

CWCB FEASIBILITY STUDY FOR THE RURAL DITCH DIVERSION STABILIZATION & REPAIR

FEASIBILITY STUDY APPROVAL
Pursuant to Colorado Revised Statutes 37-60-121 & 122, and
in accordance with policies adopted by the Board, the
CWCB staff has determined this Feasibility Study meets all
applicable requirements for approval.

Signed

Date

PREPARED FOR:

Rural Ditch Company
PO Box 119
Longmont, CO 80502

Colorado Water Conservation Board
1313 Sherman Street, Room 718
Denver, CO 80203

PREPARED BY:

Civil Resources, LLC
323 5th Street
P.O. Box 680
Frederick, CO 80530
303.833.1416

DATE PREPARED: JUNE 2020



CIVIL RESOURCES, LLC
ENGINEERS & PLANNERS

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1.0 **INTRODUCTION**

Civil Resources is submitting this letter on behalf of the Rural Ditch Company in the required format for CWCB Feasibility Studies supporting loan requests. The proposed project is primarily located in the southeast quarter of the northeast quarter of Section 20, Township 2 North, Range 68 West of the 6th Prime Meridian in Weld County, Colorado as shown on Figure 1. The Site is located on property owned by the Williams Family Farm, LLC. and temporary construction controls could extend onto the adjacent property to the east owned by Dream Weaver Holdings, LLC. The damage and undermining of the structure began when the high river flows overtopped the rock dam (south) side of the check and scoured a large hole on its downstream side and subsequently extended that scour into the structure. The structure was initially damaged during the September 2013 flooding and further damaged in subsequent high river flows. The proposed repair work will be completed in a two stage process due to the requirement for construction to occur during low flow conditions within the river (i.e. typically lower flows in the fall & winter months) and the need for the Rural Ditch to be operational by April 1, 2020 to deliver irrigation flow to its shareholders.

Purpose: The purpose of the proposed project is to provide permanent stabilization of an existing river diversion structure that allows the real property owners to divert their adjudicated water rights for continued beneficial use.

Project Sponsor: The Rural Ditch Company (the Ditch Company) is a mutual ditch company that delivers water to its shareholders for beneficial use. The members include farmers, special districts, commercial interests and municipalities with approximately 48.52 percent remaining in agricultural use. A shareholder list is included in Appendix A. The ditch has historically provided irrigation water to lands west of the South Platte River approximately as approximately shown on Figure 1. Certificate(s) of Incorporation and associated Bylaws are included in Appendix B.

Water Demands: The composition of the project sponsor indicates that the water rights are currently applied to crops for irrigation, used to provide a reliable drinking water supply to the public by municipalities, and used within State of Colorado approved augmentation plans to offset depletions created by irrigators and commercial/industrial users. Approximately 48.52 percent of the ditch shares are still applied to agriculture. The approximate area under the ditch is shown on Figure 1 (Expert Rpt by Deere-Ault). The total average diversion is 6,302 acre-feet per year. The ditch decree significantly meets the irrigation demands of its shareholders without supplement.

Water Rights: Water Rights decrees are included in Appendix C. The Rural Ditch has two decrees as summarized below:

Decree Information

Water Right Name	Adj. Date	Apr. Date	Admin. No.	Use	Rate	
Rural Ditch						
- No. 1 Right	6/2/1882	5/10/1862	4513	Irrigation	22.75	cfs
- No. 2 Right	6/2/1882	3/10/1863	4817	Irrigation	60.25	cfs

2.0 **ALTERNATIVE ANALYSIS**

Civil Resources considered several alternatives to determine which tract would protect the Ditch Company's property right and provide a long-term solution that minimized the potential social and environmental impacts. Following is a description of the alternatives considered and the expected pros and cons of each:

2.1 *Alternative A – No Action*

The no action alternative provides a baseline of comparison for the cost of doing nothing to protect the ditch companies

existing investment in infrastructure. This alternative represents an extreme level of risk to the Sponsor by essentially allowing a high probability of failure to persist. Failure of the check structure and diversion system would likely result in damaged or completely failed crops for the majority of the service area and cause the breach of terms included in municipal and commercial/industrial shareholders' augmentation plans. Non-compliance with approved augmentation plans would arguably result in damage to non-interested parties property rights by denying the river proper return volumes. There is no immediate direct cost to the Sponsor for Alternative A (No Action), however, the potential costs if the existing structure fails are immeasurably high for the Sponsor and even extends to non-interested parties.

2.2 *Alternative B – Stabilization and Repair*

Alternative B presents a design and construction methodology (sequence) that would provide near-term stabilization of the structure that will be incorporated into the final design and construction project. Phase 1A includes an upstream sheet piling and concrete apron. The downstream side of the structure is proposed to be stabilized with grouted boulders in an apron. Additionally, Phase 1A structure stabilization measures that include damage assessment, backfill and pressure grouting to fill voids near the structure floor that cannot be backfilled sufficiently if adequate time is available before high river and irrigation begin in the Spring. Phase 1B construction is proposed to rebuild the rock dam with a center cutoff sheetpile and downstream grouted boulder apron. Figures 3 through 6 show the preliminary design concept and proposed sequencing of the construction and the cost estimated for stabilization and repair is summarized below:

Site Preparation / Mobilization	\$50,000
Site Work	\$342,500
Check Structure Stabilization	\$283,300
<i>Total Construction Cost Estimate =</i>	<i>\$675,800</i>
<i>Total Engineering Cost Estimate =</i>	<i>\$45,000</i>
<i>Total Project Cost Estimate =</i>	<i>\$720,800</i>

2.3 *Alternative C – Full Replacement*

Full replacement of the check and diversion structure was considered due to the observed extensive erosion that has undermined the existing structure and associated potential damage that has yet to be identified. A full replacement of the structure would require the installation of full-depth sheetpile (to bedrock) and construction of a coffer dam upstream of the structure to allow the river water to be diverted and to create a working area for the installation of new caissons and concrete check structure. The cost estimated for a full replacement is summarized below:

Site Preparation / Mobilization	\$60,000
Site Work	\$694,500
Check Structure Stabilization	\$283,300
<i>Total Construction Cost Estimate =</i>	<i>\$1,037,800</i>
<i>Total Engineering Cost Estimate =</i>	<i>\$60,000</i>
<i>Total Project Cost Estimate =</i>	<i>\$1,097,800</i>

3.0 **RECOMMENDED ALTERNATIVE**

Civil Resources recommends that the Stabilization and Repair considered in Alternative B be implemented based on the near-term stability and the low cost-benefit ratio it provides. Alternative A (No Action) does not protect the financial interests of the Ditch Company shareholders and Alternative C is cost prohibitive and unlikely to be completed prior to the need to divert water for the irrigation of crops and other beneficial uses in Spring of 2021.

Following is an outline of the anticipated project schedule which considers the need to provide near-term stabilization of the structure while also providing a long-term serviceable project:

<u>Task</u>	<u>Description</u>	<u>Begin Date</u>	<u>End Date</u>
1	Engineering Design	Nov2019	July 2020
2	Phase 1 Construction	Nov 2020	Dec 2020
3	CWCB Loan	Oct 2020	March 2021
4	Phase 2 Construction	Jan 2021	March 2021

Impacts: Environmental impacts of the proposed project would be limited to short-term “disturbance” activities because the work proposed is associated with the repair of an existing structure and will not result in an increase in diversions from the river compared to historic operations. No social impacts are anticipated from the repair of the structure.

Institutional Considerations: Civil Resources anticipates that a Nation Wide Permit will be issued by the USACE (Permit Request Letter in Appendix D) for the repair of this existing structure. The Ditch Company has a legal right and obligation to make repairs necessary to enable it to make deliveries to its shareholders and who have court approved decrees and augmentation plans to satisfy.

4.0 FINANCIAL PLAN

The Rural Ditch Company has provided financial information as summarized below:

Cash-on-hand:	\$177,000 (some allocated to other hard costs)
Loans:	No outstanding loans
Collateral:	None
Current Annual Assessment:	\$1,420 / year base
Max. Annual Assessment:	Voted on annually (\$2,500 to \$3,000)

Based on fifty (50) shares within the ditch and assessments to other rights carried by the ditch, a maximum annual revenue of \$140,000 is reasonable based on an average assessment of \$2,800 per share. Previous assessments have increased from \$1,280 in 2016 to \$1,410 in 2020 not including special assessments. The Ditch Company has approximately \$50,000 per year in operation and maintenance that is a hard cost based on the last ten (10) years cost records which leaves approximately \$21,000 to \$90,000 per year available for debt retirement. The projected interest rate is 1.5 percent for a 10-year loan which corresponds to an expected maximum loan payment of \$85,000 annually on a \$805,000 loan. The Rural's balance sheets are included in Appendix E.

