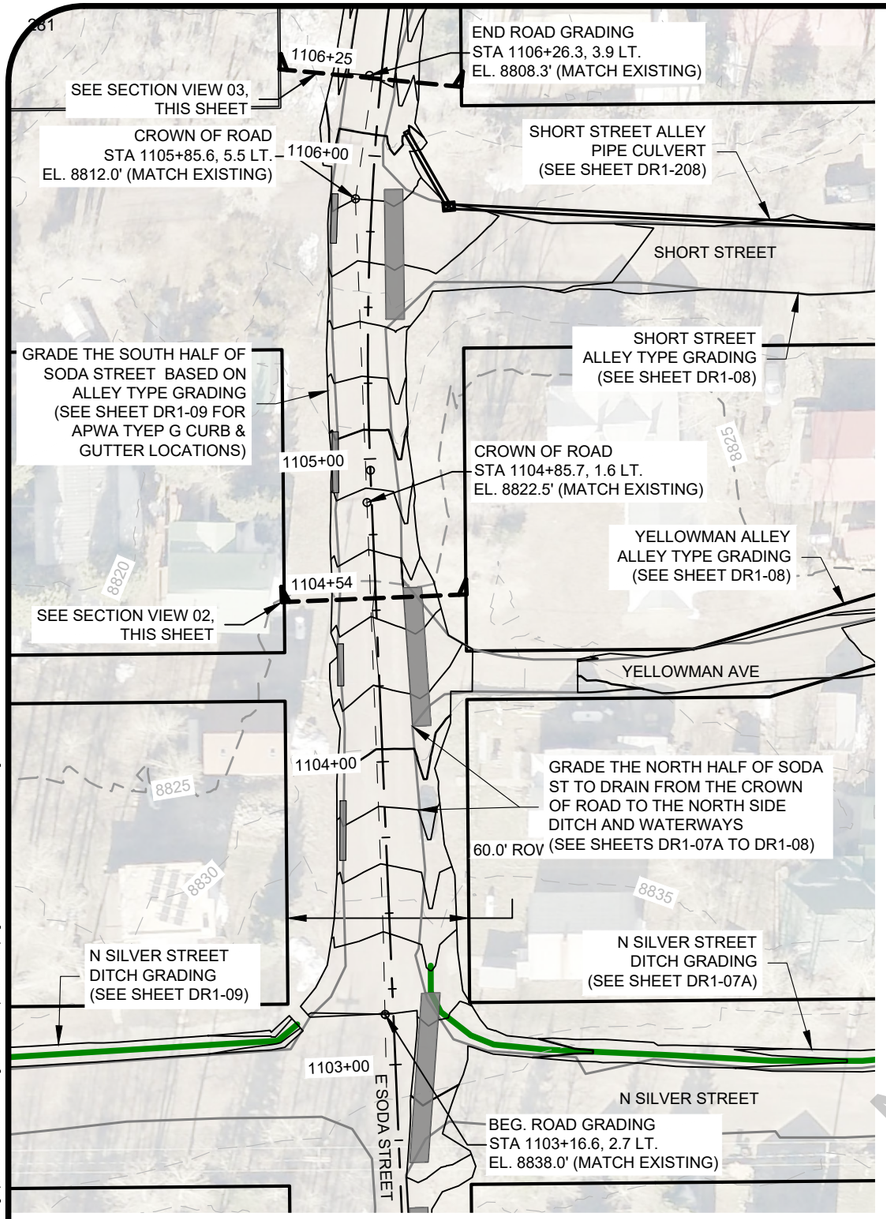
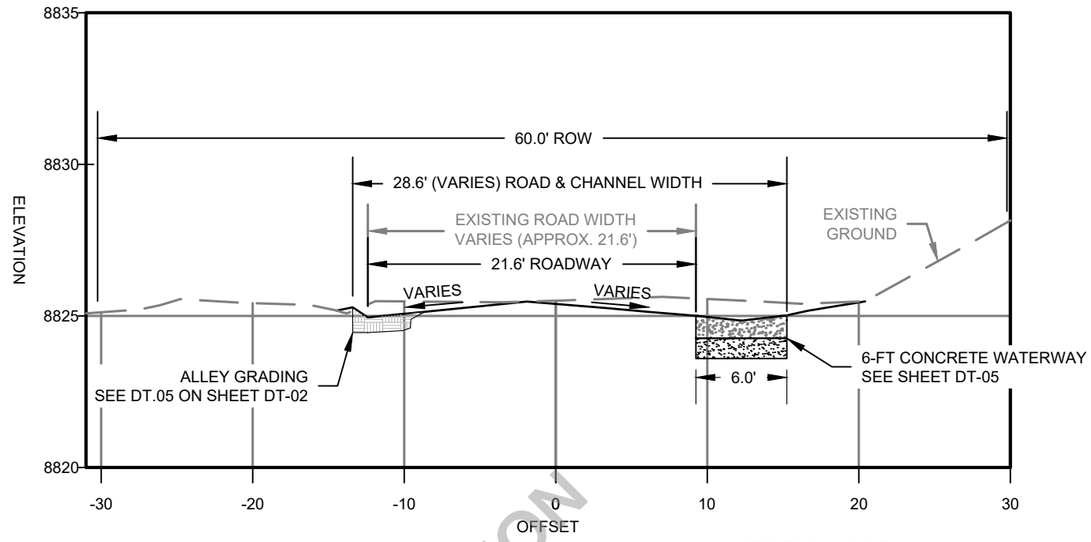


01 E SODA STREET PLAN VIEW
SCALE - 1" = 50'

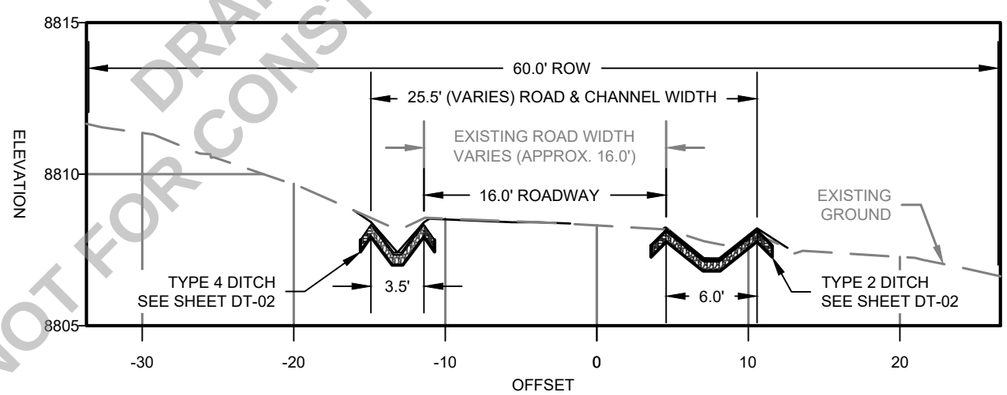
SCALE IN FEET
0 25 50



SECTION VIEW
E SODA ST @ 1104+54
(VERTICAL EXAGGERATION 2:1)

02 E SODA STREET SECTION VIEW
SCALE - 1" = 10'

SCALE IN FEET
0 5 10



SECTION VIEW
E SODA ST @ 1106+25
(VERTICAL EXAGGERATION 2:1)

03 E SODA STREET SECTION VIEW
SCALE - 1" = 10'

SCALE IN FEET
0 5 10

COMPACTION NOTES
1. SMOOTH AND COMPACT THE FINAL GRADE OF THE CUT ROAD SURFACE BY RIPPING THE TOP 6 INCHES, WATER CONDITIONING THE RIPPED MATERIAL, AND COMPACT GRADE TO 95% MDD MODIFIED PROCTOR. REFER TO SPECIFICATION 01100 - TOWN OF RICO QUALITY MANAGEMENT PLAN FOR MORE INFORMATION.

TABLE 01:
GRADING VOLUMES ESTIMATES

ROAD GRADE FILL LOCATION	CUT QUANTITY (BCY)	FILL QUANTITY (ECY)*
SODA ST	40	-
TOTAL	**40**	**-**

NOTE: *ECY REPRESENTS COMPACTED TO LINES AND GRADES.

Legend
- TOWN OF RICO R.O.W. BLOCKS
- N.T.S. SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- APWA TYPE G CURB & GUTTER
- E SODA HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02, SHEET HC1-07)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

GENERAL NOTE
1. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

E SODA STREET CROSS SECTIONS

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	02-Oct-2025
Scale	AS SHOWN
Sheet	RD1-03

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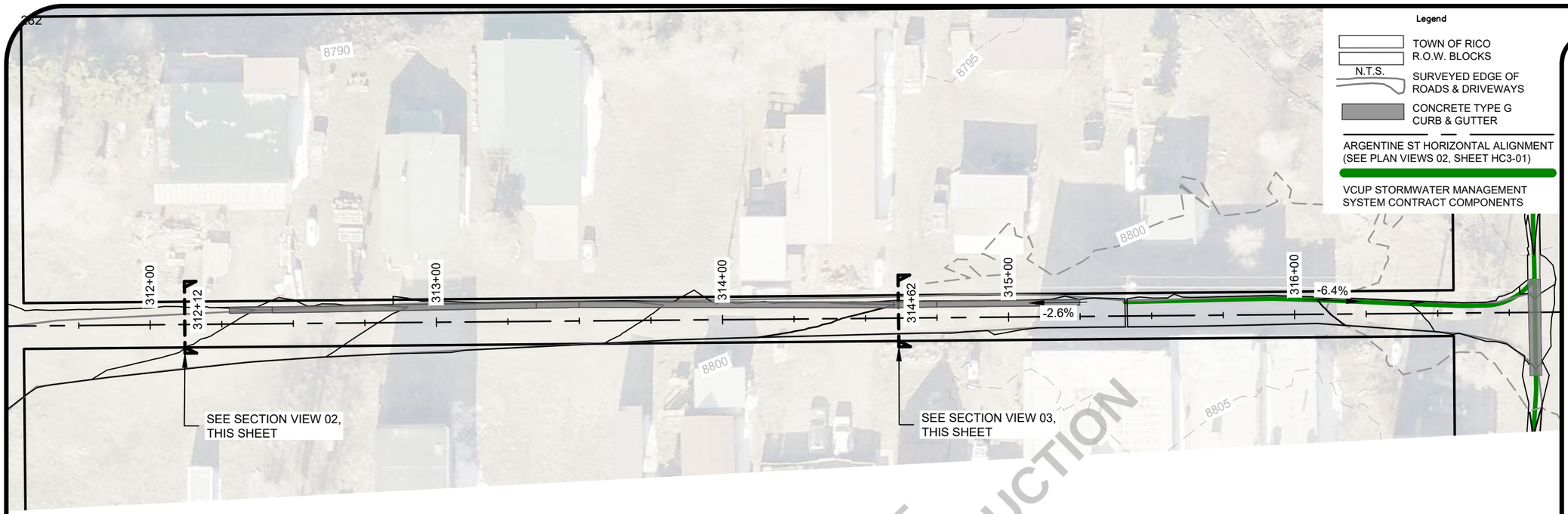
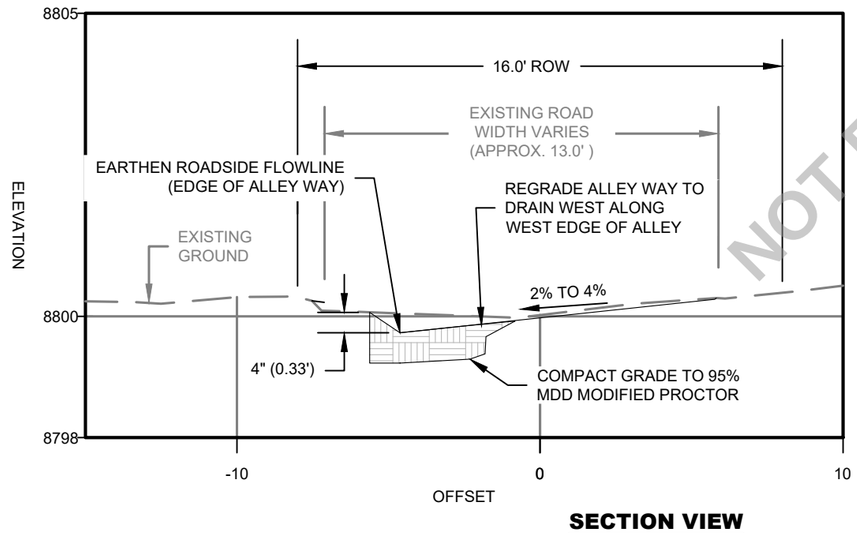


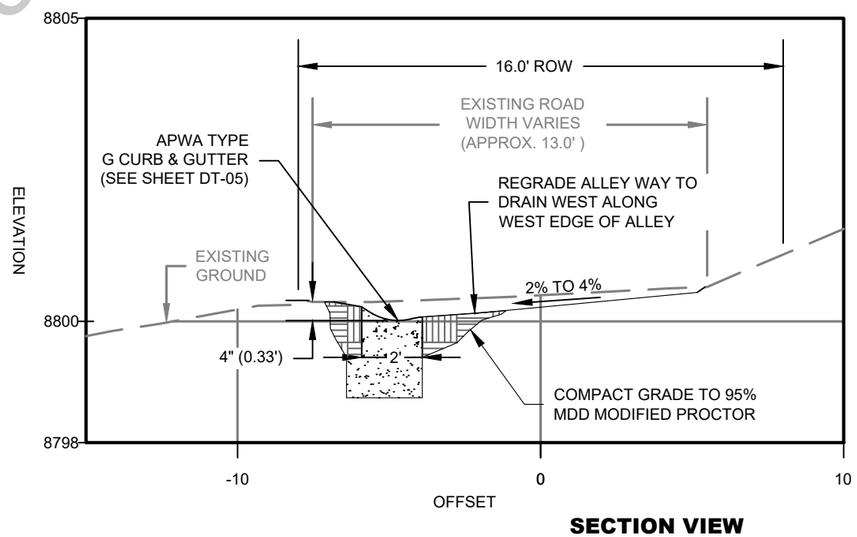
01 ARGENTINE ALLEY PLAN VIEW
SCALE - 1" = 40'

SCALE IN FEET
0 20 40



SECTION VIEW
ARGENTINE ST @ 312+12
(VERTICAL EXAGGERATION 2:1)

02 ARGENTINE ALLEY SECTION VIEW
SCALE - 1" = 5'



SECTION VIEW
ARGENTINE ST @ 314+62
(VERTICAL EXAGGERATION 2:1)

03 ARGENTINE ALLEY AT DRIVEWAY LOCATIONS SECTION VIEW
SCALE - 1" = 5'

SCALE IN FEET
0 2.5 5

GENERAL NOTE
1. EXISTING CONTOURS ARE SHOWN AT 5-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 2-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

ARGENTINE ALLEY CROSS SECTIONS

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: RD3-01
Date: 02-Oct-2025	
Scale: AS SHOWN	

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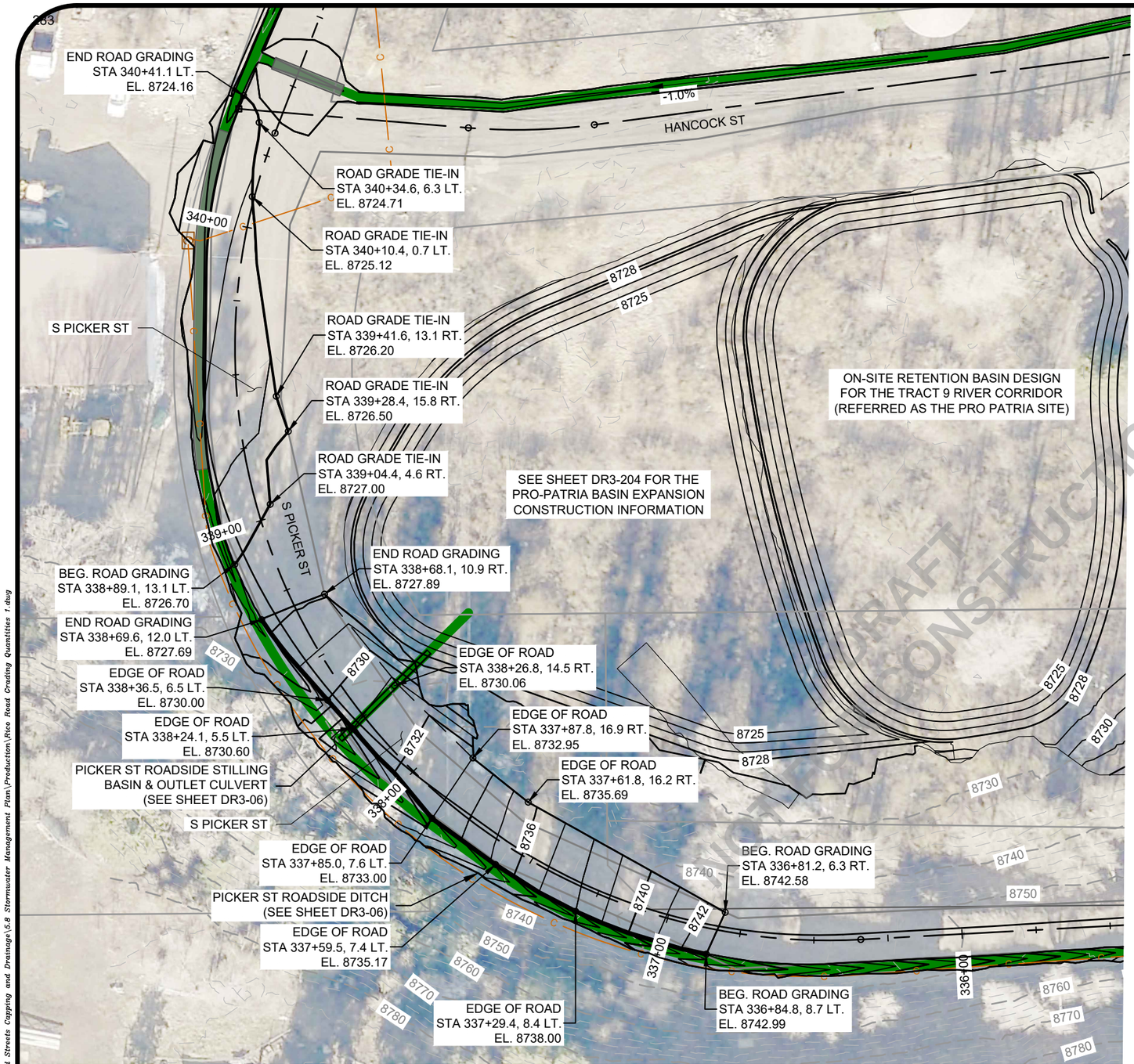

TABLE 01:
GRADING VOLUME ESTIMATES

ROAD GRADE FILL LOCATION	CUT QUANTITY (BCY)	FILL QUANTITY (ECY)*
S PICKER ST	25	25
S PICKER ST (HANCOCK)	25	0
TOTAL	**50**	**25**

NOTE: *ECY REPRESENTS COMPACTED TO LINES AND GRADES.

COMPACTION NOTES

1. SMOOTH AND COMPACT THE FINAL GRADE OF THE CUT ROAD SURFACE BY RIPPING THE TOP 6 INCHES, WATER CONDITIONING THE RIPPED MATERIAL, AND COMPACT. REFER TO SPECIFICATION 01100 - TOWN OF RICO QUALITY MANAGEMENT PLAN FOR MORE INFORMATION.
2. PLACE CDOT CLASS 6 AGGREGATE BASE COURSE IN 8-IN. MAX LOOSE LIFTS UP TO THE FILL LINES AND GRADES AND COMPACT EACH LIFT TO 95% MDD MODIFIED PROCTOR. REFER TO SPECIFICATION 02721 - AGGREGATE BASE COURSE FOR MORE INFORMATION.

Legend

- TOWN OF RICO R.O.W. BLOCKS
- N.T.S. SURVEYED EDGE OF ROADS & DRIVEWAYS
- CONCRETE WATERWAY
- C C EXST. FIBER COMMUNICATION LINE
- S RIVER ST TO PICKER ST HORIZONTAL ALIGNMENT (SEE PLAN VIEWS 02, SHEET HC3-03)
- S RIVER ST TO PICKER ST HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC3-04)
- VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

GENERAL NOTE

1. EXISTING CONTOURS ARE SHOWN AT 2-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 1-FT INTERVALS.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

PICKER STREET ROAD WIDENING PLAN

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	02-Oct-2025
Scale	1" = 40'
Sheet	RD3-02

01 S PICKER ST - ROAD GRADING PLAN VIEW
SCALE - 1" = 40'

SCALE IN FEET
0 20 40

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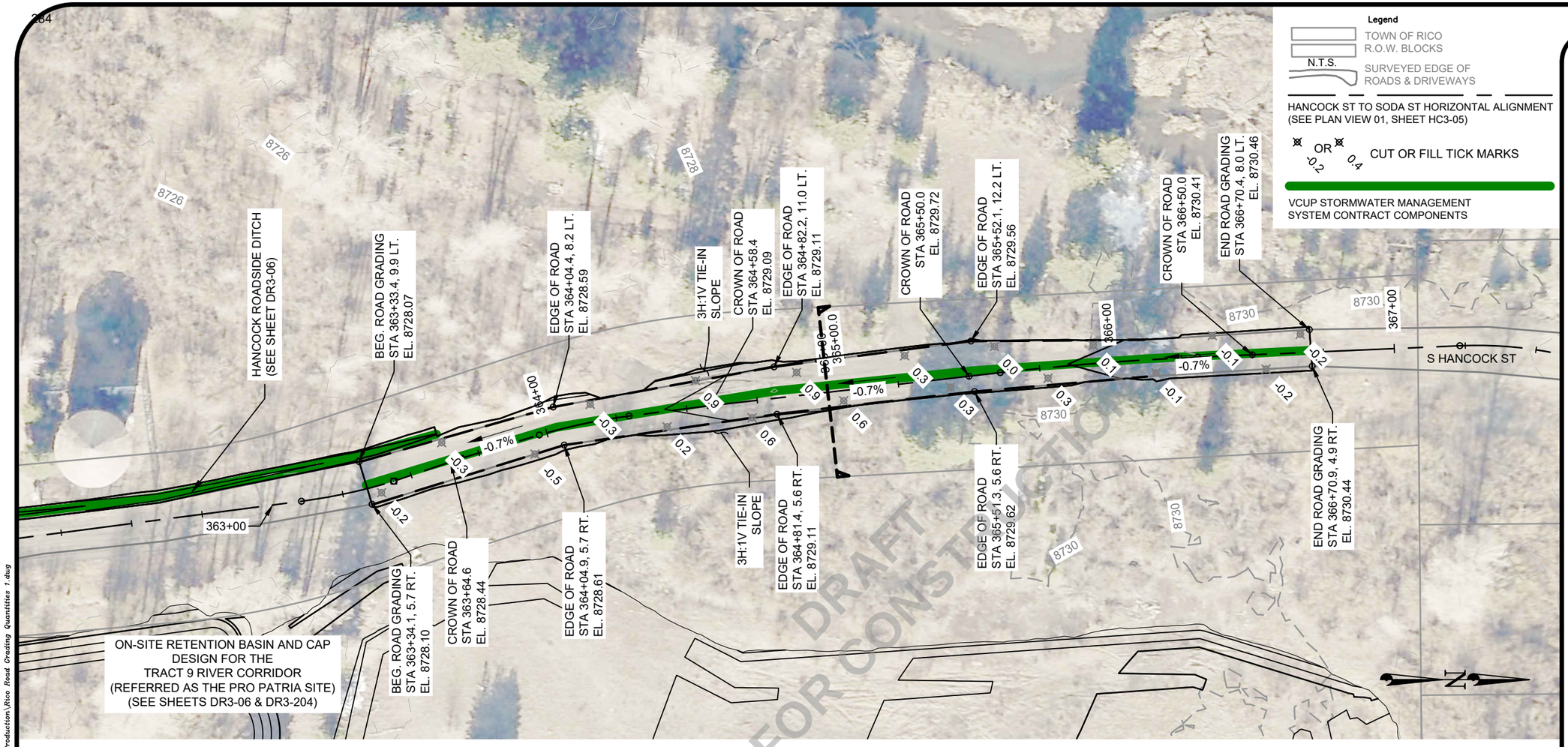
T:\BP--Rico VCUP_Unpaved Streets Capping and Drainage\6.0 Stormwater Management Plan\Production\Rico Road Grading Quantities 1.dwg



Legend

TOWN OF RICO R.O.W. BLOCKS

N.T.S.

SURVEYED EDGE OF ROADS & DRIVEWAYS

HANCOCK ST TO SODA ST HORIZONTAL ALIGNMENT (SEE PLAN VIEW 01, SHEET HC3-05)

OR -0.2 0.4 CUT OR FILL TICK MARKS

VCUP STORMWATER MANAGEMENT SYSTEM CONTRACT COMPONENTS

GENERAL NOTE

1. EXISTING CONTOURS ARE SHOWN AT 2-FT INTERVALS. DESIGN CONTOURS ARE SHOWN AT 1-FT INTERVALS.
2. REFER TO CUT/FILL TICK MARKS AS SHOWN IN PLAN VIEW.

No.	Revision/Issue	Date

01 S HANCOCK ST ROAD GRADING PLAN VIEW

SCALE - 1" = 40'

SCALE IN FEET 0 20 40

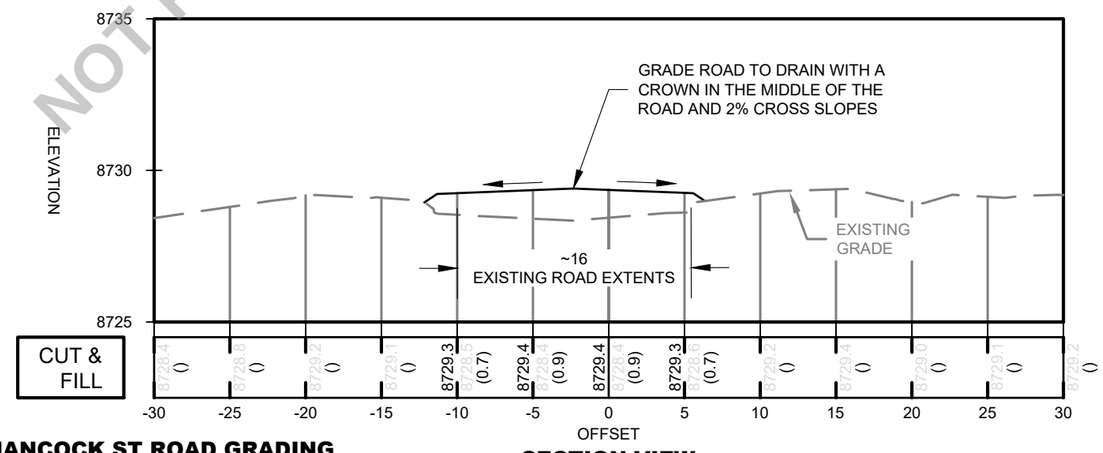
TABLE 01: GRADING VOLUME ESTIMATES

ROAD GRADE FILL LOCATION	CUT QUANTITY (BCY)	FILL QUANTITY (ECY)*
S HANCOCK ST	0	120
TOTAL	**0**	**120**

NOTE: *ECY REPRESENTS COMPACTED TO LINES AND GRADES.

COMPACTION NOTES

1. PLACE CDOT CLASS 6 AGGREGATE BASE COURSE IN 8-IN. MAX LOOSE LIFTS UP TO THE FILL LINES AND GRADES AND COMPACT EACH LIFT TO 95% MDD MODIFIED PROCTOR. REFER TO SPECIFICATION 02721 - AGGREGATE BASE COURSE FOR MORE INFORMATION.



02 S HANCOCK ST ROAD GRADING SECTION VIEW STA 365+00

SCALE - 1" = 40'

SECTION VIEW HANCOCK ST TO SODA ST @ 365+00 (VERTICAL EXAGGERATION 2:1)

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

HANCOCK STREET RAISING ROAD GRADE PLAN

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project	RICO
Date	02-Oct-2025
Scale	1" = 40'
Sheet	RD3-03

DRAFT NOT FOR CONSTRUCTION

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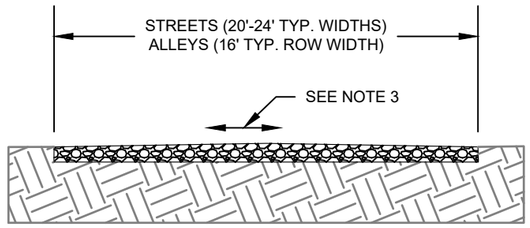
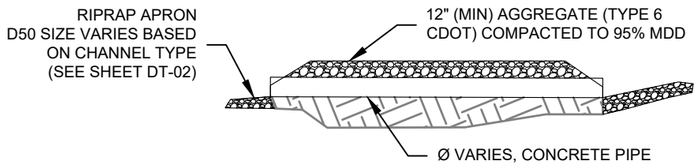
T:\BP--Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\Rico Road Grading Quantities 1.dwg

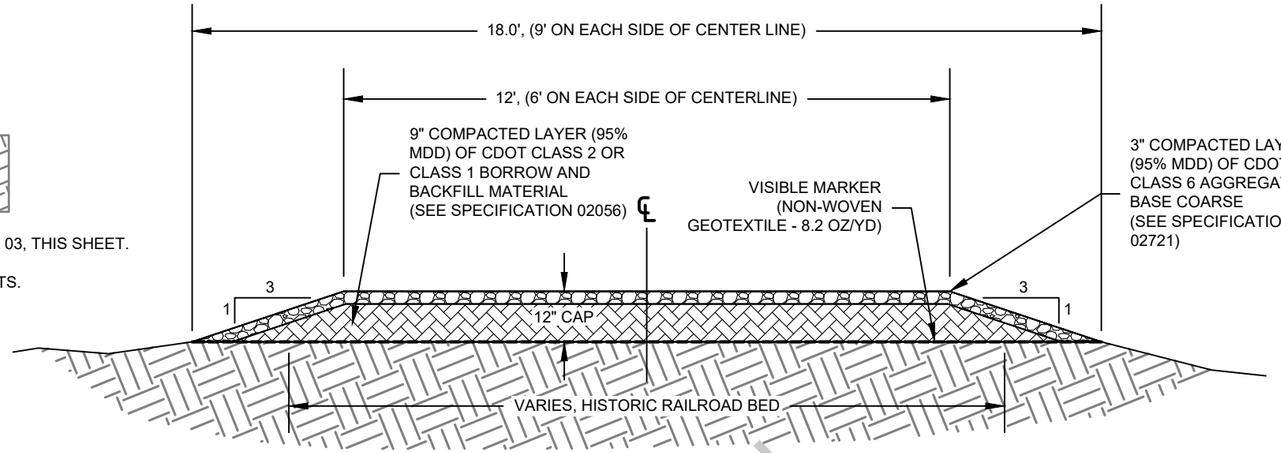


NOTES:
1. STREETS AND ALLEYS SHALL BE RECLAIMED AS PER RECLAMATION DETAIL 03, THIS SHEET.
2. PROTECT EXISTING VEGETATION ADJACENT TO WORK AREAS.
3. GRADE TOWARD DRAINAGE CONTROLS AS SPECIFIED ON DR SERIES SHEETS.

01 TYPICAL STREET OR ALLEY RECLAMATION DETAIL
SCALE - 1"-10'

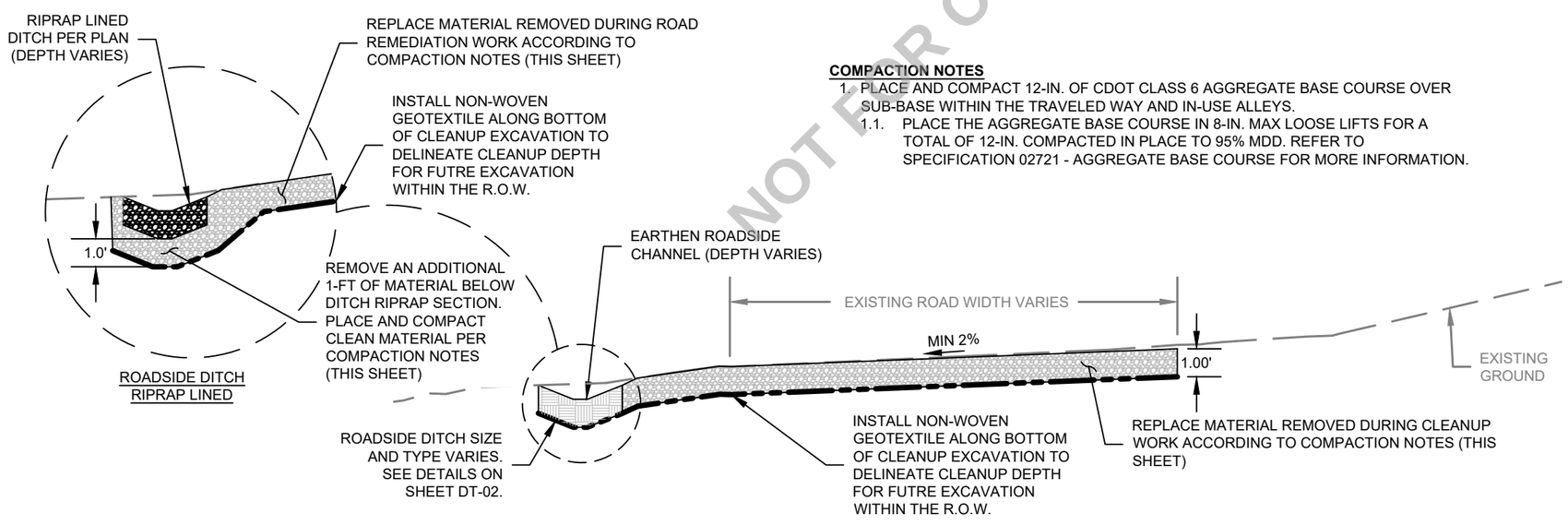


02 TYPICAL STREET OR ALLEY CULVERT DETAIL
SCALE -1"-10'



NOTES:
1. HISTORIC RAILROAD BED SHALL BE RECLAIMED AS PER RAILROAD BED RECLAMATION DETAIL, THIS SHEET.
2. RECLAIMED AREAS ARE SUITED TO SERVE AS A WALKING PATH.
3. NATURAL AREAS ADJACENT TO WORK AREA, DISTURBED BY THE WORK SHALL BE REVEGETATED WITH LOCALLY ADAPTED PLANT SPECIES PER THE SPECIFICATIONS.

04 RAILROAD BED RECLAMATION DETAIL
SCALE: 1" = 3'



COMPACTION NOTES
1. PLACE AND COMPACT 12-IN. OF CDOT CLASS 6 AGGREGATE BASE COURSE OVER SUB-BASE WITHIN THE TRAVELED WAY AND IN-USE ALLEYS.
   1.1. PLACE THE AGGREGATE BASE COURSE IN 8-IN. MAX LOOSE LIFTS FOR A TOTAL OF 12-IN. COMPACTED IN PLACE TO 95% MDD. REFER TO SPECIFICATION 02721 - AGGREGATE BASE COURSE FOR MORE INFORMATION.

03 ROAD AND DITCH REMEDIATION DETAIL
SCALE - N.T.S

DRAFT NOT FOR CONSTRUCTION

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

TYPICAL ROAD RECLAMATION DETAILS

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DT-01
Date: 13-Oct-2025	
Scale:	

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.0 Stormwater Management Plan\Production\Rico Stormwater Management System Details.dwg

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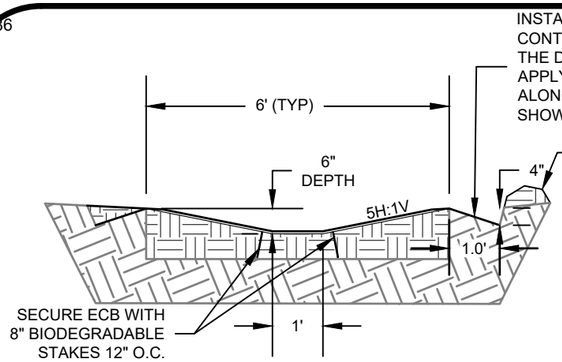
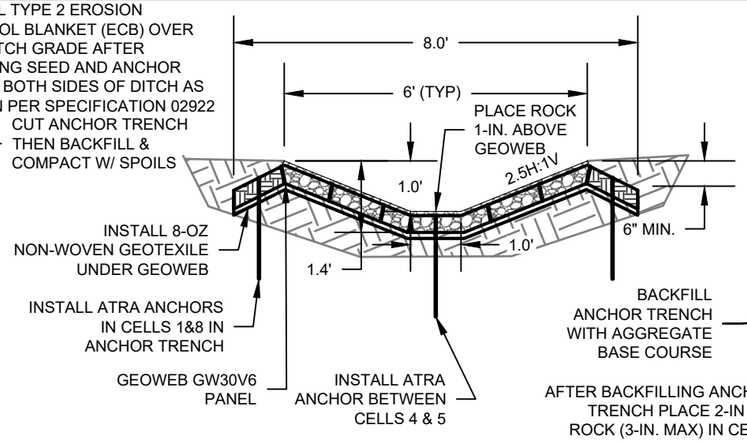
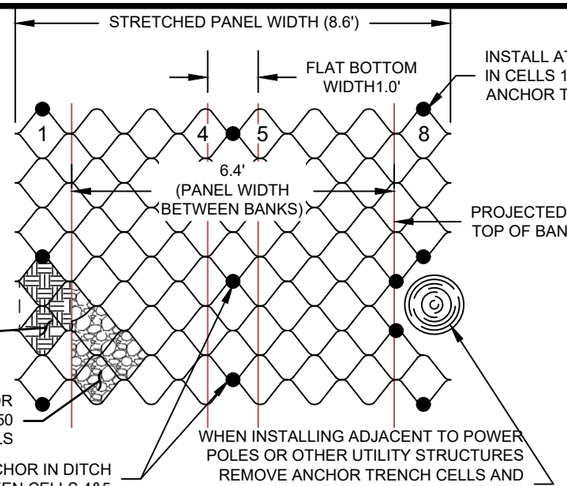


TYPE 1 - TYPICAL 6-FT WIDE DITCH (6-IN. DEPTH VEGETATIVE COVER) CROSS SECTION DETAIL

01 SCALE - 1" = 3'



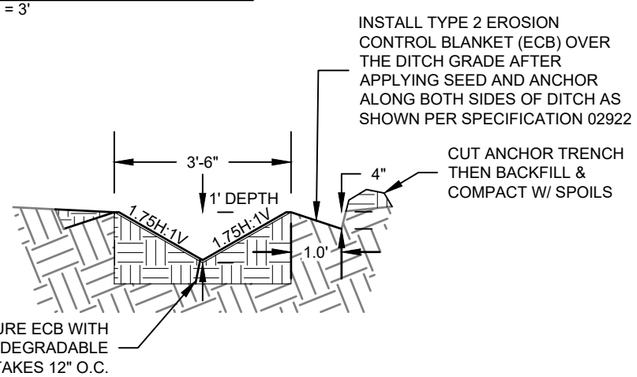
CROSS SECTION VIEW



PLAN VIEW

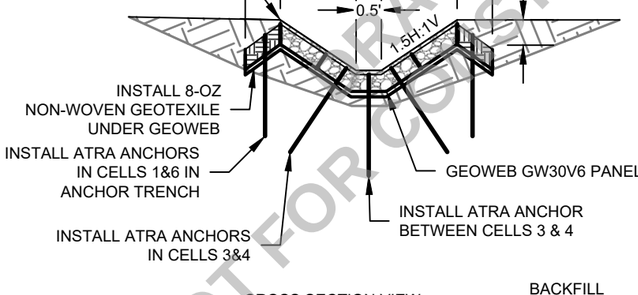
TYPE 2 - 1-FT DEPTH DITCH (GW30V6 GEOWEB (6-IN. DEPTH) WITH 2-IN D50 (3-IN. MAX) ROCK) SECTION & PANEL LAYOUT

02 SCALE - 1" = 3'

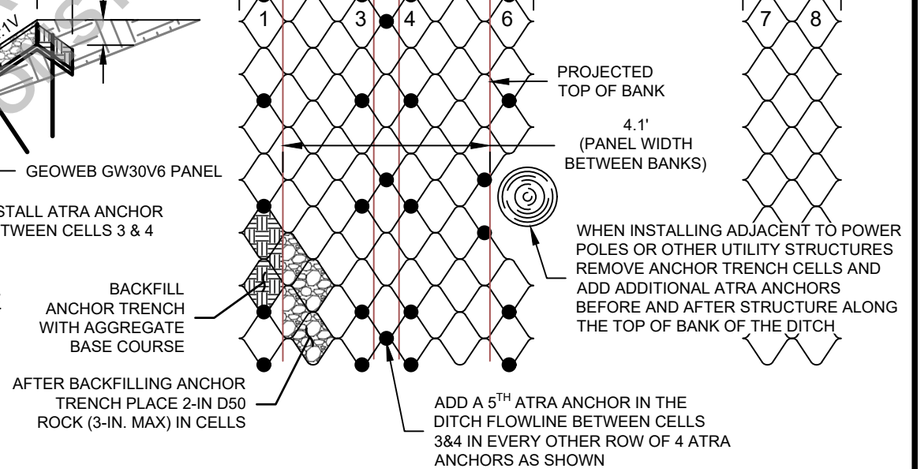


TYPE 3 - TYPICAL 3.5-FT WIDE DITCH (12-IN. DEPTH VEGETATIVE COVER) CROSS SECTION DETAIL

03 SCALE - 1" = 3'



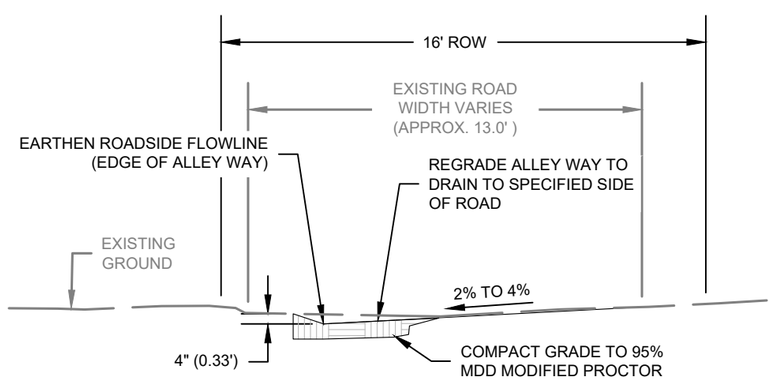
CROSS SECTION VIEW



PLAN VIEW

TYPE 4 - 3.5-FT WIDE x 1-FT DEPTH DITCH (GW30V6 GEOWEB (6-IN. DEPTH) WITH 2-IN D50 (3-IN. MAX) ROCK) SECTION & PANEL LAYOUT

04 SCALE - 1" = 3'



ALLEY GRADING (16-FT ROW OR EXISTING SINGLE LANE WIDTHS) CROSS SECTION DETAIL

05 SCALE - 1" = 5'

General Notes

1. DITCHES SHALL BE CONSTRUCTED ADJACENT TO ROAD SURFACES AS SPECIFIED IN PLANS, UNLESS OTHERWISE NOTED. THE FILED ENGINEER SHALL CONFIRM WITH PROPERTY OWNERES, PROJECT MANAGEMENT, AND THE CONTRACTOR ANY MODIFICATIONS TO THE PLANS BASED ON FIELD OBSERVATIONS.
2. FOR GEOWEB DITCH REVETMENT, PLACE AGGREGATE ROAD BASE IN CELLS IN THE ANCHOR TRENCH AND 2-IN D50 ROCK (3-IN. MAX) IN THE REMAINING CELLS WITHIN THE DITCH.

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

TYPICAL DITCH TYPES & ALLEY GRADING DETAILS

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DT-02
Date: 13-Oct-2025	
Scale: AS SHOWN	

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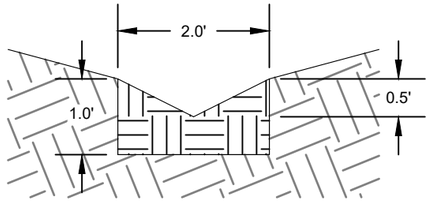
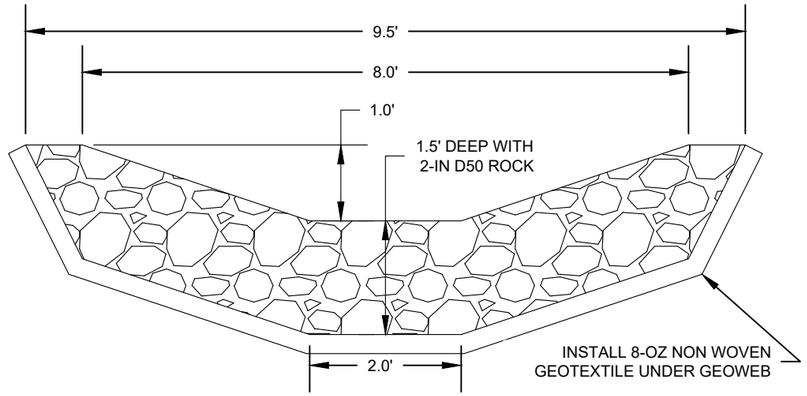
T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\Rico Stormwater Management System Details.dwg



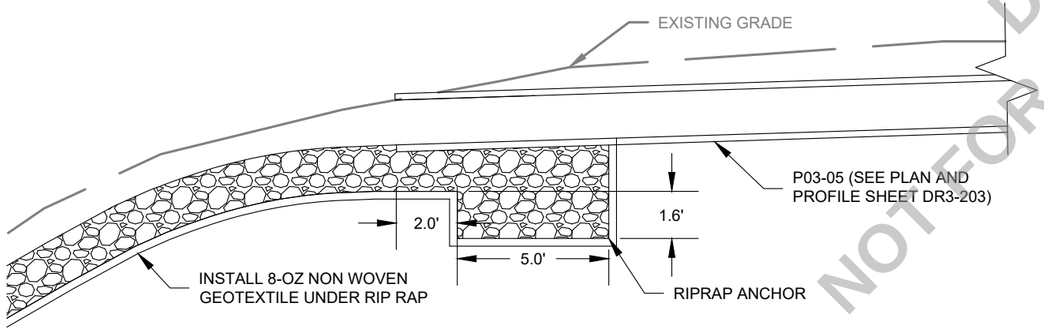
01 TYPE 6 TYPICAL 2 FT WIDE DITCH (18-IN DEPTH VEGETATIVE COVER) CROSS SECTION DETAIL

SCALE - N.T.S.



