

**New Consolidated Lower Boulder Reservoir and Ditch Company,
Northern Colorado Water Conservancy District, and Town of Erie
Overflow Pipeline Modification and Crossing License Agreement**

This License ("License"), executed this ____ day of _____, 2024, by and between The New Consolidated Lower Boulder Reservoir and Ditch Company, a Colorado nonprofit corporation ("Lower Boulder"), whose address is P.O. Box 119, Longmont, CO 80502-0119; the Northern Colorado Water Conservancy District, a quasi-municipal entity and political subdivision of the State of Colorado ("Northern Water"), whose address is 220 Water Avenue, Berthoud, CO 80513; and the Town of Erie, a Colorado municipality, whose address is 645 Holbrook Street, P.O. Box 750, Erie, CO 80516 ("Licensee").

Recitals

Northern Water and Lower Boulder own certain easements on a parcel of real property located in the East Half of the Northwest Quarter (E $\frac{1}{2}$ NW $\frac{1}{4}$), Section 18, Township 1 North, Range 68 West of the 6th P.M. in Weld County, Colorado as depicted on Exhibit A attached hereto and made a part hereof by this reference (the "Property"). Licensee desires to construct and/or install, use, operate, maintain, and repair a 12 inch PVC potable water line (the "Water Line") on, under, or across an overflow facility ("Overflow Pipe") which is part of the South Platte Supply Canal and the Lower Boulder Ditch ("Canal") in Weld County, Colorado, as shown on Exhibit B attached hereto and made a part hereof by this reference (the "Plans"). As shown on the Plans, License also desires to modify the outlet of the Overflow Pipe.

A. The Canal, part of the Colorado-Big Thompson Project, is located on the Property. Lower Boulder and Northern Water own the Canal and the Overflow Pipe and Northern Water owns and operates the Colorado-Big Thompson Project.

B. Licensee desires to install the Water Line under the Overflow Pipe on the Property and modify the Overflow Pipe as stated above and described in the Plans ("Licensed Facility") and desires to obtain permission from Northern Water and Lower Boulder.

Now, therefore, for and in consideration of the foregoing, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

Agreement

1. Northern Water and Lower Boulder grant to Licensee, its successors and permitted assigns, with respect to such title and interest as Northern Water and Lower Boulder may

have in the Property, and upon the terms and conditions hereinafter stated, the permission and right to construct, operate, maintain, repair and replace the Licensed Facility on the Property. Such installation and construction shall be located within the Property as shown on the Plans. As consideration therefore, Licensee shall, upon execution of this License, pay Northern Water the sum of five hundred dollars (\$500), and shall additionally pay Lower Boulder the sum of two thousand five hundred dollars (\$2,500). In addition, Licensee shall pay to Northern Water and Lower Boulder any amounts necessary to cover their reasonable legal, engineering, and costs of inspection incurred as a result of this License. Licensee shall not construct or maintain any additional structures on the Property without first obtaining a license for said structures from Lower Boulder and Northern Water.

2. Northern Water and Lower Boulder shall continue to have the right to use the Property for all purposes in connection with the Canal and the Colorado-Big Thompson Project, and the rights herein granted to Licensee for the use of the Property are subject to the rights of Northern Water and Lower Boulder to use the Property for such purposes as described in Northern Water's easement deed, and under Colorado law. Northern Water and Lower Boulder reserve the right of their officers, agents, employees, licensees, and permittees at all proper times and places freely to have ingress to, passage over, and egress from all of the Property for the purpose of exercising, enforcing, and protecting the rights reserved herein.

3. Northern Water and Lower Boulder reserve the right to grant to others the use of the Property for any purposes whatsoever, provided that the same shall not unreasonably interfere, in their sole discretion, with the Licensed Facility.

4. Construction, Maintenance, and Repair.

4.1. A copy of this License shall be on the job site at all times while construction is actively ongoing.

4.2. Approval of Plans for the Licensed Facility by Northern Water and/or Lower Boulder shall not relieve Licensee of its sole responsibility to ensure the design and location of the Licensed Facility will not interfere with Northern Water and Lower Boulder's use and enjoyment of the Property. The Licensed Facility shall be constructed in accordance with such approved plans and specifications.

4.3. Except as provided in paragraph 14, Licensee shall notify the operational contacts for Lower Boulder and Northern Water three (3) working days (Saturdays and Sundays excluded) preceding the date of commencing work involving the installation, repair, or replacement of the Licensed Facility. Lower Boulder and/or

Northern Water shall have the right to inspect the Licensed Facility constructed, modified, or repaired pursuant to this License during the construction or repair thereof. Licensee agrees to reimburse Lower Boulder and Northern Water respectively for all reasonable administrative and inspection costs incurred for this purpose. If the Licensee conducts construction without notifying Lower Boulder and Northern Water as required herein, Lower Boulder and Northern Water, at their option, may require Licensee to excavate any fill or other material placed over the construction and may require Licensee to disassemble and reconstruct any structures or other work completed without providing the required notice. For purposes of this License, reimbursement shall be made by Licensee at the actual hourly rate for labor and equipment currently utilized by Lower Boulder and Northern Water in computing job costs. A statement for the total costs properly chargeable to Licensee hereunder will be forwarded to Licensee upon acceptance of the Licensed Facility by the Northern Water and Lower Boulder or repair, and the same shall be paid to Lower Boulder and Northern Water respectively within thirty (30) days after the billing date. If payment has not been received by Lower Boulder and Northern Water respectively within thirty (30) days of the billing date, interest shall thereafter accrue on the unpaid balance at the rate of twelve percent (12%) per annum.

- 4.4. With the exception of the ongoing construction of the Licensed Facility, which is anticipated to be completed by the end of April 2024, Licensee agrees no construction shall take place within the Property that effects the Overflow Pipe during the water delivery season, which is from April 1 through October 31 of any calendar year, unless otherwise approved in writing by Northern Water and Lower Boulder.
- 4.5. Northern Water and Lower Boulder shall have the right to inspect all facilities constructed or installed pursuant to this License. The instructions of any representative authorized by Northern Water or Lower Boulder to advise Licensee regarding the safety of facilities operated by Northern Water or Lower Boulder shall be followed by Licensee, its agents, contractors and employees. All construction shall proceed uninterrupted from the initiation of such construction to its completion, except for *force majeure* events, in which event Licensee shall take all practicable measures to complete construction as soon as possible or otherwise overcome the *force majeure* event, or unless Northern Water and/or Lower Boulder requests that construction be interrupted or cease.
- 4.6. Any damage done to facilities operated by Northern Water or Lower Boulder, or appurtenances to such facilities, during the above construction or during any operations, maintenance, repair, or replacement of the Licensed Facility shall be

immediately repaired at the expense of Licensee, and all portions of the Property or appurtenances which are disturbed by the construction of the Licensed Facility shall be restored by Licensee to original condition and revegetated. After initial construction of the Licensed Facility and thereafter, in the event of resettling, Licensee shall restore the surface of the Property by grading and compacting any irregularities left after construction.

4.7. Licensee shall not do or permit to be done any blasting above, underneath or near facilities of Northern Water or Lower Boulder without first having received prior written permission from Northern Water and Lower Boulder. Any blasting shall be done in the presence of a representative of Northern Water or Lower Boulder, and in accordance with directions such representative may give for the protection or safety of facilities in the area which are operated by Northern Water or Lower Boulder.