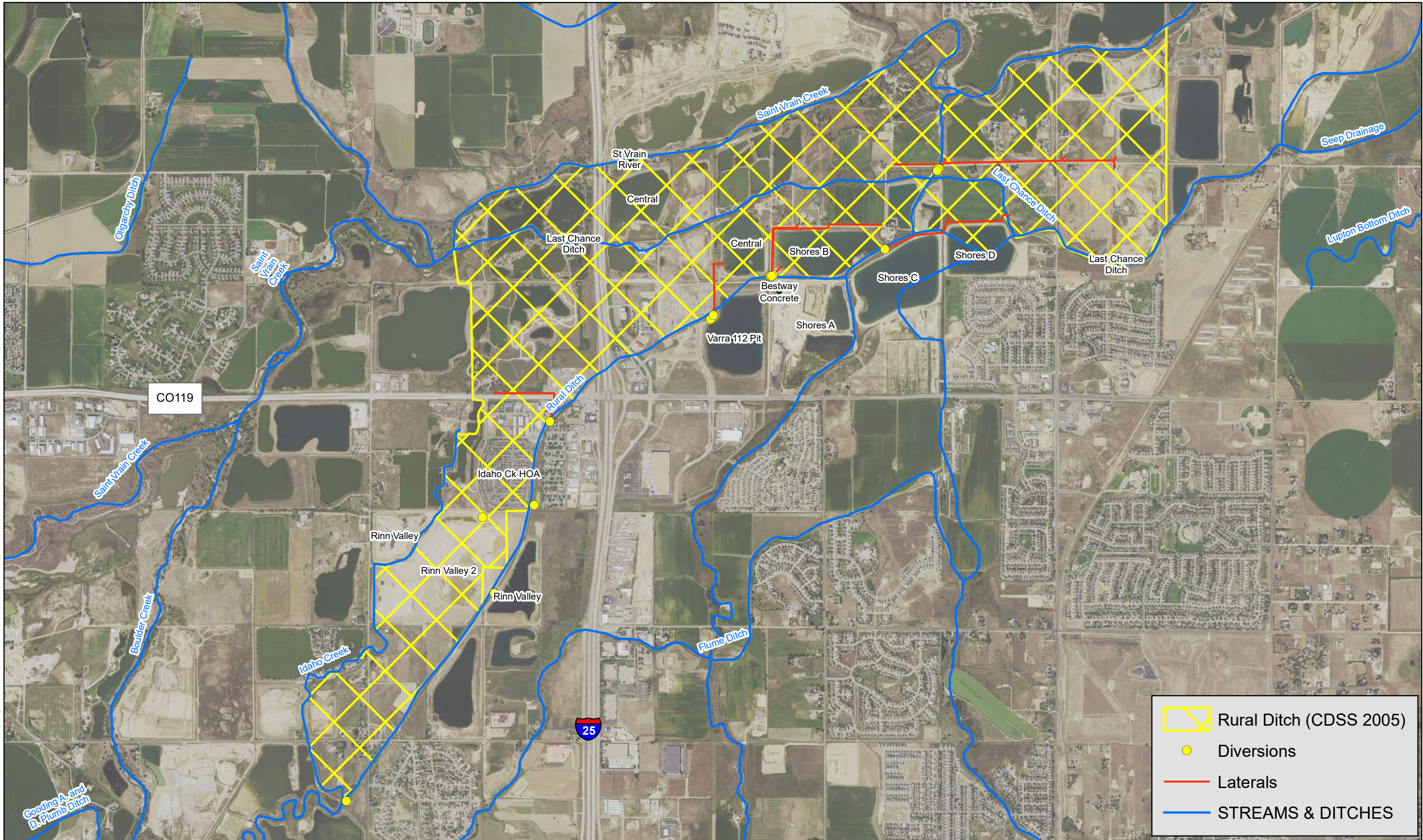
TABLES

Opinion of Construction Cost Alternative B: Repair & Stabilize						
Site Preparation / Mobilization						
Item #	Item	Qty	Unit	Unit Cost	Engineer Cost	Civil Resources' Cost Notes
1	Mobilization	1	LS	\$30,000	\$30,000	
2	Surveying	1	LS	\$20,000	\$20,000	
Subtotal =					\$50,000	
Site Work						
Item #	Item	Qty	Unit	Unit Cost	Engineer Cost	Notes
3	Earthwork					
	- Cofferdam	1	LS	\$30,000	\$30,000	
	- River Grading	1	LS	\$30,000	\$30,000	
4	River/Water Control					
	- Dewatering/Well Point Setups	1	LS	\$40,000	\$40,000	
	- River Management	1	LS	\$30,000	\$30,000	
5	Concrete: Flume, Walls	25	CY	\$1,300	\$32,500	
6	Flume Appurtenances	1	LS	\$15,000	\$15,000	
7	48" Slide Gate	1	EA	\$45,000	\$45,000	
8	Obermeyer Sandout Gate	1	EA	\$120,000	\$120,000	Replace existing gate
Subtotal =					\$342,500	
Check Structure Stabilization						
Item #	Item	Qty	Unit	Unit Cost	Engineer Cost	Notes
9	Demo/Remove/Stockpile Ex. Riprap	1	LS	\$40,000	\$40,000	
10	Grouted Boulders	3,920	SF	\$60.00	\$235,200	
11	Riprap	90	CY	\$90.00	\$8,100	
Subtotal =					\$283,300	
Total Construction Cost Estimate						
Site Preparation / Mobilization					\$50,000	
Site Work					\$342,500	
Check Structure Stabilization					\$283,300	
Total Construction Cost Estimate =					\$675,800	
Contingency @ 10% =					\$68,000	
Total Project Cost =					\$743,800	

Opinion of Construction Cost						
Alternative C: Full Replacement						
Site Preparation / Mobilization						
Item #	Item	Qty	Unit	Unit Cost	Engineer Cost	Civil Resources' Cost Notes
1	Mobilization	1	LS	\$40,000	\$40,000	
2	Surveying	1	LS	\$20,000	\$20,000	
Subtotal =					\$60,000	
Site Work						
Item #	Item	Qty	Unit	Unit Cost	Engineer Cost	Notes
3	Earthwork					
	- Cofferdam	1	LS	\$30,000	\$30,000	
	- River Grading	1	LS	\$60,000	\$60,000	
4	River/Water Control					
	- Dewatering/Well Point Setups	1	LS	\$80,000	\$80,000	
	- River Management	1	LS	\$60,000	\$60,000	
5	Concrete: Flume, Walls					
	- Flume/Return	25	CY	\$1,300	\$32,500	
	- Check Structure	80	CY	\$2,500	\$200,000	In river construction rate
	- Diversion	40	CY	\$1,300	\$52,000	Replace existing concrete structure
6	Flume Appurtenances	1	LS	\$15,000	\$15,000	
7	48" Slide Gate	1	EA	\$45,000	\$45,000	
8	Obermeyer Sandout Gate	1	EA	\$120,000	\$120,000	Replace existing gate
Subtotal =					\$694,500	
Check Structure Stabilization						
Item #	Item	Qty	Unit	Unit Cost	Engineer Cost	Notes
9	Demo/Remove/Stockpile Ex. Riprap	1	LS	\$40,000	\$40,000	
10	Grouted Boulders	3,920	SF	\$60.00	\$235,200	
11	Riprap	90	CY	\$90.00	\$8,100	
Subtotal =					\$283,300	
Total Construction Cost Estimate						
Site Preparation / Mobilization					\$60,000	
Site Work					\$694,500	
Check Structure Stabilization					\$283,300	
Total Construction Cost Estimate =					\$1,037,800	
Contingency @ 10% =					\$104,000	
Total Project Cost =					\$1,141,800	

FIGURES

Q:\0153 Rural Ditch\000 General Info\GIS\Rural Map.mxd Wednesday, May 20, 2020 03:57 PM



DEERE & AULT
A SCHNABEL ENGINEERING COMPANY

RURAL DITCH SERVICE AREA
Aerial Photography - 2017 NAIP

JOB NO: NA SCALE: 1 inch = 2000 feet

EXHIBIT:
1

PRELIMINARY (60%) CONSTRUCTION PLANS FOR

RURAL DITCH RIVER DIVERSION IMPROVEMENTS

STRUCTURE STABILIZATION & AUGMENTATION BYPASS

WELD COUNTY, COLORADO

SET #:_____

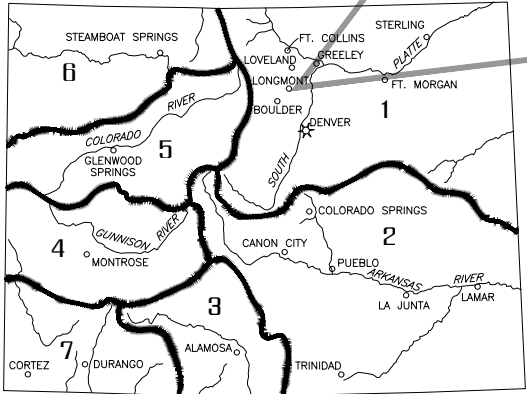
CERTIFICATION:
I HEREBY CERTIFY THAT THESE PLANS FOR THE CONSTRUCTION THE RURAL DITCH RIVER DIVERSION IMPROVEMENTS WERE PREPARED UNDER MY DIRECT SUPERVISION FOR THE OWNERS THEREOF.

BY: _____ DATE: _____
BRAD L. HAGEN, P.E.
COLORADO, P.E. #32982

THE RURAL DITCH COMPANY DOES HEREBY ACCEPT AND APPROVE THESE PLANS FOR THE CONSTRUCTION OF A WATER PROJECT ON THE TRACT DESCRIBED WITHIN.

BY: _____ DATE: _____
AUTHORIZED REPRESENTATIVE
RURAL DITCH COMPANY

Sheet List Table	
SHEET NUMBER	SHEET TITLE
1	Cover
2	LEGEND NOTES
3	EXISTING CONDITIONS SITE PLAN
4	PROPOSED STABILIZATION PLAN
5	PROFILES 1
6	PROFILES 2
7	DETAIL VIEW



STATE OF COLORADO
PROJECT LOCATION MAP

N.T.S.

PROJECT LOCATION MAP

SCALE: 1" = 1000 FEET

PREPARED FOR:
RURAL DITCH COMPANY
1580 LOGAN ST, SUITE 700
DENVER, CO 80203
303.837.0812

PREPARED BY:
CIVIL RESOURCES, LLC
323 5th STREET
P.O. BOX 680
FREDERICK, CO 80530
303 833 1416

THE SHEET LEGEND, AND GENERAL NOTES ARE LOCATED ON SHEET 2.



REVISIONS				DATE:
NO.	DESCRIPTION	DATE	BY	Dec 10, 2019
				DWG:
				Figure1.dwg
				SHEET:
				1

NOTES:

GENERAL:

1. ALL CONSTRUCTION SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS AND SHALL NOT BE CHANGED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
2. THE CONTRACTOR IS RESPONSIBLE FOR CONTROL OF POLLUTION, SURFACE WATER AND EROSION THROUGHOUT THE DURATION OF THE CONTRACT.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING: A. ANY PERMITS OR LICENSES REQUIRED FOR CONSTRUCTION B. PROPER NOTIFICATION OF ALL NECESSARY AGENCIES PRIOR TO CONSTRUCTION AND FOR REQUIRED INSPECTIONS.
4. THE EXACT LOCATION OF ANY UTILITY LINES AND COORDINATION OF ANY DISRUPTION IN SERVICES WITH AFFECTED PARTIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE DESIGN ENGINEER IS TO BE NOTIFIED BY THE CONTRACTOR OF ANY DISCREPANCY OR CONFLICT PRIOR TO CONTINUING CONSTRUCTION.
6. ALL LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY FEATURES NOT SHOWN ON THESE DRAWINGS WHICH ARE THOUGHT TO POTENTIALLY IMPACT CONSTRUCTION.
7. ALL CONCRETE SHALL BE COMPLETED AND ALLOWED TO CURE SUFFICIENTLY PRIOR TO COMMENCING BACKFILL IN ACCORDANCE TO THE PROJECT SPECIFICATIONS.