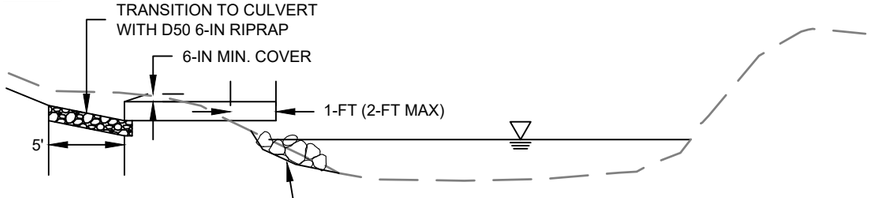
02 TYPE 7 ARGENTINE DOWN CHANNEL CROSS SECTION DETAIL

SCALE - N.T.S.



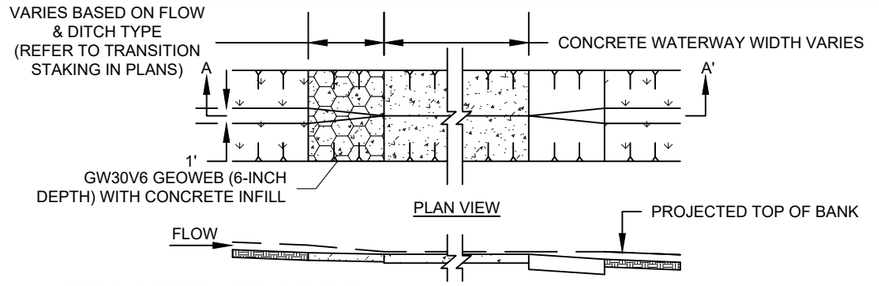
03 TYPE 7 ARGENTINE DOWN CHANNEL RIPRAP ANCHOR PROFILE DETAIL

SCALE - N.T.S.



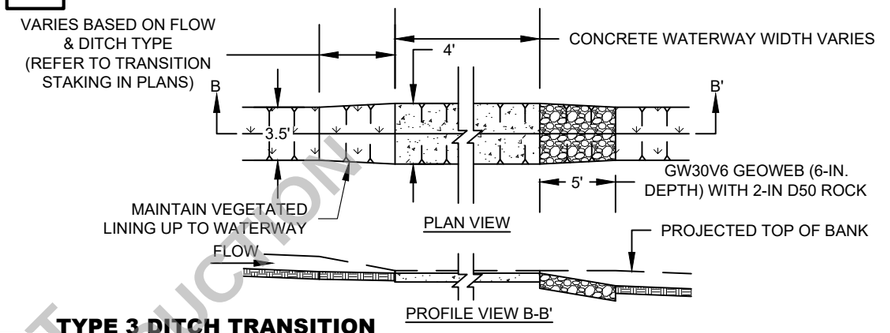
04 CULVERT TO RIVERS PROFILE DETAIL

SCALE - N.T.S.



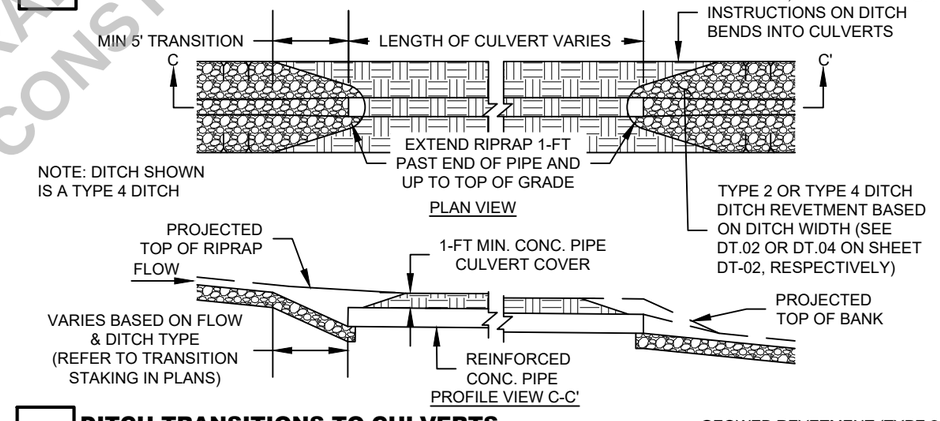
05 TYPE 1 DITCH TRANSITION TO 6-FT WIDE WATERWAYS

SCALE - N.T.S.



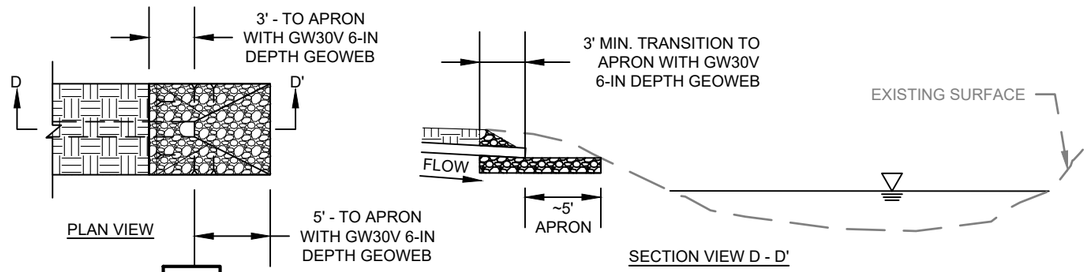
06 TYPE 3 DITCH TRANSITION TO 4-FT WIDE WATERWAYS

SCALE - N.T.S.



07 DITCH TRANSITIONS TO CULVERTS

SCALE - N.T.S.



08 PIPE APRON TRANSITION TO RIVERS

SCALE - N.T.S.

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General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

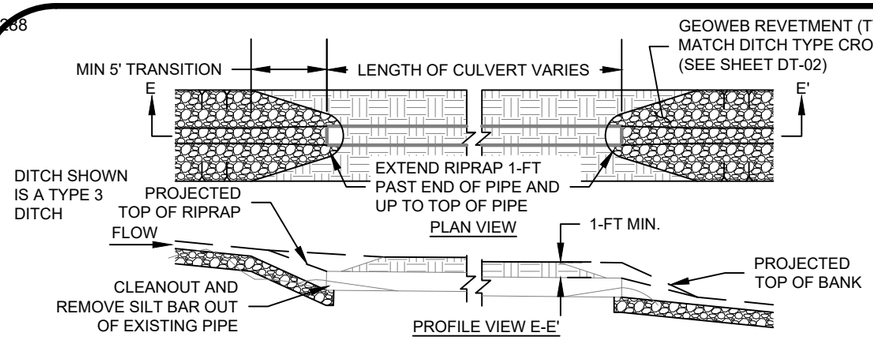
TYPICAL DITCH TYPE 6 & 7 AND DITCH TRANSITION DETAILS

RICO, COLORADO

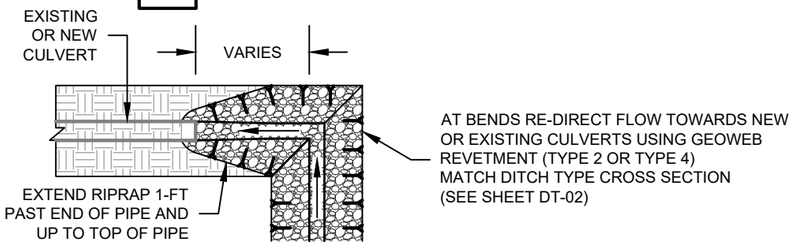
DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DT-03
Date: 13-Oct-2025	
Scale: N.T.S.	

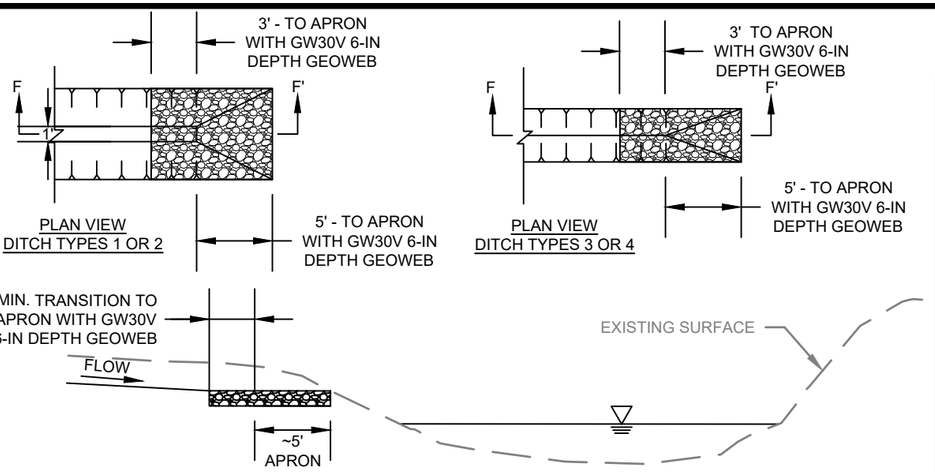
T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\Rico Stormwater Management System Details.dwg



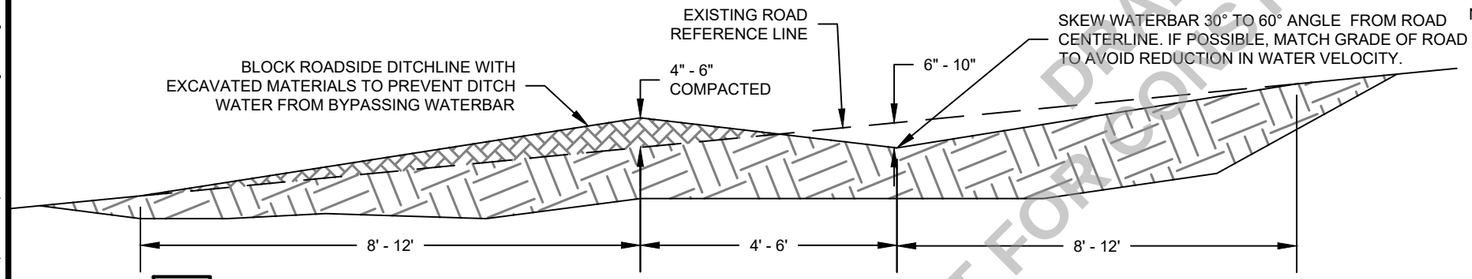
01 CLEANOUT OF EXISTING CULVERTS
SCALE - N.T.S.



03 DITCH BENDS INTO EXISTING OR NEW CULVERTS PLAN VIEW
SCALE - N.T.S.

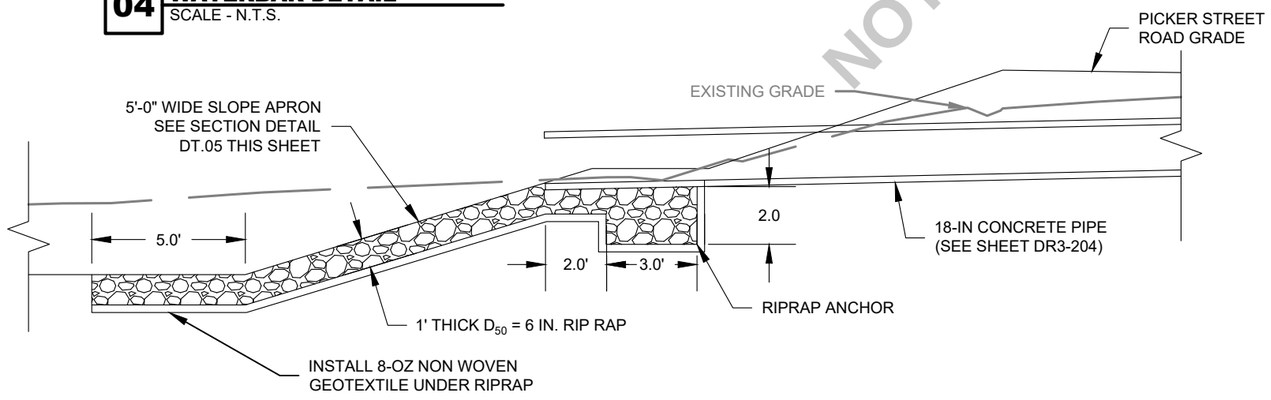


02 DITCH APRON TRANSITION TO RIVERS
SCALE - N.T.S.

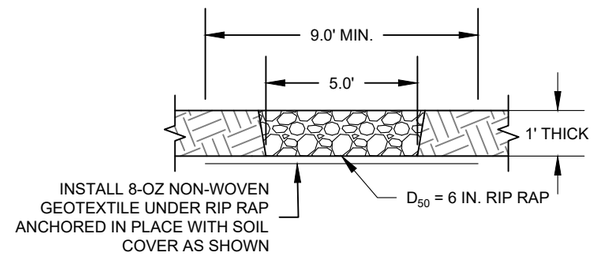


04 WATERBAR DETAIL
SCALE - N.T.S.

NOTES:
1. WATER BARS THAT CUT THROUGH THE AGGREGATE BASE OF THE ROAD AND REACH EROSIVE SOILS NEED TO HAVE AGGREGATE SURFACING BLADED BACK INTO THE WATER BAR CHANNEL.
2. INTERCEPT DITCH WATER BY INCLUDING A DITCH BLOCK DURING CONSTRUCTION OF ALL WATER BARS. IT IS ACCEPTABLE TO HAVE PONDING OF WATER IN THE DITCH LINE WHERE ROADSIDE DITCHES ARE DEEPER THAN THE WATER BAR.
3. CONSTRUCT WITH A 30 TO 60 DEGREE ANGLE FROM ROAD CENTERLINE. THIS FACILITATES EASIER TRAVEL BY VEHICLES AND AN INCREASED WATER RUN OFF SLOPE.
4. CONSTRUCTION DIMENSION FOR A WATER BAR ARE SHOWN AS TYPICAL. FOR ROAD GRADES OVER 10% THE CUT DEPTH AND BERM HEIGHT SHOULD APPROACH MAXIMUM VALUES.



05 5-FT. WIDE PRO-PATRIA EXPANSION BASIN SLOPE PROTECTION APRON PROFILE VIEW DETAIL
SCALE - N.T.S.



06 5-FT. WIDE PRO PATRIA EXPASION BASIN SLOPE PROTECTION APRON SECTION VIEW DETAIL
SCALE - N.T.S.

DRAFT
NOT FOR CONSTRUCTION

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

EXISTING STORMDRAINS, DITCH APRONS & WATERBAR DETAILS

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DT-04
Date: 13-Oct-2025	
Scale: N.T.S.	

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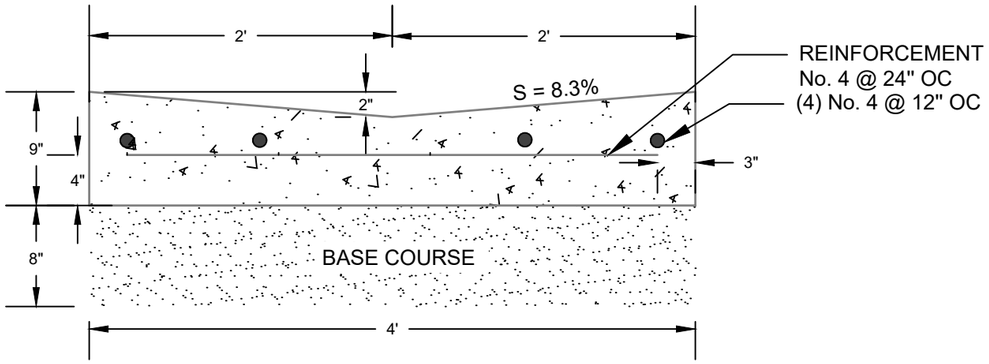
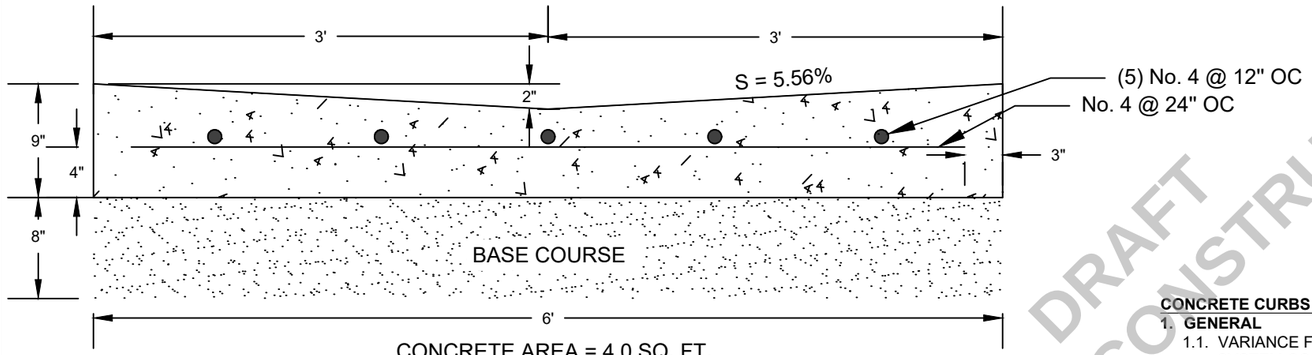


CONCRETE AREA = 2.667 SQ. FT.

01 4'-0" CONCRETE WATERWAY
SCALE - 1' = 1'



CONCRETE AREA = 4.0 SQ. FT.

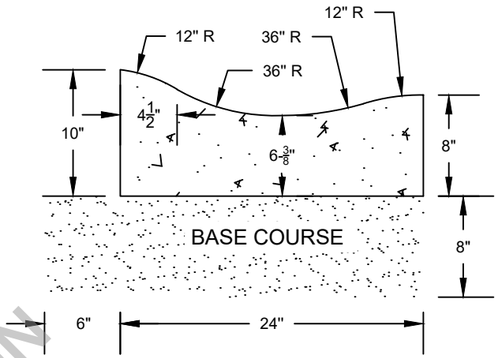
02 6'-0" CONCRETE WATERWAY
SCALE - 1' = 1'

CONCRETE WATERWAYS SPECIFICATION NOTES

1. GENERAL
- 1.1. VARIANCE FROM SPECIFIED DIMENSIONS AND SLOPES MUST BE ACCEPTABLE TO THE ENGINEER. SYSTEM CONFIGURATION MAY BE CHANGED AT ENGINEER'S DISCRETION.
- 1.2. ADDITIONAL REQUIREMENTS ARE SPECIFIED PER SPECIFICATION SECTION 03055.

2. PRODUCTS
- 2.1. BASE COURSE: CDOT TYPE 6, SPECIFICATION SECTION 02721. DO NOT USE GRAVEL AS A BASE COURSE WITHOUT ENGINEER'S PERMISSION.
- 2.2. EXPANSION JOINT FILLER: 1/2-INCH THICK TYPE F1 FULL DEPTH, SPECIFICATION SECTION 02776.
- 2.3. CONCRETE: CLASS B: 4,500 PSI COMPRESSIVE STRENGTH, PER SPECIFICATION SECTION 03055. IF NECESSARY, PROVIDE CONCRETE THAT ACHIEVES DESIGN STRENGTH IN LESS THAN 7 DAYS. USE CAUTION; HOWEVER, AS CONCRETE CRAZING (SPIDER CRACKS) MAY DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
- 2.4. REINFORCEMENT: GALVANIZED OR EPOXY COATED, DEFORMED, 60 KSI YIELD GRADE STEEL, ASTM A615.
- 2.5. CONCRETE CURING AGENT: CLEAR MEMBRANE FORMING COMPOUND WITH FUGITIVE DYE (TYPE ID CLASS A), SPECIFICATION SECTION 03390.

3. EXECUTION
- 3.1. BASE COURSE PLACEMENT: CDOT TYPE 6 BASE COURSE, SPECIFICATION SECTION 02721. THICKNESS IS 8-INCHES IF FLOW-LINE GRADE IS 0.5 PERCENT (S=0.005) OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8-INCHES WHEN USING RIDING EQUIPMENT OR 6-INCHES WHEN USING HAND HELD EQUIPMENT. COMPACTION IS 95 PERCENT OR GREATER RELATIVE TO A MODIFIED PROCTOR DENSITY, SPECIFICATION SECTION 02721.
- 3.2. CONCRETE PLACEMENT: SPECIFICATION SECTION 02776.
  - 3.2.1. PRE-CAST BY SELF-CONSOLIDATING CONCRETE FRAMING.
  - 3.2.2. APPLY A BROOM FINISH. APPLY A CURING AGENT.
  - 3.2.3. PRE-CAST SECTIONS SHALL HAVE No. 4 DOWEL END CONNECTIONS MATCHING THE SPACINGS SHOWN IN DETAILS 01 AND 02, ABOVE. DRILL AND INSTALL WITH EPOXY RESIN ADHESIVE (REFER TO AASHTO M 235).
  - 3.2.4. CAST-IN-PLACE SECTIONS SHALL HAVE DOWEL END CONNECTIONS INTO PRECAST SECTIONS FOR STRUCTURAL STABILITY AND PLACE CONCRETE PER SPECIFICATION SECTION 03055.
- 3.3. PROTECTION AND REPAIR: PROTECT CONCRETE FROM DEICING CHEMICALS DURING CURE. REPAIR CONSTRUCTION THAT DOES NOT DRAIN. IF NECESSARY, FILL FLOW-LINE WITH WATER TO VERIFY.



CONCRETE AREA = 1.254 SQ. FT.

03 APWA CURB & GUTTER - TYPE G
SCALE - 1' = 1'

CONCRETE CURBS SPECIFICATION NOTES

1. GENERAL
- 1.1. VARIANCE FROM SPECIFIED DIMENSIONS AND SLOPES MUST BE ACCEPTABLE TO THE FIELD ENGINEER. SYSTEM CONFIGURATION MAY BE CHANGED AT FIELD ENGINEER'S DISCRETION.
- 1.2. ADDITIONAL REQUIREMENTS ARE SPECIFIED IN APWA SECTION 32 16 13.

2. PRODUCTS
- 2.1. BASE COURSE: CDOT TYPE 6, SPECIFICATION SECTION 02721. DO NOT USE GRAVEL AS A BASE COURSE WITHOUT FIELD ENGINEER'S PERMISSION. EXPANSION JOINT FILLER: 1/2-INCH THICK TYPE F1 FULL DEPTH, SPECIFICATION SECTION 02776.
- 2.2. CONCRETE: CLASS B: 4,500 PSI COMPRESSIVE STRENGTH, PER SPECIFICATION SECTION 03055. IF NECESSARY, PROVIDE CONCRETE THAT ACHIEVES DESIGN STRENGTH IN LESS THAN 7 DAYS. USE CAUTION; HOWEVER, AS CONCRETE CRAZING (SPIDER CRACKS) MAY DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
- 2.3. CONCRETE CURING AGENT: CLEAR MEMBRANE FORMING COMPOUND WITH FUGITIVE DYE (TYPE ID CLASS A), SPECIFICATION SECTION 03390.

3. EXECUTION
- 3.1. BASE COURSE PLACEMENT: SPECIFICATION SECTION 02721. THICKNESS IS 8-INCHES IF FLOW-LINE GRADE IS 0.5 PERCENT (S=0.005) OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8-INCHES WHEN USING RIDING EQUIPMENT OR 6-INCHES WHEN USING HAND HELD EQUIPMENT. COMPACTION IS 95 PERCENT OR GREATER RELATIVE TO A MODIFIED PROCTOR DENSITY, SPECIFICATION SECTION 02075.
- 3.2. CONCRETE PLACEMENT: SPECIFICATION SECTION 03055.
  - 3.2.1. PRE-CAST BY SELF-CONSOLIDATING CONCRETE FRAMING.
  - 3.2.2. APPLY A BROOM FINISH. APPLY A CURING AGENT.
  - 3.2.3. CAST-IN-PLACE SECTIONS SHALL HAVE DOWEL END-CONNECTIONS INTO PRECAST SECTIONS FOR STRUCTURAL STABILITY AND PLACE CONCRETE PER SPECIFICATION SECTION 03055.
  - 3.2.4. INSTALL EXPANSION JOINTS VERTICAL, FULL DEPTH, WITH TOP OF FILLER SET FLUSH WITH CONCRETE SURFACE. INSTALL AT THE START OR END OF A STREET INTERSECTION CURB RETURN. EXPANSION JOINTS ARE NOT REQUIRED IN CONCRETE PLACEMENT USING SLIP-FORM CONSTRUCTION.
  - 3.2.5. INSTALL CONTRACTION JOINTS VERTICAL, 1/8-INCH WIDE OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8-INCHES THICK. MATCH JOINT LOCATION IN ADJACENT PORTLAND-CEMENT CONCRETE ROADWAY PAVEMENT.
  - 3.2.6. PROVIDE 1/2-INCH RADIUS EDGES. APPLY A BROOM FINISH. APPLY A CURING AGENT.
- 3.3. PROTECTION AND REPAIR: PROTECT CONCRETE FROM DEICING CHEMICALS DURING CURE. REPAIR CONSTRUCTION THAT DOES NOT DRAIN. IF NECESSARY, FILL FLOW-LINE WITH WATER TO VERIFY.

DRAFT
NOT FOR CONSTRUCTION

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO STORMWATER CONTROL PLAN (95%)

CONCRETE WATERWAY & APWA TYPE G CURB DETAILS

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DT-05
Date: 13-Oct-2025	
Scale: 1' = 1'	

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\Rico Stormwater Management System Details.dwg

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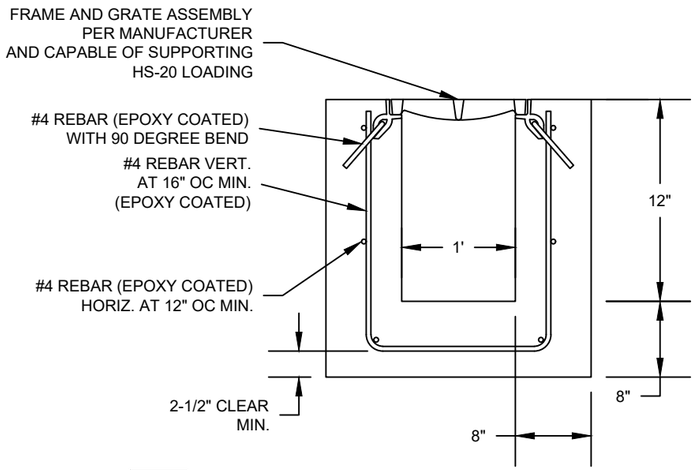
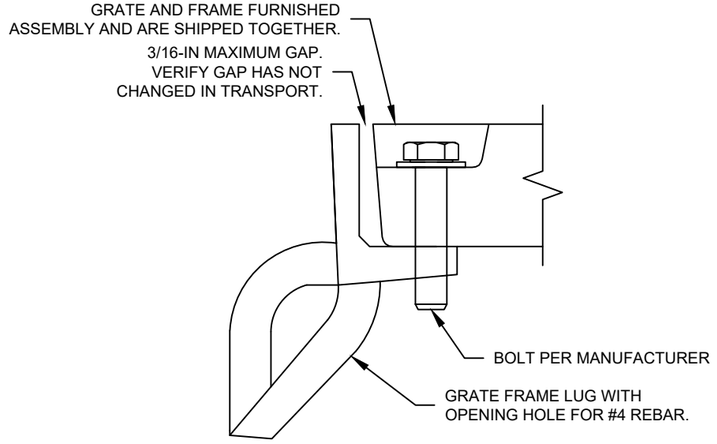
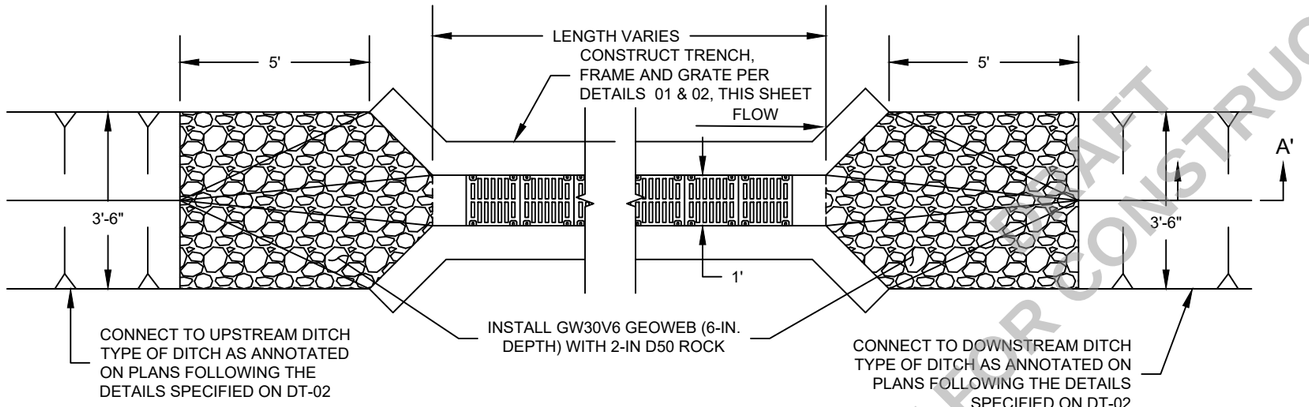


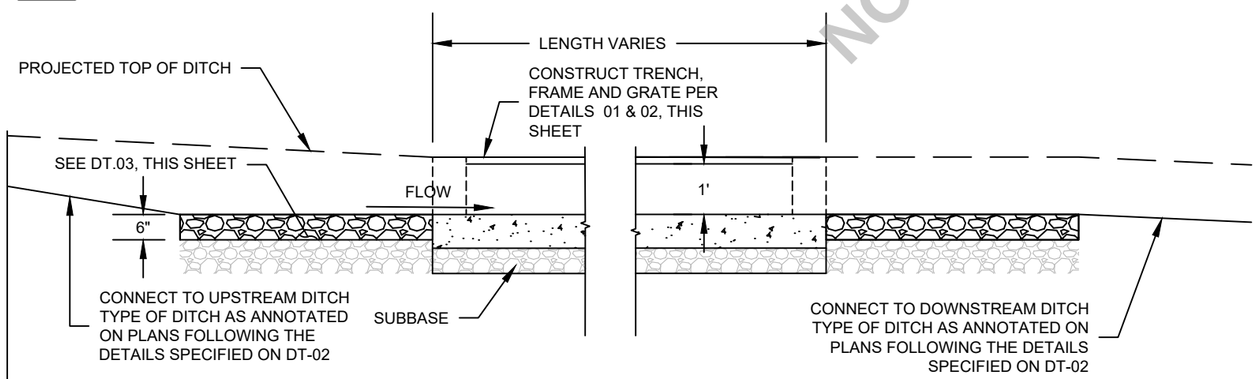
01 TYPICAL TRENCH CROSS SECTION
SCALE - N.T.S.



02 FRAME DETAIL SHOWING LUG
SCALE - N.T.S.



03 TRENCH PLAN VIEW
SCALE - N.T.S.



04 TRENCH PROFILE VIEW A-A'
SCALE - N.T.S.

TRENCH DRAIN SPECIFICATION NOTES

1. TRENCH DRAIN MAY BE USED TO COLLECT ROADWAY RUNOFF IN AREAS WHERE LONG SECTION OF FLAT PROFILE GRADE ARE UNAVOIDABLE. THEY MAY BE USED IN MEDIANS OR IN OTHER AREAS WHERE RUNOFF MAY COLLECT.
2. TRENCH DRAIN FRAMES SHALL BE PROVIDED WITH LUGS SPACED AT 12 INCHES ON CENTER. LUG TYPE MAY VARY BY MANUFACTURER. LUG SHALL BE PROVIDED WITH A HOLE THROUGH WHICH A #4 REBAR (EPOXY COATED), WITH A 90 DEGREE BEND, MAY BE PLACED PRIOR TO POURING THE TRENCH WALLS.
3. GRATES SHALL BE SOLIDLY ATTACHED TO THE TRENCH DRAIN FRAMES BY MEANS OF STAINLESS STEEL BOLTS (3/8-16 x 2-3/4 INCHES) AND FLAT WASHERS AT EACH CORNER OF THE GRATE.
4. THE GENERAL INSTALLATION PROCEDURE FOR CAST IN PLACE DRAINS SHALL BE AS FOLLOWS:
   - 4.1. SET REINFORCING STEEL.
   - 4.2. FORM AND POUR TRENCH DRAIN BASE.
   - 4.3. SET FORMS FOR TRENCH DRAIN WALLS.
   - 4.4. SET TRENCH GRATES AND FRAMES INTO PLACE ON THE FORMS. GRATES MUST BE BOLTED TO THE FRAMES. INSERT SHORT SECTIONS OF #4 REBAR (EPOXY COATED),WITH 90 DEGREE BEND, INTO THE FRAME LUGS
   - 4.5. POUR TRENCH DRAIN WALLS.
5. USE PRECAST TRENCH DRAIN SECTIONS WITH APPROVAL OF THE ENGINEER.
6. THE FOLLOWING MATERIAL PROPERTIES ARE REQUIRED FOR BOTH CAST-IN-PLACE AND PRECAST STRUCTURES:
   - 6.1. CONCRETE: f'c = 4,500 POUNDS PER SQUARE INCH AT 28 DAYS.
   - 6.2. REINFORCING STEEL: ASTM A615, Fy = 60,000 POUNDS PER SQUARE INCH.
   - 6.3. ALL REINFORCING STEEL TO BE EPOXY COATED.
   - 6.4. ALL REINFORCING IS TO BE INSTALLED AS DETAILED ON THIS DRAWING.

NOT FOR CONSTRUCTION
DRAFT

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL
PLAN (95%)

TRENCH DRAIN DETAILS

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DT-06
Date: 13-Oct-2025	
Scale: N.T.S.	

T:\BP--Rico VCUP_Unpaved Streets Capping and Drainage\5.0 Stormwater Management Plan\Production\Rico Stormwater Management System Details.dwg

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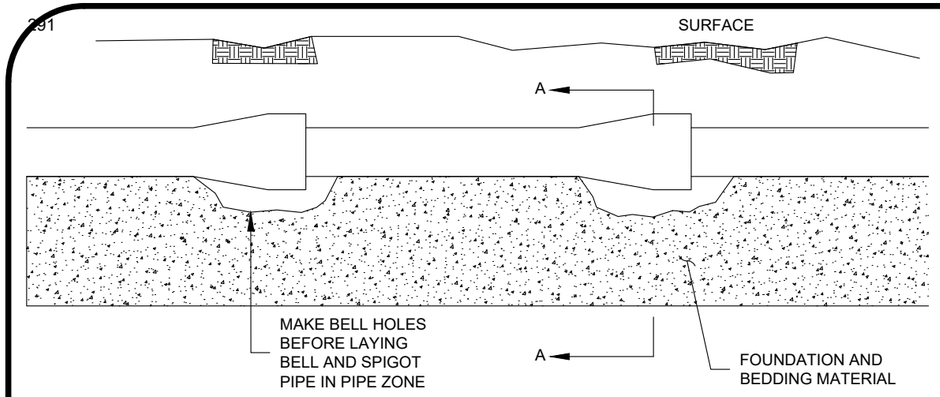

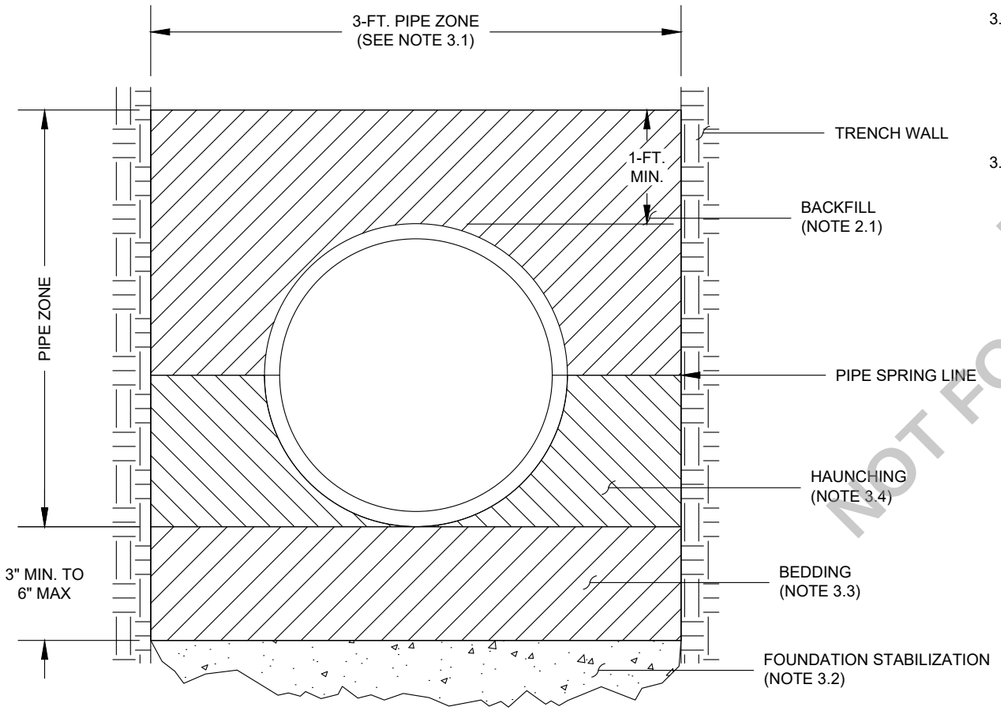

01 CULVERT INSTALLATION
SCALE - N.T.S.

CONCRETE PIPE INSTALLATION SPECIFICATION NOTES

1. **GENERAL**
   1.1. INSTALL THE PIPE IN THE CENTER OF THE TRENCH OR NO CLOSER THAN 6-INCHES FROM THE WALL OF THE PIPE TO THE WALL OF THE TRENCH.
2. **PRODUCTS**
   2.1. BEDDING MATERIAL: USE CDOT CLASS 1 OR CDOT CLASS 3 MATERIAL AS SPECIFIED IN SPECIFICATION 02056 BASED ON PRODUCT AVAILABILITY.
   2.2. BACKFILL: CDOT CLASS 2 (LOCAL MATERIAL WITH A MAXIMUM PARTICLES SIZE 2-INCHES) PLACED AND COMPACTED PER SPECIFICATION 02056 AROUND THE PIPE AND UP TO 12 IN. FROM THE TOP OF GRADE.
      2.2.1. CDOT CLASS 6 BASE COURSE MAY BE USED AS APPROVED BY THE QUALITY MANAGEMENT CONTRACTOR.
   2.1. AGGREGATE BASE COURSE BACKFILL: COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) CLASS 6 AGGREGATE BASE COURSE PLACED AND COMPACTED FOR THE TOP 12 INCHES.
      2.1.1. PLACE BASE COURSE IN 8-IN. MAX LOOSE LIFTS AND COMPACT IN PLACE TO 95% MAXIMUM DRY DENSITY (MODIFIED PROCTOR PER SPECIFICATION 02721).
3. **EXECUTION**
   3.1. EXCAVATE THE PIPE ZONE: WIDTH IS MEASURED AT THE PIPE SPRING LINE AND INCLUDES ANY NECESSARY SHEATHING. PROVIDE WIDTH RECOMMENDED BY PIPE MANUFACTURER. FOLLOW MANUFACTURER'S RECOMMENDATIONS WHEN USING TRENCH BOXES.
   3.2. FOUNDATION STABILIZATION: GET ENGINEER'S PERMISSION BEFORE INSTALLING COMMON FILL. VIBRATE TO STABILIZE. INSTALLATION OF STABILIZATION-SEPARATION GEOTEXTILE WILL BE REQUIRED TO SEPARATE BACKFILL MATERIAL AND NATIVE SUBGRADE MATERIALS IF COMMON FILL CANNOT PROVIDE A WORKING SURFACE OR PREVENT SOILS MIGRATION.
   3.3. BEDDING: FOLLOW SPECIFICATION SECTION 02056 REQUIREMENTS AND THE FOLLOWING PROVISIONS.
      3.3.1. FURNISH CLASS 1, CLASS 3, OR AS APPROVED CLASS 6 MATERIAL UNLESS SPECIFIED OTHERWISE BY PIPE MANUFACTURER AND APPROVED BY THE QMC CONTRACTOR.
      3.3.2. MAXIMUM LIFT THICKNESS IS 6-INCHES.
      3.3.3. BEDDING IMMEDIATELY UNDER THE PIPE SHOULD NOT BE COMPACTED, BUT LOOSELY PLACED.
   3.4. PIPE ZONE: DO NOT USE SEWER ROCK, PEA GRAVEL, OR RECYCLED RAP AGGREGATE IN THE PIPE ZONE. WATER JETTING IS NOT ALLOWED.
      3.4.1. MAXIMUM LIFT THICKNESS IS 8-INCHES BEFORE COMPACTION. REFER TO SPECIFICATION SECTION 02056, PART 3.6 FOR DRAINAGE PIPE BACKFILL REQUIREMENTS.
      3.4.2. SUBMISSION OF QUALITY CONTROL COMPACTION TEST RESULTS DATA DEVELOPED FOR THE HAUNCH ZONE MAY BE REQUESTED BY ENGINEER AT ANY TIME. CONTRACTOR IS TO PROVIDE RESULTS OF TESTS IMMEDIATELY UPON REQUEST.
   3.5. FLOWABLE FILL (WHEN REQUIRED AND IF ALLOWED BY PIPE MANUFACTURER):
      3.5.1. PLACE THE CONTROLLED LOW STRENGTH MATERIAL, SPECIFICATION SECTION 03575.
      3.5.2. PREVENT PIPE FLOTATION BY INSTALLING IN LIFTS AND PROVIDING PIPE RESTRAINTS AS REQUIRED BY PIPE MANUFACTURER.
      3.5.3. RESET PIPE TO LINE AND GRADE IF PIPE "FLOATS" OUT OF POSITION.

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T:\BP--Rico VCUP_Unpaved Streets Capping and Drainage\6.0 Stormwater Management Plan\Production\Rico Stormwater Management System Details.dwg

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

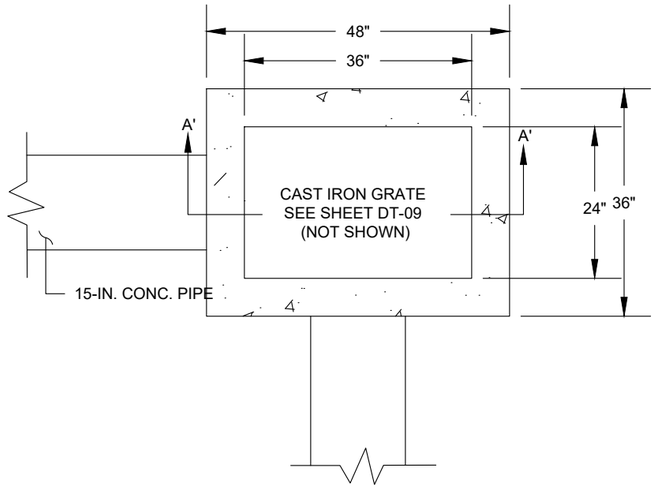
TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

CONCRETE PIPE INSTALLATION DETAILS

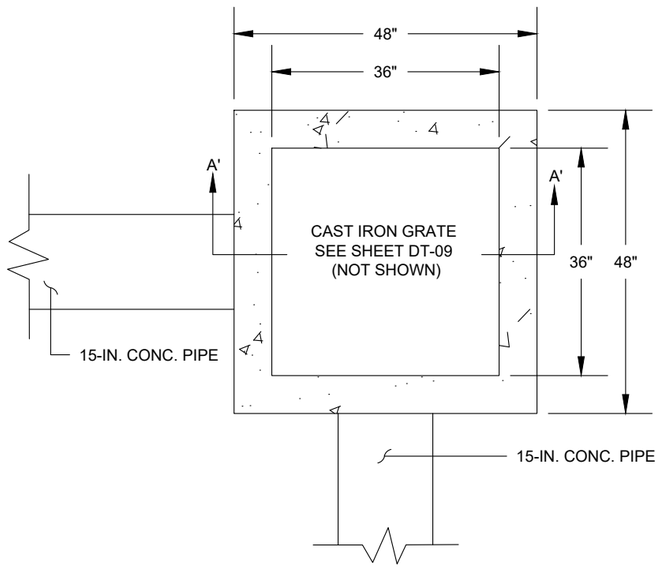
RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

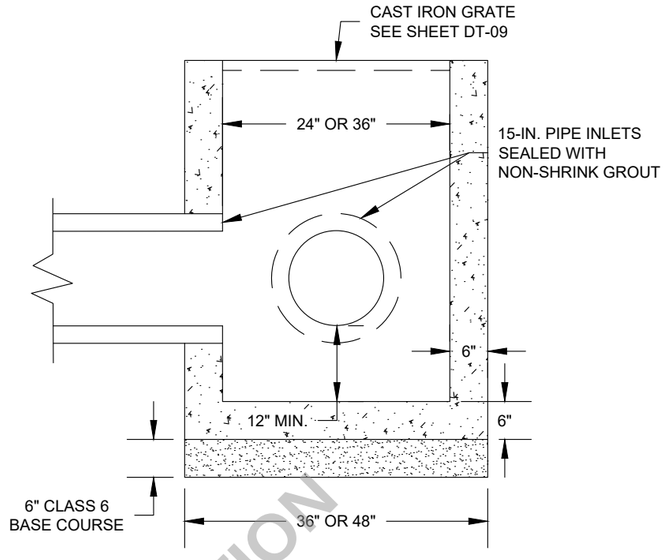
Project: RICO	Sheet: DT-07
Date: 13-Oct-2025	
Scale: N.T.S.	