4.8. Upon completion, Licensee shall notify Northern Water and Lower Boulder of completion of the Licensed Facility and shall fix a date within fourteen (14) days thereafter upon which representatives of Northern Water, Lower Boulder and Licensee shall jointly inspect the Licensed Facility, and if completion of the Licensed Facility is satisfactory, Northern Water and Lower Boulder shall issue a written acceptance to Licensee as soon as reasonably possible thereafter. If completion of the Licensed Facility is not satisfactory, Northern Water and Lower Boulder shall provide Licensee a written explanation of any corrections necessary to bring the work within the requirements of this License and Licensee shall, at its sole expense, make any such corrections. Licensee shall be responsible for the correction of any defects or failures of facilities operated by Northern Water and/or Lower Boulder which are due to faulty design or materials or poor workmanship of the Licensed Facility. Also, upon completion, Licensee shall provide a set of "as built's" to Northern Water and Lower Boulder. Following acceptance of the Licensed Facility by Northern Water and Lower Boulder, Licensee shall not make any modifications to the Licensed Facility without obtaining the prior written approval of Northern Water and Lower Boulder.

5. All provisions of this License shall also apply to any other work involving the construction, maintenance, reconstruction or relocation of the Licensed Facility on the Property.

6. In the event that Licensee's use of the Property should, in the sole discretion of Northern Water or Lower Boulder, interfere with or constitute a hazard to the facilities, officials, employees, or contractors of Northern Water or Lower Boulder, or to the general public, Northern Water or Lower Boulder may require immediate relocation, modification,

or removal of the Licensed Facility to eliminate such interference or hazard and may suspend Licensee's right to use the Property under this License until such relocation or modification is completed. If Licensee should fail to take such action as requested, Northern Water and/or Lower Boulder may take such action at the expense of Licensee.

7. Licensee may not grant any license or other interest in the Property that in any way interferes with or threatens to interfere with use of the Property or any operation, maintenance, use or administration of the Colorado-Big Thompson Project by Northern Water or Lower Boulder. Prior to granting any license or interest in the Property, Licensee shall obtain the written permission of Northern Water and Lower Boulder.

8. Licensee shall not cause nor permit to be caused by any of its contractors, agents or employees, any hazardous substances, pollutants or contaminants as defined by the Comprehensive Environmental Response, Compensation and Liability Act of 1980 ("CERCLA"), or hazardous wastes, as defined by the Resource Conservation and Recovery Act ("RCRA"), including, but not limited to asbestos, polychlorinated biphenyls ("PCB's") and/or urea formaldehyde, or any pollutants or toxic pollutants as defined by the Clean Water Act, and any amendments thereto, to be dumped, spilled, released, permanently stored, or deposited on, over, or beneath the Property. Any hazardous, toxic or flammable substances used by the Licensee or its agents, representatives, or independent contractors in the construction, operation, maintenance, repair or replacement of the Licensed Facility shall be utilized in a lawful manner and in compliance with all federal, state and local requirements relating to protection of health or the environment. Upon completion of such activities, any such hazardous, toxic or flammable substances shall be removed from the Property by Licensee.

9. Licensee shall at all times protect, indemnify, hold harmless, and defend Northern Water and Lower Boulder, their officers, agents and employees, from any and all claims, liability or expenses, including attorney fees, from any cause whatsoever arising from or growing out of the construction, existence, repair, maintenance, operation or removal of the Licensed Facility or the activities of Licensee and its agents, employees and contractors on the Property.

10. Northern Water and Lower Boulder shall use ordinary care not to damage the Licensed Facility in the maintenance, relocation or reconstruction of their facilities located on the Property and, except in the case of an emergency, shall give reasonable advance notice to Licensee of any of their activities in the immediate vicinity of the Licensed Facility. Licensee understands and acknowledges that normal repair, reconstruction, and maintenance of the Canal facilities on the Property includes, but is not limited to, excavating the bottom and shaping the sides of the Canal with heavy equipment which travels on the bottom of the Canal or on its banks; installing and replacing riprap,

replacing, adding or reconstructing water turnouts, headgates, valves, check dams, and other structures and facilities to direct or control the flow of water; reconstructing and replacing eroded, weakened or breached canal banks; construction of culverts or bridges across the Canal; and emergency actions taken in the event of overtopping or breach of the Canal; and that such activities are necessarily imprecise with respect to depth of excavations, bank dimensions, and the like. Licensee shall have sole responsibility for assuring that the design and location of the Licensed Facility are adequate to protect the Licensed Facility from the foregoing activities.

11. Notwithstanding any other provisions of this License, Northern Water and Lower Boulder shall not be responsible for any loss or damages to property arising from this License, including, but not limited to, the Licensed Facility, damages to growing crops, animals, and machinery; or injury to Licensee or its associates, officers, agents, employees, guests, invitees, trespassers, family, or any others who are on the premises; or for damages or interference caused by natural phenomena.

12. The cost of any repairs or maintenance to the Canal that are directly or indirectly caused by, or the result of, the Facilities or activities of Licensee on the Property, and not immediately remedied by Licensee pursuant to paragraph 4.6, shall be reimbursed by Licensee to Lower Boulder and/or Northern Water, as the case may be, within thirty (30) days of billing. Northern Water's and Lower Boulder's reasonable determination of such cost shall be final and binding upon Licensee.

13. Communications:

13.1. Any written communication or correspondence to any of the parties shall be directed to:

Real Estate Management Department
Northern Colorado Water Conservancy District
220 Water Avenue
Berthoud, CO 80513

and to:

New Consolidated Lower Boulder Reservoir and Ditch Company
P.O. Box 119
Longmont, CO 80502-0119

with a copy to:

Jeffrey J. Kahn
Lyons Gaddis
P.O. Box 978
Longmont, CO 80502-0978

and to:

Todd Fessenden, Public Works Director
Town of Erie
P.O. Box 750, 645 Holbrook St.
Erie, CO 80516

with copy to:

Kendra L. Carberry
Hoffmann, Parker, Wilson & Carberry, P.C.
511 16th Street, Suite 610
Denver, CO 80202

13.2. For operational contacts, the following persons are designated as the entities' contacts:

Northern Water:

Brian Flockhart, Real Estate Department
E-mail: bflockhart@northernwater.org
Office: 970-622-2270
Cell: 970-686-2806

Lower Boulder:

Shawn Spitz, Superintendent
E-mail: shawnlowerboulder@gmail.com
Cell: 720-320-4605

Licensee:

Todd Fessenden, Public Works Director
E-mail: tfessenden@erieco.gov
Office: 303-926-2895

David Pasic, Town Engineer

E-mail: dpasic@erieco.gov
Office: 303-926-2865

Scott Brown, Operations and Maintenance
Division Manager

E-mail: sbrown@erieco.gov
Office: 303-926-2882

13.3. In the event of an emergency, as described in paragraph 14, Lower Boulder, Northern Water, or Licensee shall provide notice to the other parties as soon as practicable at the emergency contacts identified below.

EMERGENCY CONTACTS:

Lower Boulder: Shawn Spitz, Superintendent
Cell: 720-320-4605

Northern Water: Brian Flockhart, Office: 970-622-2270 Cell: 970-686-2806 or Jim Struble Office: 970-622-2243 Cell: 970-593-2074

Licensee: Scott Brown Office 303-926-2882 Cell: 303-591-8600 or George Hubert Office: 303-926-2889 Cell: 303-591-3190

13.4. The parties may change the personnel and addresses to which notice is given, by written notice to the other parties at the addresses listed in paragraph 13.1 above.