EARTHWORK:

1. THE SITE SHALL BE CLEARED AND GRUBBED PRIOR TO ANY EXCAVATION. WOODY MATERIAL IS TO BE CHIPPED AND STORED WITH TOPSOIL.
2. TOPSOIL SHALL BE TEMPORARILY STOCKPILED WITHIN THE WORK AREA IN SUCH A WAY AS TO AVOID EROSION LOSSES. TEMPORARY SEEDING MAY BE REQUIRED.
3. FINE GRADING OF THE FINISHED SITE (I.E., TOP SOILED SURFACE) IS NOT REQUIRED UNTIL SEEDING, HOWEVER ALL AREAS WHERE EARTHWORK IS CONDUCTED SHALL BE RELATIVELY SMOOTH AND UNIFORM. RUTS, LARGE CLUMPS AND ROUGH AREAS SHALL BE SMOOTHED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER BY USE OF HARROW OR DISC. TRASH, DEBRIS, AND STONES LARGER THAN 6 INCHES ARE ALL TO BE REMOVED AND DISPOSED OF PROPERLY.
4. THE UPPER 2 INCHES OF SOIL (MINIMUM) IN AREAS TO BE SEEDED SHALL BE LOOSE AND FRIABLE AND SUITABLE FOR SEEDING. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO ACHIEVE THIS CONDITION.
5. CONTROL OF GROUNDWATER AND SURFACE WATER NECESSARY TO CONDUCT THE EARTHWORK IS THE RESPONSIBILITY OF THE CONTRACTOR. ADDITIONAL GROUNDWATER CONTROLS OTHER THAN THOSE SHOWN AS PERMANENT ON THE PLANS WILL BE NECESSARY TO COMPLETE THE WORK.
6. CONTRACTOR IS RESPONSIBLE FOR ALL DUST CONTROL REQUIRED. WATER IS PERMISSIBLE TO USE AND AVAILABLE ON THE SITE. CHEMICAL AGENTS FOR DUST CONTROL MUST BE APPROVED PRIOR TO USE.
7. ANY MODIFICATIONS TO THE ELEVATIONS, GRADES AND EARTHWORK SHALL BE APPROVED AHEAD OF TIME BY THE OWNER'S ENGINEER. ALL CHANGES ARE TO BE REFLECTED ON THE CONTRACTOR'S "RED LINED" AS-BUILT DRAWINGS.
8. THERE SHALL BE NO FILL PLACED ABOVE THE ORIGINAL GROUND SURFACE IN THE FLOODWAY AS DELINEATED IN THESE PLANS.

SITE ACCESS AND PROTECTION:

1. CONTRACTOR SHALL USE ONLY DESIGNATED ACCESS ROUTES TO THE PROJECT SITE, AND SHALL REPAIR AREAS DAMAGED OUTSIDE OF THE DESIGNATED CONSTRUCTION ZONE FOR THE PROJECT AT THEIR OWN EXPENSE.
2. CONTRACTOR SHALL NOT OPERATE EQUIPMENT, STORE MATERIALS/SUPPLIES, OR OTHERWISE DISTURB WETLANDS AND SENSITIVE AREAS IN OR ADJACENT TO THE PROJECT AREA. CONTRACTOR WILL BE RESPONSIBLE FOR ANY IMPACTS FROM THEMSELVES AND THEIR SUBCONTRACTORS.
3. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND MARKING ALL UTILITIES IN THE PROJECT SITE, AND FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION. DAMAGED UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR IS RESPONSIBLE FOR HAULING AND PLACING OF ALL EXCESS MATERIALS FROM THE SITE AS DIRECTED BY THE ENGINEER.
5. THE CONTRACTOR IS TO LIMIT ACCESS TO THE SITE BY UNAUTHORIZED PERSONS WITH A SECURITY FENCE AND CLEARLY MARK THE CONSTRUCTION ZONE.

UTILITY:

1. THE UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA.
2. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
3. THE CONTRACTOR IS TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 FOR UTILITY LOCATIONS AT LEAST 2 BUSINESS DAYS, NOT INCLUDING THE DAY OF ACTUAL NOTICE, PRIOR TO EXCAVATING.
4. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.

BORING:

1. EXPLORATORY BORINGS WERE DRILLED IN _____ OF 20' AND _____ AND _____ OF 20', USING A TRACK MOUNTED CME 75.
2. BORINGS WERE DRILLED WITH A 4.5 INCH CONTINUOUS HOLLOW STEM FLIGHT AUGER BY CUSTOM DRILLING AND DAKOTA DRILLING.
3. LOGS ARE DRAWN TO DEPTH.
4. LINES BETWEEN MATERIALS REPRESENT APPROXIMATE BOUNDARIES BETWEEN TYPES. TRANSITIONS MAY BE GRADUAL.
5. GROUNDWATER LEVELS WILL FLUCTUATE.

LEGEND:

---	---	PROPERTY LINE	---	---	PROPOSED MAJOR CONTOUR
-----	-----	EXISTING MAJOR CONTOUR	---	---	PROPOSED MINOR CONTOUR
-----	-----	EXISTING MINOR CONTOUR	---	---	PROPOSED EASEMENT
---	X---	EXISTING BARBED WIRE FENCE	---	---	PROPOSED SETBACK
---	○---	EXISTING CHAINLINK FENCE	+	+	PROPOSED TEMPORARY EASEMENT
---	---	EXISTING EASEMENT	---	X---	PROPOSED BARBED WIRE FENCE
---	G---	EXISTING GAS LINE	---	○---	PROPOSED CHAINLINK FENCE
---	W---	EXISTING WATER LINE	---	G---	PROPOSED GAS LINE
---	---	EXISTING STORM SEWER	---	W---	PROPOSED WATER LINE
---	RW---	EXISTING RAW WATER LINE	---	RW---	PROPOSED RAW WATER LINE
---	IR---	EXISTING IRRIGATION	---	---	PROPOSED STORM SEWER
---	E---	EXISTING BURIED ELECTRICAL	---	FO---	PROPOSED FIBER OPTIC
---	OH---	EXISTING OVERHEAD ELECTRICAL	---	IR---	PROPOSED IRRIGATION
---	FO---	EXISTING FIBER OPTIC	---	E---	PROPOSED BURIED ELECTRIC LINE
---	SS---	EXISTING SANITARY SEWER	---	OH---	PROPOSED OVERHEAD ELECTRICAL LINE
---	MON.	MONITORING WELLS	---	UD---	PROPOSED UNDERDRAIN
---	⊗	EXISTING WATER VALVE	---	SF---	PROPOSED SILT FENCE
---	⊙	EXISTING BOLLARD	---	SS---	PROPOSED SANITARY SEWER
---	⬮	WATER MARKER	---	---	PROPOSED CHANNEL CENTER LINE
---	⬮	EXISTING UTILITY POLE	---	2.8:1	PROPOSED SLOPE AND DIRECTION
---	OH---	EXISTING OVERHEAD UTILITY LINES	---	---	PROPOSED RIPRAP
---	U---	EXISTING BURIED UTILITY LINES	---	---	PROPOSED ASPHALT
---	⊗	GEOLOGIC BORING	---	---	DAM CREST
---	⬮	FLARED END SECTION	---	---	PROPOSED CONCRETE
---	⊗	EXISTING TREES	---	---	SLURRY WALL EXTENTS
---	⊗	EXISTING FIRE HYDRANT	---	---	DETAIL IDENTIFICATION NUMBER
---	⊗	EXISTING MANHOLE (STORM, SANITARY & WATER)	---	---	DRAWING NUMBER WHERE DETAIL IS SHOWN
---	---	---	---	---	DRAWING NUMBER WHERE DETAIL IS TAKEN
---	---	---	---	---	CONVERTED ALLUVIAL WELL
---	---	---	---	---	PIEZOMETER
---	---	---	---	---	SETTLEMENT MONUMENT
---	---	---	---	---	CLEANOUT
---	---	---	---	---	PROPOSED GATE & BUTTERFLY VALVES
---	---	---	---	---	PROPOSED AIR RELEASE
---	---	---	---	---	PROPOSED BENDS (90°, 45°, 22½°, 11¼°) W/ TB
---	---	---	---	---	PROPOSED AIRE RELEASE/AIR VACUUM
---	---	---	---	---	PROPOSED FIRE HYDRANT

DETAILS AND SECTIONS:

⬮	⬮	⬮	DETAIL CALL OUTS
⬮	⬮	⬮	DETAIL TITLE (X)
⬮	⬮	⬮	DETAIL TITLE
⬮	⬮	⬮	SECTION CUT SYMBOLS - SHORT
⬮	⬮	⬮	SECTION CUT SYMBOLS - LONG
⬮	⬮	⬮	SECTION - SECTION TITLE (X)
⬮	⬮	⬮	SECTION TITLE

---	---	---	FUTURE GAS LINE
---	---	---	FUTURE WATER LINE
---	---	---	FUTURE RAW WATER LINE
---	---	---	FUTURE STORM SEWER
---	---	---	FUTURE IRRIGATION
---	---	---	FUTURE BURIED ELECTRICAL
---	---	---	FUTURE OVERHEAD ELECTRICAL
---	---	---	FUTURE FIBER OPTIC
---	---	---	FUTURE SANITARY SEWER
---	---	---	FUTURE WATER VALVE
---	---	---	FUTURE UTILITY POLE
---	---	---	FUTURE TREE
---	---	---	FUTURE FIRE HYDRANT
---	---	---	FUTURE MANHOLE (STORM, SANITARY & WATER)



CIVIL RESOURCES, LLC

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RURAL DITCH COMPANY

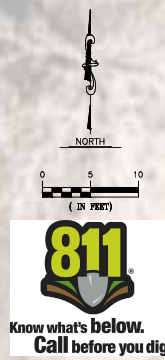
1580 LOGAN ST, SUITE 700
DENVER, CO 80203
303.837.0812
CONTACT: JIM SITTNER