01 CATCH BASIN 24"X36"
PLAN VIEW
SCALE - 1" = 2'



02 CATCH BASIN 36"X36"
PLAN VIEW
SCALE - 1" = 2'



03 36"X36" OR 24"X36" CATCH BASIN
SECTION A-A VIEW
SCALE - 1" = 2'

DRAFT
NOT FOR CONSTRUCTION

GENERAL CATCH BASIN INSTALLATION NOTES

1. **GENERAL**
   1.1. THE DETAILS SHOWN ON THIS SHEET REPRESENT TYPICAL PIPE CONNECTIONS. REFER TO CONSTRUCTION DRAWINGS FOR CONNECTION LOCATIONS OR REFER TO FIELD LOCATION OF EXISTING PIPING WHEN ENGINEERING PIPE CONNECTION TO THE BOX.
2. **PRODUCTS**
   2.1. BASE COURSE: COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) CLASS 6 AGGREGATE BASE COURSE PLACED AND COMPACTED FOR THE TOP 12 INCHES.
   2.2. BACKFILL: CDOT CLASS 2 (LOCAL MATERIAL WITH A MAXIMUM PARTICLES SIZE 2-INCHES) PLACED AROUND THE PIPE AND UP TO 12 IN. FROM TOP OF GRADE.
   2.3. BEDDING MATERIAL SPECIFICATION SECTION 02056: CDOT CLASS 1 OR CDOT CLASS 3 MATERIAL BASED ON PRODUCT AVAILABILITY.
      2.3.1. CDOT CLASS 6 BASE COURSE MAY BE USED AS APPROVED BY THE QUALITY MANAGEMENT CONTRACTOR.
   2.4. CONCRETE: CLASS D, 4,500 PSI PER SECTION 03055.
   2.5. REINFORCEMENT: DEFORMED, 60 KSI YIELD GRADE STEEL, ASTM A615.
3. **EXECUTION**
   3.1. BASE COURSE PLACEMENT: SPECIFICATION SECTION 02721. MAXIMUM LIFT THICKNESS IS 8-INCHES BEFORE COMPACTION. COMPACTION IS 95 PERCENT OR GREATER RELATIVE TO A MODIFIED PROCTOR DENSITY.
   3.2. CURB FACE OPENING: NO CURB FACE OPENINGS REQUIRED FOR THIS JOB. REFER TO SHEET DT-09 FOR CATCH BASIN INLET AND GRATE INFORMATION.
   3.3. PROVIDE PRECAST CONCRETE STRUCTURES WITH COLLARS TO MATCH HEIGHTS WITHIN 6-INCH INCREMENTS AS SPECIFIED ON PLANS.
   3.4. BACKFILL: PLACE BACKFILL AGAINST THE BASIN WALL. PEA GRAVEL AND RECYCLED RAP AGGREGATE IS NOT ALLOWED. WATER JETTING IS NOT ALLOWED. MAXIMUM LIFT THICKNESS IS 8-INCHES BEFORE COMPACTION. COMPACTION IS 95 PERCENT OR GREATER RELATIVE TO A MODIFIED PROCTOR DENSITY, SPECIFICATION SECTION 02056, PART 3.4 CLEAN FILL BORROW PLACEMENT.

General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

CATCH BASIN INSTALLATION DETAILS

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DT-08
Date: 13-Oct-2025	
Scale: 1" = 2'	

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293

Heavy Duty Grate :

V5736 or Equal
Weight : 470 Lbs.

6" Riser W/ Frame

Weight : 525 Lbs.

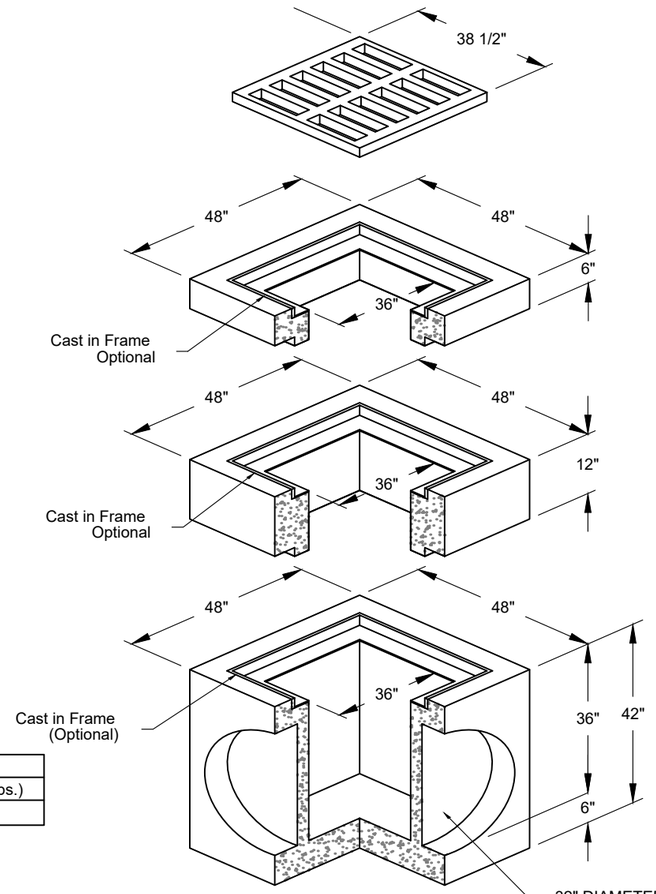
12" Riser

Weight : 1,050 Lbs.

Bottom :

Weight : See Chart

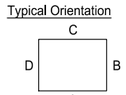
Bottom	
Wall(s)	Weight (Lbs.)
4-Way	3,240

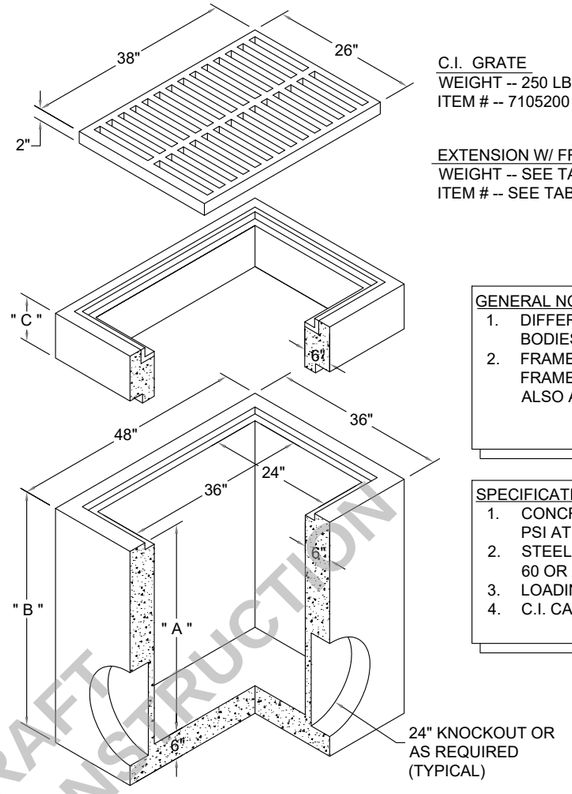


Notes :

1. Bedding Shall be 6" Cement Stabilized Sand or Select Material.

Typical Orientation





24" KNOCKOUT OR
AS REQUIRED
(TYPICAL)

C.I. GRATE
WEIGHT -- 250 LBS.
ITEM # -- 7105200

BODY
WEIGHT -- SEE TABLE
ITEM # -- SEE TABLE

EXTENSION W/ FRAME
WEIGHT -- SEE TABLE
ITEM # -- SEE TABLE

GENERAL NOTES:

1. DIFFERENT HEIGHT OF EXTENSIONS AND BODIES ARE AVAILABLE BY REQUEST
2. FRAMES MAY BE CASE IN EXTENSION OR BODY. FRAMES ARE CAST IRON OR STEEL. H10 GRATE ALSO AVAILABLE.

SPECIFICATIONS:

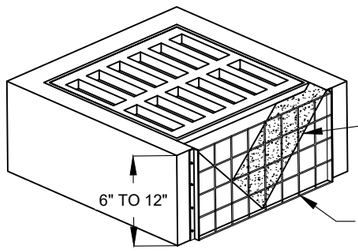
1. CONCRETE HAS A DESIGN STRENGTH OF 5000 PSI AT 28 DAYS.
2. STEEL REINFORCEMENT: ASTM A-615 GRADE 60 OR ASTM A-497 WELDED WIRE FABRIC.
3. LOADING: DESIGNED FOR H20 LOADING.
4. C.I. CASTING: ASTM A-48, CLASS 30/35.

EXTENSION W/ FRAME		
C	WEIGHT	ITEM #
12"	900 LBS.	1202940
18"	1350 LBS.	1202960

BODY W/ FRAME			
A	B	WEIGHT	ITEM #
12"	18"	1800 LBS.	1202920
24"	30"	2700 LBS.	1202980
30"	36"	3150 LBS.	1203020
36"	42"	3600 LBS.	1203100
42"	48"	4050 LBS.	1203140
60"	66"	5400 LBS.	1203220

01 **36"X36" CATCH BASIN STANDARD DRAWING**
SCALE - N.T.S.

02 **24"X36" CATCH BASIN STANDARD DRAWING**
SCALE - N.T.S.



CUT A V-SHAPE HOLE INTO THE SIDE OF THE CATCH BASIN / RISER(S) TO MATCH THE DEPTH OF THE DITCH FOR DIRECT FLOW INTO THE CATCH BASIN

INSTALL AN ALUMINUM SQUARE TRASH SCREEN THAT OVERLAPS THE V-NOTCH

03 **CATCH BASIN SIDE INLET DETAIL ISOMETRIC VIEW**
SCALE - N.T.S.

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General Notes

No.	Revision/Issue	Date

TOWN OF RICO

ANDERSON ENGINEERING COMPANY INC.

TOWN OF RICO
STORMWATER CONTROL PLAN (95%)

CATCH BASIN DETAILS

RICO, COLORADO

DRAWN BY:	RSH
ENGINEER:	RSH
APPROVED:	JMD

Project: RICO	Sheet: DT-09
Date: 13-Oct-2025	
Scale: N.T.S.	

T:\BP-Rico VCUP_Unpaved Streets Capping and Drainage\5.8 Stormwater Management Plan\Production\Rico Stormwater Management System Details.dwg

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APPENDIX A

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Town Of Rico

Section 01100

Town of Rico Road Remediation and Stormwater Control System

Quality Management Plan

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October 2025

Contents

1 Introduction 1-1

1.1 Management Requirements 1-1

1.1.1 Organizational Chart 1-2

1.1.2 Roles and Responsibilities 1-2

1.2 Revisions 1-4

1.3 RFIs 1-4

2 Procurement of Materials 2-5

2.1 Town of Rico Furnished Materials 2-5

2.2 Contractor Furnished Materials 2-5

2.3 Material Submittal 2-6

2.4 Material Selection and Identification 2-7

2.5 Material Handling 2-7

2.6 Material Certifications 2-7

2.7 Material Samples 2-9

3 Survey Control 3-1

3.1 Survey Control Points 3-1

3.2 Construction Survey Quality Control 3-1

3.3 QMC Survey Quality Control 3-1

3.3.1 Construction/QMC Survey Coordination 3-2

3.3.2 Existing Utilities Locate 3-2

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3.3.3 Resolving Discrepancies 3-2
3.4 Documentation Surveys for Payment 3-2
3.4.1 Work in Progress Surveys 3-2
3.4.2 Work In-Place Determination 3-3
4 Construction Oversight General Requirements 4-1
4.1 Work Conditions 4-1
4.2 Quality Procedures 4-1
4.3 Pre-Activity Meetings 4-1
4.4 Acceptance Testing 4-2
4.5 Non-Conforming Work 4-2
4.5.1 Non-Conformance Reports 4-2
4.5.2 Non-Conformance Remediation 4-3
4.5.3 Removal of Work 4-3
4.6 Work Completion 4-3
5 Earthwork 5-5
5.1 Material Source Testing 5-5
5.1.1 Lead Content 5-5
5.1.2 Transport and Disposal of Excavated Soil 5-5
5.2 Clean Fill Placement 5-6
5.2.1 Subgrade Preparation 5-7
5.2.2 Impacted Soil Replacement 5-7
5.3 Road Regrading 5-7
6 Geotextiles 6-1

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6.1 General Geotextiles Requirements 6-1
6.2 Geotextile Installation 6-2
6.3 Subsurface Drainage Geotextile Installation 6-2
7 Erosion Control 7-1
7.1 Stone 7-1
7.1.1 Riprap Placement 7-2
Appendix A RFI Form

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1 Introduction

This Quality Management Plan (QMP) contains the quality processes and procedures that will be implemented for the construction of the Town of Rico Road Remediation and Stormwater Management System Project. The QMP provides information for the Town of Rico, the Construction Contractor (Contractor), and the Quality Management Contractor (QMC), necessary to ensure that the project is completed efficiently, effectively, and of the highest quality.

1.1 Management Requirements

This paragraph describes the quality management organization with specific quality management responsibilities. The organizational chart shows the project authority and reporting responsibilities for all project work. The chart identifies the name and position of each person proposed for a quality management function, with the subsequent paragraph discussing various roles and responsibilities in greater detail.

The persons and/or organizations performing quality management functions have sufficient authority and organizational freedom to identify quality problems and to recommend, provide, and verify implementation of solutions. Quality management personnel are at an organizational level high enough to ensure that project schedule, performance, or cost will not influence the implementation of quality management.

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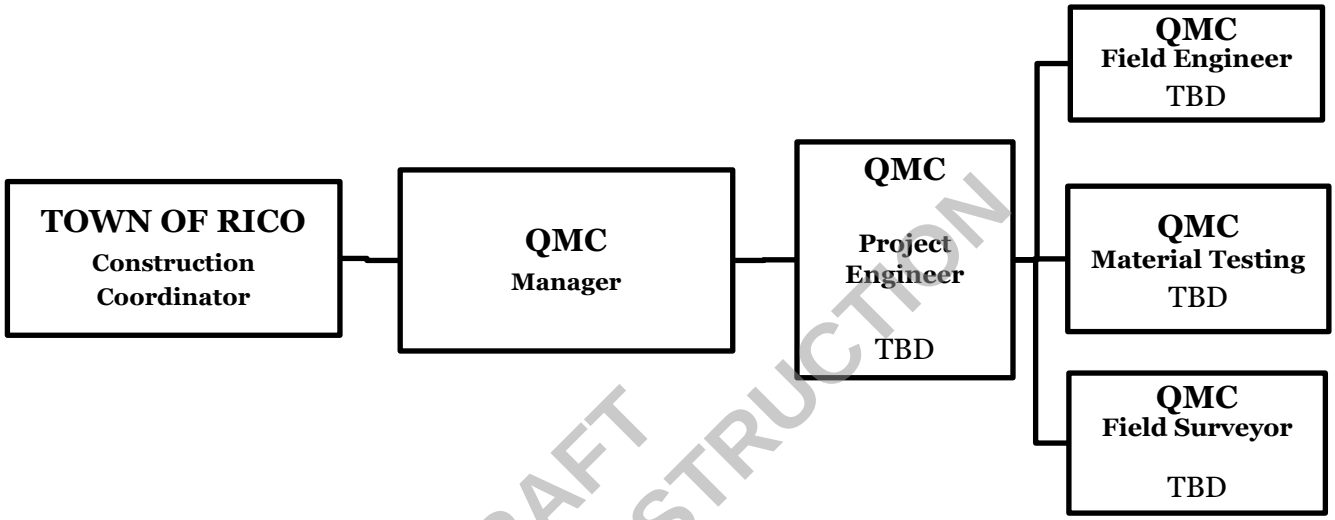
1.1.1 Organizational Chart



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1.1.2 Roles and Responsibilities

This paragraph describes the QMC roles and responsibilities under the direction of the Town of Rico Construction Coordinator.

QMC Manager: The QMC Manager, as directed by the Town of Rico Construction Coordinator, is responsible for organizing and coordinating work items performed by the Construction Contractor and other QMC personnel. Additional responsibilities of the QMC Manager or his designated field engineer are as follows:

1. Approve daily work activities and issue daily work permits.

2. QMC Manager is responsible for collecting timecards from the contractor and reviewing these with the Town of Rico.
3. Coordinate scope tasks in relation to plans, specifications, and construction schedule.
4. Coordinate planning and inspection, by the QMC Material Testing and QMC Field Surveyor, of work in progress and/or completed by the Construction Contractor.

QMC Project Engineer: The QMC Project Engineer is responsible for coordinating QMC Field Engineer and QMC Field Surveyor work as directed by the Town of Rico Project Manager and Construction Coordinator.

Additional responsibilities of the QMC Project Engineer are as follows:

1. Coordinate and approve scope changes in relation to plans, specifications, and construction schedule.
2. Work with the Town of Rico representative to interpret project design for field implementation and revise project design as field conditions change.
3. Coordinate QMC activities to ensure constructed improvements meet line, grade and quality as defined by construction documents.
4. Act as the point of communication for working with the design team.
5. Provide daily work progress report of work completed to the Town of Rico.

QMC Field Engineer: The QMC Field Engineer is responsible for the verification of materials and quality of work performed by the Construction Contractor as outlined in this plan and to provide all daily work progress reports to the QMC Project Engineer. The QMC Field Engineer also reviews and uploads to the project database daily work progress reports; including but not limited to: sample logs, photo logs, moisture-density report logs, etc.

QMC Field Surveyor: The QMC Field Surveyor is responsible for establishing construction control points throughout the project for utilization by the Contractor's surveyor for setting lines and grades. In addition to establishing control points, the QMC Field Surveyor is responsible for conducting control survey checks as required to assure and verify that the construction is proceeding in accordance with the approved plans, and to conduct quantity surveys.

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1.2 Revisions

Revisions to this plan are made on a per-page basis as necessary to clarify, refine, or adapt the plan for the new or changed process or procedure. Each revised page will have a revision number and date in the lower left corner. All manual revisions are recorded below by number and date and are distributed to all manual holders of record, after approval by the Town of Rico.

Revision	Revision Date	Affected Pages

1.3 RFIs

The Request for Information (RFI) form is critical to the organized execution of the project. The purpose of the RFI is to provide a formal and documented means for the Contractor to seek clarification about the project. The formal documentation helps to ensure that communications are clearly understood by all stakeholders and helps to protect the interests of all parties. See Appendix C for the Town of Rico RFI form.

Situations in which the use of the RFI is required includes, but is not limited to, clarifications about the design, design modification requests, proposed schedule changes, etc. The process for utilizing the RFI is as follows: A Contractor designee will electronically submit a completed Town of Rico RFI form to the QMC Project Engineer, and the QMC Project Engineer is responsible to review RFIs with the Town of Rico Project Management Team. Once the RFI has been answered by the appropriate persons, the document will be signed by the QMC Project Manager and returned electronically to the Contractor designee. When submitting RFIs, the Contractor must allow a minimum of two days for RFI issues to be answered adequately and to coordinate responses internally, knowing the intent of the QMC Project Engineer is to answer RFIs as soon as possible. Once the signed RFI has been returned to the Contractor designee, the Contractor should retain the RFI for their records for the duration of the project.

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2 Procurement of Materials

Materials to be used for the Town of Rico Stormwater Management System must meet the quality requirements set forth in the Project Specifications. The following paragraphs detail the procedures to ensure that the materials meet the criteria.

2.1 Town of Rico Furnished Materials

The anticipated Town of Rico furnished materials include:

1. Construction Water to provide up to 15,000 gallons a day from hydrant.
2. Secondary water source: Town of Rico has water rights to pump water from the Dolores River. The Contractor shall provide pumping equipment and document the quantity of pumped water per day and report to the Town of Rico. The Town of Rico will report the quantity of water pumped to the state of Colorado.
3. Construction laydown area: Atlantic Richfield recommends Dave Bulson's property at the turnout to the SLT site for equipment and construction material. Equipment shall be verified clean prior being brought to the laydown area per Specification 01286 – Decontamination of Equipment and Specification 01355 – Environmental Compliance.

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2.2 Contractor Furnished Materials

Contractor furnished materials include the following:

1. Temporary Environmental Controls (Section 01571)
2. Geotextile (Section 02075)
3. GW30V6 Geoweb 6-inch Depth (Section 03132)
4. Loose and Confined Riprap (Section 02373)
5. Seed (Section 02922)
6. Portland Cement Concrete (Section 03055)
7. Reinforced Concrete Pipe (Section 02610)
8. Borrow and Backfill Material (Section 02056)

Contractor's responsibilities for material use are:

1. Determine the amount of equipment and work required to produce materials meeting the specifications using these sources.
2. Perform required quality tests using a qualified laboratory. Submit copies of test reports to the Town of Rico.
3. Upon submittal, the Town of Rico will review and either authorize the use of the material or require additional samples for inspection and testing. Final approval of the material will be based on methodology and final placement. The Contractor continues to be responsible for meeting all requirements associated with its use, including maintaining a consistent product, processing to meet specific gradation and moisture requirements, placement according to specifications, etc.

The contractor shall select materials which meet the contract specifications and the materials' specific intended purpose. Where appropriate, the materials will be selected from pre-approved suppliers. When this is not possible, the Contractor will work with the Town of Rico to obtain approval of the proposed supplier through the standard submittal process. The contractor is responsible for starting the material procurement process in a timely manner to ensure the materials are on-site as needed to meet the project schedule. No Contractor furnished materials shall be brought to the site prior to receiving Town of Rico approval (see paragraphs 2.3 and 2.4 below). No materials are to be brought on-site that are not intended for use on the project.

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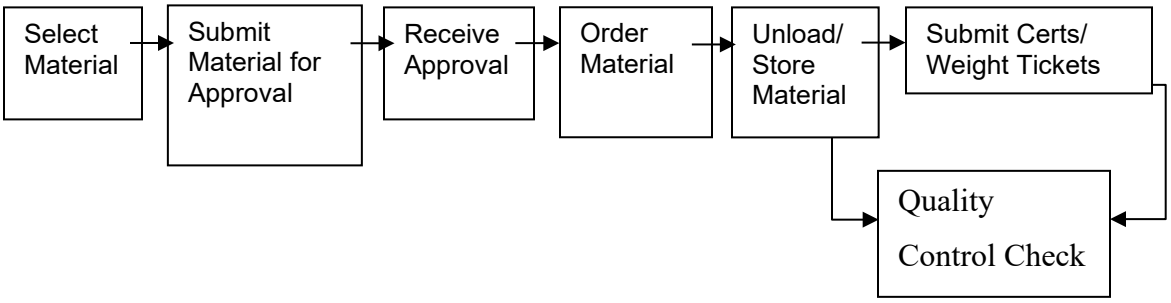
2.3 Material Submittal

Provide procurement material submittals for approval to the QMC for all materials needed on the project. Obtain approval from the Town of Rico and the QMC for any deviation from material specified by the design prior to implementing any changes. A variance must be approved formally by the Town of Rico and the QMC and documented by an RFI. The material submittal will follow the submittal process as outlined in the following flow chart and will have a submittal cover sheet to allow tracking. Include all product data (technical sheets, aggregate quality and gradation certifications, SDS sheets, etc.) and material supplier information, with each submittal, for the Town of Rico and QMC review.



2.4 Material Selection and Identification

QMC shall inspect Contractor furnished materials upon delivery to ensure the product is as specified in the contract and as per Contractor submittal. The QMC shall make note of the product delivery and initial inspection on an Inspection and Test Plan sheet (see paragraph 4.2). Any material not meeting the contract requirements will be rejected. Unacceptable materials should be immediately removed from the project site by the Contractor unless defects are corrected and approved by the Town of Rico and the QMC. Unacceptable materials shall be isolated away from other acceptable materials.

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2.5 Material Handling

The Contractor is responsible for protecting materials against damage from careless handling, exposure to weather, mixing with foreign matter, and all other causes. All materials are to be stored per the manufacturer's recommendations and specifications. On-site storage areas will be designated by the Town of Rico. Materials shall be stored in such a manner that they can easily be inspected and tested. The QMC will observe the storage sites and the stored materials for compliance with the manufacturer's recommendations and the project specifications. Additionally, the QMC will visually inspect materials for damage caused by improper storage or handling prior to incorporation into the project. For any material determined to be defective or damaged, the Contractor will take appropriate action to correct or remove the deficiency. Rejected material will be marked as REJECTED. Rejected materials are to be immediately removed from the site by the Contractor and disposed of according to applicable rules and regulations.

2.6 Material Certifications

The contractor will provide a copy of all material certifications, weight tickets, SDS sheets, load tickets and any other information received by the supplier to The Town of Rico once the material is unloaded on site. The contractor will store all of these in document control at the construction

field office. The SDS must be readily accessible by all in the construction field office. The SDS binder is to be kept current, by the Contractor, with all on-site Contractor materials.

Temporary Environmental Controls: Submit a product submittal form for approval to the QMC Project Engineering that includes product specification information and the planned use of the product prior to order and delivery. Upon delivery of a product, provide manufacturer certification of products for use as temporary environmental controls per Section 01571 and as shown on the Contractor created Stormwater Management Plan.

Geotextiles: Submit a product submittal form for approval to the QMC that includes Geotextile specification information and the planned use of the product prior to order and delivery. Upon delivery of a product, provide manufacturer certification for use as Separation and/or Stabilization Geotextile, and Geoweb Underlayment Geotextile per Section 02075.

Geoweb: Presto Geosystems evaluated the use of GW30V6 geoweb for the Type 2 and Type 4 Ditch Revetment. Any additional use will require approval using the RFI form through the submittal process specified in Part 1.3, above, and per the submittal requirements specified in Section 03132. Upon delivery of a product, provide manufacturer certification for use as Geoweb Revetment.

Loose and Confined Riprap/Rock: Submit a product submittal form for approval to the QMC Project Engineering prior to order and delivery. Upon delivery, provide material certifications for physical properties and gradation compliance as per Section 02373 every 450 CY thereafter initial delivery.

Seed: Submit a copy of the purchase order to the QMC Project Engineer as specified in Section 02922.

Portland Cement Concrete: For all non-precast concrete placement, provide reporting requirements found in Section 03055 for Class B concrete to the QMP Project Engineer for approval. For pre-cast concrete structures, provide the same information as for non-precast concrete placement along with manufacturer specification and certification documentation.

Reinforced Concrete Pipe: Provide manufacturer’s certificate of compliance, data sheets, and installation instructions to the QMP Project Engineer for approval as specified in Section 02610.

Borrow and Backfill Material: Per Specification 02056, provide before delivering the supplier and source of material, including gradation analysis results, and soil classification for off-site material, and provide the maximum dry density and optimum moisture determination for all soils used as structural backfill (before delivery for off-site soils and prior to use on-site developed material).

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2.7 Material Samples

The contractor will provide material samples or work with the QMC to take material samples, depending on the material. These material samples will be part of the acceptance testing for the project and the Contractor will ensure that there are representative samples of the material on site. Contractor will provide the QMC with an anticipated volume of material to be used and when it will be needed. Based on this information, the QMC will notify the Contractor of the number of samples needed for testing. Costs incurred by the Contractor for performing its responsibility to obtain, prepare, and deliver the required quality control samples to its testing lab, as well as to the QMC for testing are to be included in the unit cost for rock.

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3 Survey Control

The Contractor shall coordinate with the QMC throughout the project to ensure that work performed conforms with project controls, the construction plans and is within the tolerances established for completed work.

3.1 Survey Control Points

As part of the initial survey, the QMC Professional Surveyor has set construction control points throughout the project in locations where construction traffic and activities are anticipated to not disturb the control points. These points are to be used for construction staking. Survey is critical to the success of the project, thus the QMC will verify control points as required and provide control information to The Town of Rico and the Contractor. The Contractor should protect and preserve known property and survey marks, land monuments, and horizontal and vertical control points. Any time a control point appears to have been disturbed, the Contractor is responsible for resetting the construction control point and notify the QMC for verification of the work. If a project provided benchmark needs to be relocated for any reason, Contractor will notify the QMC prior to disturbing the benchmark so the point can be properly relocated by the QMC Professional Surveyor.

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3.2 Construction Survey Quality Control

The construction surveying, including setting grade stakes, is to be performed by the Contractor's survey crews. All survey crews are required to work under the direction of a Professional Land Surveyor and be knowledgeable with the equipment they are using and adhere to document control procedures to ensure use of the most current plan set. All survey calculations used for construction staking are to have a documented review by at least one other person who is familiar with industry standards, common practices and the area of work.

3.3 QMC Survey Quality Control

After construction has commenced, control survey checks will be performed by the Contractor as required to assure and verify that the construction is proceeding in accordance with the approved plans

3.3.1 Construction/QMC Survey Coordination

To ensure the effectiveness and timeliness of the survey verification process, the Contractor is responsible for keeping the QMC up to date on all construction staking activities. Notification may be provided to the QMC via phone conversations or emails. This coordination effort is essential for minimizing delays in construction activities.

3.3.2 Existing Utilities Locate

Prior to the commencement of work for each pay item, The Contractor shall field-verify the location of all utilities and identify potential utility conflicts prior to the commencement of work. If there are found utility conflicts, the Contractor shall notify the QMC to determine a solution prior to the commencement of work. Time required to resolve surveys will not be considered a Town of Rico caused delay in work.

3.3.3 Resolving Discrepancies

If errors are identified during the QMC field verification, the Contractor will be notified. The QMC and the Contractor will work together to resolve the discrepancy.

3.4 Documentation Surveys for Payment

Payment for completion of work will be based on work in place as approved by the QMC and the Construction Coordinator on the designated cut-off day for each pay period. Methods of payment will be as shown on the compensation schedule. The QMC may make periodic surveys of work completed to document progress as described below.

3.4.1 Work in Progress Surveys

The QMC will complete periodic field surveys of work in place in areas that the Contractor intends to include on progress payment requests. Surveys will be conducted by conventional GPS equipment, or other methods, as needed to document work in place, and shall be used as the baseline for payments.

1. For VCUP cleanup of roadways, the Contractor will submit to the area measurements to the QMC where 12 inches of material was removed, geotextile was placed on the subgrade (as a removal depth marker), and 12 inches of

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compacted Colorado Department of Transportation (CDOT) Class 6 aggregate base course is placed per plans and specifications. The QMC will complete an as-built survey for the completed remediation areas.

2. For ditches by type, concrete waterways by width, and pipes by size, the Contractor will complete a survey of length installed per the plans and specifications. The QMC will complete an as-built survey of completed drainage segments.

    a. The Contractor will measure the length of ditch aprons as part of the ditch length.

3. For concrete catch basins, the Contactor will document the station location, street and cross street names, and quantify as each. The QMC will complete an as-built survey of installed concrete catch basins.

3.4.2 Work In-Place Determination

The Contractor will provide the QMC the results of the field surveys. Using this information or information generated through these surveys, a progress quantity for volume, lengths, lump sum or each based measurement will be determined and submitted for payment. The neat line is defined as the design surface DTM. Tolerances allowed for QC purposes do not affect neat line quantities for payment (tolerances above the neat line will not be paid). In cases where a progress survey has not been conducted, a percentage of work completed may be agreed upon between the QMC and the Contractor for payment purposes.

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4 Construction Oversight General Requirements

4.1 Work Conditions

During construction, the Contractor is to provide safe access for inspection of the work by both The Town of Rico and the QMC. All representatives shall check-in with the Contractor prior to entering work areas so that potential hazards can be identified and communicated. All personnel working on the site shall comply with all applicable Federal, State and local laws governing safety, health and sanitation. The Contractor shall provide all safeguards, safety devices, lighting and protective equipment and any other actions necessary to comply with safe work requirements.

4.2 Quality Procedures

The Contractor is ultimately responsible for the quality of the work it performs; however, it is the responsibility of the QMC to document that the completed work meets the requirements of the project plans and specifications. The QMC will utilize electronic forms, project database and GIS mapping to verify that work elements have been accomplished and to document work quality. Prior to placement of new material, the Contractor must receive approval from the QMC to verify the suitability of material planned for use and to confirm that prerequisite work elements have been completed and documented correctly. The project database shall be available electronically at the construction field office to all authorized project stakeholders. All test results and submittal approvals shall be entered into the database within 24 hours of field testing, receiving analytical results, or submittal approval as applicable.

4.3 Pre-Activity Meetings

At the start of new work and as deemed necessary by any party, the Contractor is required to conduct pre-activity meetings that includes The Town of Rico and the QMC. These meetings should include discussion on applicable plans, specifications, testing, and inspections. During the meeting, verify the required documentation is on file so that work may commence or proceed. Planned work schedules and production rates will be discussed at weekly coordination meetings.

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Meetings to be attended by the Contractor Superintended and/or appointed Foreman, the QMC Field manager and/or appointed representative, and the Town of Rico Manager and/or appointed.

4.4 Acceptance Testing

The Contractor is responsible for process quality control of the work incorporated into the project. Acceptance samples and tests are conducted by the QMC and are used to determine the quality and acceptability of the materials to be incorporated into the project, as well as the workmanship performed on the project.

4.5 Non-Conforming Work

During construction and placement of materials, the QMC can reject workmanship or materials that are not in accordance with the approved drawings and specifications. The process below shall be followed for notification, remediation and documentation of non-conforming work or materials.

4.5.1 Non-Conformance Reports

Any work not meeting the plans, specifications and contract requirements is considered non-conforming. The QMC will work with the Town of Rico and the Contractor to resolve non-conforming work. If an agreed upon resolution and required results are not achieved, the QMC is responsible for preparing the Non-Conformance Report (NCR). The NCR must detail the area of the problem, and cite from the Contract Documents, how or why the work does not conform. Non-conforming areas will be discussed with the Contractor verbally, as soon as possible, and then followed up with a written NCR that will be available in the project database within 24 hours of identification.

The QMC will maintain a log of all NCRs and their resolutions. The QMC will number each NCR sequentially; provide a brief description and status of the nonconforming work and if the NCR has not been closed, an expected closure date. The Town of Rico will not grant Final Acceptance for any portion of Work that has an outstanding NCR.

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4.5.2 Non-Conformance Remediation

The NCR has several avenues for remediation depending on the nature of the problem. The Contractor may elect to remove, correct or request a design review of the nonconforming work. Remedial work shall be documented by the QMC and recorded in the project database. Remedial work shall continue until all work meets project quality requirements. After the remediation is completed, the QMC will also sign the NCR verifying that the remedial actions underwent the same level of inspection and testing as required for the original design. The NCR will then be forwarded to the Town of Rico for signature that they are in concurrence with the corrective action.

If a design review or modification is requested, the Contractor is responsible for providing detailed information and reimbursement for the design engineer's review. All design changes require approval of and shall be documented and stamped by the Colorado Licensed Professional Engineer designated as the Engineer of Record.

4.5.3 Removal of Work

The QMC reserves the right to direct the Contractor to remove and replace non-conforming work set forth in the NCR.

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4.6 Work Completion

When a work area is completed, the Contractor shall perform a walkthrough with the QMC. At the end of each construction season, the Contractor shall perform a walkthrough with the QMC and the Town of Rico representative of all work areas and the laydown area(s). The QMC will inspect and develop a punch list for the following:

- All temporary SWMP BMPs no longer required have been removed.
- All temporary SWMP BMPs to remain during the winter function in accordance with the SWMP.
- Debris has been collected from all work areas and the laydown area(s) and disposed of offsite.

- All completed work has been completed in accordance with the plans and specifications.

The final payment retention for a given construction season will be released once all punch list items are completed and verified by the QMC and approved by the Town of Rico.

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5 Earthwork

5.1 Material Source Testing

Prior to initiating soil remediation, suitable clean soil may be obtained from a material supplier, or alternatively, from another source (e.g., construction site in a nearby town or other existing soil stockpile), provided the source is suitable sampled and tested to confirm its suitability as clean cover soil. The QMC shall test borrow source material to confirm suitability for use in soil remediation as clean cover soil (soil with lead concentration less than 100 mg/kg).

5.1.1 Lead Content

The maximum lead concentration in clean cover soil obtained from a material supplier, or other source that is not the property being remediated, will be specified at 100 mg/kg (total lead, reported on a dry weight basis). The required frequency for sampling and analysis for lead concentration shall be at least one sample for every 200 cy of clean soil intended for use in soil remediation.

The QMC will test soil for lead as it is moved into the project area or to a stockpile located outside the project area. The volume transported will be tracked over time, and one soil sample will be collected for lead analysis for every 200-cy moved from the source area.

For existing stockpiles not previously tested for lead, the surface area of the pile will be subdivided using a systematic grid pattern, with the grid areas sized to cover an area that corresponds to a volume of approximately 200 cy. Within each grid area, three subsamples will be collected, each one from a depth of 0 to 12 inches below the existing surface, and these three aliquots will be composited into a single sample representing that 200 cy volume of soil.

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5.1.2 Transport and Disposal of Excavated Soil

Soil removed during road remediation will be hauled to the Rico Soil Lead Repository for permanent disposal. The repository was designed for disposal of soil containing elevated

lead concentrations. Materials other than soil (such as trees, shrubs, and rocks) are to be removed from loads before hauling excavated soil to the repository. Contractor will be responsible for disposal of non-soil materials excavated as part of the planned road remediation If the capacity of the existing Rico Soil Lead Repository is exhausted, AR will, in consultation with the Town, determine how to continue to manage such action-level soils and mine waste in accordance with applicable state and federal law, including expansion of the Soil Lead Repository, construction of a new repository, beneficial use of the material, and/or off-site transport and disposal. If a new repository is constructed or other off-site disposal option is used, it will either be located a similar driving distance from the Town as the existing repository, or delivery of action-level soils to the existing repository will continue and AR will transport the delivered soil and mine waste to the new repository or off-site location.

The following requirements shall apply to routine transport and disposal of excavated soil at the Rico Soil Lead Repository:

1. During transport, excavated soils shall be covered or adequately wetted in the haul vehicle to prevent fugitive dust emissions. Each work area will have a dry decontamination (decon) area established to limit tracking of contaminated soil off the work area on vehicles. Any impacted material removed during the decontamination procedure shall be hauled to the lead repository for disposal.
2. Vehicles may require washing of residual soil after disposal to limit dust emissions and tracking of soil from the repository into the Town of Rico. If so, AR contractor personnel will perform all washing activities at the Rico Soil Lead Repository.

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5.2 Clean Fill Placement

Refer to Section 02056 for detailed information and procedures required for site grading and compaction requirements as indicated in project documents.

QMC shall verify that the following general earthwork-related requirements are met by the Contractor:

1. Unsuitable material is to be excavated and disposed of as directed by the QMC.

5.2.1 Subgrade Preparation

The QMC will visually inspect and accept the subgrade below compacted fill prior to fill placement by proof rolling. The QMC will instruct the contractor to remove and replace unsuitable material and accept the area following the installation of 8-oz non-woven stabilization/separation geotextile fabric per specifications found in Section 02075.

5.2.2 Impacted Soil Replacement

Following subgrade preparation, the contractor shall place and compact over the geotextile separation barrier (installed and accepted per specification Section 02075) 12 inches of CDOT Class 6 Aggregate Base Course in compacted lifts not exceeding 6 inches.

The QMC shall perform a minimum of two density and moisture tests at random locations within each remediation area, for up to 550 feet in length of each compacted lift. After the initial 550 feet have been placed and compacted, the QMC shall perform one additional density and moisture test for every subsequent 275 feet in length of each compacted lift. The QMC shall log all testing in the project database, and the Contractor shall be notified of any material found defective or not meeting moisture density requirements.

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5.3 Road Regrading

The QMC shall confirm the design elevations, cross slope, crown, and width requirements as detailed in the plans and per construction staking in the field (as detailed in Part 3 of this section). The QMC shall visually inspect the final cut surface for irregularities, such as dips, humps, ruts, or washboarding. Ensure the surface is smooth and even across the entire width and length, and inspect for the following:

1. Ensure smooth transitions at intersections, driveways, or culverts.
2. Use a level or slope gauge to confirm the correct cross slope as indicated on the plans.
3. For crowned roads, ensure the center is higher than the edges of road and slopes evenly to both sides.
4. Inspect roads drain into ditches and low spots are cut or filled in to drain.

5. Look for loose or soft areas by vehicle or equipment tracking over the graded surface. If soft areas are don’t harden under additional compaction efforts, the contractor shall remove and replace the material with CDOT Class 6 aggregate base course as directed by the QMC field engineer.

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6 Geotextiles

6.1 General Geotextiles Requirements

The following types of geotextiles materials may be used on the project:

- Silt Fence Geotextile
- Catch Basin Sediment Trap
- 8-oz non-woven geotextile fabric (used for separation, stabilization, and drainage)
- Presto GW30V Geoweb (6-inch depth)

Each lot of geotextile material is to be tested prior to shipping, and the test reports should be included with the shipment to the project. QMC shall review test reports for each lot when it arrives at the project to ensure that the material meets the required specifications. In addition, the QMC shall confirm the following:

- Rolls that are part of the same production run shall be labeled as such.
- Ensure that rolls are protected from direct sunlight, chemicals, mud, dirt, and debris during shipment and storage.
- Confirm that any material that is damaged or deteriorated during shipping, storage, or construction is replaced.
- Ensure that each package is identified by a tag or label securely affixed to the outside of the roll on at least one end, providing the following information:
  - Name of manufacturer
  - Brand name of the product, width, length, and package weight
- Geotextile material when rolled out is free of defects, rips, holes, flaws, deterioration, or damage.

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6.2 Geotextile Installation

The QMC shall observe the installation of geotextile material by the Contractor, and ensure that the installation is completed in accordance with the following specified methods:

- Do not drag the geotextile across the subgrade. Roll geotextile out as smoothly as possible in the direction of vehicle travel.
- Do not operate construction equipment or traffic directly on geotextile.
- Cover the geotextile with cover material indicated on plans as soon as possible when placed for construction. Do not leave material uncovered or unsecured.
- Do not end-dump cover material directly on the geotextile. Use an excavator to place material onto geotextile.
- Limit construction vehicles in size and mass so rutting in the initial lift above the geotextile is not more than 3 inches deep or half the lift thickness, whichever is less.
- Do not turn vehicles on the first layer.

Refer to Section 02075 for detailed information on geotextile installation procedures for use as separation, stabilization, or drainage geotextile. Refer to Section 01571 for detailed information on geotextile installation procedures for use as temporary environmental controls. The following paragraphs describe additional requirements specific to each type of geotextile material.

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6.3 Subsurface Drainage Geotextile Installation

The QMC shall observe that the Contractor installs subsurface drainage geotextile in accordance with the following requirements:

1. Overlap geotextile 12 inches or the full width of the trench, whichever is less, at the crest of trench.
2. Overlap successive sheets of geotextile at least 12 inches in the direction of flow.
3. Repair any damage to geotextile by placing patches extending 3 feet in all directions beyond the damaged area.

7 Erosion Control

7.1 Stone

Refer to Section 02373 for additional information and procedures for installing stone riprap of the types shown on the drawings and at locations as directed by the Town of Rico and/or the QMC.

This paragraph covers materials and procedures for placing loose or confined riprap.

Contractor shall submit data showing riprap source gradation, wear and soundness, specific gravity, and placement technique 10 working days before use. Samples shall also be submitted for QC testing before use. Methodology and quality control testing will be verified on in-place material.

Aggregate used for riprap shall have the following characteristics:

1. Durable, angular, hard stone that is free from seams, cracks, or other structural defects.
2. Maximum wear not greater than 40 percent when tested. Refer to ASTM C131-01 (LA Abrasion).
3. Maximum 12 percent weighted loss tested according to ASTM D5240-04 (Sulfate Soundness).
4. Loose riprap – Stones graded in size so as to produce a dense mass. Minimum specific gravity (as determined by the apparent specific gravity) shall be 2.5.
5. The riprap layer thickness to be as shown on the drawings. Loose riprap gradations are based on the weight of material passing a given sieve opening. The diameter of any given stone is based on that which passes the sieve opening, not its thickness, breath or length.
6. Control of gradation will be by field samples collected at rock stockpiles, temporary storage areas or from placed material. For Loose Riprap compliance, samples will be tested by running rocks through a series of sieves and weighing the material passing each sieve. Results of the weighed material will then be compared against the gradation specifications shown in Section 02373. If the results do not fit within the allow gradation window, it will be considered non-conforming and subject to remedies as described in

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paragraph 4.5. Rock retained on the larger sieve and passing the smaller sieve will be counted. Results of the count will be compared to the graduation requirements shown in Section 02076. The range in sizes allows for a variation of 5% oversized and/or 5% undersized rock, provided it is not placed on the exposed surface. If the results do not fit within the allowable gradation window, the rock will be considered non-conforming and subject to remedies as described in paragraph 4.5.

7.1.1 Riprap Placement

The QMC shall ensure that the Contractor places riprap in accordance with the following general requirements:

1. Prepare the work area by removing all brush, trees, stumps, and other objectionable materials.
2. Provide a firm foundation by excavating to a dressed uniform surface conforming to the lines and grades shown in the plans.
3. Do not over excavate and disturb compacted foundations or undisturbed soils outside of the required lines and grades shown on the plans.
4. Obtain approval from QMC before backfilling.
5. Place and anchor geotextile liner, if required.

Additional specific requirements for placement of loose riprap are shown in Section 02373.

DRAFT
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SECTION 01280

MEASUREMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

Not Used.

1.2 RELATED SECTIONS

Not Used.

1.3 REFERENCES

Not Used.

1.4 DEFINITIONS

Neat-line – The lines and grades of the design shown on plan sheets or digital design files.

Neat-line Quantity – The precise amount of material required to complete a task, without any allowances for waste or overage performed at the convenience of the Contractor.

DRAFT
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1.5 SUBMITTALS

Not Used.

1.6 QUANTITY MEASUREMENT

A. All work completed under the contract is measured in U.S. standard measure.
   1. The Town of Rico Quality Management Contractor (QMC) measures and determines quantities of material furnished and work performed according to the Compensation Schedule section of the contract.
   2. The methods of measurement and computations for determining quantities of material furnished and of work performed under the contract are methods generally recognized as conforming to good engineering practice.

B. Lump Sum (LS)
   1. The Town of Rico QMC measures lump sum to include all materials, equipment and labor to complete the scope of work item. Where shown on the compensation schedule, partial payments may be made based on the percentage of work completed.

C. Cubic Yard (CY)
1. Payment will be based on neat-line cubic yards of material removed (bank cubic yards, BCY) or placed (embankment cubic yards, ECY) as shown on drawings (or other approved final design surface in the event of a design revision) approved and verified on site by field survey). Payment shall only be made on completed work in place.

D. Square Yard (SY)
1. Payment will be based on neat-line square yards of material placed as shown on drawings (or other approved final design surface in the event of a design revision). Payment shall only be made on completed work in place.

E. Acreage (AC)
1. Payment will be based on the horizontal projected areal extent of material placed (measured in acres) as shown on drawings (or other approved final design in the event of a design revision). Payment shall only be made on completed work in place.

F. Linear Feet (LF)
1. Payment will be based on neat line linear feet of construction as shown on drawings (or other approved final design in the event of a design revision). Payment shall only be made on completed work in place.