14. In the event of an emergency, Lower Boulder, Northern Water, or Licensee may conduct maintenance or repair immediately, giving notice to the other party as soon as practicable at the emergency contacts identified in paragraph 13.3. If Lower Boulder and/or Northern Water conduct emergency work on the Licensed Facility, they shall be reimbursed for the cost of the work. Except for any negligent actions, Lower Boulder and/or Northern Water shall not be responsible or held liable for damages to the Licensed Facility resulting from maintenance or repair.

15. Northern Water and Lower Boulder shall furnish Licensee with information regarding the terms of Northern Water and Lower Boulder's interests in the Property that are necessary for Licensee to plan its installation of the Licensed Facility.

16. The License shall terminate upon the abandonment of the use of the Licensed Facility by Licensee. Abandonment shall be deemed to have occurred when the Licensed Facility has not been used for a period of five years or if the Licensed Facility has not been installed within a period of two years from the date of this License. Licensee shall bear all costs of restoration of the Canal and its right-of-way to the original condition upon abandonment of Licensee's facilities. In the event that Licensee fails to so restore the Canal and its right-of-way to its original condition, Lower Boulder and Northern Water may do so at Licensee's expense. Licensee shall not acquire a vested right to maintain and use the Licensed Facility as a result of Northern Water and Lower Boulder's continued acquiescence in the maintenance and use of the Licensed Facility. Upon termination of

this License for any reason, Licensee shall remove the Licensed Facility from the Property and restore the Property to the Property's condition prior to this License taking effect. If Licensee should fail to remove the Licensed Facility and restore the Property, Northern Water and Lower Boulder may, at the expense of Licensee, remove the same; dispose of all removed materials and equipment so removed by such means as Northern Water and Lower Boulder, in their sole discretion, deem reasonable and restore the Canal and right-of-way at Licensee's expense.

17. If Licensee constructs or maintains the Licensed Facility in any manner that is not in accordance with the designs and specifications provided by Licensee, Northern Water and Lower Boulder may require Licensee to remove or correct any nonconforming portion of the Licensed Facility at Licensee's sole expense or may terminate this License. Northern Water and Lower Boulder's failure or delay to object to the construction or maintenance of nonconforming facilities shall not be deemed a waiver or relinquishment of their right to do so.

18. Licensee shall hire a licensed and certified builder to construct the Licensed Facility and shall require said builder to provide and keep in full force and effect during the construction of the Licensed Facility, and require of its contractors or subcontractors, i) a builder's risk policy in the amount of at least \$1,000,000 per occurrence and the aggregate, ii) commercial general liability insurance, including contractual liability coverage and completed operations coverage, in the amount of at least \$1,000,000 per occurrence and in the aggregate, iii) automobile liability coverage in the amount of at least \$1,000,000 per occurrence and in the aggregate, iv) excess liability coverage in the amount of at least \$1,000,000 per occurrence and in the aggregate, v) pollution liability coverage in the amount of at least \$1,000,000 per occurrence and in the aggregate, and vi) worker's compensation coverage in the amounts prescribed by Colorado law covering all employees entering upon the Property. Said policies shall include a waiver of subrogation and shall, except for the worker's compensation policy, name Northern Water and Lower Boulder as additional insureds under said policy. The completed operations coverage shall extend for a minimum of three (3) years after project completion. Licensee shall provide Northern Water and Lower Boulder with certificates of insurance from its builder showing that the required coverage is in effect prior to beginning construction of the Licensed Facility.

19. This License is issued subject to any prior licenses, easements, or leases granted by the Northern Water and Lower Boulder on the Property for improvements of other parties.

20. This License shall inure to the benefit of and be binding upon the successors and permitted assigns of the parties hereto.

21. Licensee shall bear the sole obligation of obtaining from the fee title owner of the Property or any other owner of a proprietary interest in the Property such authority or rights as Licensee may need in addition to the rights provided in this License for the Licensed Facility. This License shall be recorded with the Weld County Clerk and Recorder.

22. This License shall not be assigned by Licensee without the prior written approval the Northern Water and Lower Boulder. Any assignees or successors to the rights of Licensee hereunder shall be liable and bound under all provisions of this License to the same extent as Licensee. Licensee must provide a copy of this License to any prospective assignee or purchaser of an interest in the Licensed Facility or any real estate agent or broker assisting in the conveyance of such interest prior to such assignment.

23. Nothing in this License shall constitute a waiver, in whole or in part, of the governmental immunities, rights, or protections provided to Northern Water by the Colorado Governmental Immunity Act, C.R.S. §§ 24-10-101 to -120, or any successor or similar statutes of the State of Colorado; or any protections offered to Lower Boulder under Colorado law.

24. Additional conditions:

24.1. Where compacting of earth materials is required around the Licensed Facility, the material shall be clay deposited in horizontal layers and compacted by using pneumatic and/or other suitable mechanical tampers. Backfill materials shall be deposited in horizontal layers of not more than six (6) inches in thickness after being compacted. Prior to and during compaction operations, backfill material shall have optimum practicable moisture content required for the purpose of compaction as determined by the Northern Water and Lower Boulder. Minimum of 95 percent compaction required.

24.2. All buried lines within the right-of-way shall be marked at the point of entrance into, and exit from, the right-of-way on both sides with the appropriate signs identifying their location.

24.3. Licensee shall bear sole responsibility for the installation of any and all signage required by federal, state or local rules and regulations and/or required by either Northern Water or Lower Boulder, subject to the approval and direction of Northern Water and Lower Boulder.

25. Licensee shall acknowledge receipt and acceptance of these conditions by executing the signature and date spaces below, and returning the executed License to Lower Boulder and Northern Water. For purposes of this License, electronically transmitted signatures shall be considered original signatures. This agreement may be executed in counterparts. An executed copy of this License will be returned to Licensee, and Licensee may proceed with the authorized activities only after Licensee has received its copy of the executed License, all required payments from Licensee hereunder have been received by Lower Boulder and/or Northern Water, and Licensee has given proper notice pursuant to paragraph 4.3 above.

In witness whereof, this instrument has been executed the day and year first above written.