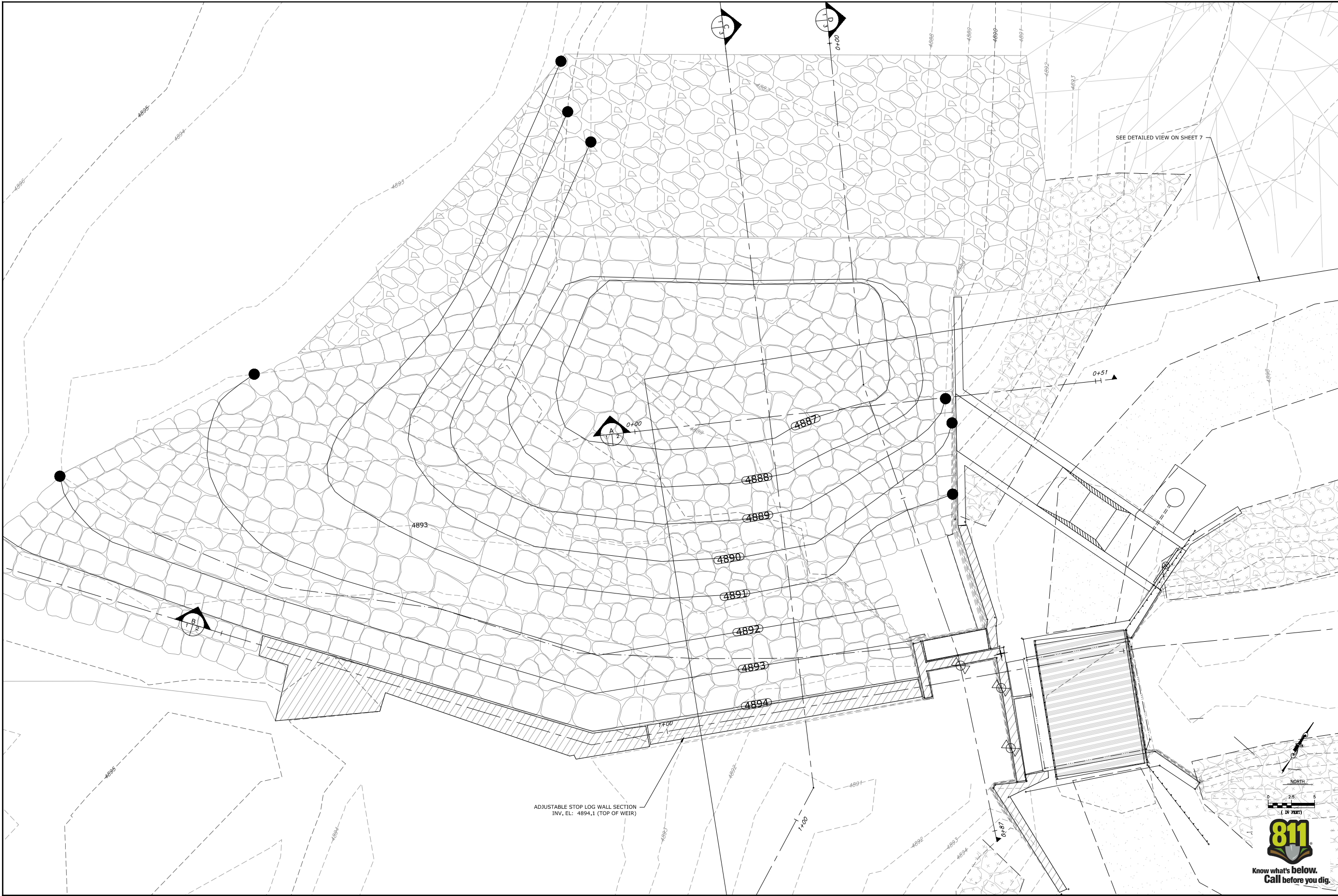
RURAL DITCH RIVER DIVERSION IMPROVEMENTS
STRUCTURE STABILIZATION & AUGMENTATION BYPASS
WELD COUNTY, COLORADO

REVISIONS		
NO.	DESCRIPTION	DATE

DESIGNED BY: BLH	DATE: Dec 10, 2019
DRAWN BY: ALS	SCALE: AS NOTED
CHECKED BY: BLH	AS NOTED
JOB NO.: 279.002.01	
DWG NAME:FIGURE1.DWG	

LEGEND NOTES





CIVIL RESOURCES, LLC
323 5th STREET
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RURAL DITCH RIVER DIVERSION IMPROVEMENTS
STRUCTURE STABILIZATION & AUGMENTATION BYPASS
WELD COUNTY, COLORADO

REVISIONS		
NO.	DESCRIPTION	DATE

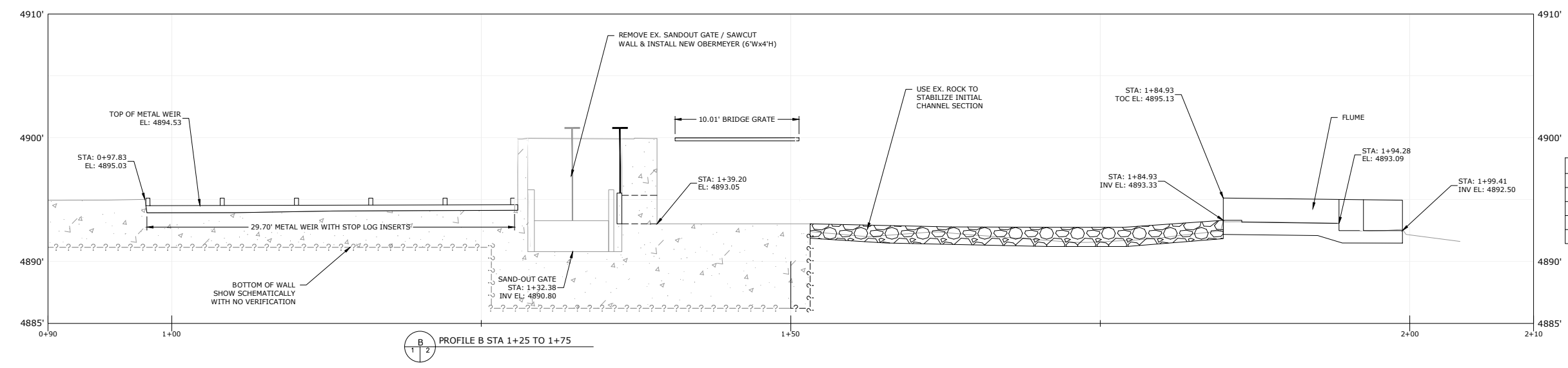
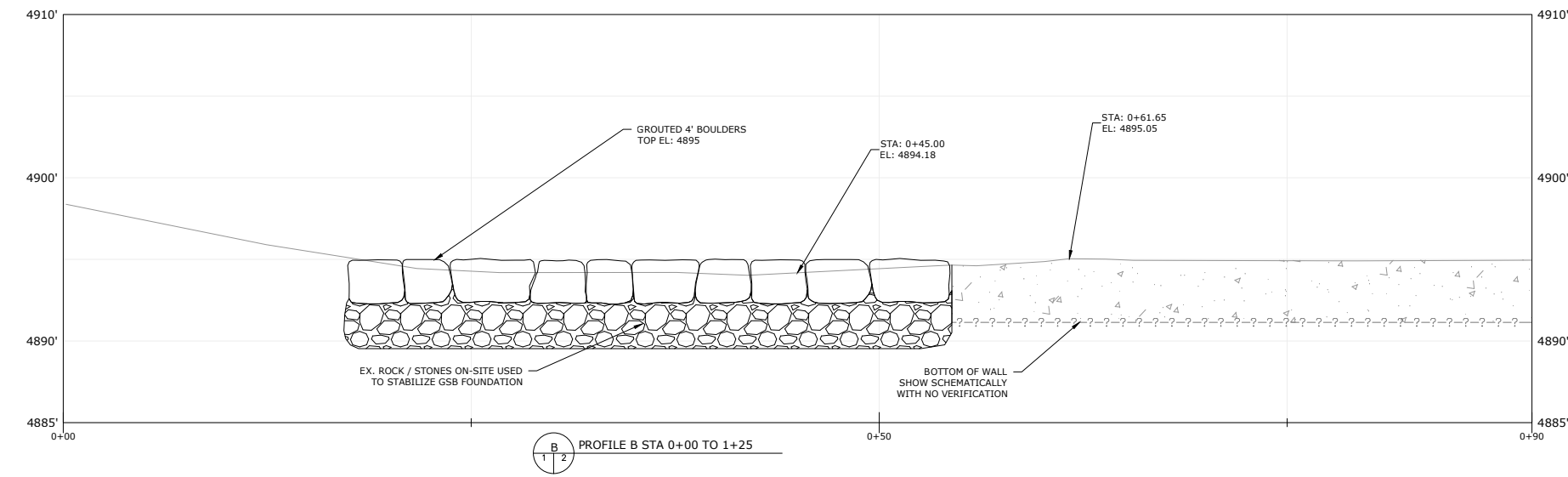
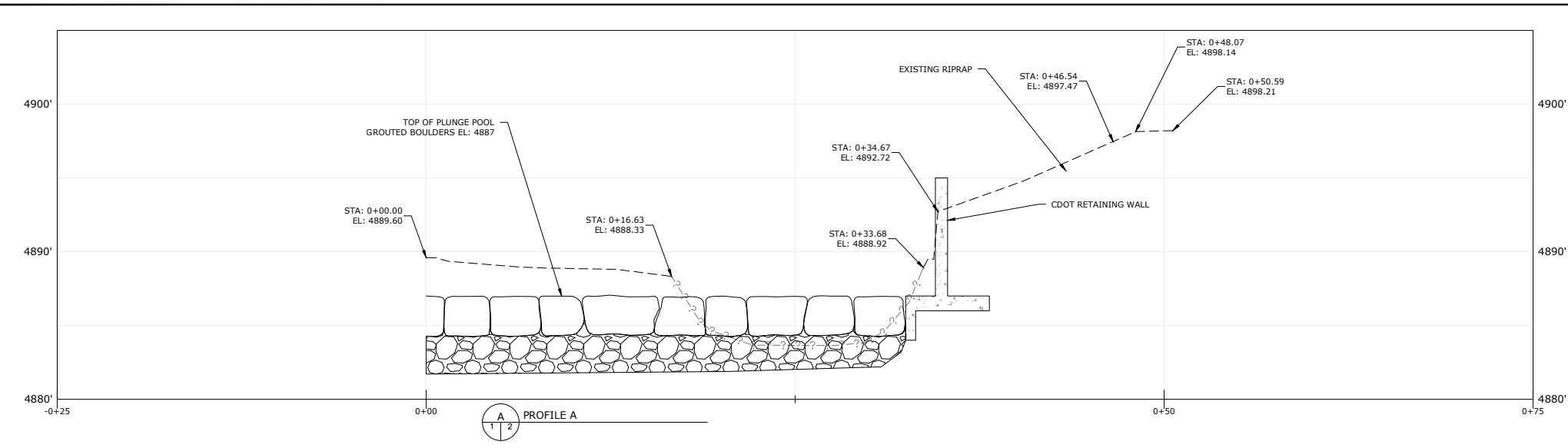
DESIGNED BY: BLH
DRAWN BY: ALS
CHECKED BY: BLH
JOB NO.: 279.002.01
DWG NAME: FIGURE1.DWG