G. Time and Material
1. Payment will be according to unit costs based on the approval by the QMC to perform additional work. For lump sum work, provide unit costs for the following:
   a. Road and Alley Remediation (BCY): Provide in the Compensation Schedule a unit cost for bank cubic yard (BCY) of material removed as directed by the QMC in addition to the areas and estimated quantities provided on the plans. The unit cost shall include the cost to excavate, haul excavated material to the Rico Soil Lead Repository, install 8-oz. non-woven geotextile delineating fabric, and place and compact a 12-inch lift of CDOT Class 6 Aggregate Base Course material.
   b. The Rico Rail Corridor Cap (SY): Provide in the Compensation Schedule a unit cost for square yard (SY) of cap material placed as directed by the QMC in addition to the areas and estimated quantities provided on the plans. The unit cost shall include the cost to prepare the existing rail grade, install an 8-oz. non-woven geotextile delineating fabric over the grade, place and compact a 9-inch lift of Class 1 or Class 2 borrow and backfill material, and place and compact a 3-inch final lift of CDOT Class 6 Aggregate Base Course.

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PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

DRAFT
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SECTION 01282

PAYMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

Payment terms as defined herein shall be in conjunction with the project RFP and Contractor Master Service Agreement (MSA). If at any time, there is a discrepancy with this Section and the RFP or MSA, the MSA and RFP shall govern.

1.2 RELATED SECTIONS

A. Compensation Schedule

1.3 REFERENCES

A. Rental Rate Blue Book for Construction Equipment

B. Contractor MSA

1.4 DEFINITIONS

Not Used.

1.5 SUBMITTALS

Not Used.

1.6 SCOPE OF PAYMENT

A. The Town of Rico fully compensates the Contractor as provided in accordance with the MSA for:
   1. Furnishing all materials, labor, equipment, tools, transportation, and incidentals required for acceptable completion of the work as confirmed by the Town of Rico Quality Management Contractor (QMC).

B. Lump Sum or Extended Unit Price
   1. Consider payment as full compensation for all resources and incidentals necessary to complete the work.

C. The Town of Rico will not pay the Contractor for:
   1. Work that is in excess of that contained in the MSA or as stipulated in the change order authorizing the work.
   2. Removal and replacement of defective work.

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3. Loss of anticipated profits.

D. Partial payment or release of retainage does not relieve the Contractor of the obligation to correct all defective work or materials.

1.7 ELIMINATED ITEMS

A. Accept the Town of Rico's authority to eliminate MSA items found to be unnecessary to complete the work.

B. Request reimbursement for all costs incurred before notification of elimination.

1.8 VARIATION IN QUANTITIES AND SIGNIFICANT CHANGES IN CHARACTER OF WORK

A. The Town of Rico pays the original MSA for time and materials for the accepted neat line quantities of work or provides adjustment when the QMC approved variations in work quantities result in changes to the estimated quantities in the MSA.
   1. The Town of Rico does not allow compensation for any increased cost, loss of expected reimbursement, or loss of anticipated profits suffered or claimed by the Contractor resulting either directly from such alterations or indirectly from unbalanced allocation among the MSA items of overhead expense and subsequent loss of expected reimbursement or from any other cause.

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1.9 DIFFERING SITE CONDITIONS, CHANGES, AND EXTRA WORK

A. The Town of Rico pays for differing site conditions, changes, and extra work at either unit price, time and material or lump sum as stipulated in the change order authorizing the work and as measured by the QMC. Use one of the following methods discussed in this paragraph as agreed upon by the contractor and the QMC.

B. The Town of Rico and the QMC uses MSA unit prices if they are representative of the work to be performed.
   1. Unit price work will be reimbursed at the rates established in the MSA.
      a. These rates include compensation for the actual work and associated field indirect costs, home office overheads, profit, and all other costs incidental to the work unless otherwise defined in the MSA.

C. The Town of Rico may request revised unit prices that reflect the work to be performed when MSA unit prices are not representative of the changed or added work to be performed.
   1. These rates include compensation for the actual work and associated field indirect costs, home office overheads, profit, and all other costs incidental

to the work unless otherwise defined in the MSA.

a. Markups will be allowed (on the subcontracted amount only) as specified in MSA.

2. No other expenses will be compensated unless approved by The Town of Rico.

D. Negotiated lump sum for changes to the MSA work will be based on the Contractor's estimate to do the work as validated by the QMC review or independent cost assessment. Support the price with a detailed cost estimate that includes the following information:

1. Estimated Labor hours based on agreed upon productivity rates.
   a. Use the agreed upon labor rates that include actual cost of wages, benefits, burdens, and other labor related expenses for the labor rates applied to the estimated man-hours.
2. Estimated Material quantities based on agreed upon quantities.
   a. Use actual material costs as verified by supplier estimates or invoices.
   b. Use agreed to production rates for material produced on site such as granular borrow.
3. Estimated Equipment hours based on agreed upon productivity rates.
   a. Use the lesser of the following for determining equipment costs:
      1) Agreed upon equipment rental rates as included in the MSA or otherwise agreed to by the Town of Rico. Rates shall include all fuels, fluids, maintenance and other operational costs associated with the equipment.
      2) Actual cost of the equipment to the Contractor based on internal equipment billing rates or actual rental rates supported by rental agreements for equipment applied to the estimated equipment hours. Include certified accounting records substantiating these costs or make them available upon request from the Town of Rico and/or QMC.
4. A markup on all expenses identified above is determined in accordance with the MSA. Allowable markup compensates the Contractor for home office overheads, profit, and incidental costs.
5. No other expenses will be compensated unless approved by the Town of Rico.

1.10 COMPENSATION FOR EXCUSABLE DELAYS

A. The Contractor shall work with the QMC to determine expected weather delays.

B. Document all claimed costs resulting directly from a delay caused by the Town of Rico and/or QMC .

1. Use actual internal cost records kept in the usual course of business to justify added costs. Such records must comply with generally accepted accounting principles.
2. The Town of Rico does not compensate for the following:
   a. Profit more than provided according to this Section.

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b. Loss of profit.
c. Labor inefficiencies.
d. Consequential damages, including but not limited to, loss of bonding capacity, loss of bidding opportunities, and insolvency.
e. Any indirect costs or expenses.
f. Attorney's fees, claims preparation expenses, or litigation costs.

B. Compensable costs will be determined as follows:
1. Direct Costs – Actual certified costs of the Contractor's workforce and equipment idled by the delayed activity.
2. Field Indirect Costs – Actual certified cost increases for job-site supervision and field office operating costs or other costs not directly associated with a particular work activity for the period of delay.
3. Home Office Overhead – The markup allowed on all change orders includes the cost of home office overheads associated with that change in the project scope of work.
a. Demonstrate the following to be entitled to alleged additional compensation for under-absorbed home office overhead costs:
1) Under absorption actually occurred, meaning there was less revenue overall in relationship to home office costs and that no replacement work was obtained.
2) The under absorption was a direct result of the project.
3) The Contractor could have reasonably obtained specific replacement work that the alleged delay made impracticable.
b. Submit the following information supporting the claim(s) additional costs:
1) The previous five years audited financial statements that include as a minimum the following information:
a) Summaries of actual home office overhead costs.
b) Total revenues generated annually sorted by each project worked on during the year.
c) The amount of gain/loss earned for each active project during each year.
c. The amount will be calculated as shown below if additional payment for home office overheads is justified:
1) No unabsorbed home office overheads will be reimbursed for the first ten calendar days of the delay- causing event.
2) Calculate home office overhead costs from the eleventh calendar day of the delay-causing event through the events end if the project is between 0 and 90 percent complete.
3) Use the following formula to calculate home office overhead costs:

$$E = D\,[0.03(A)/C]$$

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Where:
0.03=Allowed markup for home office overheads
A=Original MSA value
C=Total MSA duration in calendar days including approved time extensions
D=The agreed upon number of calendar days the project is delayed due to the delay-causing event minus ten
E=Total reimbursable amount for unabsorbed home office overhead

4) No home office overheads will be reimbursed if the delay occurs after the project is 90 percent complete.

C. The total reimbursable cost for a compensable delay is the sum of the daily agreed to costs for direct costs, field indirect costs, and unabsorbed home office overhead costs as computed according to this article for the duration of the delay. No other costs, including profit, will be reimbursed.

1.11 PROGRESS PAYMENTS

A. The Town of Rico makes progress payments in accordance with the Compensation Schedule.

B. Payments are based on estimates prepared by the QMC of the value of the work performed and materials in place in accordance with the Compensation Schedule.

C. The Town of Rico deducts and retains ten percent of the total value of work until after the entire MSA has been completed in an acceptable manner with the following exceptions:

1. Retention for subcontracted work is paid upon satisfactory completion and acceptance by the Town of Rico and the QMC.

1.12 PAYMENT FOR MATERIAL ON HAND

A. Present the delivery copies of invoices. The Town of Rico may include advance payments for acceptable non-perishable materials purchased expressly for incorporation in the work when delivered in the vicinity of the project or stored in approved storage place on the partial payment invoice.

1. The QMC determines, and the Town of Rico approves the amount to be included in the estimate but in no case will the amount exceed the value of the materials as shown on the delivery invoice or 75 percent of the in-place price, whichever is less.
2. Furnish evidence that the stockpiled materials are irrevocably obligated to the project when the approved storage location is other than the project site.
3. The Town of Rico does not pay when the invoice value of such materials, as determined by the QMC, amounts to less than $2,000 or if materials are to be stored less than 30 calendar days, unless otherwise specified.

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4. Furnish the QMC certified paid invoices or a certified statement with a copy of the check showing payment within 60 calendar days following the date of the estimate invoice on which the stockpile material is to be paid by The Town of Rico.
5. Material will be removed from the next partial estimate as stockpiled materials if proper invoices showing payment to the supplier is not received.

B. The Town of Rico does not make any partial payment on living or perishable materials until incorporated as specified in the MSA.

C. The Town of Rico does not pay for materials brought onto the site at the Contractor's election that may be incorporated into the project such as fuels, supplies, or supplies used to improve efficiency of operations.

D. Approval of partial payment for stockpiled materials does not constitute acceptance of such materials for use in completing items of work.

E. The Town of Rico purchases at actual cost and without any percentage allowance for profit, materials delivered to the project in compliance with the MSA or left unused due to changes in plans or variation in quantities, if the materials are not practicably returnable for credit.
1. Purchased materials become the property of the Town of Rico.
2. Actual costs are based on invoice price plus transportation costs.

F. Payment is limited to Compensation Schedule quantities unless otherwise ordered by the Town of Rico QMC.

G. Surplus aggregates up to the Compensation Schedule quantities may be purchased provided the material is stockpiled where directed and meets specification requirements when stockpiled at the option of the Town of Rico.

1.13 FINAL PAYMENT

A. Contractor prepares the final estimate of work performed when the project has been accepted.
1. Contractor processes the estimate for final payment if the Town of Rico and the QMC approves the final estimate and does not object to the quantities within 30 calendar days of receiving the final estimate.
2. The Town of Rico pays the entire sum due after deducting all previous payments and all amounts to be retained or deducted under the provisions of the MSA after approval of the final estimate by the Contractor.

B. All prior partial estimates and payments are subject to correction in the final estimate and payment.

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PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

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SECTION 01285

MOBILIZATION/DEMOBILIZATION

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Contractor shall mobilize and demobilize material, equipment, tooling, trailers, and personnel as required to complete the work called out in the Town of Rico Stormwater Management System Scope of Work and Design.

1.2 RELATED SECTIONS

A. Section 01571: Temporary Environmental Controls

B. Section 01286: Decontamination of Equipment

1.3 REFERENCES

Not Used.

1.4 DEFINITIONS

Mobilization – All activities conducted related to bringing equipment, supplies and personnel to the Site to complete work as defined in this Scope of Work.

Demobilization – All activities conducted related to removing equipment, supplies and personnel from the Site once work has been completed as defined in this Scope of Work.

1.5 SUBMITTALS

Not Used.

1.6 PAYMENT PROCEDURES

A. Refer to Measurement and Payment documents.

PART 2 PRODUCTS

Not Used.

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PART 3 EXECUTION

3.1 MOBILIZATION

A. The contractor shall be responsible for site preparation, job set up and operation regarding this scope including, but not limited to, stabilized construction entrances, laydown and staging areas, secured storage, and maintenance facilities as required to efficiently execute the Scope of Work without disruption to owner's site operations.

B. Earthmoving equipment shall be clean, free of fluid leaks, broken glass and shall be in good working order prior to accessing the site.

C. Prior to mobilization the Contractor shall provide the Town of Rico a list of equipment to be brought to the site and a description of its use. All equipment is subject to inspection prior to or upon arrival by the Town of Rico to inspect safety systems, detect leaks, and identify any plants, seeds, soils, or other materials that may be adhered to its surface. Equipment that will be billed on a Time and Material basis shall have approval from the Town of Rico prior to mobilization.

D. No equipment shall be brought to the site for maintenance or other purposes that will not be used specifically for this scope of work.

3.2 DEMOBILIZATION

A. The contractor shall be responsible for removing all equipment, supplies and personnel at the conclusion of applicable work items.

B. Equipment shall be prepared for transport as per Section 01286 Decontamination of Equipment. All equipment is subject to inspection prior to departure by the Town of Rico to inspect for remnants of plants, seeds, soils and other materials that may be adhered to its surface and that are to remain on site.

C. Prior to demobilization, the Contractor shall receive approval from the Town of Rico stating that the equipment is approved to be removed from the site.

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END OF SECTION

SECTION 01286

DECONTAMINATION OF EQUIPMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

Requirements for ensuring that all equipment is clean upon arrival, when exiting Town of Rico VCUP remediation areas, prior to leaving the lead repository disposal site, and when moving on-site between remediation to non-remediation areas.

1.2 RELATED SECTIONS

A. Section 01285: Mobilization/Demobilization

1.3 REFERENCES

Not Used.

1.4 DEFINITIONS

Decontamination – To make equipment, objects, area and personnel safe for unprotected personnel by removing, neutralizing, or destroying any harmful substance. To make free of contamination from chemical, noxious weeds or other substances that would result in damage to people or the Site environment.

Site – All land within the Town of Rico area and other adjacent areas of work within this Scope of Work.

Impacted Soil – Native soils or sediments that have metal concentrations exceeding the values set forth in the VCUP agreement due to the mining and processing activities conducted at the Town of Rico site.

DRAFT
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1.5 SUBMITTALS

Not Used.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

3.1 CLEANING METHODS

A. All types of equipment shall be cleaned prior to mobilizing to the project site. Equipment arriving onsite shall be inspected by the Town of Rico Quality Management Contractor (QMC) for the presence of leaking fluids, soil, mud, debris, plants, seeds and foreign materials so they are not introduced to the site. Equipment remaining on site and moving to a different area with a lower impacted soils concentration limit shall be inspected by the QMC prior to mobilization for adhered impacted soils and foreign materials. Prior to demobilization from the site, equipment shall be inspected by the QMC for the removal of all soils, mud, debris, plants, seeds and foreign materials. Decontaminate equipment in designated areas approved by the Town of Rico only.

1. Any equipment that comes into contact with excavated material from road remediation areas or with the subgrade of removal areas shall be decontaminated in accordance with the requirements of this specification and Specification 01355 – Environmental Compliance, prior to redeploying the equipment in non-road remediation work areas, or demobilized from the site.

2. Thoroughly wash equipment down to the paint or equipment surface to remove all leaking fluids, impacted soil, mud, debris, plants, seeds and materials that may be present.

3. Physically remove foreign material (soil or mud clumps, vegetation, etc.) from equipment with the use of brushes, brooms, shovels, equipment movements or other tools as needed to achieve foreign material removal requirements until clean. Physical removal may leave trace amounts of soil or foreign material that must meet equipment area destination requirements before approved for mobilization.

4. The impacted material that has been removed shall be picked up using loader, shovel (or similar method) and placed in a truck and taken to the Rico Soil Lead Repository for disposal.

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END OF SECTION

SECTION 01355

ENVIRONMENTAL COMPLIANCE

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Processes and guidance for compliance with the Town of Rico, the Town of Rico Quality Management Contractor (QMC), federal and state environmental regulations, and the provisions of this Section.

1.2 RELATED SECTIONS

A. Section 01286: Decontamination of Equipment

B. Section 01571: Temporary Environmental Controls

C. Section 01572: Dust Control and Watering

1.3 REFERENCES

A. American National Standards Institute (ANSI)

B. Colorado Department of Public Health and Environment (CDPHE) Regulations

C. Title 40, Code of Federal Regulations (CFR)

D. U.S. Environmental Protection Agency (EPA) Regulations

E. Code of Colorado Regulations (CCR)

F. The Contractors HSSE Standards

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1.4 DEFINITIONS

Ephemeral Channel – A natural channel that flows because of a storm event.

State Waters – State waters include any and all surface and subsurface waters that are contained in or flow in or through the State of Colorado, but does not include waters in sewage systems, waters in treatment works of disposal systems, waters in potable water distribution systems, and all water withdrawn for use until use and treatment have been

completed. Examples of State waters include, but are not limited to, perennial streams, intermittent or ephemeral gulches and arroyos, ponds, lakes, reservoirs, irrigation canals or ditches, wetlands, stormwater conveyances (when they discharge to a surface water), and groundwater.

Fugitive Dust – Small particles originating primarily from soil that are suspended in the air by the wind and by human activities.

Impacted Soil – Native soils that have elevated metal concentrations due to the mining and processing activities conducted at the Town of Rico. Defined for this project as soil or sediment containing lead concentrations about 761 mg/kg.

Intermittent Stream – A stream that flows seasonally.

Noise Receptor – Any property where frequent human use occurs and where a lowered noise level would be of benefit. The construction office is considered a noise receptor.

Percussive Noise – Short bursts of noise including but not limited to loud engine noise, rock crushing and jack hammering.

Perennial Stream – A stream that has continuous flow during years of normal snow and rainfall.

Sound Level – The average sound pressure level from all concurrent construction activities related to the project as measured with a sound level meter using the A-weighting network (ANSI S1.4). The standard notation is dB(A) or dBA.

Stormwater Management Plan (SWMP) – for the scope of this project, an SWMP comprises those contract documents containing the requirements and recommendations in conformance with the CDPHE general permit COR400000 to accomplish all the following:

1. Protect and identify sensitive environments (state waters, wetlands, habitat, and existing vegetation).
2. Minimize the amount of disturbed soil.
3. Control and minimize erosion and sedimentation during and after project construction.
4. Minimize runoff from offsite areas from flowing across the site by slowing down the runoff.
5. Reduce pollutants in stormwater runoff.

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PART 2 SUBMITTALS

A. Submit a fugitive dust control plan to the QMC before the start of construction. Modify the plan during construction as determined necessary or as directed by the QMC.

B. Submit a Stormwater Management Plan (SWMP) to the QMC before the start of construction. Modify the plan during construction as determined necessary or as directed by the Town of Rico.

C. Submit the approved CDPHE general permit COR400000 documentation to the QMC.

PART 3 PRODUCTS

Not Used.

PART 4 EXECUTION

4.1 VEHICLE AND EQUIPMENT CLEANING CERTIFICATION

A. Before mobilizing equipment, the Contractor shall certify in writing to the QMC that construction equipment has been cleaned before initial site arrival. Vehicles and equipment shall be free of soil and debris capable of transporting noxious weed seeds or invasive species onto the site.

B. Equipment leaving and reentering the project site that has not come in contact with excavated impacted material from road remediation areas or with the subgrade of removal areas shall be cleaned and recertified by the Contractor at a Town of Rico approved area where wash water can be properly contained.

C. Cleaning equipment that has come in contact with excavated material from road remediation areas or with the subgrade of removal areas (refer to Specification 01286 – Decontamination of Equipment):

1. In order to prevent impacted material from being spread on non-impacted roads, impacted material shall be removed from equipment using shovels, brooms, brushes (or similar method) prior to moving the equipment from one road remediation area to another, to non-impacted use areas, or before demobilizing off site. The impacted material that has been removed shall be picked up using loader, shovel (or similar method) and placed in a truck and taken to the Rico Soil Lead Repository for disposal.

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4.2 HAZARDOUS MATERIAL DISCOVERED DURING CONSTRUCTION

A. Immediately suspend work in the area if abnormal conditions are encountered or exposed during construction that indicates the presence of an unknown impacted soil, hazardous material or toxic or hazardous waste.

1. Treat the conditions with extreme caution.
2. Contact the QMC immediately when abnormal conditions are encountered. Abnormal conditions include but are not limited to the following: presence of previously unidentified discolored or otherwise unique soils.

B. Upon notification, the QMC will initiate the development of a remediation plan, if needed, according to CDPHE and EPA regulations and its requirements.

C. Resume operation in the affected area when directed by the QMC.

D. Continue working in other areas of the project unless otherwise directed by the QMC.

4.3 HAZARDOUS MATERIAL – CONTRACTOR CAUSED

A. All spills, leaks and releases need to be reported to the QMC immediately. The QMC will determine if the incident requires additional reporting based on regulations, rules and permits.

B. Implement measures to minimize the spread of contaminants using spill kits or other appropriate methods in the event of a spill of hazardous materials.

C. Capture and dispose of the spilled materials under the direction of the QMC according to the requirements of the Town of Rico, the CDPHE and the EPA.

D. If the contractor stores more than 1,320 gallons of fuel on site in above ground storage containers with capacity of 55 gallons or more, the contractor shall prepare an SPCC plan

E. Document the spill and response action and submit a copy to the QMC who will provide a copy to the Town of Rico.

F. If impacted soils are encountered, isolate the area of impact with the assistance of the QMC, and avoid spreading material through excavation,

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trafficking or other actions.

G. The cost of clean-up required due to Contractor caused hazardous material events shall be borne solely by the Contractor.

4.4 AIR QUALITY CONTROL

A. The Contractor shall comply with the “Colorado Air Quality Control Act,” Title 25, Article 7, CRS and regulations promulgated thereunder.

4.5 WATER QUALITY CONTROL

A. **Permitting:** All work requires coordination with the QMC to ensure stormwater runoff is isolated to designated waterways and flow patterns. Coordinate with the QMC to determine work locations that contain specific waterway restrictions.

1. The Contractor shall submit to the QMC a SWMP for approval prior to obtaining a Colorado Department of Public Health & Environment (CDPHE) general permit COR4000000. Following QMC approval, submit online the COR400000 permit application through the Colorado Environmental Online Services (CEOS) site: https://cdphe.colorado.gov/cor400000-stormwater-discharge

2. Dewatering activities are not anticipated. If water is encountered within the lines and grades and subgrades of construction items that prevent proper compaction per specifications 02056 OR 02721, prepare a plan to dewater the affected work area for approval by the QMC. Following QMC approval for dewater non-road remediation areas, the Contractor shall apply through the CDPHE - CEOS site for a COG080000 permit (Discharges from Short-term (< 2 years) Construction Dewatering Activities). The COG080000 permit only covers situations where the source water is not expected to be contaminated.

   For VCUP road remediation areas, the Contractor shall apply for a COG317000 permit (Discharges from Short-term (< 2 years) Remediation Activities). Refer to the following site for dewatering permit information: https://cdphe.colorado.gov/ceos-dewatering-general-permit-program

   a. The Contractor may create a general dewater plan for non-VCUP remediation work areas and VCUP remediation work areas for approval by the QMC, and apply for either a COG080000 or COG317000 permit, respectively, in advance.

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All dewatering activities shall be approved and verified to meet permit requirements by the QMC prior to, during and after dewatering activities commence.

B. **Construction Requirements:** The project work shall be performed using practices that minimize water pollution during construction. All the practices listed below shall be followed to minimize the pollution of any State waters, including wetlands.

1. The Contractor shall comply with the “Colorado Water Quality Control Act” (Title 25, article 8, CRS), the “Protection of Fishing Streams” (Title 33, Article 5, CRS), the “Clean Water Act” (33 USC 1344), regulations promulgated and to the requirements listed below. 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.

D. **SWMP Requirements:** A SWMP shall be created by the Contractor, reviewed by the QMC, and approved by the Town of Rico. The SWMP shall illustrate practices and procedures to prevent surface water runoff from contaminating State Waters. The SWMP should include the following:

1. Erosion controls, as outlined in Section 01571, to prevent or minimize erosion, sedimentation, and pollution of any State waters including wetlands.
2. A spill response plan to establish operating procedures for handling potential pollutants and preventing spills for any petroleum products, chemicals, solvents, or other hazardous materials in use, or in storage, at the work site.
3. Documents and site maps to identify and describe all potential pollutant sources, including materials and activities, and evaluate them for the potential to contribute pollutants to stormwater discharges associated with construction activities, including but not limited to the following:
   a. All exposed and stockpiled impacted soils.
   b. Vehicle tracking of sediments.
   c. Management of contaminated soils.
   d. Vehicle and equipment maintenance and fueling.
   e. Outdoor storage activities (building materials, fertilizers, chemicals, etc.).
   f. Significant dust or particle generating processes.
   g. Routine maintenance involving fertilizers, pesticides, detergents, fuels, solvents, oils, etc.
   h. On-site waste management practices (waste piles, dumpsters, etc.).
   i. Concrete truck and equipment washing, including the concrete truck chute and associated fixtures and equipment.

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Appropriate approved concrete washout containment must be provided.

j. Concrete placement and finishing tool cleaning.
k. Non-industrial waste sources that may be significant, such as worker trash and portable toilets.
l. Loading and unloading operations.
m. Other areas or procedures where spills could occur.

E. **Dewatering:** Water from dewatering operations shall not be directly discharged into any State waters, unless allowed by a permit. Water from dewatering shall not be discharged into a ditch unless written permission is obtained from the QMC. A copy of this approval shall be submitted to the QMC before commencing dewatering operations.

1. **Construction Dewatering** may be discharged to the ground on projects where CDPHE's Low Risk Guidance Document for Discharges of Uncontaminated Groundwater to Land are met. The conditions of this guidance are:
   a. The source of the discharge is solely uncontaminated groundwater or uncontaminated groundwater combined with stormwater and does not contain pollutants in concentrations that exceed water quality standards for groundwater referenced above.
   b. The groundwater discharge does not leave the project boundary limits where construction is occurring.
   c. Land application is conducted at a rate and location that does not allow for any runoff into State waters or other drainage conveyance systems, including but not limited to unpaved roads and alley ways, curb and gutter and inlets along Glasgow Avenue, ditches, open channels, etc.
   d. Land application is conducted at a rate that does not allow for any ponding of the groundwater on the surface, unless the ponding is a result of implementing control measures that are designed to reduce velocity flow. If the control measures used result in ponding, the land application shall be done in an area with a constructed containment, such as an excavation or berm area with no outfall. The constructed containment shall prevent the discharge of the ponding water offsite as runoff.
   e. A visible sheen is not evident in the discharge.
   f. Control measures are implemented to prevent any sediment deposited during land application from being transported by stormwater runoff to surface waters or other conveyances.
   g. All control measures used shall be selected, installed, implemented, and maintained according to good engineering, hydrologic, and pollution control practices. The selected control measures shall provide control for all potential pollutant

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sources associated with the discharge of uncontaminated groundwater to land. The discharge shall be routed in such a way that it will not cause erosion to land surface. Energy dissipation devices designed to protect downstream areas from erosion by reducing the velocity of flow (such as hose attachments, sediment and erosion controls) shall be used when necessary to prevent erosion.

2. All dewatering operations shall be recorded in the SWMP as follows:
   a. The source is identified in the SWMP and updated by the SWMP Administrator.
   b. The SWMP describes and locates the practices implemented at the site to control stormwater pollution from the dewatering of groundwater or stormwater.
   c. The SWMP describes and locates the practices to be used that will ensure that no groundwater from construction dewatering is discharged as surface runoff, or to surface waters, or storm sewers.
   d. Documentation that groundwater, and groundwater combined with stormwater do not contain pollutants in concentrations exceeding the State groundwater standards in Regulations 5 CCR 1002-41 and 42.

C. **Wetlands:** Before construction, the Contractor shall implement appropriate control measures for protection of wetlands, sensitive habitat, and existing vegetation from ground disturbance and other pollutant sources. Wetland areas outside of the permitted limits of disturbance shall not be used for storage, parking, waste disposal, access, borrow material, or any other construction support activity. Sediment traps shall be installed during construction at ditch discharge points into wetlands. Monitor and remove excess sedimentation to prevent subsequent flooding of surrounding areas. Remove sediment traps after the completion of all upgradient ditch segments and stormwater conveyance structures, and with approval from the QMC.

D. **Pollutants from construction byproducts:** Pollutant byproducts from, but not limited to, concrete mixing and pouring, excavation or excess fill material, and material from sediment traps shall be handled, stockpiled, and disposed of in a manner that prevents entry into State waters, including wetlands. Removal of concrete waste and washout water from mixer trucks, concrete finishing tools, concrete saw, and all concrete material removed in the course of construction operations or cleaning shall be performed in a manner that prevents waste material from entering State waters and shall not leave the site as surface runoff. A minimum of 10 days before the start of the construction activity, the Contractor shall submit in writing a Method Statement for Containing Pollutant Byproducts to the

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QMC for approval.

E. **Chemical use:** The use of chemicals such as soil stabilizers, dust palliatives, herbicides, growth inhibitors, fertilizers, deicing salts, etc., shall be per the manufacturer's recommended application rates, frequency, and instructions.

F. **Material Storage:** All materials stored onsite shall be stored in a neat, orderly manner, in their original containers, with the original manufacturer's label. Materials shall not be stored in a location where they may be carried into State waters at any time.

4.6 GENERAL WASTE DISPOSAL

At the end of each day, the Contractor shall collect all trash and dispose of it in appropriate containers.

A. Construction waste that is considered a pollutant or contaminant shall be collected and disposed of in appropriate containers. This material may be stockpiled at the Construction Laydown area when it is contained or protected by an appropriate control measure.
   1. All construction site wastes shall be properly managed to prevent potential pollution of State waters.

B. Green waste generated from clearing and grubbing shall be stockpiled in a designated area approved by the Town of Rico.

4.7 FIRE PREVENTION

A. The Contractor shall prevent construction activities from causing grass or brush fires.

B. Contractor shall not conduct open burning.

4.8 FUGITIVE DUST

A. Prepare and update, as needed, a fugitive dust control plan. Provide updates to the QMC each week. The Contractor should address all construction activities that could result in fugitive dust.
   1. Minimize fugitive dust from construction activities using methods such as watering of potential fugitive dust sources or other methods approved by the QMC.
   2. Minimize fugitive dust from material storage, handling, or hauling operations using covers, stabilization, or other methods approved by the QMC.

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4.9 NOISE CONTROL

A. Locate haul routes to minimize noise disturbances to noise receptors.

B. Take measures to avoid construction activities causing sound levels to exceed 95 dBA in daytime (8 a.m. - p.m.).

4.10 ENVIRONMENTAL CLEARANCE

A. Working with the QMC, obtain the following environmental clearances before starting any ground disturbing activity not previously cleared by the project such as transporting project-generated material to offsite locations, importing excavated borrow material from un-cleared sites, or locating equipment, storage areas, office sites, utility lines, or holding ponds.
   1. Wetlands –The Town of Rico will provide documentation of the clearance from a qualified wetland specialist of the absence of wetlands.
   2. Work personnel shall not feed wild animals. Store food in vehicles and in closed containers. Use bear proof trash containers and dumpsters.

B. A time extension may be provided for delays encountered in obtaining these clearances.

END OF SECTION

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SECTION 01455

MATERIAL QUALITY REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

This section describes roles and responsibilities associated with supplying and testing materials used for completing the Scope of Work.

1.2 RELATED SECTIONS

A. Section 01100: Town of Rico Quality Management Plan

B. Section 01355: Environmental Compliance

C. Section 02075: Geotextiles

D. Section 03132: Soil Stabilization System (Geoweb)

1.3 REFERENCES

A. Code of Federal Regulations (CFR).

1.4 DEFINITIONS

Acceptance Testing – Quality Control/Assurance testing completed by the Town of Rico Quality Management Contractor (QMC) on supplied materials and constructed work.

1.5 SUBMITTALS

A. Copies of test reports to the QMC.

B. Certificates of Compliance – Refer to this Section, Article 1.6.

1.6 SUPPLY SOURCE AND QUALITY REQUIREMENTS

A. Use only materials that meet the intent and quality specified in the contract documents.

B. Notify and obtain approval from the QMC in writing of the proposed source of materials to be used before their delivery.

C. Correct or remove materials that do not meet contract requirements.

DRAFT
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D. Pay all related costs including those for haul distance and for exploring and developing sources.

1.7 CONTRACTOR FURNISHED MATERIALS SOURCES

A. Obtain required Environmental Clearances. Refer to Section 01355.

B. Perform required quality tests as required by the Town of Rico Stormwater Quality Control Manual and these specifications using a qualified laboratory. Submit copies of test reports to the QMC.

1. Upon submittal, the QMC will review and either require additional samples for inspection and testing or authorize the use of the material. The QMC authorization does not constitute final approval of the material. The Contractor is responsible for meeting all requirements associated with its use, including consistency of product, processing to meet specific gradation requirements, placement according to specifications, etc.

1.8 FINISHING MATERIAL SOURCE SITES

A. Finish all material source sites to the satisfaction of the QMC.
1. Finishing offsite material source sites, including seeding and mulching, is not measured, or paid for separately and is considered incidental to other items of work.

1.9 SAMPLES, TESTS, AND REFERENCED CITED SPECIFICATIONS

A. Incorporate into the work only material that is inspected, tested, and accepted by the QMC. The contractor is responsible for removing unacceptable materials from the site at no cost to the Town of Rico.

B. For quality testing, use the applicable ASTM standard effective at the time of contract signing.

C. The QMC will perform acceptance testing at its cost. The Contractor shall facilitate and assist with acceptance testing as part of the cost of its work, including incidental costs incurred by the Contractor, e.g. reasonable delays while the test is being taken, equipment assistance with collecting sample, etc. No additional costs will be paid for non-conforming work identified by acceptance testing.

D. The QMC may inspect, test, and reject materials at any time prior to final acceptance of the pay item.

E. The Town of Rico will not allow a contract time extension for or because of testing except as otherwise authorized in writing.

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F. The Contractor is responsible for removal, replacement, reworking, additional processing, re-compaction, etc. at its cost that may be required due to failing quality control testing.

1.10 MATERIAL SOURCE INSPECTION

A. The QMC may inspect materials at the acquisition or manufacturing source for compliance with specifications.

B. Cooperate fully and assist the QMC during the inspection.
   1. Allow the QMC full access to all parts of the facility used to manufacture or produce materials.
   2. Equip crushing or screening facilities with automatic or semiautomatic mechanical sampling devices.

1.11 MATERIAL STORAGE AND HANDLING

A. Store and handle materials to preserve their quality and fitness for the work.

B. Transport bulk materials in a manner to prevent loss or segregation after loading and measuring.

C. Store materials so they can be easily inspected and retested.

D. Obtain approval from the Town of Rico to store materials or equipment on Town of Rico property at acceptable location.

E. Additional offsite storage space is at the Contractor's cost and option.

1.12 UNACCEPTABLE MATERIALS

A. Remove non-conforming materials immediately from the project site unless the defects are corrected and approved by the QMC or accepted at a reduced price as approved by the Town of Rico and the QMC.

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PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

SECTION 01571

TEMPORARY ENVIRONMENTAL CONTROLS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Requirements for controlling erosion and capturing sediment laden runoff from leaving the construction site and areas under the Contractor's control.

B. Requirements for installing, inspecting, maintaining, and removing temporary erosion and sediment control measures.

C. Materials and procedures for installing and removing temporary environmental fencing.

1.2 RELATED SECTIONS

A. Section 01355: Environmental Compliance

1.3 REFERENCES

A. Stormwater Management Plan (SWMP)

1.4 DEFINITIONS

BMP – Short-term measures implemented before or during construction to control erosion, sedimentation, and pollutant runoff in accordance with the QMC approved SWMP. Common types of BMPs include, but are not limited to, check dams, drop inlet barriers, straw wattles or fiber rolls, gutter inlet barriers, pipe inlet barriers, sediment traps and sediment basins, silt fences, construction entrances, barriers, and dust control measures.

Check Dam – A fiber roll or stone structure placed across a ditch to intercept and trap sediment. Construct so water will flow over a low point in the middle of the dam and not around the sides.

Disturbed Areas – Areas within a construction site where existing vegetative cover, or existing stabilized areas, have been removed or altered and exposed soils are susceptible to increased erosion and sedimentation.

Drop Inlet Barrier – A fiber roll or silt fence placed around a drop inlet that intercepts and traps sediment.

Fiber Roll (Straw Wattle) – A tube-like structure of encased natural materials used to intercept and trap sediment in a sheet flow situation.

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Gutter Inlet Barrier – A protective barrier placed around a gutter inlet that intercepts and traps sediment before it enters the inlet.

Pipe Inlet Barrier – A barrier protecting a pipe inlet that intercepts and traps sediment before it enters the pipe.

Sediment Trap – An excavated basin, usually installed at low points on a construction site that intercepts and traps sediment.

Silt Fence – A geotextile fabric fence to intercept and trap sediment in a sheet flow situation.

Slope Drain – A polyethylene pipe placed on a slope to collect and transport storm runoff down the face of a slope until permanent drainage facilities are installed, or vegetation growth is adequate.

Stabilized Construction Entrance – A layer of rock (or Town of Rico approved alternative) placed at a construction site entrance/exit that removes mud from vehicle tires to prevent tracking onto a paved road.

Straw Bale Barrier – Straw bales placed end to end, used where a silt fence would fail. Install to intercept and trap sediment.

Temporary Berm – A ridge of compacted soil with or without a shallow ditch that diverts storm runoff from a slope to a controlled release point.

Temporary Environmental Fence – A visual barrier used to delineate and prevent encroachment on sensitive areas.

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1.5 SUBMITTALS

A. A signed copy of the Notice of Intent to the Quality Management Contractor (QMC) Project Engineer before beginning any earth disturbing activities

B. Environmental Control Supervisor (ECS)
   1. The Contractor shall certify to the QMC that the ECS selected for the project is a professional that is qualified to implement the SWMP in its entirety along with all environmental compliance regulations found in Specification 01355 – Environmental Compliance. This role may be filled by more than one individual.

C. Submit to the QMC the CDPHE approved general permit COR400000 documentation.

PART 2 PRODUCTS

2.1 MATERIALS

A. Check Dams:
   1. Fiber Roll:
      a. Use a 12-inch diameter fiber roll of sufficient quality and strength selected by the ECS to meet the requirement of the project.
      b. Wood Stakes – 1-inch square by 18 inches long.
      c. Channel Liner – Use products of sufficient quality and strength selected by the ECS to meet the requirement of the project.

B. Silt Fence:

   1. Silt Fence Fabric – Refer to ASTM D6461-99 for Silt Fence Property Requirements.
   2. Wood Post – Nominal 2-inch square by 4 feet long.
   3. Fasteners – Staples, wire, zip ties, or nails sufficient to maintain fabric attachment to post.

C. Fiber Roll (Straw Wattle):
   1. Use 12-inch diameter fiber roll - Use products of sufficient quality and strength selected by the ECS to meet the requirement of the project.
   2. Wood Stakes – Nominal 2-inch square by 18 inches long.

D. Temporary Berm:
   1. Existing Soil

E. Drop Inlet Barriers:
   1. Fiber Roll:
      a. Use an 18-inch diameter fiber roll of sufficient quality and strength selected by the ECS to meet the requirements of the project.
      b. Wood stakes – Nominal 2-inch square by 2 feet long.
   2. Silt Fence – Refer to ASTM D6461-99 for Silt Fence Property Requirements
      a. Wood stud: 2 inches by 4 inches nominal.

F. Pipe Inlet Barrier:
   1. Fiber Roll
      a. Use an 18-inch diameter fiber roll of sufficient quality and strength selected by the ECS to meet the requirements of the project.
      b. Wood stakes – Nominal 2-inch square by 2 feet long.

G. Sediment Trap:
   1. Loose Riprap – Refer to Section 02373.

H. Stabilized Construction Entrance:
   1. Stone – 2 to 3-inch diameter or alternative material as approved by the Town of Rico.

I. Straw Bale Barrier:

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1. Straw Bales – Obtained from weed-free fields that have been certified by the Colorado Department of Agriculture. Basic two or three strings with a height of 16 inches or alternative sizes as approved by the Town of Rico.
2. Wood Post – Nominal 2-inch square by 4 feet long.

J. Temporary Environmental Fence:
1. Fence Fabric
   a. Polyethylene, high-density, UV stabilized
   b. Width, 4-foot minimum
   c. Color, Orange
2. Posts
   a. Wood Post – Nominal 2-inch square by 4 feet long.
   b. Fasteners – Staples, wire, zip ties, or nails sufficient to maintain fabric attachment to post.

PART 3 EXECUTION

3.1 PREPARATION

A. A Construction Stormwater Discharge Permit, COR400000, is required for this job. The Contractor shall create a Stormwater Management Plan (SWMP) in compliance with permit COR400000 and submit to the QMC for approval by. Refer to Specification 01355: Environmental Compliance for more information.

B. Follow the SWMP created for the project.

C. Do not start earth-disturbing activity until BMPs along the project perimeter and those protecting environmentally sensitive areas are installed.

D. Obtain written approval from the QMC to change the SWMP.

E. Work directly with the QMC and be available as needed to coordinate the SWMP, inspect and maintain erosion control devices, and resolve other sediment and erosion control issues.

F. Maintain a copy of the prepared SWMP on the project site at all times and attach the following items as they occur through project construction:
1. Any changes made to the SWMP
2. Inspection forms

G. Use the most restrictive requirement if a conflict occurs between erosion and sediment control specifications and federal, state, or local agency

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laws, rules, or regulations.

H. Install temporary environmental fence, when required, before construction begins.

3.2 INSTALLATION

A. The erosion control measures in the SWMP are illustrative. Adapt measures in the field to meet their intended purpose and implement appropriate, necessary erosion control measures as the project progresses. Make required changes to the SWMP to accommodate construction sequencing with the approval of the QMC.

B. Install additional erosion control measures as directed by the QMC.

C. Provide or construct BMPs such as check dams, silt fence, slope drains, drop inlet barriers, sediment traps, and other sediment and erosion control devices or methods to reduce erosion and sedimentation.

D. Install stabilization measures as soon as practical in newly disturbed areas but in no case later than 14 days after disturbance unless further construction activity precludes installation and will resume inside that area within 21 days from when activities ceased.
   1. Install stabilization measures on all bare ground before seasonal shut down.
   2. Install 12-inch straw wattles along the contours in locations identified in the SWMP.

E. Install temporary environmental fence in the required locations.
   1. Install posts at a 12-foot maximum spacing so the fence does not sag more than 2 inches between posts.
   2. Weave the fence over the support posts alternating every two loops and secure it to the posts with fasteners.

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3.3 INSPECTION

A. Inspect all denuded areas during construction to determine potential erosion problems. Apply corrective measures as required.

B. Inspect erosion control measures, including sediment retention structures, at least once a week upon beginning earth-disturbing activities and within 24 hours after any storm event greater than ½-inch. Conduct inspections at least once a month when construction activities are temporarily or seasonally shut down.
   1. Include the selected QMC on all inspections.

2. Complete a Division of Water Quality inspection form during each inspection and submit it to the Town of Rico within 24 hours of the inspection. Include the following information:
   a. Names of personnel attending and date of the inspection.
   b. List of problems identified in the previous inspection and note whether corrections have or have not been made.
   c. List by location, all earth-disturbing activities since previous inspection.
   d. List by location, erosion and sediment control measures installed since previous inspection.
   e. List by location, new and unresolved problems encountered with specific erosion control measures. Describe solutions to be implemented.
   f. Sign the inspection form.

C. Accommodate inspections requested by regulatory agencies.

3.4 MAINTENANCE

A. Maintain erosion control devices in order that they function properly until all disturbed areas are stabilized.

B. Remove and properly dispose of sediment when it has accumulated halfway up the overall structure height or when it interferes with the performance of the structure.

C. Dispose of sediment removed from erosion control structures in a manner acceptable to the Town of Rico and as directed by the QMC.

3.5 REMOVAL

A. Remove temporary sediment and erosion control devices as indicated below:
   1. Remove check dams in cut ditches when the areas draining to the cut ditch have been seeded and mulched or blanketed and the ditch has been permanently lined.
   2. Remove drop inlet and curb inlet protection when the areas draining to them have been stabilized.
   3. Remove silt fence and fiber rolls when the areas draining to them have been seeded and mulched or blanketed. Do not remove silt fence or fiber rolls if these devices are protecting a wetland or waterway.

B. Remove temporary environmental fence and posts upon completion of construction.

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1. Temporary environmental fence and all components become property of the Contractor when construction is complete.

3.6 PERMIT CLOSE-OUT

A. Obtain approval from the QMC that all permit requirements for final close-out under the Contractor's control have been met before terminating the permit.

END OF SECTION

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SECTION 01572

DUST CONTROL AND WATERING

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Provide and apply water for dust control and pre-wetting, mixing, or compacting materials.

1.2 RELATED SECTIONS

A. Section 01100: Quality Management Plan

B. Section 02056: Borrow, and Backfill

1.3 REFERENCES

Not Used.

1.4 DEFINITIONS

Not Used.

1.5 SUBMITTALS

Not Used.

1.6 PAYMENT PROCEDURES

A. The Town of Rico will not pay separately for furnishing or applying water used on the project.

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PART 2 PRODUCTS

2.1 WATER

A. Free of dirt, silt, or other detrimental matter in adequate quantities for dust control and watering requirements.

B. The Town of Rico will provide the Contractor water sources to establish filling stations at locations that do not impede traffic:

2.2 EQUIPMENT

A. Water distribution system – Self-propelled, pressure distributor with a spray system, equipped with a positive shut-off control. Pressure pump must have the capacity to apply the whole load uniformly.

B. Pressure system must operate at least 75 percent of the time during five successive workdays or be removed from the project. A gravity flow spray system may be used for the remainder of the shift in case of pressure system failure.

C. Water truck – 1,000 U.S. gallons minimum capacity, with the capacity clearly and permanently marked on the tank. The Town of Rico Quality Management Contractor (QMC) may require Contractor to verify capacity.

D. Metered pipeline may be used when pre-wetting. Apply at a rate and nozzle size to obtain desired results.

PART 3 EXECUTION

3.1 APPLICATION

A. Apply water for dust control in quantities and locations to eliminate visible dust in work areas and travel routes. The QMC may request additional controls based on field observations or public input. Do not waste water.

B. Reapply water at no additional cost to the Town of Rico when material containing natural or applied water dries due to the Contractor's inattention or neglect.

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END OF SECTION

SECTION 01721

SURVEY

PART 1 GENERAL

1.1 SECTION INCLUDES

A. The Contractor is responsible for establishing and maintaining survey control base stations.

B. Schedule, coordinate, and provide all construction surveying, staking, measurement, and calculations essential to complete the project and properly control the work.