**Northern Colorado Water
Conservancy District**

**The New Lower Boulder
Consolidated Ditch Company**

By: _____

By: _____

Title: _____

Title: _____

Town of Erie

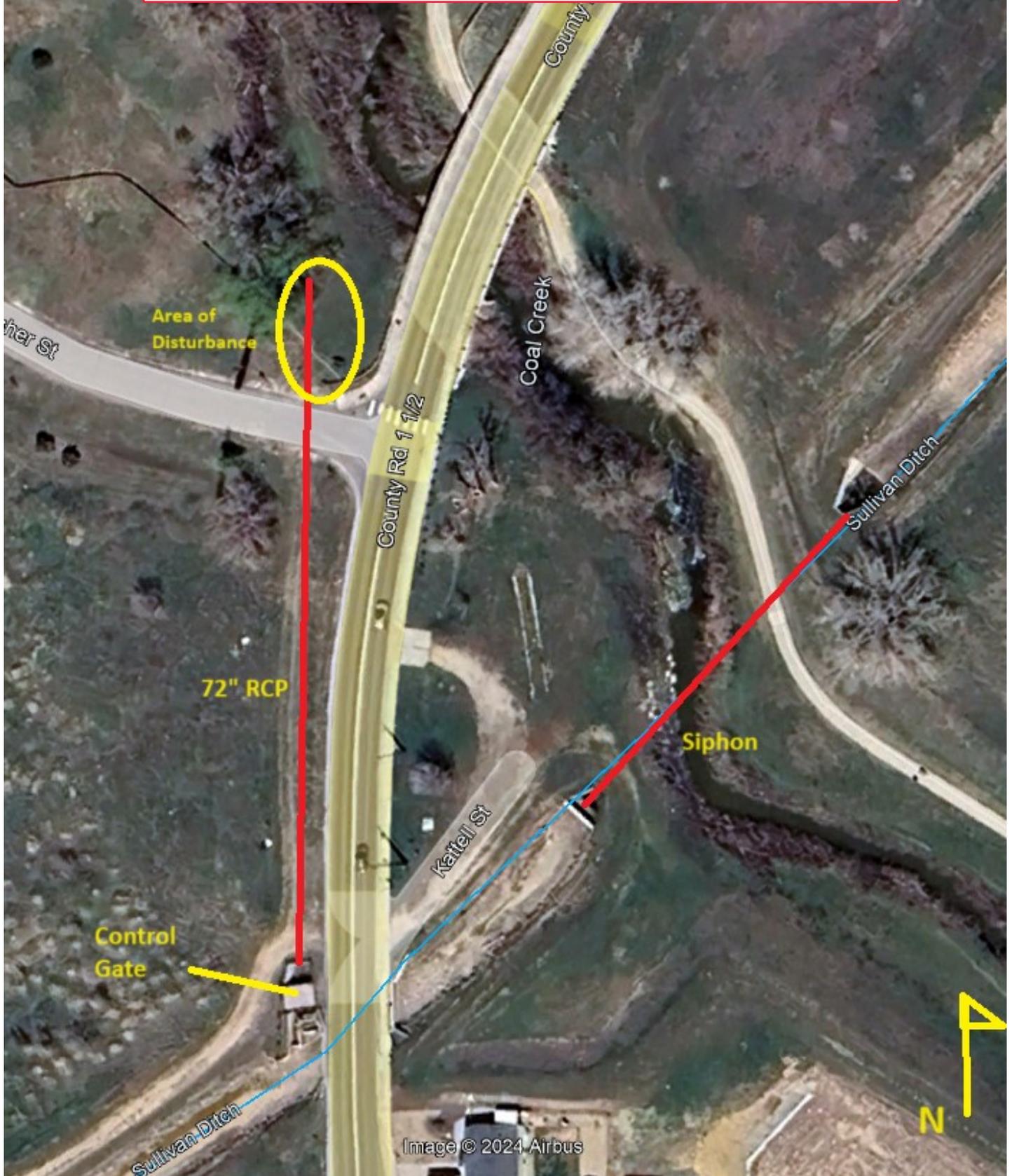
By: _____

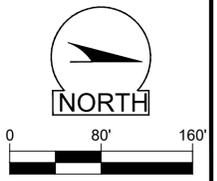
Justin Brooks
Mayor

Attest:

Debbie Stamp
Town Clerk

Exhibit A
In the East Half of the Northwest Quarter of
Section 18, Township 1 North, Range 68
West





TRACT E
NORTH RIDGE
FILING 1

TOWN OF ERIE
146718002003
900 COUNTY ROAD 10 1/2 ERIE

PAGE, PAUL E
146718000030
3941 COUNTY ROAD 1/2 WELD

PAGE, PAUL E
146718000030
3941 COUNTY ROAD 1/2 WELD

RDJ CONSTRUCTION INC
146718126009
COAL CREEK PROPERTY
BNONE L1

TOWN OF ERIE
146718001007
ERIE TOWN 843 LNONE

TOWN OF ERIE
146718200018

BORING 2
SEE GEOTECHNICAL
ENGINEERING STUDY

BORING 1
SEE GEOTECHNICAL
ENGINEERING STUDY

LEEVE END

PROTECT EXISTING SIPHON

LIMITS OF CONSTRUCTION

LOWER BOULDER DITCH

PROPOSED 100-YR
FLOODPLAIN

EFFECTIVE 100-YR
FLOODPLAIN

LEEVE START

PROTECT EXISTING TRAIL

COAL CREEK

CHEESMAN ST

BRIGGS ST

BRIGGS ST

EVANS ST

KATTELL STREET

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No.	DATE	REVISIONS	APPR.



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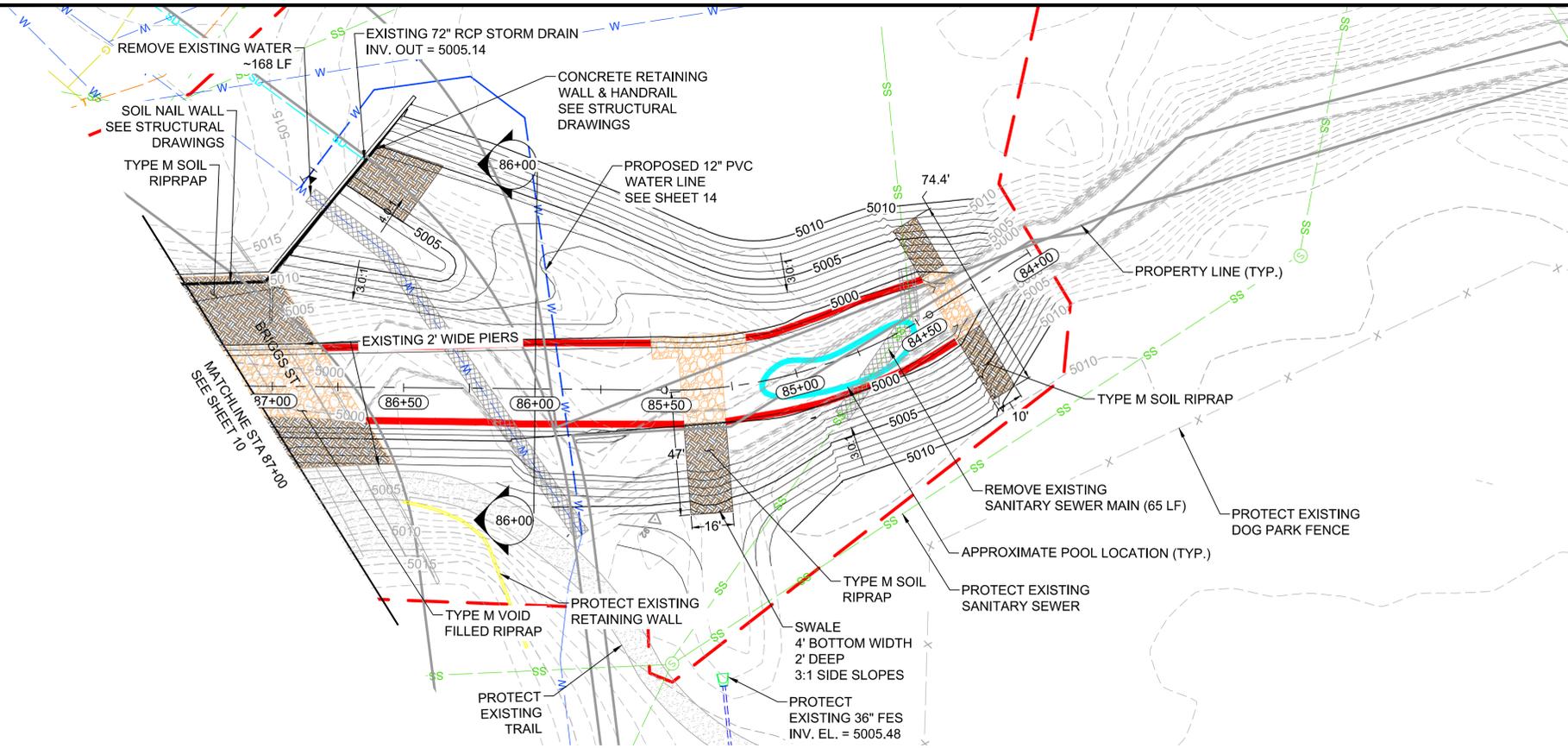
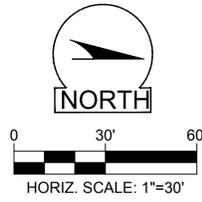
PREPARED BY:

COAL CREEK CHANNEL RESTORATION
100% SUBMITTAL
REACH 1 OVERALL PLAN

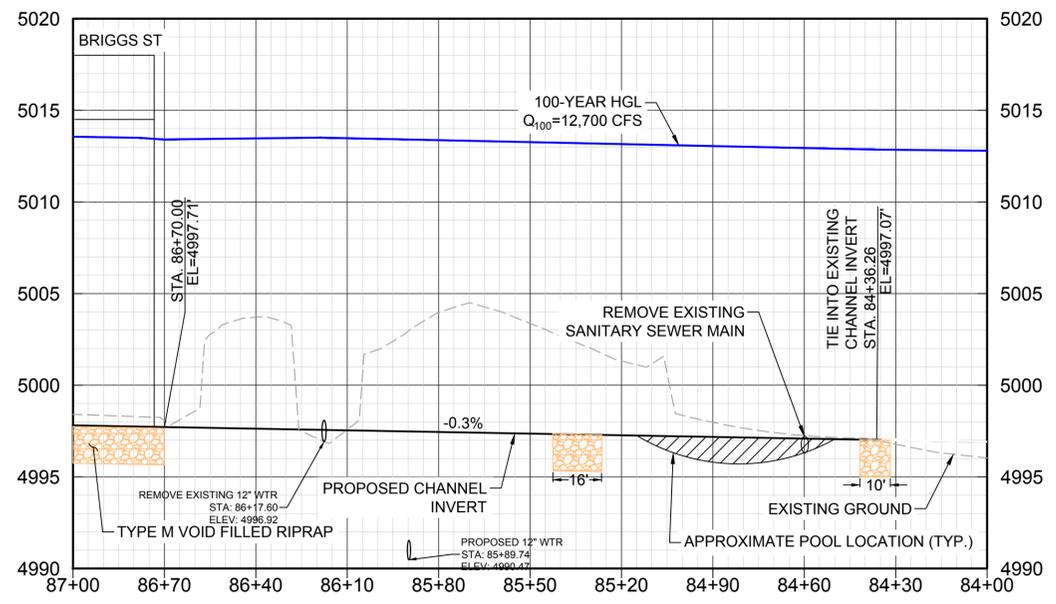
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DATE
JUNE 2023

SHEET
6 OF 78



NOTE:
 1. ALL RIPRAP INSTALLED WITHIN BANKFULL CHANNEL IS TO BE VOID FILLED RIPRAP. ALL RIPRAP INSTALLED OUTSIDE OF BANKFULL CHANNEL IS TO BE BURIED SOIL RIPRAP. UNLESS OTHERWISE NOTED.
 2. POOLS TO BE 1.5' DEEP.



No.	DATE	REVISIONS	APPR.



PREPARED FOR:

MILE HIGH FLOOD DISTRICT

TOWN OF ERIE 1874

PREPARED BY:

ICON ENGINEERING

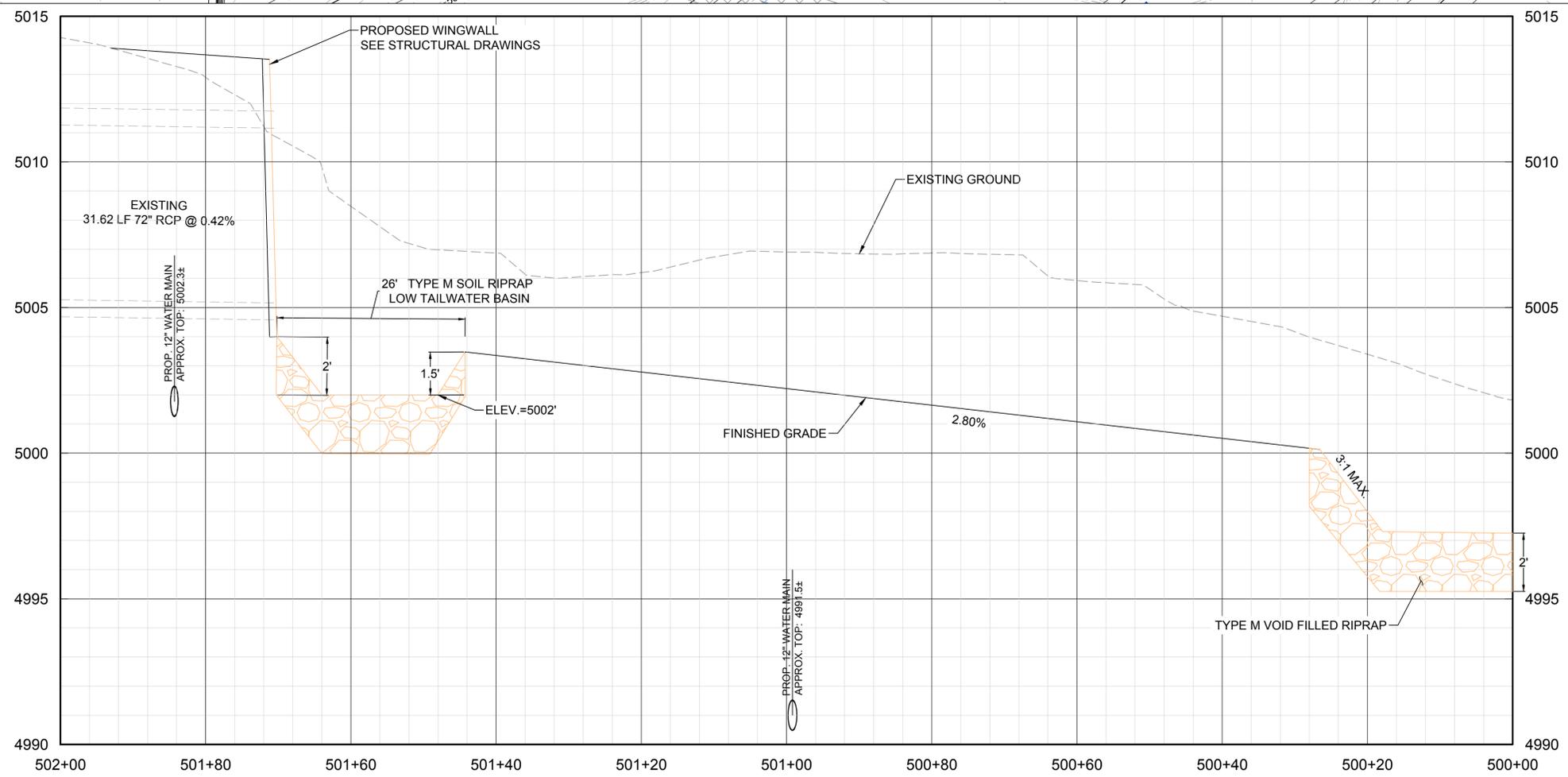
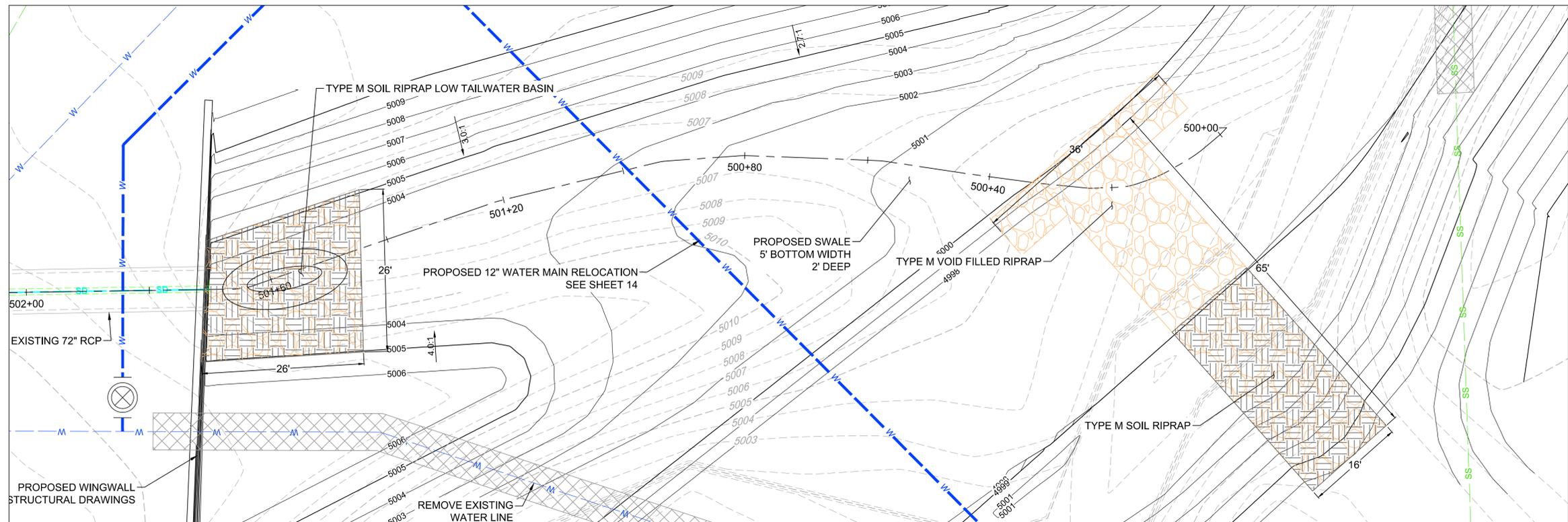
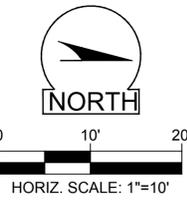
COAL CREEK CHANNEL RESTORATION
 100% SUBMITTAL
 REACH 1 PLAN & PROFILE - 3

ICON PROJECT No. 17-024-CCE-352

DATE
 JUNE 2023