DATE: Dec 10, 2019
SCALE: AS NOTED
AS NOTED

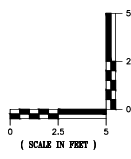
STRUCTURE
STABILIZATION
PLAN

SHEET:

J:\Rural Ditch Co - 279Drawings\Sheets\Figure1.dwg, 12/10/2019 9:31:23 AM



FLUME FLOW DATA	
UPSTREAM ELEVATION (FT)	FLOW (CFS)
4893.71	10.5
4894.21	32
4894.71	61.4
4895.21	97.4





CIVIL RESOURCES, LLC

323 5th STREET
P.O. Box 680
FREDERICK, CO 80530
303.833.1416
WWW.CIVILRESOURCES.COM

RURAL DITCH COMPANY

1580 LOGAN ST, SUITE 700
DENVER, CO 80203
303.837.0812
CONTACT: JIM SITTNER

RURAL DITCH RIVER DIVERSION IMPROVEMENTS
STRUCTURE STABILIZATION & AUGMENTATION BYPASS
WELD COUNTY, COLORADO

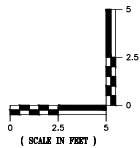
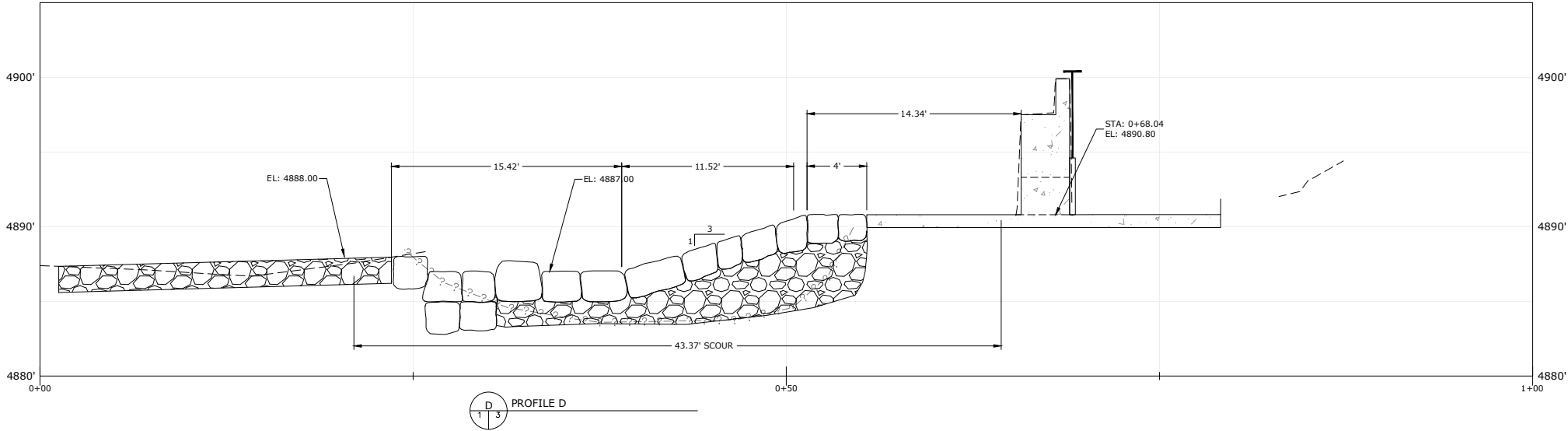
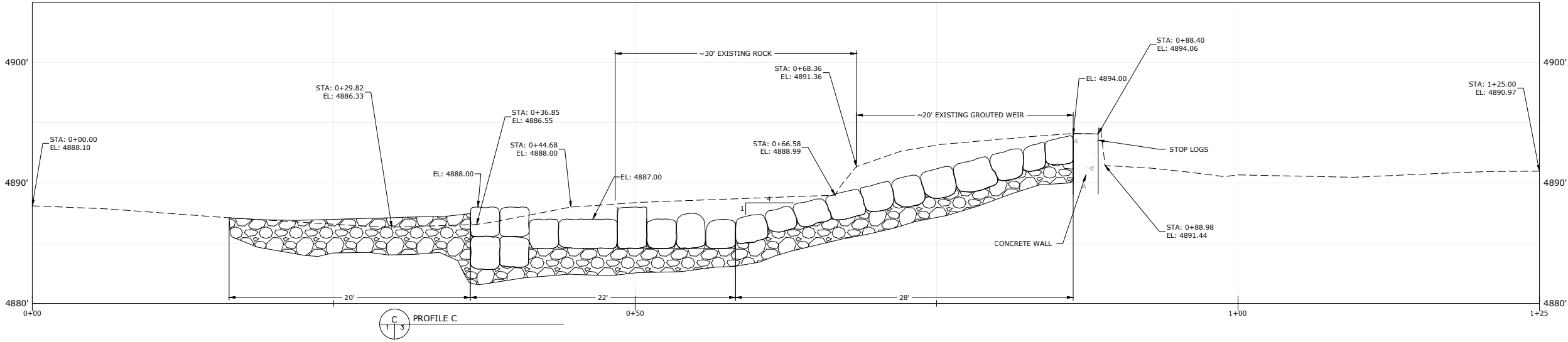
REVISIONS		
NO.	DESCRIPTION	DATE

DESIGNED BY: BLH
DRAWN BY: ALS
CHECKED BY: BLH
JOB NO.: 279.002.01
DWG NAME: FIGURE1.DWG

DATE: Dec 10, 2019
SCALE: AS NOTED
AS NOTED

PROFILES 1

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CIVIL RESOURCES, LLC
323 5th STREET
P.O. Box 680
FREDERICK, CO 80530
303.833.1416
WWW.CIVILRESOURCES.COM

RURAL DITCH COMPANY
1580 LOGAN ST, SUITE 700
DENVER, CO 80203
303.837.0812
CONTACT: JIM SITTNER

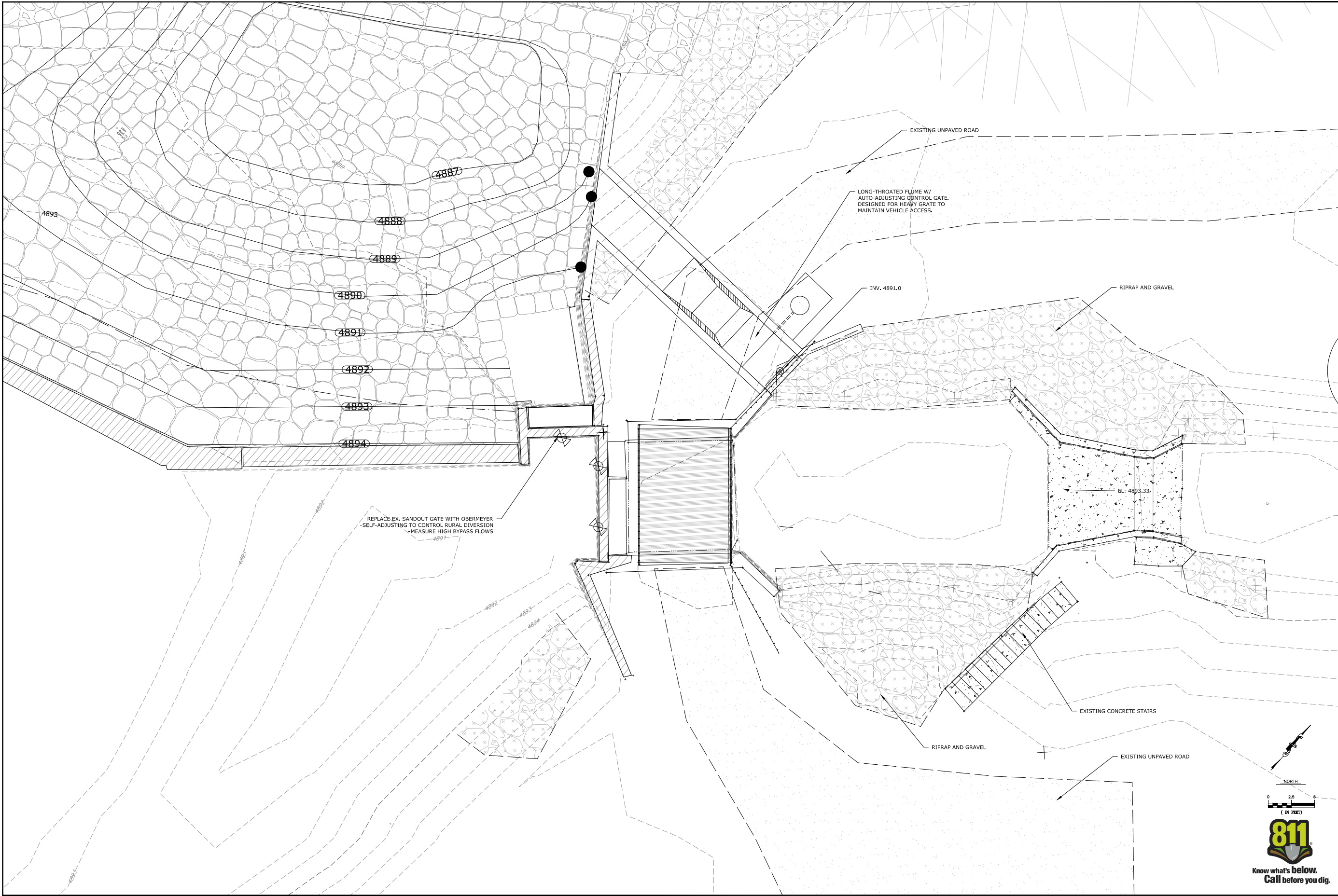
RURAL DITCH RIVER DIVERSION IMPROVEMENTS
STRUCTURE STABILIZATION & AUGMENTATION BYPASS
WELD COUNTY, COLORADO