C. Directed surveying as requested by the Town of Rico Quality Management Contractor (QMC).

1.2 RELATED SECTIONS

Not Used.

1.3 REFERENCES

Not Used.

1.4 DEFINITIONS

Not Used.

1.5 AUTHORITY & RESPONSIBILITIES

A. The Town of Rico: Owner and provider of construction drawings, specifications, and survey control data.

B. The QMC: The Quality Management Contractor awarded the contract by the Town of Rico to establish construction control points to perform survey-staking checks of Contractor work based on the Town of Rico approved contractor schedule. The Contractor may tie into the QMC survey base control at their discretion for setting lines and grades, to organize and coordinate work items, to verify the materials and quality, and quantity of work performed by the Construction Contractor.

C. Contractor: The Contractor awarded the contract by the Town of Rico for on-site construction activities and establishing and maintaining survey base control.

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1.6 SUBMITTALS

A. The Town of Rico requires that all submittals be signed and sealed by a Professional Land Surveyor licensed in the State of Colorado.

B. Re-submittals may be required depending on the completeness and correctness of the work.

C. Submit a statement before beginning work indicating that all horizontal and vertical control have been field checked and that the control has been determined to be accurate within the tolerances specified in this section. Attach field survey information used to verify control. Notify the Town of Rico verbally and in writing if discrepancies are found.

D. Provide a written description of the equipment before beginning work including calibration certifications, manpower, methods, and data storage format proposed for use to complete all survey activities.

E. Record keeping – Keep all field notes, diaries, and books according to standard surveying practice.
   1. Loose leaf books are not acceptable.
   2. Make available to the QMC upon verbal or written request at any time all survey records including field notebooks and forms used for the work.
   3. Electronic tablets are acceptable as field notebooks with pre-approval from the QMC.

F. Surveying and design data requirements:
   1. Return all surveying and design data to the QMC after project completion.
   2. Provide a red-lined hard copy plan set showing as-constructed features denoting changes from the original design.
   3. Provide an electronic copy of the red-lined 11 x 17 as-constructed plan, containing the As-built stamp dated and signed by the professional surveyor, in a colored PDF format as follows:
      a. Resolution of not less than 400 dpi.
      b. Maintain same drawing numbering in all electronic files with the term “as-constructed” in the title block.

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1.7 MEASUREMENT PROCEDURES

A. Directed Survey – Use a two-person crew measured by the authorized hour if the QMC requires extra survey work is needed.

1.8 PAYMENT PROCEDURES

A. Include the costs in all items of work that require survey.

1.9 QUALITY ASSURANCE

A. The Contractor is responsible for establishing and maintaining survey base control and the QMC will provide survey-staking checks based on the Town of Rico approved contractor schedule. The Contractor may tie into the QMC survey base control at their discretion. The QMC will notify the Contractor about correcting errors whether the errors are discovered during the actual survey work or in subsequent phases of the project. The Contractor bears any cost overruns resulting from errors.

B. Perform all work according to the plans and specifications and standard Engineering and Surveying practices under the responsible charge of a Professional Engineer or Professional Land Surveyor licensed in the State of Colorado.

C. The QMC may spot check the work for accuracy and may reject non-conforming portions of work. Resurvey non-conforming work and correct work that is not within the specified tolerances at no additional cost to the Town of Rico.

PART 2 PRODUCTS

2.1 EQUIPMENT

A. Furnish tools, supplies, and stakes suitable for use in survey work.

B. Furnish stakes and hubs of enough length to provide a solid set in the ground with sufficient surface area above ground for necessary legible markings.

C. Furnish survey instruments and supporting equipment capable of achieving the specified tolerances. Calibrate survey equipment for accuracy before starting survey work and as required during the project

PART 3 EXECUTION

3.1 PREPARATION

A. Discuss and coordinate the following with the QMC before survey work begins:
1. Required submittal
2. Survey and staking methods
3. Stake markings
4. Grade control
5. Referencing
6. Structure control
7. Any other procedures and control necessary for the work
8. Documentation procedures

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B. Using the established control points, establish construction survey points, elevations, and grades as necessary to control layout and complete the work. Verify all control surveying and staking meets specified tolerances before beginning work.

C. Calculate all grades, elevations, offsets, and alignment data necessary for staking or setting items of work. The contractor shall obtain approval from the QMC and the Town of Rico for alternate methods of establishing grade control with GPS, wire lines, computer, or laser controlled grading or other suitable methods.

D. Provide appropriate control for all survey activities conducted simultaneously with other various activities.

E. The QMC furnishes:
1. Plans showing locations of control points
3. Cross sections developed during design, if any
4. Electronic project data, if any

F. Contract Provision Disclaimer
1. Electronic data points are available in AutoCAD format only based on alignment station, offset, and elevations. The coordinate system is Colorado State Plane South – US Survey Foot, and NAVD 88 vertical datum.
3. Data points prepared by the QMC are for its own purposes and not for the benefit of private individuals or businesses.
4. Waive any claims that may result from the use of or reliance on QMC generated data points.
5. Indemnify the Town of Rico and hold it harmless for any damages, costs, attorney fees, or other liabilities that might be incurred because of Contractor's use and reliance on QMC generated data points.

3.2 DIRECTED SURVEY

A. Conduct Directed Surveying if requested by the Town of Rico or the QMC. Work includes:

1. Work needed for changes and extra work. Provide all labor, materials, and equipment.
2. Obtain written authorization from the QMC documenting the affected work and requirements before performing work under these items.
3. Directed survey will be compensated separately according to rates shown on the Compensation Schedule.

3.4 STAKE MAINTENANCE AND MARKINGS

A. Maintain all staking necessary for the work until the construction has been completed and accepted by QMC and the Town of Rico.

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1. Legibly mark all survey stakes with station and offset references to their respective control line.
2. Renew illegible stakes at no additional cost to the Town of Rico.

B. Provide and maintain reference stakes as referenced from the plans for scheduled areas of work as notified by the Contractor.

3.5 CONTROL POINTS AND SURVEY TOLERANCES

A. Relocate initial horizontal and vertical control points in conflict with construction to areas that will not be disturbed by construction operations. Furnish the coordinates and elevations for the relocated points to any affected party that may be using control points conjointly before the initial points are disturbed.

B. Protect benchmarks from construction activities. Position all benchmarks to allow a level rod to stand vertically and squarely on the mark. Reference benchmarks to centerline and horizontal measurements.

C. Survey and establish control points within the following tolerances provided in Table 1 below:

Table 1: Survey Control[1]

Description	Horizontal (ft.)	Vertical (ft.)
Survey Control Points	±0.10	±0.05
[2]Catch Basins and Pipes (slopes ≤ 2%)	±0.10	±0.05
[2]Catch Basins and Pipes (slopes > 2%)	±0.10	±0.10
Road Grading	±0.10	±0.10
Ditches	±0.10	±0.10

Table 1 Notes:
1. Coordinate the survey tolerances of any items not listed above with the QMC. The tolerances given above are subordinate to any tolerances listed in other specifications.
2. Maintain minimum slopes for pipe runs as shown on the drawings and maintain vertical tolerances at any point between connections as shown in Table 1.

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D. Staking Limits
1. Stake clearing limits.

E. Furnish reference stakes for all stakes used for setting items for work.
1. Maintain the reference stakes for the duration of the project until the QMC and the Town of Rico approves removal.
2. Establish slope stakes in the field as the actual point of intersection of the design slope with the natural ground line.
3. Set slope stake references outside the clearing limits.
4. Include all reference point and slope stake information on the

reference stakes.

F. Set Grade Finishing Stakes as follows:
   1. Grade elevations and horizontal alignment:
      a. At locations shown on plans.
   2. Reset grade finishing stakes as many times as necessary to construct the subgrade and each aggregate course.

3.6 CONCRETE PAVING

Not Used.

3.7 DRAINAGE STRUCTURES

A. Stake drainage ditches to fit field conditions and in coordination with the Town of Rico and the QMC. The location of the ditches may differ slightly from the plans.

   1. Survey and record the ground profile along the centerline of ditches and the structure.
   2. Determine the slope catch points at inlets, outlets, and at 50-foot intervals.
   3. Stake ditches and grade to make the structure functional.
   4. Plot the profile along the centerline of the structure to show the natural ground, flowline, and the structure.
   5. Mark grade stakes with the following, when applicable:
      a. Diameter, length, and type of culvert such as 15 in X 35 ft reinforced concrete pipe (RCP)
      b. The vertical and horizontal distance from the hub to the invert at the end of the culvert or intermediate point as needed or directed.
      c. Flow line grade of the pipe
      d. Station
   6. Provide a reference (at a maximum spacing of 50 ft) for storm sewers. Reference inverts of pipe at manholes.

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3.8 BOX CULVERTS

Not Used.

3.9 GUARDRAIL

Not Used.

3.10 EXISTING SURVEY MONUMENTS

A. Locate and reference all private and public land survey monuments that may be impacted by project construction activities before disturbing those existing monuments. Disturbances must be completed under the direction of a surveyor licensed in the State of Colorado. Public land survey monuments shall be preserved in coordination with the Dolores County.

B. Complete referencing and reestablishing those existing monuments at no cost to the Town of Rico and before project completion.

C. Reference and reestablish the monuments created by the county surveyor, if any.

1. Notify the county surveyor at least 30 days before the destruction of any monument.
2. Coordinate the re-establishment of section corner and quarter corner monuments with the county surveyor.
3. Submit drawings and notes to the QMC showing references to section corners and quarter corners.

D. The Town of Rico pays for the additional work under the Directed Survey item if a monument is found during construction but is not shown on the contract plans and must be reset.

3.11 RETAINING WALLS

Not Used.

3.12 CLEANUP

A. Remove and dispose of all flagging, lath, stakes, and other staking material after the project is complete.

3.13 UTILITES

A. Stake control lines as needed in cooperation with the utility companies so their facilities can be relocated to their proper final position.

B. Stake crossings or potential points of conflict between facilities to give proper horizontal and vertical control for the relocation.

C. Schedule this survey work with the utility companies to minimize delays and disruption of survey stakes.

D. Replace disturbed stakes as necessary to facilitate the relocations.

E. The Contractor is responsible for costs incurred to relocate utilities due to inaccurate or incomplete staking.

F. Collect survey grade coordinate data for exposed, relocated, and new utilities during construction.

END OF SECTION

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SECTION 01741

FINAL CLEANUP

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Finish and clean all areas disturbed by construction.

1.2 RELATED SECTIONS

A. Section 01355: Environmental Compliance

B. Section 01455: Materials Quality Requirements

C. Section 01571: Temporary Environmental Controls

1.3 REFERENCES

A. Stormwater Management Plan (SWMP).

1.4 DEFINITIONS

Not Used.

1.5 SUBMITTALS

Not Used.

1.6 PAYMENT PROCEDURES

A. All costs associated with Final Cleanup are incidental to other items of work and no separate measurement or payment will be made.

B. Clean up work directed by the Town of Rico outside the area disturbed by the contractor will be paid as extra work.

PART 2 PRODUCTS

Not Used.

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PART 3 EXECUTION

3.1 CLEANING PROCEDURES

A. Do not damage the final grade.

B. Only use equipment with rubber tread on the final graded surface.

C. Clean and finish disturbed areas within travel ways as follows:
   1. Remove protrusions or depression greater than 1 inch such as rocks, boulders, and ridges.

D. Clean drainage facilities of debris and obstructions caused by construction
   1. Dispose of material removed.

E. Remove all materials used as temporary environmental controls per Specification 01355 and the SWMP.

F. Remove all equipment and furnishings and clean spaces used for personnel and staging equipment and products.

G. Remove all anthropic debris Contractor created or otherwise and dispose of in an approved repository.

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END OF SECTION

SECTION 02056

BORROW AND BACKFILL

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Materials and procedures for construction of compacted fill, structure and trench backfill, clean fill, and general earthwork.

1.2 RELATED SECTIONS

A. Section 01100: The Town of Rico Quality Management Plan

B. Section 02075: Geotextiles

C. Section 02231: Site Clearing and Grubbing

D. Section 02721: Aggregate Base Course

D. Section 02922: Seeding and Shrub

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1.3 REFERENCES

A. AASHTO T 27: Standard Method of Test for Sieve Analysis of Fine and Coarse Aggregates.

B. AASHTO M 145: Standard Specification for Classification of Soils and Soil–Aggregate Mixtures for Highway Construction Purposes

C. AASHTO T 99: Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft^3 (600 kN-m/m^3)

D. AASHTO T 180: Moisture-Density Relations of Soils Using a 4.54 kg (10 lb) Rammer and 457 mm (18 in) Drop as modified by CP23.

E. AASHTO T 310: Standard Method of Test for In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth).

F. ASTM C131: Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine.

G. ASTM C535: Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine.

1.4 DEFINITIONS

Impacted materials – Soils which contain constituents of concern above the VCUP action levels. May contain vegetation, debris and other materials that have encountered impacted soils.

Borrow material – imported material for use in a constructed fill or backfill.

Sub-grade – Existing or cut surface that forms the foundation for future material, i.e. clean fill, geotextile, riprap, etc.

Well-graded material – Material with a gradation having all particle sizes represented, with a smooth shaped grain-size distribution curve and coefficient of uniformity greater than four and a coefficient of curvature between one and three inclusive.

1.5 SUBMITTALS

A. Provide the following before delivering material to the project:
   1. Supplier and source of materials.
   2. Gradation analysis (Refer to AASHTO T 27 or equivalent). Off-site materials only.
   3. Soil classification when applicable (Refer to AASHTO M 145 or equivalent). Off-site materials only.
   4. Maximum Dry Density and Optimum Moisture Determination
      a. Use AASHTO T 180 Method D for CDOT Class 6 Aggregate Base Course and AASHTO T 99 Method D for all other soils.

B. Requests, for review, to use Aggregate Base Course instead of granular borrow.

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1.6 MEASUREMENT AND PAYMENT

A. Refer to Compensation Schedule.

1.7 ACCEPTANCE

A. The Town of Rico Quality Management Contractor (QMC) reserves the right to select and test material from any location at the construction site.

B. Soil used as borrow and backfill must be verified as clean soils. Metal concentration must be below 100mg/kg for lead.

C. Density Requirement – Soil materials shall be compacted to the specified percentage of maximum dry density (relative to standard proctor results AASHTO T 99 or equivalent) as specified in Part 3, unless otherwise approved by the QMC. The Contractor shall check density with nuclear density field instruments to verify that compaction meets minimum density within the specified moisture range. QMC will observe or verify all testing. QMC will observe or verify all testing.

1. Verify that the optimum moisture content of ± 2 percent is maintained during compaction.
2. Determine the required compaction effort using a smooth drum vibrating roller compactor, starting with a minimum of two passes to achieve 95% compaction MDD per Modified Proctor.

D. For subgrade grading below compacted fill, density verification will be conducted by proof rolling.

E. For the rail corridor subgrade, provide 9 inches of compacted clean fill (CDOT Class 2 Structural Backfill Material) subbase placement over the existing grade in a single lift. Compact and conduct density and moisture testing once per 200 linear feet.
1. Replace unsuitable material at the existing rail grade as directed by the QMC with clean fill (CDOT Class 2 Structural Backfill Material) in 12-inch max lifts. Compact and conduct density and moisture testing at a minimum of once per lift or once per 200 linear feet, whichever is greater.

F. For the rail corridor's top 3-inch compacted final lift, refer to Section 02721 for CDOT Class 6 Aggregate Base Course material placement and compaction requirements.

G. For travel ways, refer to Section 02721 for CDOT Class 6 Aggregate Base Course material placement and compaction requirements.

H. For concrete structural backfill, use CDOT Class 2 Structural Backfill above the bedding zone and up to 12-inches below the lines and grades as shown on the construction drawings. Compact in 8-inch max loose lifts and conduct density and moisture testing at a minimum of once per lift or once per lift between concrete catch basins or junction boxes.

I. Remove any material found non-conforming and replace with acceptable material at no additional cost to the Town of Rico.

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PART 2 PRODUCTS

2.1 GENERAL

A. Provide materials free of contamination from chemical or petroleum products for embankment, borrow, and backfill placements.
1. Material may include recycled Portland Cement Concrete.
2. Do not include asphalt pavement materials.

2.2 CLEAN FILL GRANULAR BORROW TESTING REQUIREMENTS

A. Soil from the borrow source(s) will be tested to confirm suitability for use in soil remediation as clean cover soil.
1. Soil is suitable for clean cover soil if lead concentration is less than 100 mg/kg.

2. The required frequency for sampling and analysis for lead concentration shall be at least one sample for every 1,000 cubic yards of clean soil imported for soil remediation and 100 cubic yards for soil excavated locally from other parts of the Town.
    a. For existing stockpiles not previously tested for lead, the surface area of the pile will be subdivided using a systematic grid pattern. The grid areas will be sized to cover an area that corresponds to a volume of approximately 200 cy. Within each grid area, three subsamples will be collected, each one from a depth of 0 to 12 inches below the existing surface. These three subsamples will be composited into a single sample representing that 200 cy volume of soil. The volume transported will be tracked over time, and one sample will be collected for lead analysis for every 1,000 cubic yards transported to the site.
        i. Refer to Specification 02922 – Seedings and Shrubs for seeding preparation requirements.
    b. For borrow sources produced within the project, the soil shall be excavated, stockpiled and sampled for lead before being approved for use as fill.

2.3 GRANULAR BORROW MATERIAL CLASSIFICATIONS

Use for general fill purposes as subbase material in rail corridor, and in non-travel ways for backfilling around structures, such as pipe culverts and catch basins.

A. CDOT Class 1: Structural Backfill Material
1. Meet the gradation requirements of Table 1.

Table 1 – CDOT Class 1: Structural Backfill Gradation

Sieve Size	Mass Percent Passing Square Mesh Sieves
50 mm (2 inch)	100
4.75 mm (No. 4)	30 - 100
300 μm (No. 50)	10 - 60
75 μm (No. 200)	5 - 20

*LL not greater than 35.
**PL not greater than 6.
(Table 703-12, CDOT Standard Specifications)

B. CDOT Class 2: Structural Backfill Material
Class 2 structural backfill shall be composed of suitable materials developed on the project. To be suitable for use under this classification, backfill shall be free of frozen lumps, wood, or other organic material. If the material contains rock fragments that, in the opinion of the QMC, will be injurious to the structure, the native material shall not be used for backfilling, and the Contractor shall furnish

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Class 1 structural backfill material.

C. CDOT Class 3: Structural Backfill Material
Structural backfill shall be a sandy gravel from a clean borrow source.
1. Meet the graduation requirements of Table 2.

Table 2 – CDOT Class 3: Structural Backfill Gradation

Sieve Size	Mass Percent Passing Square Mesh Sieves
9.5 mm (3/8 inch)	90 - 100
4.75 mm (No. 4)	45 – 80
75 μm (No. 200)	5 - 12

(Table 703-13, CDOT Standard Specifications)

2.4 FREE DRAINING GRANULAR BACKFILL

Use as backfill around structures, such as pipe culverts and catch basins to improve drainage where water is encountered in the subgrade or as directed by the QMC.

A. Clean (washed), fractured rock

B. Meet the following gradation of Table 3:

Table 3

Free Draining Granular Backfill Gradation	
Sieve Size	**Percent Passing**
3 inch	100
2 ½ inch	90 to 100
2 inch	35 to 70
1 ½ inch	0 to 15
¾ inch	0 to 5

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2.5 DRAINAGE PIPE BEDDING

A. LOOSE STRUCTURAL BACKFILL.

Bedding shall be prepared per details DT.01 and DT.02 on sheet DT-07 of the construction plan set, and at the locations shown on the plans. The bed shall consist of the following:
1. Loose structural backfill that is well-graded material (CDOT Class 1 or Class 3 material) and at least 3 inches to 6 inches max thickness.
2. Maximum aggregate size is 1½ inches for plastic pipe, 2 inches for all other pipes.
3. Loosely placed CDOT Class 6 Aggregate Base Course material (see Specification 02721) may be as approved by the QMC.

B. Flowable fill. Refer to Section 03575.
1. Use only for drainage pipe backfill.

C. Other materials or trench configurations for drainage pipe bedding and backfill may be used when authorized.
   1. Native materials or uniformly graded materials enclosed in an appropriate drainage geotextile may be proposed.

PART 3 EXECUTION

3.1 PREPARATION

A. Complete clearing, grubbing, stripping of borrow areas before using material for fill. Refer to Section 02231.

B. Excavate and dispose of unsuitable material as directed by the QMC.

3.2 SUBGRADE GRADING

The following applies to subgrade surfaces.

A. Cut material to the design lines and grades to within +/-0.1-foot. Condition surface and compact subgrade, and verify compaction by proof rolling, unless otherwise approved by the QMC.

B. Remove debris and other human-made materials from the surface and place in designated disposal areas as approved by the QMC.

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3.4 CLEAN FILL BORROW PLACEMENT

The following requirements apply to all clean fill placement around pipes and structures.

A. Place 8 inches of compacted subbase with 2 minimum lifts. (CDOT Class 1 or Class 3 Material, or Class 2 (in-situ) material as approved by the QMC with a maximum particle size of 4 inches). Compact to 95% MDD at ± 2 percent optimum moisture, unless otherwise approved by the QMC.
   1. Moisture conditioning shall be performed uniformly at the stockpile prior to placement and/or during placement. If the compacted layer fails moisture requirements, the Contractor may rip halfway through the layer to add additional water or to dry out as needed. The Contractor shall take extra precautions to not rip up the installed separation geotextile.
      a. If the separation geotextile is damaged during aggregate base course placement and compaction, uncover and replace damaged section(s) per Specification 02075 – Geotextiles at no additional expense to the Town of Rico.
   2. Use Standard Proctor AASHTO T 99.

B. Maintain Drainage:
   1. Grade and maintain the access routes to borrow and stockpile areas to ensure adequate drainage into designated waterways.
   2. Maintain pipe culverts and drainage ditches or provide temporary facilities

when interrupting/redirecting existing drainage paths.

3.5 FREE-DRAINING GRANULAR BACKFILL PLACEMENT

A. Compact material in 1-ft maximum layers.

B. Finish surface within ±0.2 ft of line and grade.

3.6 DRAINAGE PIPE BACKFILL

The following requirements apply to drainage pipe backfill.

A. Place in 8-inch layers (uncompacted depth) and compact to the density requirements.

B. Place uniform layers of drainage pipe backfill on both sides of the pipe and compact to the density requirements before placing successive lifts.

C. Fully compact the haunch areas.

D. Outside of travel ways, compact each lift to a minimum average of 92 percent maximum laboratory density (MDD) at ± 2 percent optimum moisture, with no single determination less than 90 percent. Inside of travel ways, compact to 95 percent MDD at ± 2 percent optimum moisture, unless otherwise approved by the QMC.
   1. Use Standard Proctor as specified under references, this section.
   2. Maintain appropriate moisture for compaction during processing.

E. Meet the travel way section material density requirements for pipes that encroach into the travel way section or use flowable fill.

3.7 LIMITATIONS

A. Requirements when working during freezing or snowy conditions:

   1. Do not place fill on frozen or snow-covered areas.
   2. Do not deliver or use frozen material in fill.
   3. Remove snow and frozen material from fill areas and furnish fill material that can be compacted to the specified density.
   4. Remove waste and replace frozen embankment material at no additional cost to the Town of Rico.

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END OF SECTION

SECTION 02075

GEOTEXTILES

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Materials and procedures for installing geotextiles of the types shown on the drawings and at locations as directed by the Engineer.

1.2 RELATED SECTIONS

A. Section 01571: Temporary Environmental Controls

B. Section 02056: Borrow, and Backfill

1.3 REFERENCES

A. Mirafi 180N Nonwoven Geotextile Specification Sheet

1.4 DEFINITIONS

NTPEP Approved Geotextile – All geotextiles, including those sold under a private label agreement, being submitted for testing and approval must be submitted through the American Association of State Highway and Transportation Officials (AASHTO) National Transportation Product Evaluation Program (NTPEP).

1.5 SUBMITTALS

A. Manufacturer's product data, specifications, and recommended installation instructions.

1.6 MEASURMENT AND PAYMENT

A. Refer to Compensation Schedule.

1.7 SAMPLING AND TESTING

A. Test each lot of geotextiles before shipping and send test reports with the shipment to the Town of Rico. Clearly label all rolls as part of the same production run.

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1.8 PACKAGING, SHIPPING, AND STORING

A. Protect the geotextile from direct sunlight, chemicals, mud, dirt, and debris during shipment and storage. Replace any geotextile damaged or deteriorated during shipping, storage, or construction at no additional cost to the Town of Rico.

B. Labeling and Tagging
   1. Identify each package by a tag or label securely affixed to the outside of the roll on at least one end.
   2. Provide the following required information on the tag:
      a. Name of the geotextile manufacturer
      b. Brand name of the product, width, length, and package weight of geotextile

1.9 ACCEPTANCE

A. The Town of Rico accepts geotextile installation if it does not have defects, rips, holes, flaws, deterioration, or damage.
   1. Remove non-conforming geotextile from the project.

PART 2 PRODUCTS

2.1 SILT FENCE GEOTEXTILE

A. Refer to Section 01571.

2.2 DRAINAGE, STABILIZATION & SEPARATION GEOTEXTILE FABRIC

A. Furnish an 8-oz non-woven NTPEP approved geotextile (class 1 strength) for use as drainage, stabilization, and separation fabric. Refer to the NTPEP Technical Services – Materials – Approved List of Geosynthetics for Highway Construction for approved manufacturer list. Per specifications procure Mirafi 180 N (or equivalent) nonwoven geotextile composed of polypropylene fibers which are formed into a stable network as per specifications in Table 1.

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Table 1: Mirafi 180 N Specifications

Test Description	Test Method	Test Results
Mass per Unit Area	ASTM D 5261	8.2 oz/yd^2
Thickness	ASTM D 5199	2.1 mm
Grab Tensile Strength	ASTM D 4632	205 lbs
Trapezoid Tear Strength	ASTM D 4533	80 lbs
Grab Tensile Elongation	ASTM D 4632	50%
Mullen Burst Strength	ASTM D 3786	380 psi
Puncture Strength	ASTM D 4833	130 lbs
CBR Puncture Strength	ASTM D 6241	500 lbs
Apparent Opening Size (AOS)	ASTM D 4751	80 (U.S. Sieve)
Permittivity	ASTM D 4491	1.2 sec^{-1}
Permeability	ASTM D 4491	0.21 cm/sec
Flow Rate	ASTM D 4491	95 (gal/min/ft^2) retained
UV Resistance (at 500 hours)	ASTM D 4355	70 % strength retained

PART 3 EXECUTION

3.1 GENERAL

A. Place geotextile on areas that are smooth and free of projections or depressions. Do not drag the geotextile across the subgrade. Roll geotextile out as smoothly as possible in the direction of travel (if applicable).

B. Do not operate construction equipment or traffic directly on geotextile.

C. Cover the geotextile with indicated cover material as soon as possible when placed for construction. Do not leave uncovered or unsecured for more than five days.

D. Place cover material on the geotextile in a manner that the geotextile is not torn, punctured, or shifted. Do not end- dump cover material directly on the geotextile except as a starter course.

A. Limit construction vehicles in size and mass so rutting in the initial layer above the geotextile is not more than 3 inches deep or half the layer thickness, whichever is less.

B. Do not turn vehicles on the first layer of cover.

3.2 INSTALL SILT FENCE GEOTEXTILE

A. Refer to Section 01571.

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3.3 INSTALL DRAINAGE GEOTEXTILE FOR GEOWEB UNDERLAYMENT

A. Excavate ditch to size and depth indicated.

B. Cut geotextile to the width required and place in trench. Prevent damage to geotextile.

C. Overlap successive sheets of geotextile at least 12 inches in the direction of flow.

D. Place fill beginning with the sheets overlapped above subsequent sheets to hold geotextile in place.

E. Repair any damage to geotextile by placing patches extending 3 feet in all directions beyond the damaged area.

F. Place subsurface drainage geotextile on graded surfaces (no rocks >4 inches protruding from surface) and free of sharp projections (roots, etc.) or depressions (>4 inches).

3.4 INSTALL STABILIZATION AND SEPARATION GEOTEXTILE

A. Install Stabilization and Separation Geotextile at locations shown on the drawings or as designated by the Town of Rico Quality Management Contractor. (Use the same 8-oz non-woven geotextile for both stabilization and separation purposes.)

B. Overlap the geotextile at least 2 feet at all longitudinal and transverse joints or sew the geotextile unless otherwise specified. Refer to (G) this Section for sewing requirements.

C. Overlap each sheet over the next downhill sheet for placement on slopes.

D. Repair–Place patch over damaged area and extend 3 feet beyond the perimeter of the tear or damage.

E. Place fill to hold geotextile in place beginning with the sheets overlapped above subsequent sheets.

F. Use pins 18 inches long to help secure the geotextile during installation.

G. Stitch seam such that no subgrade can be seen through the seam and the edge of the geotextile will not distort or be damaged under the force of cover material placement.

END OF SECTION

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SECTION 02221

REMOVE STRUCTURE AND OBSTRUCTION

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Salvage as specified or dispose of debris in an approved manner. Recycle all materials to the extent feasible.

1.2 RELATED SECTIONS

A. Section 01355: Environmental Compliance

B. Section 02056: Borrow, and Backfill

1.3 REFERENCES

Not Used.

1.4 DEFINITIONS

Not Used.

1.5 SUBMITTALS

A. Copies of disposal permits, map of proposed debris placement, materials list of where all debris will be disposed of, and proof of proper disposal.

1.6 PROJECT SITE CONDITIONS

A. Protect adjacent structures and utilities and their contents that are designated to remain.

PART 2 PRODUCTS

2.1 CONCRETE

Not Used.

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PART 3 EXECUTION

3.1 PREPARATION

A. Prepare a field implementation plan for review and approval by the Town of Rico prior to beginning work. Upon approval, work may proceed.

B. Coordinate utility locations.
   1. Locate and protect all active utilities. The Town of Rico will identify their own underground utilities.
   2. Before beginning work:
      a. Notify The Town of Rico Quality Management Contractor (QMC).
      b. Notify all affected utilities.
      c. Have the utilities in the area located by Blue Stakes.

C. Restore utility services disturbed by construction operations as needed.

D. Disconnect water service.

E. Excavate all material as necessary to facilitate removal of structure.

3.2 BACKFILL AND COMPACTION

A. Fill all holes with suitable borrow material in lifts.
   1. In non-travel ways, compact according to Section 02056.
   2. In travel ways, compact according to Section 02721.

3.3 REMOVAL AND DISPOSAL

A. Remove and dispose of all material promptly using methods acceptable to the Town of Rico, applicable rules, regulations, and these specifications.

B. Repair any damage to adjacent areas at no additional cost to the Town of Rico.

C. Where possible, the Town of Rico prefers items to be recycled or disposed of off-site. In general, all clean materials, e.g. building debris, fence material, etc. should be either recycled or disposed of offsite in a regulatory agency-approved facility. For items being recycled or disposed off-site, obtain all required permits.

3.4 FENCE REMOVAL

A. Remove designated fences, posts, foundations, hardware, anchor assemblies, signs and any other associated debris.

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3.5 VEGETATION REMOVAL

A. Minimize tree and brush removal where possible.
   1. As needed, remove vegetation and dispose in a designated disposal area or as otherwise directed by the QMC.
   2. When there is no bid item included in the proposal:
      a. This work is considered incidental to other items of work and no separate measurement or payment will be made.
      b. Include all costs in other items of work.

3.6 REMOVE TREE

A. Where required, remove trees with a circumference larger than 20 inches measured at a point 2 ft above existing ground.

   1. A tree consists of stump, root, trunk, branches, and foliage.
   2. Multiple leaders rising from a common root will not be counted separately.
   3. Remove the root system to at least 2 ft below the finished ground level and within a 2 ft radius of the stump or as directed by the Town of Rico.

B. Trees removed with a circumference 20 inches or less measured at 2 ft above existing ground are considered incidental construction.

3.7 PIPE REMOVAL

A. Excavate all material necessary to permit removing items such as pipe and end sections.

B. Seal openings in remaining manhole walls, pipe ends or catch basins with watertight concrete plug, non-shrink grout, or other QMC approved sealant. See Specification 02633 for additional sealing requirements for concrete drainage structures. Backfill remaining voids in accordance with 3.2 above.

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END OF SECTION

SECTION 02231

SITE CLEARING AND GRUBBING

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Clear, grub, remove, and dispose of trees, stumps, and debris within the designated limits of the roadways, channels, easements, and other designated areas.

1.2 RELATED SECTIONS

A. Section 01355: Environmental Compliance

B. Section 01571: Temporary Environmental Controls

C. Section 02056: Borrow, and Backfill

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1.3 REFERENCES

Not Used.

1.4 DEFINITIONS

Clear – Remove and dispose of trees, stumps, logs, limbs, sticks, vegetation, debris, and other deleterious material on the natural ground surface.

Grub – Remove and dispose of roots, buried logs, debris, organic matter, and other deleterious materials under the ground surface.

Deleterious – Causing harm or damage. Deleterious Materials refers to earth, waste, or introduced materials exposed during mining operations, or ongoing construction activities in mining-impacted areas, which, when subjected to air, water, weather or microbiological processes, are likely to produce chemical or physical conditions in the soils or water that are detrimental to the biota or hydrologic systems.

1.5 SUBMITTALS

A. Copies of disposal permits, agreements, or both to the Town of Rico Quality Management Contractor (QMC).

1.6 MEASUREMENT AND PAYMENT

A. Refer to Compensation Schedule.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

3.1 PREPARATION

A. Verify with the QMC, the Town of Rico, and/or Individual Property Owner the vegetation or objects to be removed.

B. Review work procedures with the QMC.

C. Schedule work carefully with consideration for property owners and operations.

D. Refer to Specification 01571: Temporary Environmental Controls.

3.2 VEGETATION REMOVAL

A. See Compensation Schedule.

B. The QMC will designate all trees, shrubs, plants, and other objects to remain. Every object that is designated to remain and is damaged shall be repaired or replaced as directed at the Contractor's expense.

C. Clearing and grubbing shall extend to the toe of fill or the top of cut slopes, unless otherwise designated.

D. All surface objects, trees, stumps, roots, and other protruding obstructions not designated to remain shall be cleared and grubbed.
   1. In areas to be rounded at the tops of backslopes, stumps shall be removed to at least 2 feet below the surface of the final slope line.

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E. The Contractor shall clear and grub the areas within the excavation or embankment grading limits and shall include the removal from the ground of brush, roots, sod, grass, residue of agricultural crops, sawdust, and other vegetable matter.

F. Branches on trees or shrubs shall be removed as directed. Branches of trees extending over the roadbed shall be trimmed to give a clear height of 20 feet above the roadbed surface. All trimming shall be done per good tree surgery practices.

3.3 BACKFILLING

A. Backfill all stump holes, cuts, depressions, and other holes resulting from clearing and grubbing within areas to receive fill materials. Compact backfilled areas to the density of the surrounding ground using CDOT Class 1 material .

B. Where possible, use backfill material from on-site borrow locations.

3.4 DISPOSAL

A. Dispose of material. Refer to Section 01355.

3.5 PROTECTION

A. Land monuments, property markers, or official datum points
   1. Protect until their removal is approved.
   2. Reference for re-establishment before removing.

C. Protect trees from damage to roots and branches if they are designated to remain.

D. Protect other vegetation and objects designated to remain.

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END OF SECTION

SECTION 02373

LOOSE & CONFINED RIPRAP

PART 1 GENERAL

1.1 SECTION INCLUDES

Physical properties of rock materials and procedures for placing loose riprap and hand-placed riprap.

1.2 RELATED SECTIONS

A. SECTION 02075: Geotextiles
B. SECTION 03132: Soil Stabilization System (Geoweb)

1.3 REFERENCES

A. ASTM C131: Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine

B. ASTM C88-18: Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate

C. ASTM C127-15: Standard Test Method for Relative Density (Specific Gravity) and Absorption of Coarse Aggregate

D. ASTM C131: Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine.

E. ASTM C535: Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine.

F. ASTM C 131: Los Angeles Abrasion Test ASTM C 535: Los Angeles Abrasion Test

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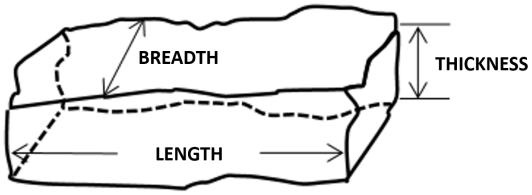
1.4 DEFINITIONS



Breadth – Second longest dimension of an individual stone along the y-axis.

Length – Longest dimension of an individual stone along the x-axis.

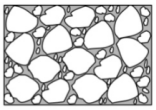
Thickness – Shortest dimension of an individual stone along the z-axis.

Riprap – A grouping of individual stones with specified physical properties, size and gradation

that when properly placed create an armoring to resist erosion.

Riprap Layer – Depth of riprap as defined on contract drawings. A riprap layer must be a minimum depth of at least two D_{50} stone diameters deep.

Well-Graded – Aggregate that contains particles of a wide range of sizes and has a good representation of all sizes as defined by product gradation specification.



1.5 SUBMITTALS

A. Contractor shall submit to the Town of Rico Quality Management Contractor (QMC) data showing riprap source gradation, wear and soundness, specific gravity, and placement technique 10 working days before use. Samples shall also be submitted for QC testing before use. Methodology and quality control testing will be verified on in-place material.

B. Contractor shall provide to the QMC data showing riprap source gradation, specific gravity, wear and soundness, and placement technique for review and approval before transporting riprap to project site. Testing requirements for abrasion resistance or compressive strength are indicated in Table 1-5.

Table 1-5
RIPRAP MATERIAL TEST REQUIREMENTS

Test Description	Test Method	Specification Requirement
Abrasion Resistance by Los Angeles Machine	ASTM C535	50% Loss, max.
Unconfined Compressive Strength of Drilled Core Specimen	AASHTO T 24	2500 psi, min.

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PART 2 PRODUCTS

2.1 AGGREGATE

A. Use rock meeting the physical property qualities as described below.
1. Do not use shale, mudstone, or other rock that may break into smaller pieces in the process of handling and placing.
2. Do not use concrete or asphalt rubble.
3. Do not use rock where the breadth or thickness of a single stone shape is less than one-third its length.

B. Minimum apparent specific gravity of 2.5 (2.25 confined in Geoweb, see Specification 03132) according to ASTM C127-15 at 70° F., 1 atm.

C. Confined riprap (Geoweb) – Crush and combine stones graded in size to produce a graded product as shown in Table 2-1:

Table 2-1
2-inch D_{50} Riprap Gradation

Sieve Size	Mass Percent Passing Square Mesh Sieves
75 mm (3 inch)	100%
63.5 mm (2.5 inch)	85-100%
50 mm (2 inch)	50-85%
25 mm (1 inch)	15-50%
12.5 mm (0.5 inch)	0-15%

D. Nominal stone size and total thickness of the riprap shall be as shown on the plans.

F. Control of gradation will be by visual inspection. The Contractor shall provide two samples of rock at least 5 tons each, meeting the gradation specified. One sample shall be provided at the construction site and may be a part of the finished riprap covering. The other sample shall be provided at the quarry.
1. These samples will be used as a reference for judging the gradation of the riprap supplied.
2. When it is determined necessary, the conformance of the gradation will be verified by dumping and checking the gradation of two random truckloads of stone.
3. Mechanical equipment, a sorting site, and labor needed to assist in checking gradation shall be provided at the Contractor's expense.

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PART 3 EXECUTION

3.1 PREPARATION

A. Clear and grub the work area per Specification 02231.

B. Provide a firm foundation by excavating to a dressed uniform surface conforming to the lines and grades shown in the plans.

C. Do not over excavate and disturb compacted foundations or undisturbed soils outside of the required lines and grades shown on the plans, unless otherwise directed by the QMC. Refer to Specification 01100 for plan deviation, documentation, and approval requirements.

3.2 LOOSE RIPRAP

A. Place stones to secure a rock mass conforming to the grades and dimensions shown on the plans. Distribute and manipulate the stones so that the larger rock fragments are uniformly distributed, and the smaller rock fragments serve to fill the spaces between the larger rock fragments. Place in a manner that results in well graded, densely placed, riprap layer of the thickness indicated on the plans.

B. Excavate at the toe of the slope and embed riprap as shown in the plans to protect against undercutting.

3.3 HAND-PLACED RIPRAP

A. Place and bed the stones, one against the other, and key together. Fill irregularities between stones with suitable size stones rammed tightly into place.

B. Provide an even, tight finished surface true to the dimensions shown in the plans.

C. Embed riprap below the ground surface as shown on plans.

3.4 COMPACTED RIPRAP

A. Place loose or confined riprap conforming to Paragraph 3.2 where indicated on the plans.

B. Compact properly placed loose riprap to create an un-segregated, dense, regular tight surface of graded interlocking sizes, true to the dimensions shown in the plans, and free from any irregular surface protrusions over 2 inches high.

3.5 CONFINED RIPRAP

Refer to Section 03132: Soil Stabilization System (Geoweb).

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END OF SECTION

SECTION 02610

DRAINAGE PIPE

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Pipe used to convey surface water and stormwater by gravity flow.

1.2 RELATED SECTIONS

A. Section 02056: Borrow, and Backfill

B. Section 02317: Structural Excavation and Backfill

C. Section 03055: Portland Cement Concrete

1.3 REFERENCES

A. AASHTO M 170: Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe.

B. AASHTO M 207: Reinforced Concrete Elliptical Culvert, Storm Drain and Sewer Pipe

C. AASHTO R 82: Pipe Joint Selection for Highway Culvert and Storm Drains

D. ASTM C 443: Joints for Concrete Pipe and Manholes, Using Rubber Gaskets

E. ASTM C 990: Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants

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1.4 DEFINITIONS

Deflection – Deviation from pipe's original shape.

NASSCO – National Association of Sewer Service Companies

Nominal Diameter – Inside diameter of the pipe specified.

1.5 SUBMITTALS

Provide all submittals to the Town of Rico Quality Management Contractor.

A. Manufacturer's certificate of compliance.

B. Manufacturer’s data sheets and installation instructions.

C. Pipe inspection report for each pipe for review. Include at least the following:
   1. The project number, date, and time of the inspection for each pipe inspection, the pipe identification used in the plan set, and type and size of pipe.
   2. A video recording of each pipe inspection in a digital format for remote inspection.
   3. Written and still image documentation of locations where alignment deviations, joint gaps, pipe damage, and any other deficiencies were observed.
   4. Written documentation of deflection testing and measurements.

1.6 ACCEPTANCE

A. General.
   1. Each pipe is accepted for payment after verifying that the following criteria have been met:
      a. Alignment
      b. Deflection
      c. Joint gap
      d. Damage
   2. Proposed resolutions for nonconforming pipes require the seal of a licensed Professional Engineer competent in the structural design of the pipe material being evaluated.

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B. Alignment.
   1. Do not exceed the installation horizontal and vertical alignment tolerances in Table 1.

Table 1

Installation Alignment Tolerances		
Design Grade	**Horizontal**	**Vertical***
		inch/100 ft
> 1%	Not to exceed the pipe manufacturer's requirements	1 1/2
0.5% - 1%		1
< 0.5%		1/2

* Increase tolerance by 50 percent for pipe with silt-tight joints.

C. Deflection.
   1. Do not exceed a 5 percent shape change from the nominal diameter.
      a. Proposals for acceptance of pipes with a deflection greater than 7.5 percent will be rejected.

D. Joint Gap.
1. Do not exceed the joint separation, measured along the length of pipe, in Table 2.
a. Repair or replace joints that show visible signs of soil or water infiltration.

Table 2

Joint Gap Tolerances	
Nominal Diameter (inches)	**Separation (inches)**
12 to 36	0.75
42 to 48	1
54 to 90	1.25
96 to 144	1.75

E. Damage
1. Pipes are to be free from:
a. Cuts, cracks, spalls, chips, or punctures.
1) Cracks are allowable up to 0.01 inch in width for reinforced concrete pipe
b. Loss or delamination of coatings.
c. Exposed reinforcing steel.
d. Imperfect concrete mixing and casting such as honeycomb or open texture.

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PART 2 PRODUCTS

2.1 PIPE

A. GENERAL.
1. Provide pipe according to the size, material and interior roughness, and joint type specified.
a. Meet the material requirements in Table 3.
b. Meet the joint requirements of AASHTO R 82 for silt-tight and leak-resistant joints.
c. Determine the strength and thickness of the pipe required based on the cover over the pipe. Refer to the DG Series Standard Drawings.
d. Maintain the same type of pipe material, joint, strength and thickness throughout the entire length of pipe.
2. Internally label each section of pipe with the manufacturer's name and trademark, nominal diameter and manufacture date. Including the pipe class, gauge, and coating according to the pipe material type.
a. Place the pipe so that the location of the label is above the spring line of the pipe.

Table 3

Pipe Material Specifications	
Interior Roughness and Material Type	
Smooth	
Reinforced Concrete Pipe	AASHTO M 170

B. Reinforced Concrete Pipe.
   1. Use a pre-qualified supplier of precast concrete products.
   2. Use Type V Cement. Refer to Section 03055.
   3. Do not cast lift holes except for circular pipe that has a nominal diameter greater than 54 inches or an elliptical pipe.
      a. Plug and seal lift holes in a manner such that the pipe section will meet pressure requirements.
   4. Use a rubber gasket for circular reinforced concrete pipes. Refer to ASTM C 990.
   5. Use a mastic joint sealant for elliptical reinforced concrete pipe. Refer to ASTM C 990.
   6. This pipe shall conform to the requirements of AASHTO M 170 for the specified diameters and strength classes. Unless otherwise specified, pipe wall design and use of elliptical reinforcement in circular pipes are optional. Reinforced concrete pipe being jacked shall be Class V and shall be furnished with grouting nipples spaced not more than eight feet apart. Joints for this pipe shall come equipped with steel rings and rubber gaskets conforming to ASTM C361.
   7. Elliptical pipe conforming to AASHTO M 207 shall be furnished when required on the plans. Arch pipe conforming to AASHTO M 206 shall be furnished when required on the plans.
   8. Precast reinforced concrete end sections shall have one of the following:
      a. At least one line of reinforcement conforming to the requirements of AASHTO M 170 equivalent to the square inches per linear foot for elliptical reinforcement in circular pipe, Class II, Wall B, or
      b. Macro fiber at 5.0 lb/cy.
   9. Pipe shall be obtained from a manufacturer that is a current plant quality certified member of the American Concrete Pipe Association (ACPA), meeting all current ACPA requirements for this certification.
   10. A copy of the ACPA certification shall be submitted to the Quality Management Contractor (QMC) before delivery of the pipe.