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No.	DATE	REVISIONS	APPR.



PREPARED FOR:

MILE HIGH FLOOD DISTRICT

TOWN OF ERIE
1874

PREPARED BY:

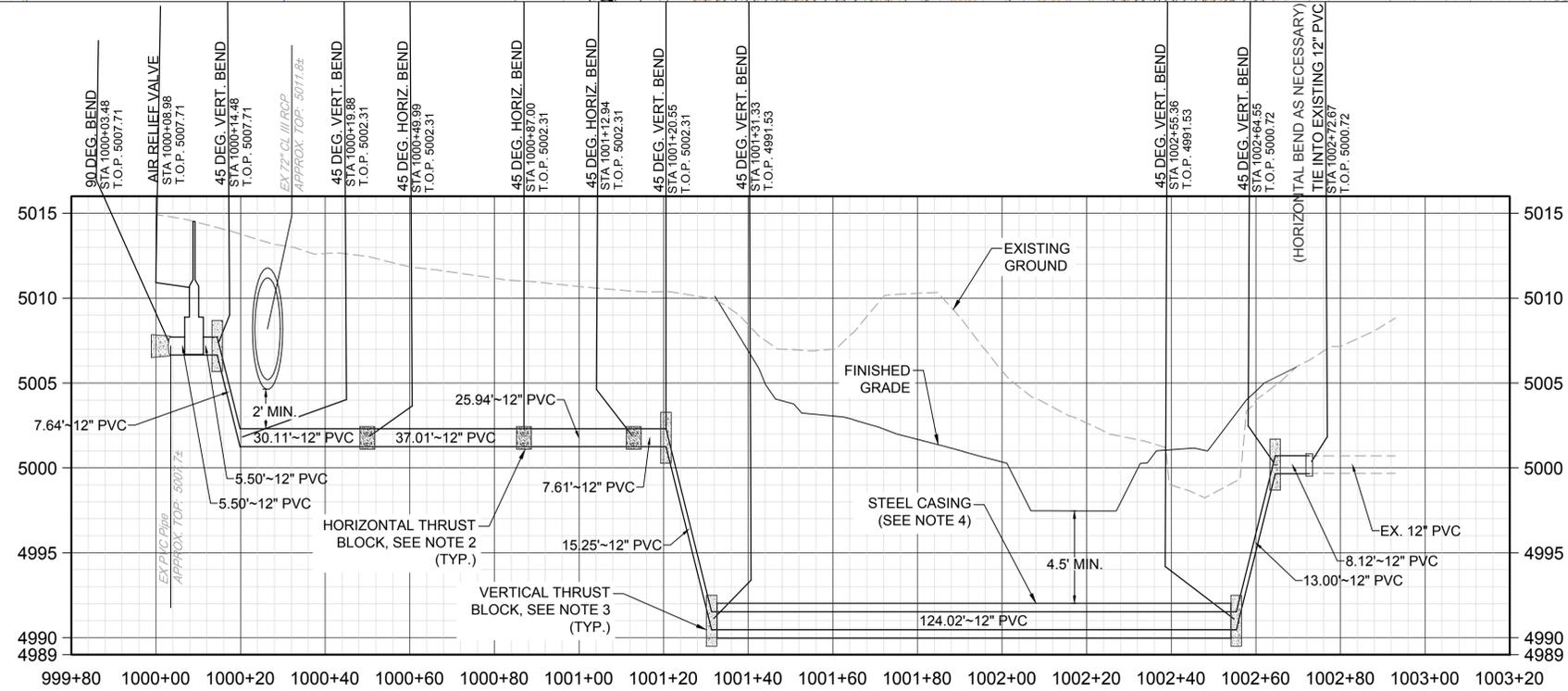
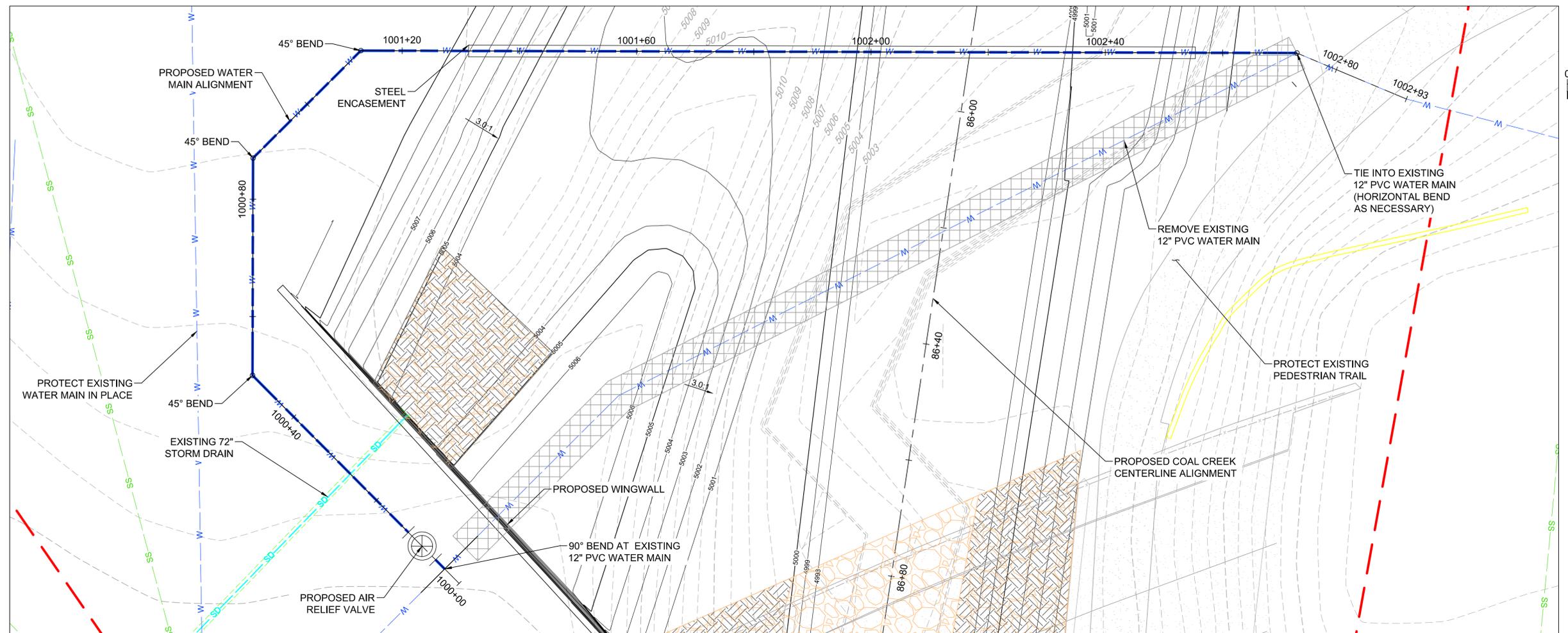
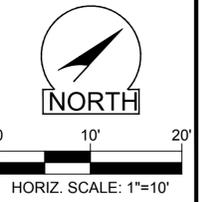
ICON ENGINEERING