REVISIONS		
NO.	DESCRIPTION	DATE

DESIGNED BY: BLH DATE: Dec 10, 2019
DRAWN BY: ALS SCALE: AS NOTED
CHECKED BY: BLH AS NOTED
JOB NO.: 279.002.01
DWG NAME: FIGURE1.DWG

PROFILES 2

SHEET:



CIVIL RESOURCES, LLC
323 5th STREET
P.O. Box 680
FREDERICK, CO 80530
303.833.1416
WWW.CIVILRESOURCES.COM

RURAL DITCH COMPANY

1580 LOGAN ST, SUITE 700
DENVER, CO 80203
303.837.0812
CONTACT: JIM SITTNER

RURAL DITCH RIVER DIVERSION IMPROVEMENTS
STRUCTURE STABILIZATION & AUGMENTATION BYPASS
WELD COUNTY, COLORADO

REVISIONS		
NO.	DESCRIPTION	DATE

DESIGNED BY: BLH DATE: Dec 10, 2019
DRAWN BY: ALS SCALE: AS NOTED
CHECKED BY: BLH AS NOTED
JOB NO.: 279.002.01
DWG NAME: FIGURE1.DWG

AUGMENTATION PLAN

SHEET:

APPENDIX A
DITCH COMPANY SHAREHOLDER LIST

Rural Ditch Company
Customer & Job List
 May 21, 2020

Customer	Bill to 2	Bill to 3	Bill to 4	Bill to 5	Ship to 1	Ship to 2	Resale Num
*Rural Ditch Company	50.00 Shares						
Bestway Concrete Company	Attn: Donna M. Kraft	301 Centennial Drive	Milliken, Co. 80543				1.30 Shares
Carma Bayshore, LLC	Carole Doderio	6465 Greenwood Plaza Blvd. Ste 700	Greenwood Village, Co. 80111-7103				3.00 Shares
Central Colo. Water Conservancy District	3209 W. 28th Street	Greeley, Co. 80631					9.01 Shares
Firestone, the Town of, A Colo. Muni. Corp.		c/o Julie Pasillas	P.O. Box 100 Firestone, Co. 80520				2.41 Shares
Ground Water Management Subdst. CCWCD	the Central Colorado Water Cons. Dist.	3209 West 28th Street	Greeley, Co. 80632				4.25 Share
Idaho Creek HOA, Inc.	Attn: CiraConnect	P.O. Box 702348	Dallas, TX 75370				2.00 Shares
Jamison, Linda	5612 W.C.R. #26	Longmont, Co. 80504					.50 Shares
Kolb, Kyle	4795 County Road 24 3/4	Longmont, Co. 80504					.25 Share
L.G. Everist, Incorporated	an Iowa Corporation	attn: Matthew Noteboom	7321 E. 88th Ave Henderson, Co. 80640				1.9 Shares
Larson, Chuck Living Trust, dtd 10/8/97	10752 W.C.R. #7	Longmont, Co. 80504					1.50 shares
Longmont, The City of,	A Home rule City	Attn: Kevin Boden	1100 South Sheri Longmont, Co. 80501				2.00 Shares
Martin Marietta Materials, Inc.	Attn: Erin Kunkel	1627 Cole Blvd.; Suite 200	Lakewood, CO. 80401				2.00 Shares
Neumann, James A.	15463 Lola Street	Brighton, Co. 80602					.25 Share
Norton, Gary L. & Barbara P., Trust dtd	Trust dated June 26, 2006	5803 Pelican Shores Court	Longmont, Co. 80504				.25 Share
Pelican Shores South Homeowners Asso.	c/o PMI Colorado Front Range	1430 Nelson Road; Suite 222	Longmont, CO 80501				.03 Shares
Rural Ditch Company Treasury Stock	.02 Shares Unidentified						.02 Shares
State of Colorado Dept. of Natural Res.	Board of Parks & Outdoor Rec.	Attn: Ben Tedrett	3525 State Highw Firestone, Co. 80504				3.33 Shares
Stinar, Debra J.; Jerrilyn L. Stinar;	Richard James Vogl; John E. Vogl	c/o Jerrilyn L. Stinar	11997 W.C.R. 11 Longmont, Co. 80504				2.00 Shares
Stinar, Jerrilyn Louise	11997 W.C.R. #11 1/4	Longmont, Co. 80504	Thomas Stinar				1.00 Share
Varra Companies	Attn: Garrett Varra	8120 Gage Street	8120 Gage St Frederick, Co. 80516				7.00 Shares
Well Augmentation Subdistrict	Central Colorado Water Conservancy	District	3209 West 28th !Greeley, Co. 80634				6.00 Shares

APPENDIX B
CERTIFICATE OF INCORPORATION

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,

RURAL DITCH COMPANY

is a

Nonprofit Corporation

formed or registered on 02/13/1873 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 19871000673 .

This certificate reflects facts established or disclosed by documents delivered to this office on paper through 05/21/2020 that have been posted, and by documents delivered to this office electronically through 05/22/2020 @ 09:31:55 .

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 05/22/2020 @ 09:31:55 in accordance with applicable law. This certificate is assigned Confirmation Number 12356654 .



Jena Griswold

Secretary of State of the State of Colorado

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

Notice: A certificate issued electronically from the Colorado Secretary of State's Web site 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 Web site, <http://www.sos.state.co.us/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 Web site, <http://www.sos.state.co.us/> click "Businesses, trademarks, trade names" and select "Frequently Asked Questions."



ILLEGIBILITY FLASHER

This flasher indicates that illegibility was due to the poor condition of the ink or paper when microfilmed.

DEPARTMENT OF ADMINISTRATION
**DIVISION OF STATE ARCHIVES
AND PUBLIC RECORDS**

MICRO-TECHNICS UNIT
Denver, Colorado

To whom it may concern

This is to certify that the
Rural Ditch Company a corpo-
ration doing business in Weld
County Colorado and duly incor-
porated under the laws of the
State of Colorado the capital
of which is fixed and limited to
Five thousand (5000) Dollars and
divided into Fifty (50) Shares of
One hundred (100) Dollars each has
its Capital stock fully paid in
and the certificates therefor
have been duly issued.

Dated the 2nd day of Sept
A.D. 1887

Elisha Duncan President
J. C. Churchill
J. C. Stepien Trustees
Milton Esch

State of Colorado
Weld County } ss

Personally appeared before me
Elisha Duncan who, being first
duly sworn says he is the
President of the Rural Ditch
Company and that the statement
is true

Subscribed and sworn to
before me this 7th day of April
1887

J. W. Bacon
Justice of the Peace

State of Colorado,
Ft. Collins County &c.
Personally appeared before me
J. W. Bacon, J. P. & J. W. Bacon, J. P.
each being each first duly
sworn, that they are trustees
of the ~~Grand Old~~
and that the statement
made is true to the best of
their knowledge

J. W. Bacon
J. W. Bacon
William Carter

~~Subscribed and sworn to~~
before me this 8th day of April 1887
J. W. Bacon
Justice of the Peace

7911 ✓

Rural Ditch Co.

FILED in the

office of the

County of

Alameda

July 9

clock

Page 315

RECORDED

JAMES RICE

Secretary of State

This document has been inspected
and printed on the
Records of The Flat Tax Department

Date June 24, 1915

J. J. Williams

ASSESSORS OFFICE.
Meia COUNTY, COLORADO.

To Whom It May Concern.

I hereby certify that The Rural Ditch Co.
Qualified Assessor of the County of Meia
Colorado, and as such have direct charge of the tax schedules
of said Meia County, and further;

That The Rural Ditch Co. a Corporation
duly organized and existing under and by virtue of the laws of
the State of Colorado, being an organization of farmers for
their mutual agricultural benefit and not for profit, possess-
ing no income and handling no moneys except assessment on the
Capital Stock for maintenance expenses, is not subject to
taxation in this County, and is not taxed.

Robert E. Hanna
Assessor of Meia Co. Colo.

Subscribed and sworn to before me this 17th day of
March A.D. 1919

My commission expires Dec. 31, 1920

[Signature]
Notary Public.

17-60-15-

24

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FILED in the office of the Secretary of
State of the State of Colorado, on the
17th day of March
A.D. 1919. at Denver, Colorado.
Secretary of State
JAMES H. WILSON
Notary Public
My Comm. Exp. Dec 17, 1920

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[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

Frank

2/11.

all the way to the ferry at the mouth of
 the river. I went to the ferry and saw
 the boatman, and he told me that the
 boat was full of people, and that the
 boatman was a very good man.

[Faint, illegible handwriting]

100

Received of the
Proctor of the Court
the sum of \$100.00

John Mulvihill
John Mulvihill
Elihu L. Luman
H. S. Scott

John A. O'Brien

Proctor Judge

The undersigned
being the Proctor of the Court
do hereby certify that the
above named John A. O'Brien
has been appointed Proctor of the Court
and has taken the oath of office
and is qualified to perform the duties
of the office of Proctor of the Court
and is entitled to the fee of \$100.00
for his services as Proctor of the Court
and is entitled to the fee of \$100.00
for his services as Proctor of the Court

15th

John A. O'Brien
Proctor, J. C.

DOMESTIC No. 673

was Detel Chapman

in Secy's Office &
8/13/3 at 4.20 PM
and recorded in Book

Page 1111

This document is provided
to the
and protected
Department
of the
OK

Date June 24, 1968

Richard A. [illegible]

This certifies that the Reed
Ditch Company, which was in-
corporated for the purpose of carrying
water for irrigation purposes, and
whose original Certificate of incorpora-
tion was filed in the office of the
Secretary of the New Territory of Colorado
on the 13th day of February, A.D. 1872
and whose term of existence is about
to expire having first advertised in
a newspaper as the law directs, has
this day held a meeting of all stock-
holders at which a majority of all
its stock was represented and has
voted by ballot on the question of
continuing its corporate existence for
a term of twenty years, and the result
of the said vote, was in favor of con-
tinuing its corporate existence.