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2.2 PIPE FOUNDATION, BEDDING, AND BACKFILL MATERIAL

A. Refer to Section 02056.

PART 3 EXECUTION

3.1 INSTALLATION

A. Excavation and Backfill
   1. Refer to plan Drawings.
   2. Keep trenches free from water.
   3. Grade and prepare the bottom of the trench to provide a firm and uniform bearing throughout the entire length of the pipe.
      a. Do not use blocking to bring the pipe to grade.
      b. Shape the pipe foundation and bedding to have recesses to fit any projecting hubs or bells.
   4. Remove and relay or replace pipe that is out of alignment, not joined properly or damaged before placing backfill.

B. Follow manufacturer's recommendation for connecting pipes and for connecting pipe to end sections, concrete headwalls, catch basins, and similar structures.
   1. Do not allow pipes of different types of metal to contact each other.
   2. Spray or brush-coast aluminum pipe contacting concrete with asphalt mastic to a minimum thickness of 0.05 inch.

3.2 POST INSTALLATION PIPE INSPECTION

A. General.
   1. Inspect pipes after installation of pipe, placement of backfill and before placing pavement or finished grade according to Table 4 and Table 5.

Table 4

Roadway Functional Classification	Percent of Pipes to Inspect
Interstate and Arterial	100
Collectors and Local	50

Table 5

Pipe Testing Requirements				
Pipe Size	Visual		Deflection*	
	Manual	Remote	Manual	Mandrel
≤ 48-inch dia.		x		x
> 48-inch dia.	Not used.			

*Deflection testing is required for circular metal and thermoplastic pipe only.

   2. The QMC will determine which pipes to inspect when the percentage of pipe to inspect is less than 100 percent.
      a. Inspect additional pipes with apparent defects and as directed by the QMC.

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3. Inspection is not required for pipes less than 20 ft in length.
4. Notify the QMC at least 24 hours before performing an inspection.
5. Clean and flush the pipe with water immediately before the inspection.
    a. Remove and dispose material and debris from pipes.

B. Remote Inspection.
1. CCTV Equipment:
    a. Record video using a crawler mounted camera capable of panning and tilting to a 90-degree angle with the axis of the pipe and rotating 360 degrees.
    b. Center the camera head in the pipe both vertically and horizontally to allow a clear picture of the entire periphery of the pipe.
    c. Video image must be continuously illuminated, clear, focused, and free from roll, static, or other image distortion qualities that may prevent the reviewer from evaluating the pipe's condition.
        1) Calibrate the video's lighting and focus on viewing the internal markings within the pipe.
2. CCTV Inspection.
    a. Use the video image to observe horizontal and vertical alignment deviations, joints gaps, and pipe damage.
        1) Document all observations with captions in the video.
        2) Note each location and provide a still image in the inspection report.
    b. Do not move the crawler through the pipe at a speed greater than 30 ft/minute.
        1) Stop the crawler and video the entire circumference at each joint.
        2) Stop the crawler and zoom when necessary to video observations.

C. Manual Inspection.
1. Perform manual inspection for pipes in the presence of the QMC.
    a. Follow OSHA requirements for inspecting confined entry spaces.
2. Observe and document the following:
    a. Deflection - Take the following measurements every 10 ft along the length of the pipe to the nearest ¼ inch:
        1) Vertically from the crown to invert.
        2) Horizontally at the spring line.
        3) Two measurements, each diagonally at 45 degrees to the pipe spring line.
    b. Cracks – Measure cracks using a device capable of measuring 0.01 inch.
    c. Joint Gaps – Measure the widest separation at each joint to the nearest ¼ inch.
    d. Damage.

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D. Mandrel Inspection.

1. Perform the mandrel inspection for pipes in the presence of the QMC or representative.
   a. Verify the diameter of the mandrel with a proving ring or other method according to manufacturer's recommendations.
2. Mandrel:
   a. Contain at least nine equally spaced runners (40 degree angles).
   b. Length not less than the diameter.
3. Deflection test:
   a. Pull a mandrel that is 5 percent less than the pipe nominal inside diameter.
   b. Perform the following if the mandrel does not pass:
      1) Record the maximum distance achieved from the inlet side.
      2) Remove the mandrel and continue the inspection from the outlet end of the pipe toward the inlet end. Record the maximum distance achieved from the outlet side.
      3) Repeat inspection with a mandrel that is 7.5 percent less than the pipe nominal inside diameter.

END OF SECTION

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SECTION 02633

CONCRETE DRAINAGE STRUCTURES

PART 1 GENERAL

1.1 SECTION INCLUDES

Pipe used to convey surface water and stormwater by gravity flow.

1.2 RELATED SECTIONS

A. Section 02056: Borrow and Backfill

B. Section 02317: Structural Excavation and Backfill

C. Section 03055: Portland Cement Concrete

D. Section 03211: Reinforcing Steel and Welded Wire

E. Section 03310: Structural Concrete

F. Section 03390: Concrete Curing

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1.3 REFERENCES

A. AASHTO M 198: Joints for Concrete Pipe, Manholes, and Precast Box sections using preformed flexible joint sealants.

1.4 DEFINITIONS

Catch Basin/Drop Inlet – a structure accepting drainage from gutters or medians or other channels and discharging the water through a conduit.

Inlet - A grated surface connection to a closed conduit such as a storm drain. A structure at the upstream end of a cross culvert. The upstream end of any structure through which water may flow.

1.5 SUBMITTALS

A. Provide to the Town of Rico Quality Management Contractor (QMC) a submittal for precast concrete drainage structures prior to procuring. Confirm each precast concrete structure matches or exceeds reinforced concrete specifications per construction drawing details and this specification.

B. Create and submit to the QMC a repair procedure for approval of precast Concrete Drainage Structures that are damaged during shipping or handling.
   1. Submit before performing any repairs. Refer to this Section, Article 1.6, paragraph B.

1.6 ACCEPTANCE

A. Repair or replace any structure that has the following:
   1. Fractures or cracks passing through the wall except for a single end crack that does not exceed the thickness of the precast unit.
   2. Defects showing improper proportioning, mixing, or molding.
   3. Honeycombing and open texture.
   4. Damaged or cracked ends that prevent joining manhole, or inlets grade rings and sections.
   5. Any continuous crack with a surface width of 0.01 inch or more that extends more than 12 inches anywhere on the wall.
   6. Limit cracks or fractures for grade rings or similar structures. Refer to ASTM C478

B. Precast Structures:
   1. Furnish precast structures that are plumb and square within 1/8 inch per foot so that precast adjoining elements fit.

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PART 2 PRODUCTS

2.1 CONCRETE

A. Wet cast – CDOT Class B. Refer to Section 03055.

B. Dry cast – Submit mix design for approval.
   1. Minimum cement content: 470 lb/yd^3
   2. Maximum water/cementitious ratio: 0.44

2.2 REINFORCING STEEL AND WELDED WIRE

A. Refer to Section 03211

B. Chromium reinforcing steel may be substituted for coated reinforcing steel.
   1. Deformed low-carbon, chromium, steel bars
      a. Alloy Type 1035 cm or 1035 cs
      b. Grade 100
      c. Refer to ASTM A 1035
   2. Use chromium steel as a direct substitute for coated reinforcing steel.
      a. Use the same number and size of bars as shown for coated bars.
      b. Assume a yield strength of 60 ksi for design.

2.3 PRECAST CONCRETE DRAINAGE STRUCTURES

A. Use a prequalified supplier of precast concrete products.

B. Furnish structures free of voids, crack, and with beveled corners and edges. Securely attach all inserts in the proper location.
   1. Prevent cold joints in the structure.
   2. Field verify the fit and function at structure locations before manufacturing.

C. Precast Inlets and Boxes
   1. Furnish structures according to DR or CB Series Standard Drawings.
      a. Attach and secure all inserts at the place of manufacture such as wall sleeves, gaskets or piping, sumps, steps, access hatches, and any other inserts as shown on the DR or CB Series Standard Drawings.
   2. Manufacture structures according to applicable requirements of ASTM C 858 and as modified by this Section.
      a. Meet AASHTO M 199 and ASTM C 857 requirements.
      b. Cure wet cast members according to Section 03390.
   3. Provide sufficient lifting points for a safe installation.
      a. Locate lifting devices to avoid interference with the reinforcing steel.
   4. Do not ship precast units until after 28-day minimum compressive strength has been attained.
      a. Protect the unit from damage.
   5. Furnish structures with appropriate openings for connecting pipe.
      a. Cast or cut structure openings. Do not expose reinforcing steel or reduce reinforcing steel covering at openings.
      b. Do not modify precast units in the field by cutting or enlarging holes or by making any other changes without the manufacturers and Engineer's approval.
      c. Modify precast units only according to manufacturer requirements.

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2.4 JOINTS AND SEALERS

A. Preformed Joint Filler. Refer to AASHTO M 213 and AASHTO M 198.

2.5 NON-SHRINK GROUT

A. Use non-shrink grout according to ASTM C 1107.

2.6 FORMS

A. Use plywood, wood, metal, glass, or a combination of these materials.

2.7 GASKETS AND JOINT SEALANTS FOR CONNECTING PRECAST SECTIONS

A. Furnish gaskets for sealing precast sections that meet ASTM C 443 requirements.

B. Furnish gaskets for sealing precast concrete manholes that meet AASHTO M 315.

C. Furnish epoxy resin adhesive. Refer to AASHTO M 235.

D. Furnish “O” Ring according to ASTM C 361 as shown in the CB Series Standard Drawings.

2.8 GRANULAR BACKFILL BORROW

A. Refer to Section 02056.

PART 3 EXECUTION

3.1 EXCAVATION, BEDDING AND BACKFILL

A. Refer to Section 02137

B. Excavate to at least 4 inches below the bottom of the structure.

C. Place a bedding of at least 4 inches of granular backfill borrow or as shown.
   1. Add as needed, a sand-leveling course no greater than 2 inches in depth to the backfill material.
   2. Excavate the area to the appropriate depth to accommodate the bedding and leveling course, when used.

D. Backfill structure using granular backfill borrow.

E. Furnish structures fee of voids, cracks, and with beveled corners and edges. Securely attach all inserts in the proper location.
   1. Prevent cold joints in the structure.

3.2 INSTALLATION

A. Precast Inlets and Boxes
   1. Refer to ASTM C 891. Comply with manufacturer installation guidelines.
      a. Inspect precast drainage structures for defects before lowing into excavation.
      b. Clean the mating surfaces of all foreign materials such as dirt, mud,

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and stones and apply proper joint sealing material where applicable.
c. Assemble all joints tightly.
d. Use care when joining precast elements in cold weather. Do not force joints together with mechanical equipment.
e. Sufficiently warm all sealing materials to flow without causing damage to precast joint elements.

2. Do not place precast drainage structure in excavation that has water and frozen surfaces.
3. Plug lift insert recesses with 1:1 sand to cement grout mix.
a. Finish flush with top, bottom, or both surfaces of concrete.

B. Cast-in-place concrete drainage structures.
1. Construct Cast-in-place structures free of voids, cracks, and with beveled corners and edges.
a. Securely attach all inserts in the proper location.
b. Prevent cold joints in the structure.
c. Refer to sheet DT-05 in the Town of Rico Stormwater Control Plan Set.
d. Construct according to Section 03310.
e. Cure according to Section 03390.

C. Clean and prepare the mating surfaces before assembly of pipes with structure.
1. Use one of the following methods to connect the pipes to the structure for Cast-in-place:
a. Pipe boot according to pipe manufacturer specifications for pipe type.
b. Non-shrink grout to seal the pipe connection.

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END OF SECTION

SECTION 02075

AGGREGATE BASE COURSE

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Production, construction, and compaction of Aggregate Base Course for unpaved roads, and concrete flatwork.

1.2 RELATED SECTIONS

A. Section 01572 – Dust Control and Watering
B. Section 02075 – Geotextiles
C. Section 02231 – Site Clearing and Grubbing

1.3 REFERENCES

A. AASHTO T 11: Material.

B. AASHTO T 19: Bulk Density (“Unit Weight”) and Voids in Aggregate.

C. AASHTO T 27: Standard Method of Test for Sieve Analysis of Fine and Coarse Aggregates.

D. AASHTO T 89: Determining the Liquid Limit of Soils.

E. AASHTO T 90: Determining the Plastic Limit and Plasticity Index of Soils.

F. AASHTO T 96: Resistance to Degradation of Small-Sized Course Aggregate by Abrasion and Impact in the Los Angeles Machine.

G. AASHTO T 180: Moisture-Density Relations of Soils Using a 4.54 kg (10 lb) Rammer and 457 mm (18 in) Drop as modified by CP23.

H. AASHTO T 310: Standard Method of Test for In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth).

I. AASHTO T 193: The California Bearing Ratio.

J. AASHTO T 255: Total Evaporable Moisture Content of Aggregate by Drying.

K. AASHTO T 335: Determining the Percent of Fracture in Course Aggregate.

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1.4 DEFINITIONS

Not Used.

1.5 SUBMITTALS

A. Provide the Town of Rico Quality Management Contractor (QMC) with a written report for approval for each aggregate class and source, a minimum of five working days before placement. Include the following:
   1. Aggregate suitability. Refer to this Section, Part 2.
   2. Name of supplier and location of source.
   3. Maximum Dry Density and Optimum Moisture Content and associated test result data. Refer to AASHTO T 180, Method D.
   4. Job mix gradation includes single values for each sieve size, No. 4 and finer. The target values must be within the gradation limits of Table 2.

B. Job-mix gradation changes
   1. Refer to this Section, Article 3.2.

1.6 ACCEPTANCE

A. The Town of Rico Quality Management Contractor (QMC) reserves the right to select and test material from any location at the construction site.

B. The Contractor shall mix the aggregate by methods that ensure a thorough and homogenous mixture. Provide to the QMC material gradation results for approval prior to placement.

C. Material not meeting the gradation requirements may be allowed to remain in-place at the discretion of the QMC and the Town of Rico provided density requirements are met.
   1. Additional lots may not be placed until the deficiencies are addressed and corrected.

D. The Contractor shall check density with nuclear density field instruments to verify that compaction meets minimum density within the specified moisture range. QMC will observe or verify all testing.
   1. Verify that the optimum moisture content of ± 2 percent is maintained during compaction.
   2. Determine the required compaction effort using a smooth drum vibrating roller compactor, starting with a minimum of two passes to achieve 95% compaction MDD per Modified Proctor.

E. Correct material that does not meet the specified criteria by scarifying, placing additional material, re-mixing, reshaping, and re-compacting when determined by the QMC.

F. Procedures for Changing the Job-Mix Gradation

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1. Submit changes in writing 24 hours before placement for approval by the Engineer.

G. Do not place additional material on any unaccepted layer.

PART 2 PRODUCTS

2.1 AGGREGATES

A. Aggregates for bases shall be crushed stone, crushed slag, crushed gravel, natural gravel, or crushed reclaimed concrete. All materials shall conform to the quality requirements of AASHTO M 147 except that the requirements for the ratio of minus 75 µm (No. 200) sieve fraction to the minus 425 µm (No. 40) sieve fraction, stated in 3.2.2 of AASHTO M 147, shall not apply.

B. Aggregates shall meet Los Angeles wear test requirements (AASHTO T 96 and ASTM C535) for class 6 material.

C. The liquid limit shall not be greater than 30, and the plasticity index shall not exceed 6 when the aggregate is tested per AASHTO T 89 and T 90, respectively.

D. Establish the job mix target gradation for the ¾ inch sieve and finer within the gradation limits.
1. The Job Mix Gradation Tolerance is the allowable deviation from the job mix (target) gradation on the applicable sieves.
2. All other percents passing will be within the gradation limits. Refer to AASHTO T 11 and AASHTO T 27.

Table 2.1 - Aggregate Base Course Gradation Range Class 6 CDOT

Sieve Size	% Passing
25 mm (1")	100
19 mm (3/4")	95-100
4.75 mm (#4)	30-65
2.36 mm (#8)	25-55
75 mm (#200)	3-12

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PART 3 EXECUTION

3.1 PREPARATION

A. Remove vegetation before placement. Refer to Section 02231.
1. Protect existing delineators in place.

B. Compact the subgrade and field verify the subgrade surface is firm and does not pump under heavy equipment loading.
   1. If the compacted fill depth is less than 6 inches, rip the top 6 inches of the existing grade, water condition the rip material, and compact to 95% MDD Modified Proctor.
   2. Remove unsuitable material and replace with CDOT Class 6 Aggregate Base Course material as directed by the Town of Rico Quality Management Contractor (QMC). Compact to the subgrade lines and grades per requirements in Section 3.2
      a. Install 8-oz non-woven geotextile fabric if excavation of unsuitable material exceeds 12 inches as directed by the QMC. (Refer to Specification 02075 – Geotextiles.)

3.2 INSTALLATION

A. Place in layers of uniform thickness and compact each layer to a thickness not to exceed a 6-inch depth.

B. Lifts exceeding 6 inches shall be constructed in two or more layers of approximately equal thickness. The maximum compacted thickness of any one layer shall not exceed 6 inches.
   1. When vibratory or other approved types of special compacting equipment are used, the compacted depth of a single layer may be increased to 8 inches upon request, provided that specified density is achieved, and written approval is given.

C. Compaction of each layer shall continue until a density of at least 95 percent of the maximum density has been achieved as determined per AASHTO T 180 as modified by CP 23. The moisture content shall be at ± 2 percent of optimum moisture content.
   1. The surface of each layer shall be maintained during the compaction operations so that a uniform texture is produced, and the aggregates are firmly keyed.
   2. Moisture conditioning shall be performed uniformly at the stockpile prior to placement and/or during placement. If the compacted layer fails moisture requirements, the Contractor may rip halfway through the layer to add additional water or to dry out as needed. The Contractor shall take extra precautions to not rip up the installed separation geotextile.
      a. If the separation geotextile is damaged during aggregate base course placement and compaction, uncover and replace damaged section(s) per Specification 02075 – Geotextiles at no additional expense to the Town of Rico.
   3. Do not place on any frozen surface. Refer to Section 01572.

D. Finish to a uniform line and grade with surface deviations of ±0.1 feet.
   1. Correct any profile deviations greater than ±0.1 feet.
      a. Rework minimum of 4-inch lift to achieve homogeneous density.
      b. Determine limits of correction based on extent of deviation.
      c. Continue finishing until existing deviation is less than ±0.1 feet.

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END OF SECTION

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SECTION 02776

CONCRETE FLATWORK

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Concrete flatwork items such as sidewalk, curb, gutter, and concrete lined waterway.

1.2 RELATED SECTIONS

A. Section 02056: Borrow and Backfill

B. Section 02721: Aggregate Base Course

C. Section 03055: Portland Cement Concrete

D. Section 03152: Concrete Joint Control

E. Section 03211: Reinforcing Steel and Welded Wire

F. Section 03390: Concrete Curing

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1.3 REFERENCES

Not Used.

1.4 DEFINITIONS

Not Used.

1.5 SUBMITTALS

A. Provide to the Town of Rico Quality Management Contractor (QMC) shop drawings of pre-cast concrete flatwork for approval.

B. For cast-in-place concrete flatwork, provide to the QMC all working drawings (including plan set markups) that indicate the location(s) and type(s) of structure(s) per Specification 03310: Structural Concrete.

1.6 ACCEPTANCE

A. Concrete flatwork may be accepted at a reduced price when the concrete strength is below that specified.
   1. Refer to section 03055 for pay factor adjustment.

PART 2 PRODUCTS

2.1 CONCRETE

A. Class B Concrete – Refer to Section 03055.

2.2 AGGREGATE BASE COURSE

A. Refer to Section 02721

2.3 REINFORCING STEEL

A. Coated reinforcing steel. Refer to Section 03211.

PART 3 EXECUTION

3.1 GENERAL

A. Construct as shown on the Town of Rico Stormwater Control Plan DT series sheets and the project plans.

3.2 PREPARATION

A. Construct subgrade to plan elevations. Refer to Section 02056.

B. Place and compact Aggregate Base Course per Section 02721.

C. Install pre-cast concrete waterway sections in accordance with Construction Sheet DT-05.
   1. Connect two pre-cast concrete waterway sections together with No. 4 dowel end connections matching the spacings shown in details 01 and 02 on Construction Sheet DT-05. Drill and install with epoxy resin adhesive (refer to AASHTO M 235).

D. Forms:
   1. Use wood, metal, reinforced fiberglass, or plastic forms free of warps or bends and of sufficient strength to prevent deflection during the placement of

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concrete.
a. Transition smoothly from curves to straight sections.
1) Keep forms in curves free of flat sections and sharp bends.
b. Anchor securely in place.
c. Clean the inside surface of all dirt, concrete, and foreign material before concrete placement.

3.3 PLACE AND FINISH CONCRETE

A. Dampen the subgrade just before concrete placement.

B. Hand methods of strike-off and consolidation are permitted.

C. Finish the surface smooth with a non-steel concrete finishing float.
1. Do not add water to the surface of the concrete.
2. Remove form marks and irregularities.

D. Round edges to a ½ inch radius.

E. Brush exposed surfaces to a transverse broom finish except as follows:
1. Provide a parallel broom finish for gutters.

3.4 EXPANSION AND CONTRACTION JOINTS

A. Place joints perpendicular to the subgrade.

B. Contraction Joint:
1. Space the joints 10 ft apart.
2. Use 1/8 inch to 3/16-inch-thick steel plate templates.
a. Remove the templates as soon as the concrete initially sets.
3. Cut joint 1-1/2 inch deep when using slip form method to place the concrete.

C. Expansion Joints:
1. Use ½ inch thick pre-molded expansion joint filler.
2. Place an expansion joint every 30 ft with the following exception not to place:
a. Slip form method to place concrete.
b. Gutters
3. Place joint filler between the sidewalk or median filler and the curb or adjacent pavement, sidewalk, driveway pavement, or structure.

3.5 CONCRETE CURING

A. Refer to Section 03390.

END OF SECTION

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SECTION 02922

SEEDING

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Surface preparation

B. Seeding requirements

C. Seed mixes

D. Organic amendment

E. Fertilizer

F. Mulch

G. Tackifier

H. Rolled Erosion Control Products (RECPs)

1.2 RELATED SECTIONS

A. Specification 02056: Borrow, and Backfill

1.3 REFERENCES

A. Rico-Argentine Site, Rico, Colorado Technical Specifications Expanded Constructed Wetlands Treatment System

B. CDOT Standard Specifications for Road and Bridge Construction, 2023, Section 208 – Erosion Control

C. CDOT Standard Plan M-208-1 – Temporary Erosion Control

1.4 DEFINITIONS

A. RECPs-Rolled Erosion Control Product: Biodegradable or synthetic erosion control blankets (ECBs) or turf reinforcement mats (TRMs) designed to stabilize soil, promote vegetation establishment, and reduce erosion in drainage channels, slopes, and disturbed areas.

1.5 SUBMITTALS

A. Contractor shall submit materials data sheets to Town of Rico Quality

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Management Contractor (QMC) for review/approval prior to purchase and delivery to the Site.

B. Provide a copy of the purchase order to the, documenting that all seeds and shrubs, including substitutions, have been acquired before the seeding window begins.
   1. List the common and botanical name for each seed species on the purchase order.
   2. Changes or substitutions to seed mix and shrub species shall be authorized by the Town of Rico.

C. Legible copy of Seed Certification Reports to the QMC.

D. Seed certification – Include the following on seed certification reports and labels:
   1. Botanical name (include variety if applicable)
   2. Common name
   3. Name of seed testing laboratory
   4. Lot number and address of the seed company
   5. Weed seed (percent)Other crop seed (percent)
   6. Pure live seed (percent)
   7. Noxious weed seed (name and rate of occurrence)
   8. Date tested (month and year)
   9. Germination (percent)
   10. Hard seed (percent)
   11. Net weight (do not include container weight)
   12. Pure live seed weight
   13. Collection locations for native shrub and tree species (state, county, elevation).

E. RECPs

1. Submit manufacturer's product data sheets, including:

   - RECP type (Type 1 ECB, Type 2 ECB, Type 3 TRM, or Type 4/5 High-Performance TRM).
   - Material composition (e.g., straw, coconut, synthetic fibers).
   - Tensile strength, shear stress resistance, and vegetation establishment performance (per ASTM D6459).
   - Certification that RECPs are weed-free and meet CDOT-approved product list standards.

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1.6 QUALITY ASSURANCE

A. Seed that does not meet specifications and approved submittal requirements will be considered non-conforming.

B. RECPs shall comply with CDOT Section 208 and be listed on the CDOT Approved Products List or equivalent standards

1.7 DELIVERY, STORAGE, AND HANDLING

A. Mixing Seed

1. Notify the QMC seven calendar days before mixing seed.
2. The QMC will verify that the seed certification report or label represents the seed lot from which the seed is furnished.
3. The QMC has the option to be represented when seed is opened and mixed to verify bags contain seed as shown on the label.
4. Mix the different seed varieties to provide an even blend. Supplier shall package and define seeder box separation requirements based on seed size.
5. Bag the mixed seed, seal the container.

B. Deliver seed to job site in original containers showing analysis of seed mixture, net weight, and date and location of packaging. Damaged packages will not be accepted. Store seed in a weatherproof location that is temperature controlled between 40°F and 90°F.

C. RECP Delivery and Storage:

1. Deliver RECPs in original, undamaged manufacturer's packaging with labels indicating type, weight, and compliance with specifications.
2. Store RECPs in a dry, weatherproof conditon protected from UV exposure, moisture, and physical damage.
3. Inspect RECPs upon delivery; damaged or non-conforming products will not be accepted.

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PART 2 PRODUCTS

2.1 Seed

2.1.1 Type A Seed Mixture:

Use the Type A seed mixture for seeding the Pro-Patria Retention Basin Expansion Area, and all other adjacent disturbed areas. Refer to the following native upland weed-free Seed Mix:

Table 2-1: Type A Seed Mixture

Seed Species	Rate (pounds pure live seed/acre)
Rocky Mountain Fescue (*Festuca saximontana*)	0.80
Arizona Fescue (*Festuca arizonica*)	1.60
Mountain Brome (*Bromus carinatus*)	14.10
Sheep Fescue (*Festuca ovina*)	1.30
Slender Wheatgrass (*Elymus trachycaulus*)	5.70
Rocky Mountain Penstemon (*Penstemon strictus*)	0.20
Blanket Flower (*Gaillardia grandiflora*)	0.90
Western Yarrow (*Achillea millefolium occidentalis*)	0.05
QuickGuard Sterile Triticale	8.00
Totals	**32.65**
Note: If broadcast seeding, double the rate.	

2.1.2 Type B Seed Mixture:

Use the Type B seed mixture for seeding Type 1 & 3 ditches, roadway shoulder tie-back slopes extending from ditch banks and stormwater structures, and all other adjacent disturbed areas.

Table 2-2: Type B Seed Mix

Seed Species	Preferred Variety(s)	Rate (pounds pure live seed/acre)
Big Bluegrass (Poa Ampla)	Park	0.50
Mountain Brome (Bromus Carinatus)	Bromar	15.00
Slender Wheatgrass (Agropyron Trachycaulum)	Primar, San Luis	6.00
Streambank Wheatgrass (Agropyron Riparium)	Sodar	6.00
Cicer Milkvetch (Astragalus Cicer)	Lutana, Monarch	5.7
	Totals	**29.00**
Note: If broadcast seeding, double the rate.		

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2.1.3 Seed Mix:

Any alternative seed mix (including varieties) that the Contractor proposes shall be approved by the QMC in advance of the Contractor purchase. All seed shall be certified weed free. The specific varieties and region of origin of the seed shall be included for each species. Seed mixtures shall be certified by documentation as meeting the seed mix design. Seed documentation shall include information on the percentage of germination, purity and weed content, and the date of analysis, which shall not be more than nine months prior to the delivery date. Seed storage requirements shall be specified and verified by certification of the seed supplier.

2.2 Organic Amendments

Organic amendment type shall be as-approved by the QMC. Organic amendment will consist entirely of organic materials, preferably composted, that will be used to supplement the organic content of surface soils. Organic amendment weight and content analysis statements or labels will be supplied to the Owner. Organic amendments will be uniform in composition and in good condition for application using suitable equipment. Any organic amendments that are or become contaminated or damaged, making it unsuitable for use, will not be accepted.

Organic materials for revegetation (not biocell media) including aged manure or organic compost shall be from an Owner approved source. Organic material applications are identified in select disturbed project areas to improve the water retention capacity and soil nutrient concentrations. The specific areas to receive organic material are delineated on the Drawings. The criteria at which organic material for revegetation (not biocell media) is evaluated is below.

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Table 2-3: Organic Amendments

Specification	Reporting Method	Threshold Value	Units	Test Method**
Wet Bulk Density	Pounds/cubic yard on as received material	Report Value, No Spec	lbs/cy	Test Methods for the Examination of Composting and Compost (TMECC) Test Method 03.01-C - Bulk Density
Moisture Content	Percent on as received sample	48 max*	%	Test Methods for the Examination of Composting and Compost (TMECC) Test Method 03.09-A - Moisture Content at 70°C
Organic Matter	Percent Organic Matter as dry weight basis	45 min	%	Test Methods for the Examination of Composting and Compost (TMECC) Test Method 02.02 - Laboratory Sample Preparation, Methods 02.02-C, 02.02-D, and 02.02-E and TMECC Test Method 05.07A-Loss on Ignition (at 550°C)
Gradation	Percent passing 1" in diameter	100	%	Test Methods for the Examination of Composting and Compost (TMECC) Test Method 02.02-B - Sample Sieve
Carbon: Nitrogen Ratio	Ratio C:N	18-25:1		Test Methods for the Examination of Composting and Compost (TMECC) Test Method 05.02-A Carbon to Nitrogen Ratio
Soil Fertility	NPK	Report Value, No Spec	N:P:K	Test Methods for the Examination of Composting and Compost (TMECC). Nitrogen: Test Method 04.02-B - Nitrate Nitrogen: 04.03-B Water Soluble Phosphorus: 04.04-B Water-Soluble Potassium
Compost Class	Class A or B	Class A		Defined by US EPA CFR Part 503

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2.3 Fertilizer

Fertilizer type shall be readily, locally available and as approved by the Owner. All fertilizer containers will be labeled showing chemical analysis and manufacturer's name or accompanied by written chemical analysis from the manufacturer. Fertilizer will be uniform in composition and in good condition for application by suitable equipment. It will be labeled with the manufacturer's guaranteed analysis as governed by applicable fertilizer laws. Any fertilizer which becomes contaminated or damaged, making it unsuitable for use, will not be accepted.

2.4 Wood Fiber Mulch

Wood fiber mulch shall consist of specially prepared wood fibers and shall be processed

in such a manner that shall not be produced from recycled material such as sawdust, paper, cardboard, or residue from pulp and paper plants. The fiber shall be dyed an appropriate color to facilitate visual metering during application. The mulch shall be of such a consistency that after being combined in a slurry tank with water and other approved additives the fiber in the material will be uniformly suspended to form a homogenous slurry. During application, the material shall produce a mat-like net covering the grass/forb seed. Wood fiber shall be supplied in packages. Each package shall be marked by the manufacturer to show the air-dry weight content.

2.5 Organic Mulch

Organic mulch shall be neutral pH organic produce formulated from grass/straw by-products and shall be processed specifically for mulching purposes. Processing shall be in such a manner that the organic mulch does not contain stalks or seeds of noxious weeds or grasses, or any growth or germination inhibiting factors. To facilitate visual metering during application, a non-toxic water-soluble green colored dye shall be added to the water. The mulch shall be of such a consistency that after being combined in a slurry tank of water, dye and other approved additives, the mulch material will be uniformly suspended to homogeneous slurry. Upon application, the material shall produce a mat-like net covering the grass/forb seed. Organic mulch shall be supplied in packages. Each package shall be marked by the manufacturer to show the air-dry weight content.

2.6 Tackifier

Tackifier will be a biodegradable organic formulation processed specifically for the adhesive binding of mulch. The tackifier shall uniformly disperse when mixed with water and not be detrimental to the homogeneous properties of the mulch slurry. Any tackifier that has been moisture damaged or damaged by other means will not be acceptable. Tackifier may be added either during the manufacturing of the mulch or incorporated during mulch application.

Organic soil and mulch tackifier used in hydraulically planting of grass seeds, forbs, or woody species seeds will be applied along with, or in combination with fertilizer, wood fiber mulch, and other approved additives, which shall consist of specifically blended compatible hydrocolloids.

The soil and mulch tackifier shall be supplied in easily disposable packages containing 5, 20, or 40 pounds of material having an equilibrium air-dry moisture content at time of manufacture of 8%, plus or minus 2%, with a minimum water-holding capacity of 6 1/2 times by weight of dry material.

The organic soil and mulch tackifier shall have the additional characteristics of hydrating and dispersing in circulating water to form a homogeneous slurry and remain in such a state in the hydraulic mulching unit, or equivalent, with the specified, or other approved materials.

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2.7 Soil Fertility and Organic Matter Content

Soil fertility target levels for the Calcine Consolidation Area are N:P:K concentrations in the upper four inches of soil media: 10-20 lbs/acre (N); 15 ppm (P); and 120 ppm (K). Organic matter content for the Calcine Consolidation Area shall be minimum 1% concentration in the upper four inches of soil media. No fertilizer or organic amendment will be required for areas requiring revegetation outside of the Calcine Consolidation Area. The following test procedures shall be utilized unless approved otherwise by Owner or Owner Representative:

Table 2-4: Soil Fertility and Organic Matter Content

Parameter	Recommended Procedure
Nitrate-Nitrogen	ASA Mono. No. 9, Pt. 2, method 33-3.2
Phosphorus	ASA Mono. No. 9, Pt. 2, method 73.4.4
Potassium	ASA Mono. No. 9, Pt. 2, method 9-3.1
Organic Matter	ASA Mono. No. 9, Pt. 2, method 29-3.5.2

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2.8 Rolled Erosion Control Products (RECPs)

A. General: RECPs shall be biodegradable erosion control blankets (ECBs) or permanent turf reinforcement mats (TRMs) designed to stabilize soil and promote vegetation in drainage channels roadway shoulder tie-back slopes, and the Pro-Patria Retention Basin Expansion Area.

B. Types and Applications:
   1. Type 1 ECB (Short-Term): (Curlex I Fibrenet - Biodegradable ECB or equivalent); 6-12 months durability. Use on slopes <3H:1V.
      a. Anchoring Materials: Secure ECB with 6-inch-long biodegradable stakes on slopes per manufacturer's recommendations.
   2. Type 2 ECB (Extended-Term) (Colorado CDOT -216.02-Erosion Control Blanket – Class 2 LLC2-8 Fabric or equivalent): ~12 months durability. Use in Type 1 and Type 3 ditches and on slopes 1.75H:1V to 3H:1V.
      a. Anchoring Materials: Secure ECB with 8-inch-long biodegradable stakes in ditches per details DT.01 and DT.02 on Construction Sheet DT-02. Install on slopes per manufacturer's recommendations.

PART 3 EXECUTION

3.1 Seeding Schedule

Revegetation shall be performed as soon as possible following QMC acceptance of completed soil cover areas according to the following schedule.

A. April through May (Spring Planting Season): Perform seeding using the seeding materials and methods.

B. June through September: Do no perform seeding. Perform seeding using the Revegetation materials and methods during the following Fall Planting Season.

C. October through November: (Fall Planting Season): Perform seeding using the seeding materials and methods.

D. December through March: Do not perform revegetation. Perform seeding using the seeding materials and methods during the following Spring Planting Season.

3.2 Seeding – General

A. Notify the QMC seven working days before seeding. The Contractor will measure the area to receive seed prior to ordering from the supplier.

B. Seeding will be performed in the primary stages in the following order: a) seedbed preparation to include application and incorporation of organic matter and fertilizer; and b) application of seed and mulch.

C. Ditch Seedbed Preparation: Maintain the cut surface of the Type 1 and Type 3 ditches by not over smoothing and compacting the grades. Remove loose material from ditches and scarify ditch surfaces by raking or other Contractor recommended and QMC approved method.

D. Seedbed Preparation of the Pro Patria Retention Basin Expansion: Surface soil shall be scarified to break up the soil and alleviate any compaction and prepare for seeding. Excluding the embankments and 3H:1V slopes, the seedbed must be scarified to a depth of 4 inches prior to seeding at a width not exceeding 24 inches between shanks. All scarification operations on slopes must be conducted strictly on the contour. Fertilizer and soil amendments shall be worked into the soil during seedbed preparation.

E. Seedbed Preparation of Roadway Shoulder Tie-Back Slopes: Surface soil shall be scarified to break up the soil and alleviate any compaction and prepare for seeding. The Contractor will scarify the seed bed to a depth of 4 inches prior to seeding with an excavator bucket or other QMC field approved method. All scarification operations on slopes must be conducted strictly on the contour. Fertilizer and soil amendments shall be worked into the soil during seedbed preparation.
   1. The Contractor may hand rank seed beds in areas where mechanical

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equipment may damage installed ditches or stormdrain conveyance structures as approved by the QMC.

F. Apply seed at the rate indicated in the Seed Schedule found in Section 2.1.

G. The Contractor shall use care to ensure ditch slopes, and any surrounding structures remain undamaged during seeding activities.

3.3 Final Approval

Final approval for all seedbed preparation areas to be fertilized and seeded, including amended and unamended areas shall be made by the QMC.

3.4 Seeding

Hydraulic method of seeding may be used for ditches and disturbed non-travel ways as directed by the QMC. Hydraulic seeding equipment may be used. When using hydraulic mulch, the Contractor may mix the seed with the fertilizer if his hydraulic seeding equipment is capable of uniformly mixing water, fertilizer, and seed-in that order-and power blowing or spraying the mixture uniformly over the seedbed. After blending, the slurry shall be applied to the seedbed within 45 minutes after the seed has been added to the water-fertilizer mixture. If the slurry cannot be applied within the specified 45 minutes, it shall be fortified, at no cost to the Town of Rico, with the correct ratio of seed to the remaining slurry and a new 45-minute time frame established for applying the fortified mixture. At no time shall seed and fertilizer remain in a slurry for more than 45 minutes.

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3.5 Wood Fiber Mulch and Organic Mulch Application

A. Wood fiber mulch or organic mulch shall be applied by means of hydraulic equipment that utilizes water as the carrying agent. The mulch shall be applied in a uniform manner during the hydro-seeding process, at a minimum rate of 2,000 pounds per acre. A continuous agitator action, that keeps the mulching material and approved additives in uniform suspension, must be maintained throughout the distribution cycle. The pump pressure shall be capable of maintaining a continuous non-fluctuating stream of slurry. The slurry distribution lines shall be large enough to prevent stoppage.

B. The discharge line shall be equipped with a set of hydraulic spray nozzles that shall provide an even distribution of the mulch slurry to the seedbed. Mulching shall not be done in the presence of free surface water resulting from rains, melting snow, or other causes.

C. The Contractor shall start at the top of the slope and work downward if practicable otherwise work from the bottom of the slope upwards. If

necessary, extension hoses may be required to reach the extremities of the slopes.

D. Contractor shall remove any equipment tracks on the seedbed prior to final mulching. Contractor shall use a rake, small harrow or other acceptable means to remove the tracks.

E. When using the hydraulic seeding method, the Contractor must provide 1 pound of wood fiber or organic mulch per each 3 gallons of water in the hydraulic seeder as a cushion against seed damage. The mulch used as a cushion may be part of the total required mulch with the remainder applied after the seed is in place.

F. The Contractor will be required to use extension hoses to reach the extremities of slopes.

G. The Contractor shall remove any equipment tracks on the seedbed prior to final mulching. The Contractor shall use a rake, small harrow, or other acceptable means to remove the tracks.

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3.6 Seed Storage and Handling:

Seed materials shall stay in the original manufacturer's shipping bags/containers and remain in these containers until they are used. Seeds should be stored in an area which prevents exposure to excessive heat, precipitation, surface water or any other substance which could impact the seed. Wet, moldy, or damaged seeds or mulch will not be used. Preferable conditions for seed storage include an area which is cool, dry and weatherproof. These conditions protect seeds from deterioration and predation from rodents. Seed materials shall not be stored over the summer or winter.

3.7 Drill Seeding Method

Not Used

3.8 Broadcast Seeding Method

A. Broadcast method of seeding may be used for ditches and disturbed non-travel ways as directed by the QMC.

B. Do not mix seed as part of a Hydraulic Erosion Control Product (HECP) application.

C. Broadcast the seed onto the top soil using either of the following:
   1. Mechanical, cyclone or hand seeder.
   2. Hydraulic hydroseeder machine which is capable of continuous agitation and application of the seed, water, and up to 300 lb of a cellulose fiber mulch (allowed only as application tracer) slurry mixture per acre.

D. Incorporate the seed into the soil using either of the following:
   1. Cat-track seeded area with tracked equipment perpendicular to the contour to create continuous cleat tracks that run parallel with the contours.
   2. Drag or rake the seed into the topsoil to a depth between ¼ to ½ inch.

E. Coordinate with the QMC to be on site and observe the first 100 yd^2 of broadcast seed.

F. Do not broadcast seed during windy or wet weather.

3.2 Rolled Erosion Control Product (RECPs) Installation

A. General: Install RECPs immediately after hydraulic seeding and mulch application in Type 1 and 3 ditches, roadway shoulder tie-back slopes (>2:1), and other high-erosion-risk areas as directed by the QMC or shown on the Drawings.
B. Installation Requirements:
   1. Prepare seedbed to remove debris and ensure a smooth surface.
   2. Install RECPs in accordance with Type 1 and Type 3 ditch details on Sheet DT-02 of the construction plan set, and as follows:
      a. Channels: Lay RECPs perpendicular to flow direction; overlap 6-12 inches; bury upstream and downstream edges 6 inches in anchor trenches.
      b. Slopes: Roll RECPs uphill from the bottom, perpendicular to contours; overlap 6-12 inches; pin with stakes/staples every 2-3 feet along edges and 4 feet in center.
      c. Use min. 4-6 stakes/staples per 100 square feet; double at overlaps and ends.
   3. Ensure tension in TRMs to prevent sagging; avoid installation in saturated soils or during precipitation (>0.5-inch rain event).
   4. Remove equipment tracks or ruts from seedbed before RECP installation using rakes or QMC-approved methods.
C. Specific Applications:
   1. Use Type 2 ECBs in Type 1 and 3 ditches and slopes 1.75:1 to 3:1.
   2. Use Type 1 ECBs in low-risk areas (slopes <3:1) or as temporary cover until vegetation establishment.

3.3 Clean And Maintain

A. Remove foreign materials such as containers, burlap, metal, bags, pipe, wire, RECP Packaging, and other debris collected throughout the site.

END OF SECTION

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SECTION 03055

PORTLAND CEMENT CONCRETE

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Portland Cement Concrete

1.2 RELATED SECTIONS Not Used

1.3 REFERENCES

A. AASHTO M 6: Fine Aggregate for Hydraulic Cement Concrete

B. AASHTO M 80: Coarse Aggregate for Hydraulic Cement Concrete

C. AASHTO M 85: Portland Cement

D. AASHTO M 154: Air-Entraining Admixtures for Concrete

E. AASHTO M 194: Chemical Admixtures for Concrete

F. AASHTO M 295: Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete

G. AASHTO T 121: Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete

H. AASHTO T 160: Length Change of Hardened Hydraulic Cement Mortar and Concrete

I. AASHTO T 176: Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test

J. AASHTO T 325: Estimating the Strength of Concrete in Transportation Construction by Maturity Tests

K. AASHTO T 358: Surface Resistivity Indication of Concrete's Ability to Resist Chloride Ion Penetration

L. AASHTO TP 137: Box Test in Slip Form Paving of Fresh Portland Cement Concrete

M. ACI 301: Specification for Structural Concrete

N. ACI 305: Hot Weather Concreting

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O. ACI 306: Cold Weather Concreting

P. ASTM C 260: Air-Entraining Admixtures for Concrete

Q. ASTM C 595: Blended Hydraulic Cements

R. ASTM C 1116: Fiber-Reinforced Concrete

S. ASTM C 1157: Hydraulic Cement

T. ASTM C 1567: Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)

U. ASTM C 1602: Mixing Water Used in the Production of Hydraulic Cement Concrete

V. ICC Evaluation Service (ICC-ES) AC32: Concrete with Synthetic Fibers

W. CDOT Standard Specifications, Section 412-1 – 412-26.

1.4 DEFINITIONS

Cold Weather Protection Period – The protection period is the amount of time recommended to prevent concrete from being adversely affected by exposure to cold weather during construction as per ACI 306.

1.5 SUBMITTALS

A. Mix design for all concrete classes to be used for approval.
   1. Include at least the following:
      a. The proposed mix design.
      b. Target slump value.
      c. Trial batch test results

B. Mix design, manufacturer's product data, or manufacturer's labeling for Class B concrete for review.

C. Cold Weather Concreting Plan and Hot Weather Concreting Plan for review.
   1. Include the following
      a. Detailed procedures for protection from adverse weather conditions during placement, curing, and temperature monitoring of concrete during cold and hot weather.
      b. Procedures to be implemented upon abrupt changes in weather conditions or equipment failures.
      c. Refer to Section 3.1, paragraph D for cold weather concreting requirements and Section 3.1, paragraph E for hot weather concreting requirements.
   2. Not required for precast concrete members provided by Colorado Department of Transportation prequalified suppliers.

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D. Construction Documentation.
   1. Concrete Surface temperature monitoring, if required in the Cold weather concreting plan. Refer to Section 3.1, paragraph D.4.

E. Obtain Approval from the engineer for the project specific application of an approved mix design.

1.6 ACCEPTANCE

A. The Contractor shall sample and test for strength, air entrainment, and slump. Provide the test results to the Town of Rico Quality Management Contractor (QMC).

B. The QMC may accept the item at a reduced price when concrete is below specified strength and does not have a separate strength pay factor.
   1. The pay factor shall be applied to the quantity of the pay item that is represented by the strength tests that fall below a specified strength.
   2. The Town of Rico will calculate the pay factor using Table 1 and 2 based on 28 day compressive strength.

Table 1 Pay Factor for Deviations on Concrete Strength

Below Specified Strength (psi) [≥ 4500 psi Concrete]	*Pay Factor (Percent)
1-100	98
101-200	96
201-300	92
301-400	84
401-500	75
501-600	65
601-700	54
701-800	42
801-900	29
901-1000	15
Over 1000	Reject

*Concrete represented by out-of-spec tests will only be price-reduced with the lowest pay factor, not for each pay factor.

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Table 2 Pay Factor for Deviations on Concrete Strength

Below Specified Strength (psi) [< 4500 psi Concrete]	*Pay Factor (Percent)
1-100	98
101-200	96
201-300	92
301-400	84
401-500	75
Over 500	Reject

*Concrete represented by out-of-spec tests will only be price-reduced with the lowest pay factor, not for each pay factor.

C. The QMC may accept the item at a reduced price when the concrete deviates from the specified air content.
   1. The QMC will calculate the pay factor using Table 3.

Table 3 Pay Factor for Deviations on Concrete Strength

Deviations From Specified Air (Percent)	*Pay Factor (Percent)
0.0 – 0.2	98
0.3 – 0.4	96
0.5 – 0.6	92
0.7 – 0.8	84
0.9 – 1.0	75
Over 1.0	Reject

*Concrete represented by out-of-spec tests will only be priced reduced with the lowest pay factor, not for each pay factor.

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1.7 QUALITY ASSURANCE

A. UNCONTROLLED MIX DESIGNS
   1. Specified concrete mix designs are Colorado Department of Transportation (CDOT) approved mix designs by Class type. Refer to Table 4 in Section 2.1 for the specified CDOT concrete mix requirements by type.
   2. Mix design(s) showing strength test variability with no determined root cause are considered uncontrolled.
   3. Suspend use of uncontrolled mix designs when directed by the QMC.

PART 2 PRODUCTS

2.1 CONCRETE CLASSES AND MIX REQUIREMENTS

A. Use only concrete mixes that have a project approved mix design.
   1. Class B Concrete is air entrained concrete for general use.
      a. The coarse aggregate shall have nominal maximum size of 1 ½ inches or smaller.
      b. Class D or P concrete may be substituted for Class B concrete.
   2. Class D concrete is a denser general use concrete.
      a. The mix shall either have a permeability not exceeding 2,500 coulombs at an age of not more than 56 days when tested per ASTM C 1202 or have a surface resistivity of at least 12 kΩ-cm at 28 days using AASHTO T358.
      b. The unrestrained shrinkage shall not exceed 0.050 percent at 28 days when tested by CP-L 4103.
      c. The mix may use an optimized gradation (OG) with a nominal maximum aggregate size of at least 3/4 inch.
      d. The mix shall have a nominal maximum aggregate size of at least ¾ inch if an OG is not used.
      e. When used in slip forming, an edge slump less than 6 mm (0.25 in.) and less than 30 percent surface voids (ranking of 2 or less) is required. The box test is described in CP 63.
   3. Class P is used in pavements.
      a. The Required Field Flexural Strength shall be 650 psi.
      b. The concrete mix shall consist of a minimum 55 percent AASHTO M 43 sizes No. 57, No. 6, No. 67, No. 357, or No. 467 coarse aggregate by weight of total aggregate.
      c. The mix may use an OG with a nominal maximum aggregate size of at least ¾ inch.
      d. ASTM C150 Type III cement may be used for early opening.
      e. The mix shall either have a permeability not exceeding 2,500 coulombs at an age of not more than 56 days when tested per ASTM C1202 or have a surface resistivity of at least 12 kΩ-cm at 28 days using AASHTO T358.
      f. The unrestrained shrinkage shall not exceed 0.050 percent at 28 days when tested by CP-L 4103.
      g. When concrete is to be placed using a paver, an edge slump less than 6 mm (0.25 in.) and less than 30 percent surface voids (ranking of 2 or less) is required. The box test is described in CP 63.
      h. A minimum of 20 percent Class F fly ash or High Reactive Pozzolan or 30 percent Slag cement by weight shall be used to replace any ASTM C150 cement, or ASTM C595 Type IL cement. ASTM C595 Type IT(MS), IT(HS), IP(MS) or IP(HS) cements may be used without cement substitutions. Class C fly ash may be used if the calcium oxychloride is determined to be less than 15 g CaOXY/100 g cementitious paste as determined per AASHTO T 365 for Class 0 Sulfate Exposure.
   4. Refer to the requirements in Table 4.

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Table 4 - CONCRETE FIELD REQUIREMENTS

Concrete Field Requirements				
Concrete Class	**Required Field Compressive Strength (psi)**	**Air Content: % Range (Total)**	**Slump#**	**Maximum Water/Cementitious Material (w/cm) Ratio**
B	4500 at 28 days	5 – 8	+/-2” of Form 1373 Slump	w/cm on Form 1373
D	4500 at 28 days	5 – 8	+/-2” of Form 1373 Slump	w/cm on Form 1373
P	4500 at 28 days	4 – 8	+/-2” of Form 1373 Slump	w/cm on Form 1373

*Portion of Table 601-1 from the CDOT standard specifications.

B. Maximum nominal size of course aggregate:
   1. Not larger than 1/5 the narrowest dimension between sides of forms.
   2. Not larger than 1/3 the depth of slabs.
   3. Not larger than 3/4 the minimum clear distance between reinforcing bars or between bars and forms, whichever is less.

C. Do not exceed water/cementitious ratio.
   1. Calculate the water/cementitious material ration (w/c) by weight according to the following formula:

$$W/c = WATER/(Cement + Pozzolan)$$

D. Do not exceed 30 percent total pozzolan in any mix unless otherwise specified

E. Use 94 lb. additional cementitious material per cubic yard to the amounts determined in the mix design for concrete deposited in water.

F. Slump tolerance
   1. Establish the target slump by mix design trial batch.
   2. The target slump tolerance is the acceptable variation from the maximum target slump.
   3. Do not exceed a 9 inch slump.

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Table 5

Target Slump Tolerance (inch)		
	Target Slump	
	3 inches or less	More than 3 inch
Plus Tolerance	0	0
Minus Tolerance	1 1/2 inch	2 1/2 inch

2.2 MATERIALS

A. Cement
   1. Use Type II Portland Cement or equivalent according to Table 4 unless other specified. Type III Portland Cement or equivalent may be used for precast items.
   2. Blended Hydraulic Cement
      a. Blended hydraulic substituted for Portland Cement:
         1) Use ASTM C 1567 to verify that expansion is less than 0.1 percent 14 days after the zero reading.
         2) Refer to the equivalent cements listed in Table 6.
      b. Do not exceed 30 percent total pozzolan limit when adding fly ash to a blended hydraulic cement.
         1) Submit documentation of the total pozzolan content with the mix design.

Table 6

Portland Cement/Blended Hydraulic Cement Equivalencies		
AASHTO M 85 Equivalent Alkalis 0.80 max percent	**ASTM C 595**	**ASTM C 1157**
*Type I	IP, IL, IT	GU
Type II	IP(MS), IT(MS)	MS
Type III	-	HE
*Type V	IP(HS, IT(HS)	HS

*Use only when specified

   3. Do not mix cements originating from different sources.
   4. Do not use air-entrained cement.

B. Aggregate:
   1. Coarse Aggregate
      a. Use coarse aggregate that meets AASHTO M 80 physical properties. Use one of the gradations in Table 7.
      b. Do not exceed percentages of deleterious substances as specified in AASHTO M 80, Table 2, for Class A aggregates.

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Table 7

Coarse Aggregate Gradations - Percent Passing (by weight)									
Aggregate Size (inches or sieve size)	**2-1/2**	**2**	**1-1/2**	**1**	**3/4**	**1/2**	**3/8**	**No. 4**	**No. 200**
2 to No. 4	100	95-100		35-70		10-30		0-5	0-1
1-1/2 to No. 4		100	95-100		35-70		10-30		0-1
1 to No. 4			100	95-100		25-60			0-1
3/4 to No. 4				100	90-100		20-55		0-1

2. Fine Aggregate
   a. Use fine aggregate that meet AASHTO M 6 physical properties. Use the gradation in Table 8.
   b. Do not exceed percentages of deleterious substances as specified in AASHTO M 6, Table 2 for class A aggregates, using option “b” for material finer than the No. 200 sieve.

Table 8

Fine Aggregate Gradation	
Sieve Size	**Percent Passing (by weight)**
3/8 inch	100
No. 4	95 to 100
No. 16	45 to 80
No. 50	10 to 30
No. 100	2 to 10
No. 200	0 to 3.0

C. Water
   1. Use potable water or water that meets ASTM C 1602, including Table 2.

D. Admixtures
   1. Do not use calcium chloride.
   2. Air Entrainment according to ASTM C 260 as modified by AASHTO M 154 including the optional uniformity requirements in ASTM C 260, Section 5.
   3. Water Reducing Agents
      a. Refer to AASHTO M 194
      b. High Range Water Reducer (HRWR) – Include details regarding HRWR ingredients, production methods, handling, and placing in the written plan for admixtures.
   4. Accelerators – Refer to AASHTO M 194.
   5. Set Retarding and Hydration Stabilizing Admixtures – Refer to AASHTO M 194.
      a. Establish and inform the Engineer of the effective life of the set-retarding or stabilizing admixture by trial batch if admixtures are required due to haul times exceeding the time limitations in this Section, Article 3.1, paragraph A.
      b. Do not exceed manufacturer’s recommendations for the use of the set retarding admixture.
      c. Do not re-dose the concrete with additional set retarding admixture.
      d. Add admixture at the batch plant at the time of initial batching operations.
      e. Show on batch tickets the amount of admixture used.
      f. Time of placement is established by the trial batch and supersedes the requirements in this Section, Article 3.1, paragraph A.
   6. Site-added air-entrainment – Refer to AASHTO M 154.
      a. Limit the use of site-added air-entraining agents to one addition per

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load, regardless of quantity.
b. Use pre-measured admixtures.
c. Record amount used on batch ticket.
d. Rotate the drum at least 30 revolutions at the mixing speed recommended by the manufacturer.

E. Pozzolan
1. Fly Ash
a. Class F according to AASHTO M 295 except modify Table 2 with the following.
1) Loss on Ignition (LOI) Not to exceed 3 percent.
2) Allowable CaO content Not to exceed 15 percent.
b. Label the storage silo for fly ash to distinguish it from cement.
c. Use different size unloading hoses and fittings for cement and fly ash.
2. Natural Pozzolan (Class N)
a. Refer to AASHTO M 295.
b. May use instead of fly ash provided that the expansion does not exceed 0.1 percent. Refer to ASTM C 1567.

2.3 MIX DESIGN

A. Design mixes shall meet mixing requirements found in CDOT Standard Specification subsection 601.07.

B. The Contractor assumes responsibility for the compatibility of admixtures with the mix design and their potential effects on concrete properties.

C. Design the cementitious system to mitigate potential alkali-aggregate reactivity.
1. Use at least 20 percent pozzolan by weight of the total cementitious

2.4 BATCHING

Measuring and batching of materials shall be done per AASHTO M 157 (ASTM C94). Batching shall conform to the requirements laid out below and per CDOT Standard Specification subsection 601.06.

The Contractor shall furnish a batch ticket (delivery ticket) with each load of concrete. Concrete delivered without a batch ticket containing complete information as specified shall be rejected. The Contractor shall collect and complete the batch ticket at the placement site and deliver all batch tickets to the QMC on a daily basis. The QMC shall have access to the batch tickets at any time during the placement. Electronic tickets are allowed as long as the QMC has access to the batch ticket and the batch ticket can be downloaded and saved by the QMC in PDF format before placement, at any time during placement, and until the project is accepted. The following information shall be provided on each batch ticket:

A. Batch Ticket Required Information
1. Supplier’s name, date, and truck number.

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2. Location of placement and structure type.
3. Concrete class designation.
4. Cubic yards batched, with the time batched.
5. CDOT mix design number.
6. Type, brand, and amount of each admixture.
7. Type, brand, and amount of cement, slag cement, fly ash, and high-reactivity pozzolan.
8. Weights of fine and course aggregates or combined weight when an optimized gradation is pre-blended.
9. Moisture of fine and coarse aggregates or combined moisture when an optimized gradation is pre-blended.
10. Gallons (Pounds) of batch water (including ice).

B. Contractor Added Information onto the Batch Ticket
1. Gallons of water added by the truck operator, the time the water was added, and the quantity of concrete in the truck each time water is added.
2. Number of revolutions of the drum at mixing speed (for truck mixed concrete).
3. Discharge time.
4. Location of the batch in placement.
5. Water to cementitious material ratio.

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2.5 AGGREGATE STOCKPILES

A. Construct stockpile platforms so that subgrades are prevented from intruding into aggregates.

B. Build stockpiles at least two days before use.

C. Provide an operator and front-end loader to help the Engineer take aggregate samples.

D. Provide separate stockpiles for coarse and fine aggregates.

E. Construct stockpiles to minimize segregation of aggregates

F. Allow washed aggregates to drain to uniform moisture content before use (12 hours minimum).

2.6 BATCH MATERIALS

A. Batch Tolerances. Refer to AASHTO M 157.
1. Cementitious Material: ± 1 percent of the required mass
2. Aggregate: ± 2 percent of the required mass
3. Total Water: ± 3 percent of the required mix amount

B. Batch Size
   1. Do not load trucks in excess of their rated mixing capacity.
   2. Maintain an accurate and legible truck load-rating plate on the truck.
   3. Maintain a minimum individual batch size of 2 yd3.

C. Cement with Fiber Reinforcement
   1. Not Used.

PART 3 EXECUTION

3.1 LIMITATION

A. Timing – Deliver, place, and consolidate concrete as follows unless otherwise specified:
   1. Within 90 minutes of batching when the air temperature is below 80 degrees F.
   2. Within 75 minutes of batching when the air temperature is between 80- and 85-degrees F.
   3. Within 60 Minutes of batching when the air temperature is above 85 degrees.

B. Concrete Temperature – Place concrete when the concrete temperature is between 50 and 90 degrees F or as described in the authorized hot or cold weather protection plan.

C. Pumping and Conveying Equipment
   1. Do not use equipment or a combination of equipment and the Do not use equipment or a combination of equipment and the configuration of that equipment that causes a loss of entrained air content that exceeds one-half of the range of air content allowed by specification.
      a. Replace, reconfigure, or repair equipment that does not meet this requirement.
   2. Contractor is responsible for verifying and monitor air loss.

D. Cold Weather – Comply with the following when placing, finishing, curing, and protecting concrete exposed to cold weather during the protection period. Cold weather applies when the temperature is forecast to fall below 35 degrees F during the protection period.
   1. Provide necessary cold weather protection for placing, finishing, curing and protecting in-place concrete such as covers, insulation, and heat.
      a. Follow the authorized Cold Weather Concreting Plan when placing cast-in-place concrete.
      b. Follow the prequalified supplier's approved Quality Control Plan when fabricating precast concrete members.
   2. Concrete materials
      a. Do not use chemical anti-freeze additives in the concrete. This does not apply to normal accelerators. Refer to AASHTO M 194.
      b. Remove and replace concrete damaged by frost action at no additional cost to the Town of Rico.

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c. Heating Aggregate and Water
   1) Provide and operate heating devices when heated aggregates are required.
   2) Use aggregates free of ice.
   3) Heat aggregates uniformly, avoid overheating or developing hot spots.
   4) Use either steam or dry heat.

3. Determine the concrete compressive strength by one of the following methods:
   a. Field cured cylinders cured and protected the same as the concrete being protected.
   b. Maturity method. Refer to AASHTO T 325.
4. Monitor and maintain the temperature of the concrete at or above 50 degrees F during and after placement until the end of the protection period.
   a. Measure the specified concrete temperature at the concrete surface. Use surface thermometers insulated from the surrounding air.
   b. Submit records of concrete surface temperature readings daily through the cold weather protection period.
5. Placing concrete
   a. Do not place concrete during adverse weather including rain, snow, and high winds without adequate protection.
   b. Do not proceed with concrete placement if the temperature of any contact surface, such as reinforcement or formwork, is less than 36 degrees F.
   c. Cease placement operations when the ambient temperature is 40 degrees F and decreasing unless adequate precautions are taken according to the authorized Cold Weather Concreting Plan.
6. Protection of in-place concrete
   a. Maintain the concrete above 50 degrees F during placement and until the end of the protection period.
      1) The Cold Weather Protection period is the time required for the concrete to reach a compressive strength of at least 3,500 psi.
      2) Extend the duration of the Cold Weather Protection period at least 24 hours beyond the termination of the cure before exposing the concrete to freezing temperatures when curing by the water method.
   b. Comply with the following when heating is required.
      1) Adequately vent combustion-type heaters that produce carbon monoxide.
      2) Position heaters and ducts so the hot dry air does not cause areas of the concrete surface to overheat or dry.
      3) Keep concrete surfaces moist to avoid excessive loss of moisture from the concrete when applying external heat.
7. Termination of protection.
   a. Do not allow the temperature of the concrete surfaces to drop by more than 40 degrees F during any 24 hour period.

E. Hot Weather – Comply with the following when placing, finishing, curing, and protecting concrete exposed to hot weather.

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1. Hot weather limitations apply at any time of the year when a combination of high ambient temperature, high concrete temperature, low relative humidity, and high wind speed have the potential to impair the quality of freshly mixed or hardened concrete by accelerating the rate of moisture loss and the rate of cement hydration; or otherwise causes detrimental results.
2. Monitor site conditions, including air temperature, relative humidity, and wind speed, to assess the need for evaporation control measures.
    a. Begin monitoring no later than 1 hour before beginning concrete placing operations.
    b. Continue to monitor site conditions at intervals of 20 minutes or less until required curing procedures are applied.
3. Provide necessary hot weather protection.
    a. Follow the authorized Hot Weather Concreting Plan when placing cast-in-place concrete.
    b. Follow the prequalified supplier's approved Quality Control Plan when fabricating precast concrete members.
    c. Initiate evaporation control measures when concrete and air temperatures, relative humidity of the air, and wind speed have the capacity to evaporate free water from the fresh concrete surface at a rate equal to or greater than 0.2 lb/ft2/hr.
        1) Determine the evaporation rate of surface moisture using the NRMCA Nomograph in Appendix B of ACI 305.1.
4. Cool all surfaces that will come in contact with the concrete to below 95 degrees F.
    a. Do not proceed with concrete placement if the temperature of any contact surface, such as reinforcement or formwork, is greater than 95 degrees F

3.2 CYLINDER STORAGE DEVICE

A. Provide and maintain cylinder storage device.
    1. Maintain cylinders at a temperature range of 60 degrees F to 80 degrees F for the initial 16 hour curing period.
    2. Do not move the cylinders during this period.
    3. Equip the storage device with an automatic 24-hour temperature recorder that continuously records on a time/temperature chart with an accuracy of ±1 degree F.
    4. Have the storage device available at the point of placement at least 24 hours before placement.

END OF SECTION

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SECTION 03132
SOIL STABILIZATION SYSTEM (GEOWEB)

PART 1 GENERAL

1.1 SUMMARY

A. Work Included: This section includes providing all material, labor, tools, and equipment for installation of geocell system as shown in the Contract Documents and as specified in this section.

B. The geocell system shall be used for channel protection.

1.2 RELATED SECTIONS AND DIVISIONS

A. The applicable provisions of the General Conditions shall govern the work in this Section.

B. Section 01455 – Material Quality Requirements

C. Section 02231 – Site Clearing and Grubbing.

D. Section 01571 – Temporary Environmental Controls.

E. Section 02075 – Geotextiles.

1.3 REFERENCES

A. American Association of State Highway and Transportation Officials (AASHTO)

1. AASHTO M288 – Geotextile Specification for Highway Applications.

B. American Society of Testing and Materials (ASTM)

1. ASTM D 1505 – Density of Plastics by the Density-Gradient Technique.
2. ASTM D 1603 – Standard Test for Carbon Black in Olefin Plastics.
3. ASTM D 1693 – Environmental Stress-Cracking of Ethylene Plastics.
4. ASTM D 5199 – Measuring Nominal Thickness of Geotextiles and Geomembranes.
5. ASTM D 5394 – Standard Test Method for Environmental Stress-Cracking of Ethylene Plastics.
6. ASTM D 5596 – Standard Test Method for Microscopic Evaluation of the Dispersion of Carbon Black in Polyolefin Geosynthetics.
7. ASTM D 5721 – Standard Practice for Air-Oven Aging of Polyolefin Geomembranes.
8. ASTM D 5885 – Standard Test Method for Oxidative Induction Time of Polyolefin Geosynthetics by High-Pressure Differential Scanning Calorimetry.
9. ASTM D 6693 (Type IV) – Standard Test Method for Determining Tensile Properties of Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembranes.
10. ASTM D 7328 – Standard Test Method for Effect of Exposure of Unreinforced Polyolefin Geomembrane Using Fluorescent UV Condensation Apparatus

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11. ASTM E 41 – Terminology Relating to Conditioning.

C. US Army Corps of Engineers (USACE)

1. Technical Report GL-86-19, Appendix A.

D. International Organization for Standardization (European Union) (EN-ISO)

1. ISO 6721 – Plastics – Determination of Dynamic Mechanical Properties
2. EN ISO 10319 – Geosynthetics – Wide-Width Tensile Test
3. EN 12224 – Geotextiles and geotextile-related products – Determination of the resistance to weathering
4. EN ISO 13426 – Geotextiles and geotextile-related products – Strength of Internal Structural Junctions – Part 1: Geocells
5. EN ISO 13438 – Screening Test Method for Determining the Resistance of Geotextiles and Geotextile-Related Products to Oxidation

1.4 SUBMITTALS

A. Submit manufacturer's shop drawings in accordance with Section 001300, Submittals including Manufacturer’s product data, calculations, drawings and field representative qualifications.

B. Manufacturer Calculations. Provide a complete set of project calculations including a description of the static analysis performed to determine the channel and crest anchorage requirements.

1. The calculations shall be submitted at the time of bid. The calculation shall be included in an evaluation containing a written summary, plan view, cross section, calculations, and research and testing documentation. The evaluation shall be based on site specific conditions. Standard graphs and table are not acceptable.
2. The calculations shall be based on computer software developed through research and testing at an accredited university or research facility based specifically on the product being submitted including geocell infill and panel connection device. Provide third party research summary for the calculation method specific to the manufacturer’s material values, infill type and panel connectors.

Specifier Note: Select the appropriate calculation method based on anchorage requirements recommended in the project evaluation and delete the others. Select the appropriate cell infill material.

3. ATRA® Anchor Anchorage Calculations include the following:
   a. The channel stabilization calculations shall be based on channel dimensions, bed slope, channel depth, depth of flow, Manning’s coefficient, bend coefficient, minimum interface friction angle, infill type and weight, sub grade unit weight, cohesion and friction angle, and geocell size and depth.
   b. Standard anchor graphs and tables are not acceptable. Anchorage pattern shall be based on site specific conditions.
   c. The minimum overall factor of safety for crest anchorage, shear and anchors shall be at least 1.40.
   d. Provide geocell size and depth, velocity and tractive force.
   e. For aggregate infill, provide research and testing summary to confirm the appropriate geocell size, depth and aggregate size. Provide calculation showing the unit flow rate, bed slope and aggregate

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D50 size for all geocell sizes and compare to Abt and Johnson and USACE rip rap sizing formulas.

f. If required, provide a description of the geotextile separation layer and include in calculations.

g. Provide anchor length, diameter, anchor resistance, anchor density and anchor pattern.

h. Provide crest anchorage embedment depth, depth below crest, slope angle, depth and resulting resisting force.

i. Provide factor of safety for the crest anchorage and shear.

j. Provide factor of safety for crest anchorage, shear and anchors.

k. Provide third party testing on panel connection device showing minimum pull through resistance of 275 lbs.

4. ATRA Speed Stake Anchorage include the following:

a. The channel stabilization calculations shall be based on channel dimensions, bed slope, channel depth, depth of flow, Manning's coefficient, bend coefficient, minimum interface friction angle, infill type and unit weight, sub grade unit weight, cohesion and friction angle and geocell size and depth.

b. Standard anchorage graphs and tables are not acceptable. Anchorage pattern shall be based on site specific conditions.

c. The minimum overall factor of safety for crest anchorage, shear and stakes shall be at least 1.40.

d. Provide geocell size and depth, velocity, tractive force.

e. For aggregate infill, provide research and testing summary to confirm the appropriate geocell size, depth and aggregate size. Provide calculation showing the unit flow rate, bed slope and aggregate D50 size for all geocell sizes and compare to Abt and Johnson and USACE rip rap sizing formulas.

f. If required, provide a description of the geotextile separation layer and include in calculations.

g. Provide stake length, diameter, anchor resistance, anchor density and staking pattern.

h. Provide crest anchorage embedment depth, depth below crest, channel angle, depth and resulting resisting force.

i. Provide factor of safety for crest anchorage and shear.

j. Provide factor of safety for crest anchorage, shear and stakes.

k. Provide third party testing on panel connection device showing minimum pull through resistance of 275 lbs.

5. The stability calculations shall be in Microsoft Excel converted to Adobe PDF format.

6. Cross section and plan view drawings shall be in AutoCAD converted to Adobe PDF format.

C. Manufacturer's Certificate of Analysis: Manufacturer shall supply certificate of analysis containing the following test results for the geocell material used for project: Base Resin Lot Number(s), Resin Density per ASTM-1505, Production Lot Number(s), Material Thickness, Short Term Seam Peel Strength, and percentage of Carbon Black. Submit qualifications certifying the installer is experienced in the installation of the specified products.

D. Submit qualifications of Manufacturer's field representative certifying the field representative is experienced

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in the installation of the specified products.

E. Submit certificate of compliance that all materials and resins used to produce the specified materials are 100% made by plants located in the United States per public law Build America, Buy America (BABA) included in the Infrastructure Investment and Jobs Act under Title IX, Subtitle A, Part 1.

F. No material will be considered as an equivalent to the geocell material specified herein unless it meets all requirements of this specification, without exception. Alternates must be submitted prior to the bid. Manufacturers seeking to supply what they represent as equivalent material must submit records, data, independent test results, samples, certifications, and documentation deemed necessary by the Engineer to prove equivalency. The Engineer shall approve or disapprove other Manufacturers' materials in accordance with the General Conditions after all information is submitted and reviewed. Any substitute materials submitted shall be subject to independent lab testing at the contractor's expense.

1.5 QUALITY ASSURANCE AND CONTROL

A. The geocell system material shall be provided from a single Manufacturer for the entire project.

B. The Manufacturer's Quality Management System shall be certified and in accordance with ISO 9001:2015 and CE certification. Any substitute materials submitted shall provide a certification that their geocell manufacturing process is part of an ISO program and a certification will be required specifically stating that their testing facility is certified and in accordance with ISO. An ISO certification for the substitute material will not be acceptable unless it is proven it pertains specifically to the geocell manufacturing operations.

C. The Manufacturer shall provide certification of compliance to all applicable testing procedures and related specifications upon the customer's written request. Request for certification shall be submitted no later than the date of order placement. The Manufacturer shall have a minimum of 20 years' experience producing geocells and accessories.

D. Certified Installer Training Course

1. At a minimum, the certified installer training course shall be taken by the contractor's project manager and on-site project manager.

2. The certified training course is free of charge and consists of reviewing the Construction Resource Package. The training course is 2 hours in length.

3. The contractor shall take the certified training course addressing best practices for base preparation, geotextile installation, engineered base composition and installation, unit installation and orientation and unit fill.

E. Pre-Construction Meeting: Prior to construction, conduct a virtual or on-site meeting to review all the requirements and expectations to complete the work. The pre-construction meeting shall be attended by all parties involved in the installation of the geocell system.

1. Manufacturer shall provide a recommended list of all necessary tools and equipment required for installation. Installation videos and techniques shall be reviewed.

2. Discuss any special features and requirements for the installation of the geocell system to prevent any delays and conflicts in completing the work.

F. Pre-Installation Meeting: Prior to installation of any materials, conduct a pre-installation meeting to discuss the scope of work and review installation requirements. The pre-installation meeting shall be attended by all parties involved in the installation of the geocell system.

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G. Manufacturer's Field Representative Qualifications:

1. Manufacturer shall provide a qualified field representative on-site at the start of construction to ensure the system is installed in accordance with the Contract Documents.

2. Manufacturer’s field representative shall have a minimum 10 years’ installation experience with the specified products in the specified application.

3. Manufacturer of any substitute materials to be used shall certify that a representative can meet the above criteria and will be on site for initial construction start up. Manufacturers other than Presto Geosystems will be required to provide proof the representative meets these qualifications.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to site in Manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and Manufacturer.

B. The materials shall be stored in accordance with Manufacturer's instructions. The materials shall be protected from damage and away from direct sunlight.

C. The materials shall be delivered, unloaded and installed in a manner to prevent and minimize damage.

1.7 WARRANTY

A. The Manufacturer shall warrant each section that it ships to be free from defects in materials and workmanship at the time of manufacture. The Manufacturer’s exclusive liability under this warranty or otherwise will be to furnish without charge to the original f.o.b. point a replacement for any section which proves to be defective under normal use and service during the 10-year period which begins on the date of shipment. The Manufacturer reserves the right to inspect any allegedly defective section in order to verify the defect and ascertain its cause.

B. This warranty shall not cover defects attributable to causes or occurrences beyond the Manufacturer’s control and unrelated to the manufacturing process, including, but not limited to, abuse, misuse, mishandling, neglect, improper storage, improper installation, improper alteration or improper application.

C. In no event shall the Manufacturer be liable for any special, indirect, incidental or consequential damages for the breach of any express or implied warranty or for any other reason, including negligence, in connection with the cellular confinement system.

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PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURER

A. Presto Geosystems, PO Box 2399, Appleton, Wisconsin 54912-2399.

Phone: (920) 738-1328. Email: info@prestogeo.com. Website: www.prestogeo.com.

2.2 GEOWEB® GEOCELL

A. Manufacturing Certification

1. The Manufacturer shall have earned a certificate of registration, which demonstrates that its quality-management system for its geocell system is currently registered to the ISO 9001:2015 and CE quality standards.

B. Base Materials

1. Polyethylene Stabilized with Carbon Black

a. Density shall be 58.4 to 60.2 pound/ft^3 (0.935 to 0.965 g/cm^3) in accordance with ASTM D 1505.

b. Environmental Stress Crack Resistance (ESCR) shall be 5000 hours in accordance with ASTM D 1693.

c. Resistance to Oxidation shall be minimum of 100 years in accordance with EN ISO 13438.

d. 100% of original strip tensile strength shall be retained following exposure to accelerated weathering in in accordance with EN 12224.

e. The Flexural Storage Modulus shall be a minimum of 800 MPa in accordance with ISO 6721.

f. Ultra-Violet light stabilization with carbon black.

g. Carbon Black content shall be 1.5 to 2 percent by weight, through addition of a carrier with certified carbon black content.

h. Carbon black shall be homogeneously distributed throughout material.

i. The manufacturer must have an in-place quality control to prevent irregularities in strip material.

C. Cell Properties

1. Individual cells shall be uniform in shape and size when expanded.

2. Individual cell dimensions (nominal) shall be dimensions ± 10%.

3. GW30V6 Cell

a. Length shall be 11.3 inches (287 mm).

b. Width shall be 12.6 inches (320 mm).

c. Nominal area shall be 71.3 in^2 (460 cm^2) plus or minus 1%.

d. Nominal depth shall be [6 inches (150 mm)]

D. Strip Properties and Assembly

1. Perforated Textured Strip/Cell

a. Strip sheet thickness shall be 50 mil (1.27 mm), minus 5 percent, plus 10 percent in accordance with ASTM D 5199. Determine thickness flat, before surface disruption.

b. Polyethylene strips shall be textured surface with a multitude of rhomboidal (diamond shape) indentations.

c. Textured sheet thickness shall be 60 mil plus or minus 6 mil (1.52 mm plus or minus 0.15 mm).

d. Indentation surface density shall be 140 to 200 per in^2 (22 to 31 per cm^2).

e. Perforated with horizontal rows of 0.4-inch (10 mm) diameter holes.

f. Perforations within each row shall be 0.75 inches (19 mm) on-center.

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g. Horizontal rows shall be staggered and separated 0.50 inches (12 mm) relative to hole centers.

h. Edge of strip to nearest edge of perforation shall be a minimum of 0.3 inches (8 mm).

i. Centerline of spot weld to nearest edge of perforation shall be a minimum of 0.7 inches (18 mm).

j. A slot with a dimension of 3/8 inch x 1-3/8 inch (10 mm x 35 mm) is standard in the center of the non-perforated areas and at the center of each weld.

2. Assembly of Cell Sections

a. Fabricate using strips of sheet polyethylene each with a length of 142 inches (3.61 m) and a width equal to cell depth.

b. Connect strips using full depth ultrasonic spot-welds aligned perpendicular to the longitudinal axis of strip.

c. Ultrasonic weld melt-pool width shall be 1.0-inch (25 mm) maximum.

d. Weld spacing for GW30V cell sections shall be 17.5 inches plus or minus 0.10 inch (445 mm plus or minus 2.5 mm).

E. Cell Seam Strength Tests

1. Minimum seam strengths are required by design and shall be reported in test results. Materials submitted with average or typical values will not be accepted. Written certification of minimum strengths must be supplied to the engineer at the time of submittals.

2. Short-Term Seam Peel-Strength Test

a. Cell seam strength shall be uniform over full depth of cell.

b. Minimum seam peel strength shall be [320 lbf (1,420 N) for 4-inch (100 mm) deep panels].

3. Long-Term Seam Peel-Strength Test

a. Conditions: Minimum of 7 days in a temperature-controlled environment that undergoes change on a 1-hour cycle from room temperature to 130 °F (54 °C).

b. Room temperature shall be in accordance with ASTM E41.

c. Test samples shall consist of two, four-inch (100 mm) wide strips welded together.

d. Test sample consisting of two carbon black stabilized strips shall support a 160-pound (72.5 kg) load for test period.

4. Internal Junction Efficiency

a. Internal junction efficiency (seams) shall be determined as a ratio of junction performance to perforated strip performance, as determined by EN ISO 10319 and EN ISO 13426-1.

b. Internal junction efficiency (factor of safety) shall be calculated for peel, shear and separation.

c. Minimum internal junction efficiency shall be ≥ 100 percent.

DRAFT
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5. Mechanical Junction Efficiency

    a. Mechanical junction efficiency (panel to panel connection) shall be determined as a ratio of junction performance to perforated strip performance, as determined by EN ISO 10319 and EN ISO 13426-1.

    b. Mechanical junction efficiency (factor of safety) shall be calculated for peel, shear and separation.

    c. Minimum mechanical junction efficiency shall be ≥ 100 percent.

    d. Connection type shall be with integral components as designated by the Manufacturer.

6. 10,000-hour Seam Peel Strength Certification

    a. Provide data showing that the high-density polyethylene resin used to produce the geocell sections has been tested using an appropriate number of seam samples and varying loads to generate data indicating that the seam peel strength shall survive a loading of at least 209 lbf (95 kg) for a minimum of 10,000 hours.

2.3 INTEGRAL COMPONENTS

Specifier Note: Select the appropriate components recommended in the project evaluation and delete the others.

A. ATRA® Stake Clip

1. The stake clip is a molded, high-strength polyethylene device available in standard (0.5 inch) and metric (10–12 mm) versions.

2. Stake clips shall be installed as an end cap on standard (0.5 inch) and metric (10–12 mm) steel reinforcing rods to form ATRA® Anchors.

B. ATRA® Key

1. The keys shall be constructed of polyethylene and provide a high strength connection with minimum pull-through resistance of 275 lbs (125 kg).

2. Keys shall be used to connect sections together at each interleaf and end-to-end connection.

3. The keys shall include a structurally reinforced handle and frictional barbs to enhance interlock with the textured wall surface to prevent mechanical joint failure including peel, shear and separation.

4. Metal staples, zip ties, and two-piece connectors are not an acceptable panel connection method.

2.4 STAKE ANCHORAGE

A. ATRA® Speed Stake

1. Speed stake shall be one piece injected molded design with integral flanged arms and barbs.

2. The stake shall be constructed of a specialty-based HDPE polymer alloy.

3. The minimum tensile strength shall be 14.5 kips (100 mPa).

4. The minimum bending strength shall be 575 lbs (2.55 kN).

5. The stake shall be non-magnetic, non-conducting and corrosion resistant.

6. The stake length and placement shall be as shown in the Contract Documents.

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a. .

2.5 INFILL MATERIALS

A. Infill material shall be crushed aggregate with a maximum particle size of one-third cell depth or as indicated in the Contract Documents.

B. Infill material shall be free of any foreign material.

C. Clays and silts are not acceptable infill material.

D. Infill material shall be free-flowing and not frozen when placed in the sections.

2.6 ADDITIONAL COMPONENTS

A. Geotextile

1. The 8-oz non-woven geotextile separation layer shall be as specified in the Contract Documents.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify site conditions are as indicated on the drawings. Notify the Engineer if site conditions are not acceptable. Do not begin preparation or installation until unacceptable conditions have been corrected.

B. Verify layout of structure is as indicated on the drawings. Notify the Engineer if layout of structure is not acceptable. Do not begin preparation or installation until unacceptable conditions have been corrected.

3.2 INSTALLATION

A. Prepare sub grade and install channel protection system in accordance with Contract Documents and manufacturer's installation guidelines.

Specifier Note: Revise the installation assistance as required including days on site and number of trips.

B. On-site time for installation assistance by the Manufacturer’s field representative shall be a minimum of 1 day with one trip. All travel and expense costs for field representative installation observation shall be included in the base bid price.

C. Sub Grade Preparation:

1. Excavate and shape sub grade per the Contract Documents.

2. Install geotextile separation layer in accordance with the Contract Documents and manufacturer’s recommendations including overlaps.

D. Section Anchorage

1. Anchorage requirements shall be as shown on the Contract Documents.

2. Anchorage with ATRA® Speed Stakes

a. Position collapsed sections at the crest of the channel.

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b. Excavate the anchor trench at the top of the channel to the depth as shown in the Contract Documents.

c. Drive speed stakes at the crest of the channel to secure the sections and allow expansion of the sections into position.

d. After the sections are expanded as desired, drive speed stakes so the arm of the speed stake engages with the top of the cell wall.

e. Connect the sections with ATRA keys at each interleaf and end-to-end connection. Insert the key through the cell wall I-slot before inserting through the adjacent cell. Turn the key 90 degrees to lock the sections together.

f. Fill the anchor trench with the specified material and compact as required by the Contract Documents.

g. Anchorage pattern and stake length shall be in accordance with the Contract Documents.

E. Aggregate Infill Placement

1. Place infill with suitable material handling equipment.
2. Infill material shall be free-flowing and not frozen when placed in the sections.
3. Limit drop height to prevent panel distortion.
4. Fill sections from the crest of the channel to toe or in accordance with Contract Documents.
5. Evenly spread infill ensuring the infill is flush with the top of the cell walls per the Contract Documents.

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Appendix A
Short-Term Seam Strength Test Procedure

Frequency of Test

The short-term seam peel strength test (referred to as the 'test' in this section) shall be performed on a geocell section randomly taken directly from the production line each two hours.

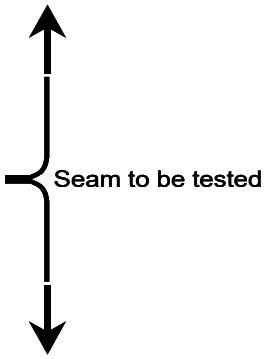

Figure A1

Test Sample Preparation

Randomly choose 10 welds within the selected section and cut those welds from the section such that 10 cm (4 in) of material exist on each side of the weld. The test sample shall have a general appearance as illustrated in Figure A1. Prior to testing, the test samples shall have air cool for a minimum of 30 minutes from the time the selected geocell section was manufactured.

Short-term Seam Peel Strength Test

The apparatus used for testing the short-term seam peel strength shall be of such configuration that the jaws of the clamp shall not over stress the sample during the test period. Load shall be applied at a rate of 12 in (300 mm) per minute and be applied for adequate time to determine the maximum load. The date, time and load shall be recorded.

Short-term seam peel strength shall be defined as the maximum load applied to the test sample. Minimum required short-term seam peel strength shall be:

- 320 lbf (1420 N) for the 4 in (100 mm) depth cell

Definition of Pass / Failure

Two methods shall be used to determine acceptability of the manufactured geocell sections. The successful passing of the short-term seam peel test shall not be used to determine acceptable of the polyethylene for use in manufacturing of the geocell sections. Acceptability of the polyethylene shall be determined through tests conducted in Appendix B.

The Tested Value

If more than one of the tested seam samples fails to meet the minimum peel strength, all sections manufactured after the previously successful test shall be rejected.

If all tested seam samples meet the minimum peel strength, all geocell sections manufactured since the last successful test shall be considered to have passed the test.

When one of the tested seam samples fails to meet the minimum peel strength, another 10 samples shall be randomly selected and cut from the previously selected section. If more than one of these samples fails, all sections manufactured after the previously successful test shall be rejected. Otherwise, all geocell sections manufactured since the last successful test shall be considered to have passed the test.

Visual Failure Mode

After each sample is tested, the seam shall be examined to determine the failure mode. Two failure modes are possible.

- Material failure within and adjacent to the weld indicated by material strain and
- Weld failure resulting in complete separation of the seam and shows little or no material strain.

Upon examination, when the failure mode results in complete separation of the seam and indicates little or no material strain, product manufactured shall be rejected.

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Appendix B
Long-Term Seam-Strength Test Procedure

Frequency of Test

The long-term seam peel strength test (referred to as the 'test' in this section) shall be performed:

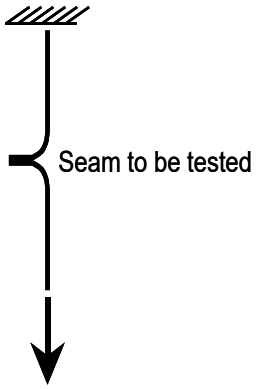

Figure B1

1. On each new resin lot number if the geocell manufacturer extrudes the sheet or strip used to produce the geocell material.
2. On each new order of sheet and/or strip if the geocell manufacturer does not extrude the sheet and/or strip used to produce the geocell material.

Test Sample Preparation

A test sample shall be made using two sets of two strips meeting all aspects of the material portion of this specification. Testing shall be done on non-perforated samples to obtain the true seam strength of the bond. One set of two strips are to be welded in welder position "A" and the other set of two strips are to be welded in welder position "B" producing two 1-cell long sections of geocell product. Welding should be done using a warm welder. The welded samples shall be labeled "A" and "B" and the weld seams of each sample shall be numbered consecutively from left to right starting with the number 1 (one) and corresponding to the welding head number.

The samples shall air cool for a minimum of 30 minutes. Randomly choose 10 welds from samples "A" and "B" and cut those welds from the geocell samples such that 4 in (10 cm) of material exist on each side of the weld. These samples shall be cut to a width of 4 in (10 cm). Properly identify each weld using the sample letter and weld seam number.

These samples are now ready to be tested.

Long-term Seam Peel Strength Test

The long-term seam peel strength test shall take place within an environmentally controlled chamber that undergoes temperature change on a 1-hour cycle from room temperature to 130°F (54°C). Room temperature shall be defined per ASTM E41.

Within the environmentally controlled chamber, one of the ends of the samples (10 samples in total) shall be secured to a stationary upper clamp. The jaws of the clamp shall be of such configuration that the grip does not over stress the sample during the test period. The sample shall be secured so that its axis is vertical and the welds being tested are horizontal as the sample hangs within the environmentally controlled chamber.

A weight of 160 lb (72.5 kg) shall be lifted via a hoist or lift platform and attached to the free lower end, of the sample. The weight shall be lowered in a way so that no impact load occurs on the sample being tested. The weight shall be sufficient distance from the floor of the chamber so that the weight will not touch the floor of the chamber as the sample undergoes creep during the test period. The date and hour the weight is applied shall be recorded.

The temperature cycle shall commence immediately within the environmentally controlled chamber. The test period for the applied load shall be 168 hours.

Definition of Pass / Failure

If any of the 10 seams fail prior to the end of the 168-hour (7-day) period, the date and hour of the failure shall be recorded and the polyethylene resin and strip material shall be considered unsuitable for geocell manufacturing.

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END OF SECTION

SECTION 03211

REINFORCING STEEL AND WELDED WIRE

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Reinforcing steel, steel welded wire reinforcement, dowelled anchors, T-headed bars, mechanical couplers, and grouted splice couplers.

B. Coating for reinforcing steel, steel welded wire reinforcement, and dowelled anchors.

1.2 RELATED SECTIONS Not Used

1.3 REFERENCES

A. AASHTO M 31: Deformed and Plain Carbon and Low-Alloy Steel Bars for Concrete Reinforcement

B. AASHTO M 336: Steel Wire and Welded Wire, Plain and Deformed, for Concrete Reinforcement

C. AASHTO T 106: Compressive Strength of Hydraulic Cement Mortar (Using 50-mm or 2-in Cube Specimens)

D. ASTM A 108: Steel Bar, Carbon and Alloy, Cold-Finished

E. ASTM A 641: Zinc-Coated (Galvanized) Carbon Steel Wire

F. ASTM A 493: Stainless Steel Wire and Wire Rods for Cold Heading and Cold Forging

G. ASTM A 706: Deformed and Plain Low-Alloy Steel Bars for Concrete Reinforcement

H. ASTM A 767: Zinc-Coated (Galvanized) Steel Bars for Concrete Reinforcement

I. ASTM A 775: Epoxy-Coated Steel Reinforcing Bars

J. ASTM A 884: Epoxy-Coated Steel Wire and Welded Wire Reinforcement

K. ASTM A 934: Epoxy-Coated Prefabricated Steel Reinforcing Bars

L. ASTM A 955: Deformed and Plain Stainless-Steel Bars for Concrete Reinforcement

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M. ASTM A 970: Headed Steel Bars for Concrete Reinforcement

N. ASTM A 1060: Zinc-Coated (Galvanized) Steel Welded Wire Reinforcement, Plain and Deformed, for Concrete

O. ASTM D 3963: Fabrication and Jobsite Handling of Epoxy-Coated Steel Reinforcing Bars

P. ASTM E 3121: Field Testing of Anchors in Concrete or Masonry

Q. ACI 355.4: Qualification of Post-Installed Adhesive Anchors in Concrete

R. American Welding Society (AWS) Standards

S. Concrete Reinforcing Steel Institute (CRSI) Manual of Standard Practice

1.4 DEFINITIONS

Not Used.