In witness whereof its President and
Directors have hereunto signed their
names, and affixed the seal of
the company, this 3 day of February,
A.D. 1892.

Elisha Duncan President
J. W. Bacon Secretary

13040 ✓

Extension of

Corporate life

of

The Rural Life Company

DOMESTIC.

FILED in the office of the Secretary
of State of the State of Colorado, on
the 28th day of March, 1966.
Witness my hand and seal of office.
Recorded in Book 28, Page 227.
C. L. Tate
Secretary of State

This document has been inspected
and properly entered in the Rec-
ords of The Flat Tax Department. **OK**

Date of entry 28, 1966. Clerk

THIS IS TO CERTIFY, That a special meeting of the stockholders of THE SUIVE DITCH COMPANY, a corporation organized under the laws of the State of Colorado, was duly called by stockholders owning more than ten per cent of the entire capital stock of said company, as shown by the annexed notice, and a part hereof; that said notice was published for four consecutive weeks in the "WEEKLY TIMES" a newspaper printed nearest the place where the said corporation has kept its principal office, and likewise mailed to each stockholder of the company at least thirty days prior to the time fixed for such meeting, as shown by said notice.

That at the time and place stated in such notice, the said meeting was held, and a majority of the stock of the corporation was represented at said meeting.

That at said meeting the question of renewal of the corporation was submitted to the votes of the stockholders of said company, by the following resolution:

"WHEREAS, The term of years for which

THE SUIVE DITCH COMPANY, a corporation,

and of the said company
was organized, has expired or is about to expire by lawful limitation, and, whereas, such corporation has not been administered upon as an expired corporation, or gone into liquidation, or had any settlement of its affairs;

Now therefore, be it resolved by the stockholders of said corporation, that the question of renewal of said corporation shall be and hereby is submitted to the votes of the stockholders of said company, and that said corporation shall be renewed for another term of twenty years from the date of the expiration of its corporate existence."

The question of renewal being submitted to the votes of the stockholders of said company, by said resolution, and a majority of the stock of the corporation being represented, the vote was taken by ballot, each stockholder casting as many votes as he owned shares of stock in the company, or held proxies therefor; and a majority of the entire outstanding capital stock of the company was voted in favor of a renewal of the corporation, the vote being as follows:

For Renewal and the Adoption of the Resolution

4669 -- Votes.

Against Renewal and the Adoption of the Resolution.

-- No -- Votes.

THOMPSON, The undersigned, president and secretary, respectively, of said company, do hereby certify that in accordance with the said action of the said stockholders, at said meeting, the said renewal was authorized, and that a majority of the entire outstanding capital stock of the company was voted in favor of a renewal of the corporation.

Given under our hands, and under the seal of said company, this 11th day of March, 1912.

E. M. Jewett
President of said Company.

Robert M. Evans
Secretary of said Company.

NOTICE OF SPECIAL MEETING
Of the Board of Directors
of the Rural Ditch Company.

When the term of years for which said corporation was organized expired, it was determined that it should be renewed for another term of years, and whereas said corporation has not been administered upon as an expired corporation, or gone into liquidation, or had any settlement of its affairs; now therefore, notice is hereby given by the undersigned stockholders, owning at least ten per cent of the entire capital stock of said company, that a special meeting of the stockholders of said The Rural Ditch Company is called to meet at the office of the company, the residence of R. M. Jewett, one mile north of Rimb. Weld County, Colorado, on Tuesday, March 12th, 1912, at two o'clock P. M., for the purpose of submitting at said meeting the question of the renewal of the corporate existence of said corporation, and for the purpose of transacting such business as is necessary to carry out said renewal if authorized.

THIS IS TO CERTIFY, That a special meeting of the stockholders of THE RURAL DITCH COMPANY, of the State of Colorado, was duly held at the office of the company, the residence of R. M. Jewett, one mile north of Rimb. Weld County, Colorado, on Tuesday, March 12th, 1912, at two o'clock P. M., for the purpose of submitting at said meeting the question of the renewal of the corporate existence of said corporation, and for the purpose of transacting such business as is necessary to carry out said renewal if authorized.

of the State of Colorado, owning more than 10% of said company, part hereof; that on or about the 1st day of March, 1912, the principal office of the company at the place nearest the place of said meeting, was in such notice. The question of the stock of said company, and that said corporation shall be renewed for another term of twenty years from the date of the expiration of its corporate existence.

The question of renewal of said corporation, and a majority of the stock of the corporation being represented, the vote was taken by ballot, each stockholder casting as many votes as he owned shares of stock in the company, or held proxies therefor; and a majority of the entire outstanding capital stock of the company was voted in favor of a renewal of the corporation, the vote being as follows:

For Renewal and the Adoption of the Resolution 4669 Votes.

Against Renewal and the Adoption of the Resolution. No Votes.

WHEREAS, The term of years for which THE RURAL DITCH COMPANY, a corporation,

was organized, has expired or is about to expire by lawful limitation, and, whereas, such corporation has not been administered upon as an expired corporation, or gone into liquidation, or had any settlement of its affairs;

Now therefore, be it resolved by the stockholders of said corporation, that the question of renewal of said corporation shall be and hereby is submitted to the votes of the stockholders of said company, and that said corporation shall be renewed for another term of twenty years from the date of the expiration of its corporate existence."

The question of renewal being submitted to the votes of the stockholders of said company, by said resolution, and a majority of the stock of the corporation being represented, the vote was taken by ballot, each stockholder casting as many votes as he owned shares of stock in the company, or held proxies therefor; and a majority of the entire outstanding capital stock of the company was voted in favor of a renewal of the corporation, the vote being as follows:

For Renewal and the Adoption of the Resolution 4669 Votes.

Against Renewal and the Adoption of the Resolution. No Votes.

WHEREFORE, The undersigned, president and secretary, respectively, of said company, do hereby certify that in accordance with the said action of the said stockholders, at said meeting, the said renewal was authorized, and that a majority of the entire outstanding capital stock of the company was voted in favor of a renewal of the corporation.

Given under our hands, and under the seal of said company, this 12th day of March, 1912.

F. M. Jewett
President of said company.
Robert M. Jewett
Secretary of said company.

44-671912

69052

*Certificate
of Personal
The Personal
Ditch Company
DOMESTIC*

RECEIVED PAYMENT

1912

JAMES H. ~~WHITE~~ Sec'y of State

PAID IN THE OFFICE OF THE
SECRETARY OF STATE OF THE
STATE OF COLORADO, ON

9-02

RECEIVED
JAN 17 1964
U.S. DEPT. OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D.C.

അഭിമാനം

This document has been inspected and property Entered on the Records of The Flat Tax Department.

○
天

Date March 28, 1965

CERTIFICATE OF RENEWAL

OF

THE RURAL DITCH COMPANY

WHEREAS, The term of years for which THE RURAL DITCH COMPANY, a corporation organized under the laws of the State of Colorado, has expired, or is about to expire, by lawful limitation, and such corporation has not been administered upon as an expired corporation, or gone into liquidation or had any settlement of its affairs;

NOW, THEREFORE, THIS IS TO CERTIFY:

(a). That a special meeting of the stockholders of said corporation was duly called by stockholders owning more than ten per cent. of the entire capital stock of said company, to be held, and which was duly held, at the office and residence of the secretary about six miles southeast of Longmont, near Idaho Creek, Weld County, Colorado, on Saturday, January 16th, 1932, at one o'clock P.M., for the purpose of submitting to the votes of the stockholders of said company the question of renewal of said corporation for another term, and that its corporate life be renewed for the following term, to-wit: in perpetuity; and for the purpose of taking any and all action necessary and proper to be had at said meeting with respect to said renewal.

(b). That notice of such meeting, stating the time and place thereof, and the purpose for which it was to be held, was published for two successive weeks in the "Longmont Ledger", the newspaper printed nearest the place where the principal operations of said company are carried on; that said notice was signed by stockholders owning at least ten per cent. of the capital stock of

said company and stated the place where and the time when the question of the renewal would be submitted to the votes of the stockholders of said company, at the meeting held in pursuance of such notice; and that a copy of said notice was duly mailed to each stockholder of the company at least thirty (30) days prior to the time fixed for said meeting.

(c). At said meeting a majority of stock of the company was represented and there was then submitted to the vote of the stockholders of said company the question of renewal of the corporation by the following resolution:

RESOLUTION

WHEREAS, the corporate life of The Rural Ditch Company, a Colorado corporation, has expired, or is about to expire; and, whereas, the stockholders desire to extend the life of such corporation as provided by statute;

NOW, THEREFORE, BE IT RESOLVED by the stockholders of said Company in special meeting for this purpose assembled, that the said corporation be renewed and that its corporate life be renewed for the following term, to-wit: In perpetuity. That the president and secretary of this company shall, under the seal of the company, certify the fact of said renewal and shall make as many certificates as may be necessary, so as to file one in the office of the Recorder of Deeds of each county wherein the company may do business, and one in the office of the Secretary of State."

The vote upon the said question as submitted by said resolution was thereupon taken by ballot, and each stockholder was entitled to vote and voted as many votes as he owned shares of stock in the said company, or held proxies therefor; and a majority of the entire outstanding capital stock of the company was voted in favor of said resolution and in favor of a renewal of the said corporation for another term, and that its corporate life be renewed for the following term, to-wit: In perpetuity; and in accordance with the said resolution and the statute in such case provided, we, the president and secretary of said company, do hereby certify the fact of said renewal, under the seal of said company.

IN WITNESS WHEREOF, We, respectively the president and
secretary of said company, do, under its seal, execute this cer-
tificate this sixteenth day of January, A. D. 1932.

Chas. Peden

President.

Maudie E. Huetter

Secretary.



10701

OK

Certificate of Renewal
*The Rural Ditch
Company*

8-234-15

This document has been inspected
and properly entered in the
records of the Flat Tax Department.

Done Jan 27 1912
McMete

Check

RECORDED

BOOK 339

PAGE 370

JAN 25 1912

This document has been inspected
and properly entered on the Re-
cords of the Flat Tax Department.

Done Jan 24 1912
Richard L. Mc...