1.5 SUBMITTALS

A. Provide to the Town of Rico Quality Management Contractor (QMC) shop drawings of pre-cast structural concrete structures and flatwork for approval
   1. Detailed shop drawings for review of the following:
      a. Field bending procedure if required. Provide the seal of a Professional Engineer (PE) or Professional Structural Engineer (SE) licensed in the State of Colorado for plans that differ from construction plan details.

B. For cast-in-place concrete with reinforcing steel, provide all working drawings (including plan set markups) that indicate the location(s) and type(s) of structure(s) per Specification 03310: Structural Concrete.

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PART 2 PRODUCTS

2.1 REINFORCING STEEL

A. Deformed or plain carbon steel bars
   1. Refer to AASHTO M 31, Grade 60.

B. Deformed or plain low-alloy steel bars
   1. Refer to AASHTO M 706, Grade 60.

C. Deformed or plain stainless steel bars
   1. Refer to ASTM A 955, Type XM-28.

2.2 WIRE AND WIRE REINFORCEMENT

A. Refer to AASHTO M 336 for cold drawn steel wire.

B. Refer to AASHTO M 366 for steel welded wire reinforcement.

2.3 COATINGS

A. Epoxy Coating:
   1. Reinforcing steel
      a. Refer to ASTM A 775 or ASTMA 934.
   2. Wire and wire reinforcement
      a. Refer to ASTM A 934

B. Galvanized Coating:
   1. Reinforcing steel
      a. Refer to ASTM A 767
   2. Wire and wire reinforcement.
      a. Coat welded wire after fabrication.
      b. Refer to ASTM A 1060

C. Coat bars as described:
   1. Maintain epoxy coating thickness between 8 and 12 mils.
   2. Maintain galvanized coating thickness according to ASTM A 767.
   3. Coat bars after bending unless the fabricator can show that satisfactory results can be obtained by coating before bending.
   4. Do not use bent bars with visible cracks or damage in the coating.

D. Coating Repair Materials:
   1. Meet requirements of ASTM D 3693 for repair of epoxy coatings
   2. Use Inorganic Zinc-Rich Paint with 65 to 69 percent metallic zinc by Weight, or greater than 92 percent metallic zinc by weigh, or greater than 92 percent metallic zinc by weight in dry film for repair of galvanized coatings.

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PART 3 EXECUTION

3.1 DELIVERY, STORAGE, AND HANDLING

A. Protect the bars and the coating during handling and storage.
   1. Use systems with padded contact areas when handling epoxy coated bars.
   2. Pad all budling bands for epoxy coated bars.
   3. Lift all bundles with strong-back, multiple supports, or a platform bridge.
   4. Do not drop or drag bars.

B. Store bars above the ground surface on wooden or padded supports.
   1. Place timbers between bundles when stacking is necessary.
   2. Space the supports close enough to prevent sags in the bundles.

C. Cover epoxy coated reinforcing steel with an opaque covering upon delivery to the project site.
   1. Protect epoxy coated reinforcing steel that has been partially embedded in concrete or placed in formwork.
      a. Cover with an opaque covering before 30days exposure to sunlight.
   2. Place the opaque coverings to provide air circulation and prevent condensation on the reinforcing steel

D. Ship, handle, and store stainless reinforcing steel so it does not come in contact with carbon steel.
   1. Cover stainless reinforcing steel with tarps during outdoor storage
   2. Separate bundles of stainless reinforcing steel from other types of reinforcing steel with wooden spacers.
   3. Store stainless reinforcing steel on wooden supports off the ground or floor.

E. Store post-installed adhesive anchor adhesive in a cool, dry and dark place before use, according to the MPII.

3.2 COATING REPAIR

A. General:
   1. Follow product manufacturer recommendations for repairs.
   2. Clean and dry repair area.
   3. Protect nearby surfaces from overspray.
   4. Allow at least 45 minutes of drying time before encasing repaired reinforcing bar in concrete.

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3.3 PLACEMENT

A. Maintain a clean surface keeping all reinforcing steel free from loose mill scale, loose or thick rust, dirt, paint, oil, or grease.

B. Place and secure reinforcing steel in its designated position.
   1. Placing Tolerances:
      a. Decks or members 10 inches or less in thickness
         1) Cover: -⅛ inch, + ¼ inch.
         2) Longitudinal spacing for individual bars: ±1 inch.
            a) Clear spacing between bars: not less than the greater of 1½ inches, 1½ bar diameters, and 1½ times the maximum aggregate size.
         3) Average spacing for 10 bars: +1/16 inch.
            a) Do not use tolerance to decrease number of bars or increase bar spacing.
      b. Members 10 to 20 inches in thickness
         1) Cover: ±¼ inch.
         2) Longitudinal spacing for individual bars, stirrups, or ties: ±1 inch.
            a) Clear spacing between bars: not less than the greater of 1½ inches, 1½ bar diameters, and 1½ times the maximum aggregate size.

3) Average spacing for 10 bars: +1/16 inch.
a) Do not use tolerance to decrease number of bars or increase bar spacing.

c. Members greater than 20 inches in thickness
1) Cover: -¼ inch, + ½ inch.
2) Spacing for stirrups or ties: ±3 inches.
a) Clear spacing between bars: not less than the greater of 1½ inches, 1½ bar diameters, and 1½ times the maximum aggregate size.
3) Longitudinal bar spacing ±3 inches.
a) Clear spacing between bars: not less than the greater of 1½ inches, 1½ bar diameters, and 1½ times the maximum aggregate size.
4) Average spacing for 20 bars: ±¼ inch.
a) Do not use tolerance to decrease the number of bars or increase bar spacing.

d. Length of bar laps -1 inch
e. Embedment length -1 inch

C. Tie bars together with ties at intersections except when spacing is less than 9 inches in each direction, in which case tie at alternate intersections.
1. Tie bundled bars together at not more than 6 ft centers.

D. Maintain the required distance from the forms and between layers of reinforcing steel with prefabricated chairs, ties, hangers, or other devices.

E. Do not tack weld reinforcing bars in place.

F. Overlap at least one panel of welded wire reinforcement sheets to each other and fasten at the ends and edges.

G. Support reinforcing steel for slabs on grade on metal chairs attached to a sand plate or use precast concrete block supports according to this section, Article 2.6.
1. Precast concrete block supports may only be used to support bottom mat of bars.
a. Do not use blocks that are cracked or damaged.

H. Place stainless steel reinforcing so that it does not come in contact with carbon steel.
1. Do not tie stainless steel to uncoated or coated carbon steel reinforcing steel, galvanized attachments, or galvanized conduits.
a. Maintain at least 1 inch clearance between the metals using nylon or polyethylene spacers when stainless steel reinforcing or dowels must be near coated or uncoated reinforcing, or galvanized metals.
1) Bind using nylon cable ties.
2) Maintain at least 1 inch clearance unless insufficient space exists.
a) Either bar may be sleeved with a 1/8 inch minimum thick insulator material, such as polyethylene, nylon or rubber tube, extending at least 1 inch in either direction past the point of closest contact between the

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two dissimilar bars.

b) Sleeves are not allowed for bars that run parallel to each other.

I. Do not place concrete until the Engineer has verified the reinforcing steel placement and fastening.

3.4 FIELD CUTTING

A. Saw or shear coated bars that are specified to be cut in the field.
   1. Do not flame cut.

B. Repair the coating at the sawed or sheared end using specified patching or repair materials.

3.5 SPLICING

A. Furnish all reinforcing steel in the length shown.

B. Do not splice bars except where shown.

C. Stagger Splices as far as possible.

D. Place and tie lapped splices to maintain the clearance to the surface of the concrete shown.

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3.6 FIELD BENDING

A. Do not field-bend reinforcing steel unless shown.

B. Follow the authorized field bending procedure.

C. Use methods that do not damage coatings.

D. Do not heat the bars during the bending operations.

E. Do not bend bars partially embedded in concrete except as shown or pre-approved by the Engineer.
   1. Do not field straighten or re-bend fabricated bent bars.

3.7 FIELD QUALTIY CONTROL

A. Inspect coated bars for damage to the coating before the bars are in place and immediately before concrete placement.

END OF SECTION

SECTION 03310

STRUCTURAL CONCRETE

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Cast-in-place concrete construction in concrete structures such as concrete catch basins, junction boxes, waterways, trench drains, and miscellaneous structures.

1.2 RELATED SECTIONS

A. Section 02056: Borrow, and Backfill

B. Section 02317: Structural Excavation

C. Section 03055: Portland Cement Concrete

D. Section 03211: Reinforcing Steel and Welded Wire

1.3 REFERENCES

A. ASHTO M 111: Zinc (Hot-dip Galvanized) Coatings on Iron and Steel Products

B. AASHTO LRFD Bridge Construction Specifications Section 3 (Temporary Works)

C. ASTM C 578: Rigid, Cellular Polystyrene Thermal Insulation

D. International Concrete Repair Institute (ICRI)

1.4 DEFINITIONS

Not Used.

1.5 SUBMITTALS

Constructing drainage structures as cast-in-place structures requires prior approval by the Town of Rico Quality Management Contractor (QMC). Provide working drawings (including plan set markups) that indicate the location(s) and type(s) of structure(s).

A. Working Drawings for review:
   1. Drawings for Temporary Works if any.
   2. Provide the seal of a Professional Engineer or Professional Structural Engineer licensed in the State of Colorado on drawings and calculations for plans that differ from construction plan details.

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PART 2 PRODUCTS

2.1 CONCRETE

A. Class B concrete is air-entrained concrete for general use.
   1. Class D or P concrete may be substituted for Class B concrete. Additional requirements are:
      a. The course aggregate shall have a nominal maximum size of 1-1/2 inches or smaller.
      b. Class B Concrete for slope ditch paving shall be macro-fiber reinforced.

Table 1
CONCRETE FIELD REQUIREMENTS

Conc. Class	Required Field Compressive Strength (Psi)	Air Content % Range (Total)	Slump #	Maximum Water/Cementitious Material (w/cm) Ratio:
B	4500 at 28 days	5 – 8	+/- 2” of form 1373 Slump	w/cm on Form 1373
D	4500 at 28 days	5 – 8	+/- 2” of form 1373 Slump	w/cm on Form 1373
P	4500 at 28 days	4 – 8	+/- 2” of form 1373 Slump	w/cm on Form 1373

*Excerpt from CDOT Table 601-1

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2.2 REINFORCING STEEL AND WELDED WIRE

B. Refer to Section 03211.

2.3 FORMS

A. Plywood, wood, metal, glass, or a combination of these materials.

B. Use mortar-tight concrete forms, true to the dimension, lines, and grades of the structure and of sufficient rigidity to prevent objectional distortion of the formed concrete surface caused by pressure of the concrete and other loads incidental to the construction operations.

C. Discontinue using a form or forming system that produces a concrete surface with excessive undulations until modifications have been made.
   1. Undulations are excessive if they exceed either 1/8 inch over 10 feet or 1/270 of the center-to-center distance between studs, joints, forms, fasteners, or wales.

D. Use lumber that is free of knotholes, loose knots, cracks, splits, warps, or other defects that affect the strength or appearance of the structure.

1. Rough lumber may be sued for forming surfaces if visible rough surfaces do not show on the final structure.

E. Form exposed element surfaces of a concrete structure with the same forming material or with materials that produce a concrete surface that is uniform in texture, color, and appearance.

2.4 MISCELLANEOUS STEEL ITEMS

A. Galvanize all miscellaneous steel items permanently cast into structural concrete elements. Refer to AASHTO M 111.

PART 3 EXECUTION

3.1 PREPARATION

A. Forms:
1. Clean the inside surfaces of dirt, mortar, and foreign material before concrete placement.
2. Use form oil that permits the ready release of the forms and does not discolor the concrete.
3. Do not place concrete in the forms until:
   a. All work connected with form construction has been completed.
   b. All embedded materials have been placed.
   c. All dirt, chips, sawdust, water, and other foreign materials have been removed.
   d. Inspection and approval have been obtained.

B. Trench Drains:
1. Excavation and Backfill – Refer to Section 02317.
2. The Town of Rico Quality Management Contractor (QMC) may direct written changes in dimensions or elevations when necessary.
3. Place Forms for non-precast structures.

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3.2 PLACE CONCRETE

A. Do not place concrete without authorization from the QMC.

B. Do not deviate from the Concrete Placing and Finishing Plan without written authorization from the QMC.

C. The QMC may postpone placement operations if the concrete cannot be protected during adverse weather.

D. Handling concrete:
   1. Avoid segregation of the ingredients.
   2. Arrange chutes, troughs, or pipes used as aids in placing concrete so the concrete does not separate.
   3. Use metal or metal-lined chutes and troughs. Do not use aluminum.

E. Placing Concrete:
   1. Deposit concrete as close as possible to its final position without allowing it to flow laterally in the form.
   2. Spread fresh concrete in horizontal layers with thickness not greater than what can be compacted with vibrators.
   3. Do not use vibrators to flow concrete laterally.
   4. Limit placement interruptions to 45 minutes.
   5. Place and vibrate each layer before the preceding layer has taken initial set.
   6. Do not place concrete in flowing water.

F. Consolidating concrete:
   1. Use spades or wedge-shaped tampers to secure a smooth and even texture of the exposed surface.

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3.3 CONCRETE SURFACE FINISHING

A. Give all formed concrete surfaces at least an ordinary surface finish.

3.4 CONCRETE SURFACE FINISHING PROCEDURES

A. Ordinary Surface Finish
   1. Remove all fins and projections after removing forms.
      a. Clean, point, and true all honeycomb spots, broken corners or edges, cavities made by form ties, and other holes and defects.
      b. Keep all areas to receive mortar saturated with water for at least 30 minutes before mortar placement.
   2. Use a mortar made of cement and fine aggregate for pointing, not more than one hour old, mixed in the proportions used in the grade of concrete being finished.
   3. Cure the mortar patches and rub to blend with surrounding concrete.
   4. Tool and free all joints of mortar and concrete.
      a. Leave the full length of the joint filler exposed with clean and true edges.

B. Floated surface finish on flat work other than bridge decks and approach slabs:

1. Striking Off
   a. Carefully rod and strike off the surface with a strike board following the cross sections and grades shown after compaction.
   b. Allow for camber as required.
   c. Operate the strike board longitudinally or transversely and move it forward with a combined longitudinal and transverse motion so that neither end is raised from the side forms during the process.
   d. Keep a slight excess of concrete in front of the cutting edge at all times.
2. Floating
   a. Use longitudinal or transverse floating or both to create uniform surface.
   b. Longitudinal floating is required except in places where it is not feasible.
3. Longitudinal Floating
   a. Work the longitudinal float operated from foot bridges with a sawing motion while holding it parallel to the road centerline.
   b. Pass gradually from one side of the pavement to the other.
      1) Move the float forward ½ of its length and repeat operation.
   c. Substitute machine floating if equivalent results are produced.
4. Transverse Floating
   a. Operate the transverse float across the concrete surface by starting at the edge and slowly moving to the center and back again to the edge.
      1) Move the float forward ½ of its length and repeat the operation.
   b. Preserve the crown and cross section of the concrete surface.
5. Straight edging
   a. Test the concrete surface for trueness with a straightedge after the longitudinal floating has been completed and the excess water has been removed while the concrete is still plastic.
   b. Furnish and use an accurate 10 ft straightedge held parallel to the road centerline in contact with the surface.

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c. Check the entire area immediately filling depressions with freshly mixed concrete, then strike off, consolidate, and refinish.
d. Cut down and refinish high areas.
e. Continue the straightedge testing and re-floating until the concrete surface is at the required grade and contour.

3.5 CURING

A. When the ambient temperature is below 35° F the contractor shall maintain a concrete temperature above 50° F during the curing period. It shall be the Contractor's responsibility to determine the necessity for undertaking protective measures.

B. The QMC shall review for adequacy, the contractor's determination of the curing period.

C. The minimum curing period shall be 120 hours.

3.6 CLEANUP

A. Remove formwork and all temporary building materials before final inspection.

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END OF SECTION

SECTION 03390

CONCRETE CURING

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Concrete curing materials and methods.

B. This section does not apply to cast-in-place Portland Cement Concrete Pavement and Lean Concrete Base Course.

C. This section does not apply to dry cast precast concrete members, except for precast concrete box and three-sided culvert structures.

1.2 RELATED SECTIONS

A. Section 03055: Portland Cement Concrete

B. Section 03310: Structural Concrete

1.3 REFERENCES

A. ASTM C 309: Liquid Membrane-Forming Compounds for Curing Concrete

B. ASTM C 1315: Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete

1.4 DEFINITIONS

Not Used.

1.5 SUBMITTALS

A. Manufacturer’s product data sheets and recommended installation instructions.

PART 2 PRODUCTS

2.1 CURING COMPOUND

A. Refer to this Section, Part 3, Tables 1 and 2.

B. Limit Volatile Organic Compounds (VOC) content to 350 grams / liter maximum.

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PART 3 EXECUTION

3.1 CURING MEASURES

A. Prevent drying of exposed concrete surfaces after placing concrete and until applying the selected curing method.
   1. Keep exposed concrete surfaces moist by fogging if the surfaces begin to dry before the selected curing method can be applied.

B. Cure newly placed concrete to prevent loss of water by one or more of the following methods according to this Section.
   1. Forms-in-Place Method (FIPM):
      a. Cure formed surfaces of concrete by retaining the forms in place without loosening for the specified curing period.
      b. Complete the cure using one of the methods specified for the element when forms are removed before completing the specified curing period.
   2. Water Method (WM):
      a. Keep concrete surfaces continuously wet by ponding, spraying, or covering with materials that are continuously and thoroughly wet.
         1) Acceptable materials for covering concrete surfaces include cotton mats, multiple layers of burlap, or other materials that retain water.
         2) Secure the cover materials to prevent wind or other forces from removing them.
         3) Keep the cover materials saturated throughout the curing period.
      b. Do not erode or damage the finish.
      c. Prevent excess water from impacting traffic on in-service roadways.
   3. Liquid Membrane-Curing Compound Method (LMCCM):
      a. Thoroughly seal exposed concrete surfaces with a liquid membrane-curing compound immediately after finishing operations are completed for exposed concrete surfaces or immediately after forms are removed and necessary patching is complete when forms are removed before the end of the curing period.
      b. Apply liquid membrane-curing compound uniformly at the rates specified in Tables 1 and 2.
      c. Immediately repair damage to the curing compound film during the specified curing period by re-spraying.
   4. Waterproof Cover Method (WCM):
      a. Exposed concrete surfaces must be wet before installing cover.
      b. Cover exposed concrete surfaces with a material that prevents moisture loss from the concrete.
         1) Do not use materials that have lost their waterproof qualities.
         2) Secure cover to prevent displacement by wind.
      c. Use this method only when the covering can be secured adequately to prevent moisture loss.
      d. Maintain the air temperature beneath the cover at not less than 50

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degrees F. The use of insulated blankets is permitted.

5. Steam or Radiant-Heat Method (SRHM):
   a. Use only for precast concrete members manufactured in prequalified plants.
   b. Use a complete steam or radiant heat curing system that includes 24 hour temperature control and monitoring devices.
      1) Use temperature recording devices as necessary to verify that temperatures are uniform throughout the enclosure and within the limits specified.
   c. Steam Heat Curing System:
      1) Use a suitable enclosure to contain live steam and minimize moisture and heat losses.
      2) Use low-pressure and saturated steam.
      3) Maintain 90 to 100 percent relative humidity in the curing enclosure.
      4) Do not apply heat directly on the concrete or cause localized high temperatures.
   d. Radiant Heat Curing System
      1) Apply heat by means of pipes circulating steam, hot oil, or hot water, or by electric heating elements.
      2) Use a suitable enclosure to contain the heat.
      3) Minimize moisture loss by covering exposed concrete surfaces with plastic sheeting.
   e. Waiting Period:
      1) Do not apply the initial application of heat before the initial set of the concrete except to maintain the minimum temperature within the curing enclosure.
      2) Maintain the temperature within the curing enclosure at not less than 50 degrees F.
         a) Live steam or radiant heat may be used to maintain the curing enclosure at the proper minimum temperature.
         b) Keep the concrete wet during this period.
   f. Curing Period:
      1) Increase the temperature within the concrete during the initial application of heat at an average rate not to exceed 40 degrees F per hour until the curing temperature is reached.
      2) Do not exceed a concrete temperature of 160 degrees F when applying heat.
      3) Maintain the concrete temperature at between 50 degrees F and 160 degrees F.
      4) Maintain the curing temperature until the concrete achieves the specified strength for terminating the curing.
      5) Decrease the concrete temperature at a rate not to exceed 40 degrees F per hour until reaching a temperature of not more than 20 degrees F above the air temperature to which the concrete will be exposed when discontinuing heat.
   g. Transfer the stressing force to the concrete immediately after discontinuing steam curing or radiant heat curing for prestressed members.

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C. Prevent exposed concrete surfaces from drying when transitioning between curing methods.

D. Fogging:
   1. Use fogging when necessary to prevent drying of exposed concrete surfaces.
   2. Use fogging equipment with compressed air misters that atomize the water and produce a very fine mist and not a spray.
      a. Use equipment that allows for adjusting the rate of fogging depending on the conditions that are present.
      b. Maintain misters at least 5 ft above the concrete surface and aimed in a direction not lower than horizontal.
      c. Do not use fogging to apply excess water to the concrete surface to aid finishing.
      d. Do not affect the water/cement ratio of the concrete.
      e. Discontinue fogging when a fine coating of water or sheen is visible on the concrete surface.
   3. Do not damage the concrete surface.

E. Follow the hot and cold weather limitations according to Section 03055.

3.2 CURING COMPOUND APPLICATION

A. Comply with the following when applying liquid membrane-curing compound to concrete drainage structures, concrete waterways, concrete trench drains, and concrete APWA Type G curb.
   1. Do not use curing compounds on surfaces that require a rubbed finish or on surfaces of construction joints against which new concrete will be cast, unless approved.
      a. Completely remove the curing compound before casting new concrete against the surface when curing compound is allowed.

B. Preparation
   1. Verify concrete surfaces are ready for curing.
      a. Complete all patching and surface finishing before applying curing compound.
   2. Prepare concrete surfaces and apply curing compound according to product manufacturer's recommendations. Refer to Tables 1 and 2 for application rates.
   3. Keep surfaces moist until the curing compound is applied.

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3.3 CURE CAST-IN-PLACE CONCRETE

A. Cure all formed surfaces using the FIPM.

B. Cure exposed surfaces of newly placed cast-in-place concrete according to the curing methods and curing periods in Table 1.

1. Determine the concrete compressive strength using field cured cylinders cured the same as the concrete member when compressive strength is used to determine the curing period. The curing period is the specified number of consecutive days when compressive strength is not used to determine the curing period.

Table 1

Cast-in-Place Concrete Curing Requirements				
			Curing Compound	
Element	Curing Methods for Exposed Surfaces[1]	Curing Period[2]	Type	Application Rate
Curbs, gutters, flatwork, and other concrete items not specified	• LMCCM	7 days	ASTM C309 TYPE I D, CLASS A	100 ft²/gal

Table 1 Notes:
[1] Use FIPM for all formed surfaces. Specified curing methods apply to exposed concrete surfaces and any formed surfaces where the forms are removed before the curing period ends.
[2] f'c = specified 28 day minimum compressive strength.

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3.4 CURE PRECAST CONCRETE

A. Cure all formed surfaces using the FIPM.

B. Cure exposed surfaces of newly placed precast concrete according to the curing methods and curing periods in Table 2.

1. Determine the concrete compressive strength using field cured cylinders cured the same as the concrete member when compressive strength is used to determine the curing period. The curing period is the specified number of consecutive days when compressive strength is not used to determine the curing period.

Table 2

Precast Concrete Curing Requirements				
			Curing Compound	
Element	Curing Methods for Exposed Surfaces[1]	Curing Period[2]	Type	Application Rate
Precast Catch Basins and Risers, Structures and Precast Three-Sided Trench Drain Structures (wet cast and dry cast)	• SRHM or • WM or • WCM • LMCCM	0.70 f'c or 7 days	ASTM C309 TYPE I D, CLASS A	100 ft^2/gal
Wet Cast Concrete Drainage Structures (such as manholes, grade rings, catch basin grade sections, pipe end sections, precast inlets and boxes)	• SRHM or • WM or • WCM • LMCCM	0.50 f'c or 7 days	ASTM C309 TYPE I D, CLASS A	100 ft2/gal

Table 2 Notes:
[1] Use FIPM for all formed surfaces. Specified curing methods apply to exposed concrete surfaces and any formed surfaces where the forms are removed before the curing period ends.
[2] f'c = specified 28 day minimum compressive strength.

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END OF SECTION

SECTION 03575

FLOWABLE FILL

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Flowable fill.

1.2 RELATED SECTIONS

A. Section 03055: Portland Cement Concrete.

1.3 REFERENCES

A. AASHTO M 194: Chemical Admixtures for Concrete

B. ASTM D 4832: Preparation and Testing of Controlled Low Strength Material (CLSM) Test

1.4 DEFINITIONS

Not Used.

1.5 SUBMITTALS

A. Batch Proportions
   1. Seven Days before placement.

B. Trial Batch
   1. Certified test results or conduct laboratory trial batch to verify strength before placement.

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PART 2 PRODUCTS

2.1 MATERIALS

A. Cement – Refer to Section 03055.

B. Pozzolan – Refer to Section 03055.

C. Sand.

D. Coarse Aggregate – Determine a suitable aggregate size and gradation for intended application.

E. Admixtures
   1. Water reducers and set accelerators. Refer to AASHTO M 194.

PART 3 EXECUTION

3.1 INSTALLATION

A. Combine materials to meet the requirements for strength and constructability as required. Determine strength from trial batches at 28 days.
   1. Minimum strength – 50 psi according to ASTM D 4832.
   2. Maximum strength – 150 psi according to ASTM D 4832.
   3. Slump: 5 inches to 10 inches.

END OF SECTION

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ARC's 2025 Obligations Under Funding Agreement

Important Note: The descriptions below are summaries. Please refer to the full provisions in the Funding Agreement to ensure compliance.

This memorandum first summarizes the Atlantic Richfield Company's (ARC's) obligations and pursuant to the Funding Agreement for Calendar Year 2025, and provides a status update on each. Second, this document identifies areas for improvement to be discussed with ARC in 2026

I. ARC VCUP Obligations for 2025

Phase 1 VCUP Soil Remediation of Existing Developed Properties

- Timing:
  - Begin summer 2025 and complete by end of 2029 construction season (§ 4.1.3)
- Obligation:
  - Outreach to obtain access agreements for remediation of developed lots (§ 4.3.1)
  - ARC will send access agreement to the address on record for the Property Owner as listed in the Dolores County Assessor's records (§ 4.3.2)
  - Resample select previously remediated properties
- Status:
  - ARC performed outreach efforts and secured 20 to 30 access agreements for sampling and remediation of existing developed lots
  - ARC completed two rounds of sampling
    - Past remediated lots
    - Sampled non-remediated lots based on access

Phase 1 VCUP Soil Sampling Program of Undeveloped Lots

- Timing:
  - Begin summer 2025 and complete by end of 2028 construction season (§ 4.1.3)
- Obligation:
  - Outreach to obtain access agreements for sampling of undeveloped lots
  - ARC to send access agreement to the address on record for the Property Owner as listed in the Dolores County Assessor's records (§ 4.3.2)
- Status:
  - ARC performed outreach efforts and secured access agreements for sampling of undeveloped lots

Phase 1 VCUP Roads and Alleys Sampling

- Timing:
  - No later than end of 2026

- Obligation:
  - ARC to sample road and alley segments per the workplan (§ 4.5.1)
  - ARC will identify road segments that require remediation and present the Town with maps (§ 4.5.3)
- Status:
  - ARC completed this work but new information indicates additional work is required

Phase 1 VCUP Road Remediation Scoping

- Timing:
  - Not specified, but once the Town is charged for the below costs
- Obligation:
  - ARC to reimburse the Town for the fees and costs charged by the Phase 1 VCUP Road Remediation Owner's Agent in performing the road remediation scoping tasks (§ 4.6.1)
- Status:
  - Anderson is at 95% construction documents for identified road and stormwater segments
  - Anderson will be presenting a request for proposal to bid the work at the December 2025 Board Meeting seeking authorization for release from the Board

Funding of Stormwater Management Engineering Services

- Timing & Obligation:
  - ARC will pay the costs of the Town-Wide Stormwater Engineering Services minus grant funding (§ 4.7.2-.3)
    - Prior to grant submittal
      - ARC will fund portions of such work reasonably needed to support the Town's preparation and submittal of the 2025 grant application(s) (§ 4.7.2)
    - Once the Town applies for grant funding and provides ARC with documentation
      - ARC will fund the remaining portions of the Town-Wide Stormwater Engineering Services (§ 4.7.2)
- Status:
  - Anderson is billing ARC directly for stormwater design so this obligation is being met. This approach is working well

Phase 1 VCUP Geographic Information System ("GIS")

- Timing:
  - During and until completion of the Phase 1

- Obligation:
  - ARC shall maintain the VCUP GIS VCUP Soil Remediation Work (§ 4.13.1)
  - ARC shall furnish the Town with appropriate training information and user instructions for the VCUP GIS (§ 4.13.2)
- Status:
  - The ARC contracting contact (Deb) has been available and this is working out very well so far

Phase 1 Reporting

- Timing:
  - By December 31, 2025
- Obligation:
  - ARC is to submit an annual status report that includes the following elements (§ 4.14.1)
    - Summary of soil sampling activities, including numbers and types of properties where soil sampling was completed (i.e., type of property, any roadway segments, rights of way, and borrow areas or other clean soil sources).
    - Soil sampling locations, by VCUP Lot Number, property address and x-y coordinates, and results of soil sample analyses for lead (i.e., samples collected from all property types and any samples collected from borrow areas or other sources of clean soil identified for use at remediated properties).
    - Summary of sample analysis data quality and any corrective actions taken to address data quality concerns.
    - List of properties identified where soil lead content exceeded the Residential, Public Facilities, or Open Space LAL.
    - Lists of properties where ISWPs were prepared for soil remediation and properties where soil remediation was completed.
    - Copies of ISWPs prepared, including notes regarding any "as built" modifications.
    - Requests sent to CDPHE for NADs and NFAs, referenced by the VCUP Lot Number, and any determinations received from CDPHE.
- Status:
  - ARC planning to provide this information in December 2025

Phase 2 VCUP SMP Contractor Selection and Retention

- Timing:
  - Not specified, during Phase 2
- Obligation:

  - ARC will, after consulting with the Town, select and retain a contractor to serve as the Phase 2 VCUP SMP Contractor (§ 5.1.1)
  - ARC is responsible during Phase 2 for paying all costs of the Phase 2 VCUP SMP Contractor (§ 5.1.3)
- Status:
  - ARC has retained its contractor who is engaged, as required.
  - Town has not sought information about insurance.
  - No issues identified so far

Phase 2 & 3 VCUP SMP Implementation and Services

- Timing & Obligation:
  - Throughout Phase 2
    - ARC to ensure that the Phase 2 VCUP SMP Contractor is effectively implementing and managing the Phase 2 VCUP SMP (§ 5.2.1)
  - Prior to or during the calendar year for which the payment is due
    - ARC or the Town can propose adjustments to the annual amount paid by ARC for material changes (increases or decreases) to the scope/costs of Phase 3 VCUP SMP services (§ 6.4.6)
  - Within 60 days of a funding increase agreement
    - If an agreement is reached to increase the funding for Phase 3 VCUP SMP services, ARC shall pay to the Town the agreed upon increase (§ 6.4.7)
- Status:
  - ARC retained a contractor to do this work.
  - No issues identified to date.

Phase 2 and Phase 3 Maintenance of Town Roads and Alleys

- Timing:
  - As needed
- Obligation:
  - For soil or road-base material derived from a source that has not been approved by the Town and that the Town plans to use as non-native fill for roads and alleys, ARC (or the Phase 2 VCUP SMP Contractor) must perform, at ARC's cost, lead testing to verify that the material contains <100 mg/kg lead (§ 7.4.3)
  - For material that the Town plans to use as road base or surfacing material for roads and alleys where remediation was not required, ARC (or the Phase 2 VCUP SMP Contractor) must perform, at ARC's cost, lead testing to verify that the material contains <400 mg/kg lead (§ 7.4.3)
- Status:

- Town did bring in road base. Not yet sampled, as far as town knows. But cover is from a location that is used by ARC so it is an approved location. May want to secure sampling data on lead from AR.

Establishment and Maintenance of Clean Soil Stockpile

- Timing:
  - By April 1, 2025
- Obligation:
  - ARC to establish the Clean Soil Stockpile by delivering at least 100 cubic yards of soil to a secure location located near the Soil Lead Repository (§ 7.7.1)
  - ARC to share the results of the soil testing required with the Town (§ 7.7.1)
  - ARC to provide reasonable access for Developers to the Clean Soil Stockpile during regular business hours (§ 7.7.1)
  - If requested by Developers that require large quantities of soil, ARC to coordinate with the Developer to arrange delivery (§ 7.7.1)
  - ARC to replenish the quantity of soil in the Clean Soil Stockpile as necessary (§ 7.7.2)
- Status:
  - Was delayed, but supposedly set up – not yet needed. If needed, ARC has been trucking to location where needed.
  - Town should request sampling data to make sure soil meets specifications

Operation and Maintenance of the Soil Lead Repository

- Timing:
  - Ongoing
- Obligation:
  - ARC to operate the soil repository per the VCUP (§ 7.8.1)
  - ARC to provide a designated area and equipment for Developers to sweep residual soil from vehicles after disposal (§ 7.8.6)
- Status:
  - Due to construction activities near the repository, ARC has not allowed contractors to access at convenience times. This is an area in need of improvement. Property owners may experience higher incremental costs as contractors incur more costs to access repository.

Establishment and Annual Funding of the VCUP Incremental Costs Funding Account

- Timing & Obligation:
  - Within 14 days after the Town provides notice to ARC of establishing the VCUP Incremental Costs Funding Account and by March 1 of each subsequent year
    - ARC to pay $75,000 to the Town (§ 8.1.2)

        - Status: Paid on time.
    - Within 30 days of receiving the request for replenishment
        - ARC to submit replenishment payment (to replenish the account to $75,000) if the amount in the account falls below $15,000 (§ 8.1.4)
        - Status: Not Applicable
    - By November 30, 2025 and each subsequent year
        - The Town must calculate the appropriate adjustments for inflation and provide a proposed updated VCUP Incremental Cost Schedule for the upcoming year to ARC (§ 8.2.4)
        - Status: Not applicable to ARC but town can so calculate and provide to ARC.

Initial Payment for One-Time VCUP-Related Expenses

- Timing:
    - By March 2, 2025
- Obligation:
    - ARC to pay $60,000.00 to the Town to be used to pay for VCUP-related start-up expenses (§ 9.1)
- Status:
    - ARC paid this amount on time.

Annual Payments for Recurring VCUP-Related Expenses

- Timing & Obligation:
    - By March 1 of 2025 and each of the next 4 years
        - ARC to pay to the Town $102,800 (§ 9.2.2)
    - March 1 of each subsequent year
        - ARC to pay the Town $40,000 (§ 9.2.2)
- Status:
    - ARC paid this amount on time.

Reimbursement of Attorneys' Fees

- Timing:
    - Periodically, within 60 days of ARC receiving attorneys fees statement
- Obligation:
    - ARC to reimburse the Town for up to, but not exceeding, $60,000.00 during the first calendar year (and $35,000.00 per calendar year thereafter adjusted for inflation), for the Town's attorneys' fees and costs (§ 9.4)
- Status:
    - ARC paid this amount on time.

Timely Payments by AR

- Timing:
  - Ongoing
- Obligation:
  - ARC's payments to the Town must be made in a timely manner (§ 9.6.1)
  - Unless otherwise specified, ARC will make payments within 60 days of the invoice date or date of the agreement to provide additional funds (§ 9.6.1)
  - ARC will be subject to a late fee of 1% per month on all invoices and other payment obligations not paid by the date due (§ 9.6.2)
- Status:
  - Not yet applicable. ARC has made payments on time

Minimum Insurance Requirements

- Timing:
  - Upon engagement with contractors
- Obligation:
  - The Town and ARC shall require any contractor (including, the Phase 1 VCUP Road Remediation Contractor, the Phase 2 VCUP SMP Contractor, and the Phase 3 VCUP SMP Contractor) to procure and maintain adequate insurance (§ 10.1)
- Status:
  - Not aware of any issues

Declaration of Use Restriction

- Timing & Obligation:
  - ARC and the Town will each execute and record a use restriction on any property either party owns as of the Effective Date or acquires after the Effective Date within the Town Boundaries prohibiting the surface owner from conducting any hardrock mining or mineral exploration (§ 15.1)
    - For properties owned by the Parties as of the Effective Date, a use restriction shall be recorded no later than May 1, 2025 (§ 15.1)
    - For property acquired after the Effective Date, a use restriction shall be recorded no later than 120 days after acquisition of the property (§ 15.1)
- Status:
  - This was completed

II. Areas for Improvement in 2026

In general, in 2025, ARC has implemented the VCUP obligations per the Funding Agreement; however, there are several potential areas for potential improvement that the Town could discuss with ARC in 2026 for future years.

First, as discussed separately, colored soils appeared in certain road segments previously determined to be below the action level. The Town and ARC need to develop an appropriate method of addressing this new information such that the appropriate road segments can be remediated.

Second, ARC outsourced its payment program to a third party that has led to delays in payments. It would be beneficial for ARC and the Town to work together to identify more direct and efficient methods to request and deliver funding and to shorten the lengthy payment timelines that the Town experienced in 2025, including potentially the use of electronic payments rather than paper checks.

Third, contractors have experienced challenges accessing the Soil Repository due to construction at the area around the pit. Contractors have communicated to the Town that even though they have gone to the Soil Repository during business hours, they were told to return the following day or to idle for several hours. While such delays could be treated as incremental costs that ARC is responsible for paying, the Town would prefer working with the ARC to increase efficiency and reduce delays for the contractors.

Fourth, the Town would like ARC to conduct and share sampling data of soil brought into the Town since no such data has been shared thus far. See VCUP Application, Exhibit B section 3.5.1.2 (Specifications for Borrow Source and Celan Cover Soil). This specification is intended to ensure the soil cover is conducive to growth and will support vegetation. The Town can also discuss with ARC the need to minimize the risk of noxious weeds in the imported soils to ensure program success.

Finally, the Town and ARC should discuss appropriate re-testing of lots where existing sampling that does not meet the sampling requirements of the Work Plan and Land Use Code.

Water Infrastructure

Goal: Reactivate silver creek water system

Objective	Timeframe	Persons Responsible	Statues	Comments/Add' Information
Impose development fees for subdivisions, PUD and large scale developments	Ordinance adopted by End of year 2023	Chauncey McCarthy/legal/Board of Trustees	Completed	In process
RFP for engineering documents for the necessary improvements needed to reactive silver creek	Select Firm by end of 2024	Chauncey McCarthy/Board of Trustees	In Progress	PNA Completed, Design work has not started
Pursue funding to reactive silver creek	To run concurrent with engineering	Chauncey McCarthy/Engineering firm	In Progress	State revolving fund, grants, and potential federal funding will all be necessary to offset this project's cost
Go out to bid for water system improvements, construct improvements, reactive silver creek	Contingent upon funding. Ideally breaking ground summer 2026	Chauncey McCarthy/Engineering Firm/ Board of Trustees / Construction company		Funding is the biggest hurdle for this project. As federal infrastructure funds roll out there will be a better understanding of the potential timeline

Goal: Repair or replace third storage water tank

Objective	Timeframe	Persons Responsible		Comments/Add' Information
Research and determine funding sources	Complete by Dec-2024	Chauncey McCarthy	Completed	Funding for tank rehab is limited. Water taps sales may offset cost
Pursue funding via grant, state revolving fund, water taps sold. Budget for repairs	Complete by Dec-2024	Chauncey McCarthy	In Progress	Estimate from summer 2022 was 250,000
Go out to bid for water tank rehabilitation and complete necessary work	Complete by summer 2026	Chauncey McCarthy/Board of Trustees/Tank Rehabilitation company		This is unlikely due to the Dolores River Water line replacement taking priority

Street Fund and Infrastructure

Goal: Construct New Town Shop

Objective	Timeframe	Persons Responsible	Status	Comments/Add' Information
Finalize construction documents	End of Feb-2023	Chauncey McCarthy/Goff Engineering/Wiley Architecture	Completed	Almost Completed
Apply for DOLA EIAF grant to offset construction cost	Grant Due March-2023 Awarded June-2023	Chauncey McCarthy	Completed	
Finalize lease purchase option need to fund the project and amend budget	Budget amendment July-2023	Chauncey McCarthy/Troy Bernberg/Board of Trustees	Completed	Include sale of town owned space as revenue
Go out for bid for construction	July-2023 through August-2023	Chauncey McCarthy/ Board of Trustees	Completed	
Construct shop	August-2023 through October-2024	Chauncey McCarthy/Construction company	Completed	Project will include public parking, bathroom, and secured yard storage

Goal: Maintain employees and update equipment

Objective	Timeframe	Persons Responsible	Status	Comments/Add' Information
Pursue a mill levy increase during the November 2025 election	November-2025 election	Chauncey McCarthy/Legal/Anna Wolf/Board of Trustees/Resident electors	Completed	Approved 2025 General Election
Purchase new smaller front end loader*	Order by Q4 2026	Chauncey McCarthy /Board of Trustees		
Review compensation and benefits package to stay competitive with other employers	Yearly	Chauncey McCarthy/Board of Trustees	In Progress	

*large purchases will be more manageable with a mill levy increase. If mill levy fails again these purchases will need to staggered greater then what is proposed.

Goal: Dust mitigation and paving

To be reviewed again by the Board of Trustees in 2025

Goal: Improve Road Ways and Stormwater Management System**

**This goal is associated with the townwide VCUP and should be discussed by the board to make determinations of the objectives.

Sewer Infrastructure

Goal: Centralized Sewer System*

Objective	Timeframe	Persons Responsible	Status	Comments/Add' Information
Complete amended PER for town waste water treatment and collection system	Final Report Feb-2024	Chauncey McCarthy/Board of Trustees/Engineering Firm	Completed	Bohannan Huston selected
Pursue funding to continue project	Ongoing	Chauncey McCarthy/Board of Trustees/Engineering Firm	In progress	State revolving fund, grants, and potential federal funding will all be necessary to offset this project's cost
Successfully release the 2.5 million dollars of congressionally directed spending	Ongoing	Chauncey McCarthy/Engineering firm	In progress	Grant has been award design is underway
Create construction documents,	Ongoing	Chauncey McCarthy/Engineering Firm/ Board of Trustees /	In progress	Design is underway and is expected to be compelted Q4 2026
Go out to bid, install improvements, and construct treatment facility	Unknown	Chauncey McCarthy/Engineering Firm/ Board of Trustees / Construction company/Engineering Firm		Project may be phased based upon funding opportunities.

*Due to the size, scope, and complexity of this project timelines at this point are near impossible to determine. Once the amending PER is completed and funding is investigated there should be a better understanding of what is feasible. Still waiting to see how federal funding will be dispersed

Municipal Documents

Goal: Update Municipal Documents

Objective	Timeframe	Persons Responsible	Status	Comments/Add' Information
Rico Land Use Code global revision	Complete by December 2024	Chauncey McCarthy/Jennifer Stark/Planning Commission/Board of Trustees/Legal	In Progress	In process now. Will require planning commission recommendation and Board of Trustees adoption
Revise Home Rule Charter	Complete by Dec 2024	Chauncey McCarthy/Board of Trustees/Legal	Completed	Work through charter amendments during Trustee meetings
Go to ballot with proposed Home Rule Charter amendments	November 2025 Election	Chauncey McCarthy/Legal/Anna Wolf/Board of Trustees/Resident electors	Completed	This will require a majority vote
Revise Rico Master Plan	Start in 2025	Chauncey McCarthy/Board of Trustees/Master Planning Committee	In Progress	This is a large project and the town may want to consider working with a consultant through the process
Revise Water Rules and Regulations	Adopt by end of July 2024	Chauncey McCarthy/Board of Trustees/Legal/Pat Drew	Completed	Address water conservation and revise document in its entirety
Codify current legislation	Start once new RLUC is adopted	Chauncey McCarthy/Board of Trustees/Municode		Engage with Municode, process takes two years.
Update hazard mapping	On Going	Chauncey McCarthy/Planning Commission/Board of Trustees/DNR/Engineers	In Progress	Debris fan mapping is underway, DNR is updating Floodplain mapping, Avalanche and wetland mapping has not begun

Parks and Open Space

Goal: Improve Parks and Open Space

Objective	Timeframe	Persons Responsible	Status	Comments/Add' Information
Activate Community Engagement Team and gain community input	February 2023 - April 2023	Chauncey McCarthy/CET Team/ FPM Consulting	Completed	
Create park design and budget	April 2023 - May 2023	Chauncey McCarthy/FPM Consulting	Completed	Tetris exercies community input meeting held 7/9/23
Pursue funding for park improvements	August 2023 - June 2024	Chauncey McCarthy/FPM Consulting	Completed	Initial project scope funded, pursuing additional funding to enhance amminites
Construct park improvements	July 2024 - August 2025	Chauncey McCarthy/FPM Consulting/Construction firm	Completed	
Park Grand Opening	August 2025	Chauncey McCarthy/FPM Consulting/Local Community	Completed	
Improve trails within town and surrounding area	On going	RTA/Local Community	In Progress	
Complete the Rio Grande South Trail Improvements and bridge	On going	RTA/Local Community	In Progress	

Additional Notes

Close out VCUP by end of Q3 2024 (Town wide storm drainage, soil management contractor, remediate roads, adopted IC, educate residents, promote participation)
Continue learning from other communities' success and downfalls.
Save Money, responsible purchases and spending
Provide support for school district initiative (Completed)
Citizen communication and engagement (post agendas in additional locations, provide meeting summary to mailserv list, host two community participation meetings a year)
Revisit recycling program
Help local businesses by providing support. (Chamber of commerce)
Research and investigate impact fees for large scale developments
Provide support to RFPD
Promote open space
Town shop project includes a parking lot which can be used as an intercept lot during snow removal
Reengage / stay involved with ARCO, Trust for Public Lands, MLC to ensure ARCO acquired property that's not needed or remediation is placed in conservation.
Continue to pursue/update technology