FILED in the office of the Secretary of
State, of the State of Colorado, on the

25 day of *Jan*

1912

CHAS. M. ARNOLD

Notary Public

My Comm. Expires

1913

CERTIFICATE OF RENEWAL
OF
THE RURAL DITCH COMPANY

WHEREAS, The term of years for which THE RURAL DITCH COMPANY, a corporation organized under the laws of the State of Colorado, has expired, or is about to expire, by lawful limitation, and such corporation has not been administered upon as an expired corporation, or gone into liquidation or had any settlement of its affairs;

NOW, THEREFORE, THIS IS TO CERTIFY:

(a). That a special meeting of the stockholders of said corporation was duly called by stockholders owning more than ten per cent. of the entire capital stock of said company, to be held, and which was duly held at the residence of the President of said Corporation, W. A. Randall, four miles north and east of Rinn, Weld County, Colorado, on Friday, January 18th, 1952, at two o'clock P. M., for the purpose of submitting to the votes of the stockholders of said company the question of renewal of said corporation in perpetuity from the date of the expiration of its present term of existence, and for the purpose of taking any and all action necessary and proper to be had at said meeting with respect to said renewal.

(b). That notice of such meeting, stating the time and place thereof, and the purpose for which it was to be held, was published for two consecutive weeks by three insertions in "The Frederick Farmer and Miner", a newspaper published at Frederick, Colorado, and printed nearest the place where the said corporation has carried on its principal operations, and said notice was likewise mailed to each stockholder of the company at least thirty days prior to the time fixed for said meeting.

(c). At said meeting a majority of stock of the company was represented and there was then submitted to the vote of the stockholders of said company the question of renewal of the corporation by the following resolution:

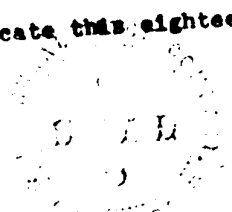
RESOLUTION

WHEREAS, The term of years for which The Rural Ditch Company, a corporation organized under the laws of the State of Colorado, has expired, or is about to expire, by lawful limitation, and such corporation has not been administered upon as an expired corporation, or gone into liquidation, or had any settlement of its affairs;

NOW, THEREFORE, Be it resolved by the stockholders of said company, in special meeting for this purpose assembled, that the corporate life of said company shall be renewed in perpetuity from the date of the expiration of its present corporate existence; that the president and secretary of this company shall, under the seal of the company, certify the fact of said renewal and shall make as many certificates as may be necessary, so as to file one in the office of the Recorder of Deeds in each county wherein the company may do business, and one in the office of the Secretary of State."

The vote upon the said question as submitted by said resolution was thereupon taken by ballot, and each stockholder was entitled to vote and voted as many votes as he owned shares of stock in the said company, or held proxies therefor; and a majority of the entire outstanding capital stock of the company was voted in favor of said resolution and in favor of a renewal of the said corporation in perpetuity from the date of the expiration of its present corporate existence; and in accordance with the said resolution and the statute in such case provided, we, the president and secretary of said company do hereby certify the fact of said renewal, under the seal of said company.

IN WITNESS WHEREOF, We, respectively the President and Secretary of said Company, do, under its seal, execute this certificate this eighteenth day of January, A. D. 1952.


W. A. Randall
President

Manda E. Harter
Secretary

121223
CERTIFICATE OF RENEWAL

THE RURAL DITCH COMPANY

RECORDED
BOOK 611 PAGE 54

DOMESTIC

FILED in the office of the Secretary of
State, of the State of Colorado, on the
23rd day of January.

A.D. 1952, at 2:15 o'clock P.M.

GEORGE J. BAKER,
Secretary of State

Filing Clerk *[Signature]*
Old Age Pension Fund

This document has been received
and properly Entered on the
records of The Fiat Tax Department.

OK

Date *January 24, 1952*
Lertz Clerk

SS FORM 501
(Rev. 5-75)

MAY 1 1975

2017

236703

STATEMENT OF CHANGE OF REGISTERED OFFICE
OR REGISTERED AGENT, OR BOTH,

To the Secretary of State
of the State of Colorado

Pursuant to the provisions of the Colorado Corporation Act, the undersigned corporation, organized under the laws of the State of Colorado, submits the following statement for the purpose of changing its registered office or its registered agent, or both, in the State of Colorado:

First: The name of the corporation is Rural Ditch Company

Second: The address of its REGISTERED OFFICE is 735 Bowen Street
Longmont, Colorado 80501

Third: The name of its REGISTERED AGENT is Richard L. Frisk

Fourth: The address of its registered office and the address of the business office of its registered agent, as changed, will be identical.

Fifth: The address of its place of business in Colorado is 735 Bowen Street
Longmont, Colorado 80501

Rural Ditch Company (Note 1)

By David E. Casenisch (Note 2)
Its President

STATE OF Colorado
County of Boulder

Before me, _____, a Notary Public in and for the said County and State, personally appeared David E. Casenisch who acknowledged before me that he is the President of Rural Ditch Company a Colorado corporation, that he signed the foregoing, and that the statements contained therein are true.

In witness whereof I have hereunto set my hand and seal this 18 day of April,
A. D. 19 75.

My commission expires By Commission Expires May 14, 1977

David E. Casenisch
Notary Public

- Notes: 1. Exact corporate name of corporation making the statement.
2. Signature and title of officer signing for the corporation, — must be President or Vice-President except for nonprofit.
3. Signature of Notary Public must be exactly as shown on Notarial Seal, and must agree with notarial commission.
4. This document must be typewritten.

APPENDIX C

WATER RIGHTS DECREE INFORMATION



Structures
(/Tools/St



(https://dwr.state.co.us/tools/) Structures (/Tools/Structures)

Structure Overview Diversion Records Water Rights Measuring Points Irrigated Lands Imaged Documents

Report Help Login (/Tools/Home/LoginUser)

Structure Overview Diversion Records Water Rights Measuring Points Irrigated Lands Imaged Documents

Water Rights

Structure Name RURAL DITCH (0600551) Associated Permits
Structure Type DITCH Water Source Type Tributary
CIU Code Active Structure with contemporary diversion records (A) Water Source BOULDER CREEK [00178354] @ Stream Mile: 2.69

Water Right Net Amounts

CSV

	Adjudication Date (/Tools/Stru... StructureWa... sort=adj_da... asc)	Previous Adj Date (/Tools/Stru... StructureWa... sort=padj_d... asc)	Appro Date (/Tools/Stru... StructureWa... sort=appro... asc)	Priority Admin No (/Tools/Stru... StructureWa... sort=admin... asc)	Order No (/Tools/Stru... StructureWa... sort=order... asc)	Priority No (/Tools/Stru... StructureWa... sort=priority... asc)	Associated Case Numbers (/Tools/Stru... StructureWa... sort=associate... asc)	Decreed Use(s) (/Tools/Stru... StructureWa... sort=decree... asc)	Net Absolute (/Tools/Stru... StructureWa... sort=net_abs... asc)	Net Conditional (/Tools/Stru... StructureWa... sort=net_co... asc)	Net APEX Absolute (/Tools/Stru... StructureWa... sort=net_AP... asc)	Net APEX Conditional (/Tools/Stru... StructureWa... sort=net_AP... asc)	Decreed U (/Tools/St StructureW sort=decre
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Vie...	12/31/1998	12/31/1997	9/28/2000	55058.00000	0		98CW0427	567	0.0000	7.0000	0.0000	0.0000	C

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APPENDIX D

USACE CORRESPONDENCE

May 22, 2020

Mr. Nicholas Franke
US Army Corp of Engineers
Denver Regulatory Office
9307 South Wadsworth Blvd
Littleton, CO 80128

RE: Rural Ditch Boulder Creek Diversion Repair

Dear Mr. Franke:

Civil Resources is submitting this letter on behalf of the Rural Ditch Company in the required format for Nation Wide permit requests. The Rural Ditch Company is a mutual ditch company. We are requesting that the project be permitted by Nationwide permit and believe that Nationwide 3 *Maintenance* is most appropriate based on our discussions and past similar work.

Project Description

The proposed project is primarily located in the northwest quarter of the southwest quarter of Section 20, Township 2 North, Range 68 West of the 6th Prime Meridian in Weld County, Colorado as shown on Figure 1. The Site is located on property owned by the Williams Family Farm, LLC. and temporary construction controls and staging could extend onto the Dream Weaver Holdings, LLC. property. Refer to the Site Location Map on Figure 1. The structure was initially damaged during the September 2013 flooding and further damaged in subsequent high river flows. The proposed repair work is scheduled to be completed during the 2020-2021 fall and winter season to the requirement to control and divert river flows during low flow conditions within the river (i.e. typically lower flows in the fall & winter months).

The project includes repair of the existing check dam on the west side of the river and to stabilize the diversion structure with mechanical gates on the east half of the river. The east side of the check was constructed with an invert elevation equal to the stream bed and fitted with a large upward opening sluice gate that is lowered during low flows to facilitate the diversion of legally available water into the ditch. The check structure is a upstream concrete wall with manual check boards with a riprap/concrete rubble dam with concrete poured into the voids on the downstream side of the check structure. The check is overtopped during moderate to high river stage with no mechanical controls. An excavator or other "non-pushing" type of construction equipment will be used and the excavated materials will be temporarily stockpiled in adjacent upland area.

Wetland and Waters of the United States Impacted

The proposed improvements will not impact wetlands but will require the temporary fill of Waters of the United States at the upstream and downstream ends of the project. The impacts are summarized as follows:

- *Permanent Impacts:* The permanent repair generally maintains the upstream and downstream limits of the existing structure with only minor addition of impacted area of 160 square feet (0.004 acres). Refer to the Site Plan on Figure 2.

- *Temporary Impacts:* Cofferdams will be constructed to divert water around the proposed stabilization work as shown on Figure 2. The approximate area of the proposed temporary fill is 4,000 square feet (0.092 acres). These fills will be excavated from below the normal high water level when the corresponding phase of construction is complete. The anticipated schedule is to begin construction in November 2020 and be complete by March 15, 2021.

If you have any questions please do not hesitate to call.

Sincerely,

CIVIL RESOURCES, LLC.



Brad L. Hagen, P.E.
Civil/Water Resource Engineer

Encls:

Cc: Mr. Dan Grant, Secretary of Rural Ditch

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