COAL CREEK CHANNEL RESTORATION
100% SUBMITTAL
REACH 1 - 72 INCH STORM DRAIN - PLAN AND PROFILE

ICON PROJECT No. 17-024-CCE-352

DATE
JUNE 2023

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- NOTES:**
- REFER TO TOWN OF ERIE GENERAL NOTES, STANDARDS AND SPECIFICATIONS.
 - FOR HORIZONTAL THRUST BLOCKS, SEE TOWN OF ERIE DETAIL W14A & W14B.
 - FOR VERTICAL THRUST BLOCKS, SEE TOWN OF ERIE DETAIL W15.
 - FOR STEEL CASING, SEE TOWN OF ERIE DETAIL W24
 - CONSTRUCT STORM DRAIN CROSSING IN CONFORMANCE WITH TOWN OF ERIE DETAIL W25.
 - WATER MAIN TO BE C-900 PVC PIPE.



No.	DATE	REVISIONS	APPR.



PREPARED FOR:

MILE HIGH FLOOD DISTRICT

PREPARED BY:

TOWN OF ERIE

PREPARED BY:

ICON ENGINEERING

COAL CREEK CHANNEL RESTORATION

100% SUBMITTAL

REACH 1 WATER MAIN

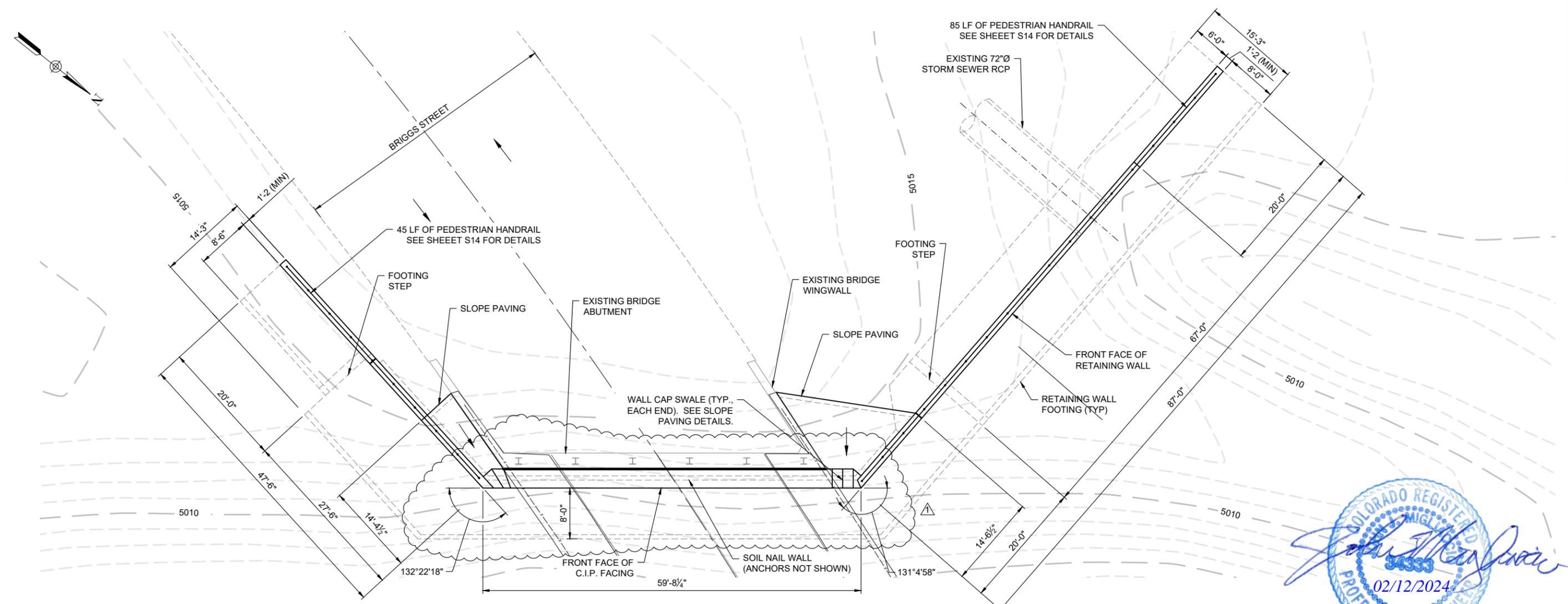
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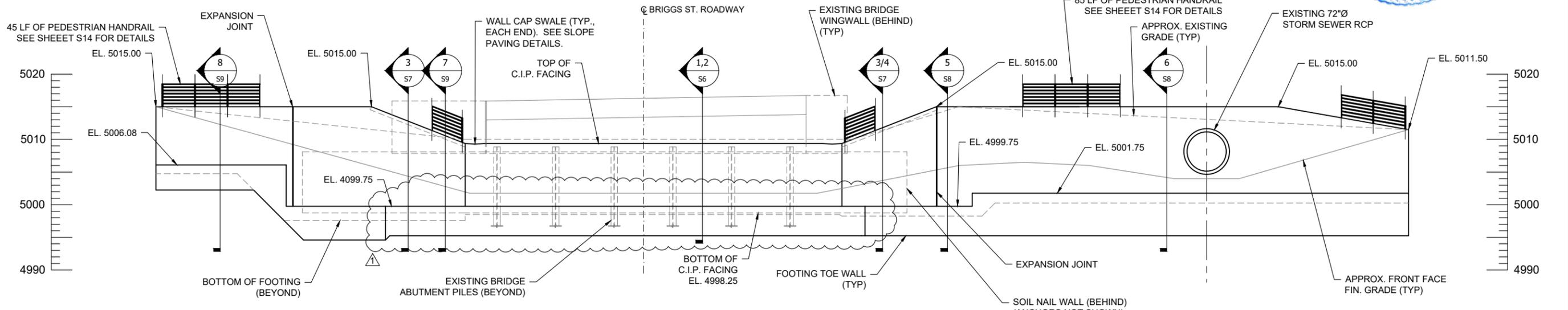
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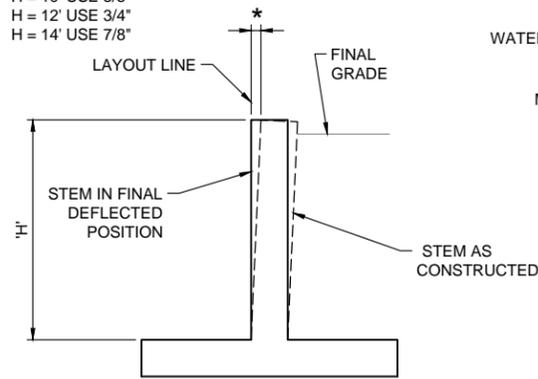
BRIGGS STREET BRIDGE ABUTMENT RETAINING WALL PLAN
1" = 8'-0"



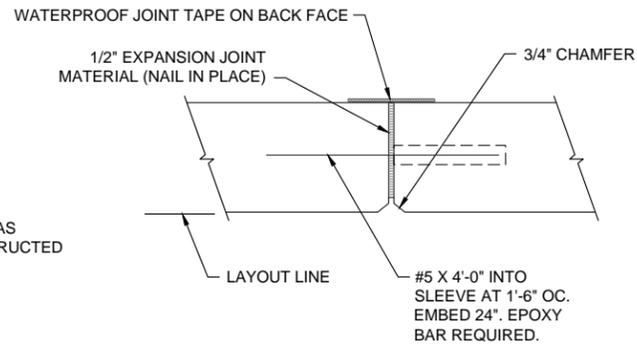
BRIGGS STREET BRIDGE ABUTMENT RETAINING WALL ELEVATION
1" = 8'-0"

1	2/9/24	FOOTING ADDITION TO SOIL NAIL WALL AT ABUTMENT	JJM	UTILITIES	PREPARED FOR:	PREPARED BY:	PLAN	COAL CREEK CHANNEL RESTORATION	DATE
				DRAWN	MHFD	San Engineering LLC	DRAWN	STRUCTURAL	OCT 2020
				DESIGNED			DESIGNED	BRIGGS STREET BRIDGE MODIFICATIONS	
				CHECKED			JJM	ABUTMENT RETAINING WALL PLAN & ELEVATION	SHEET
							JJM		S5 OF 21
No.	DATE	REVISIONS	APPR.					ICON PROJECT No. 17-024-CCE	

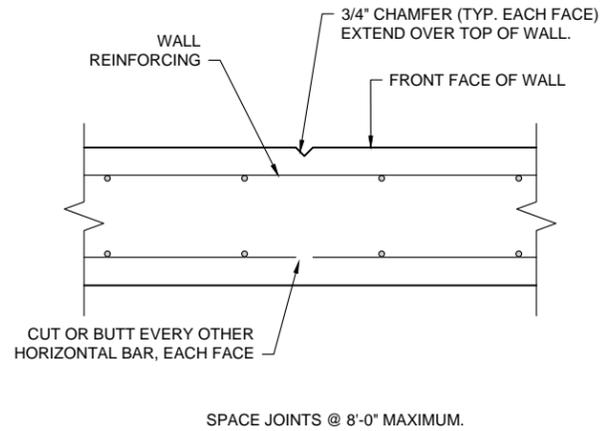
- OFFSET AS FOLLOWS:
- H = 4' USE 1/4"
- H = 6' USE 3/8"
- H = 8' USE 1/2"
- H = 10' USE 5/8"
- H = 12' USE 3/4"
- H = 14' USE 7/8"



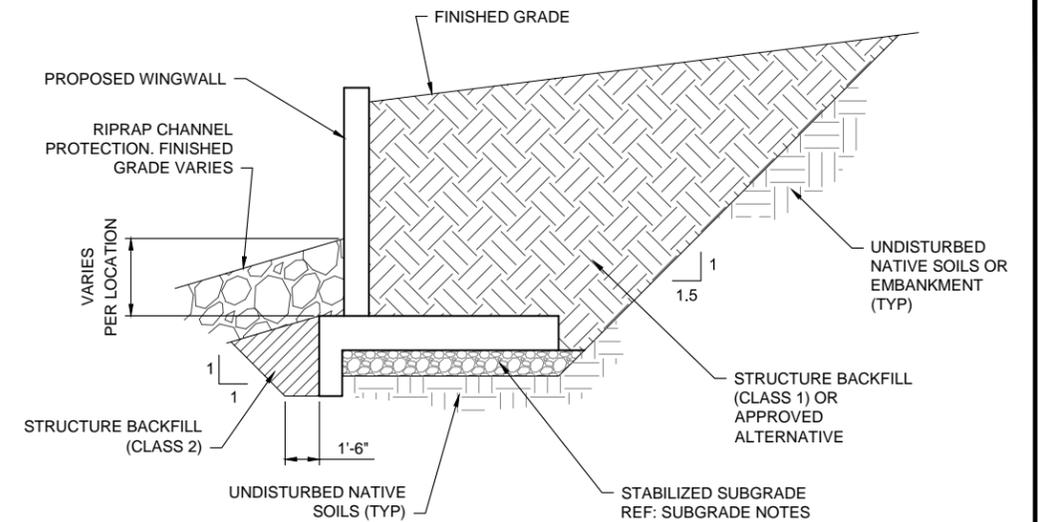
CIP WINGWALLS - WALL BATTER DETAIL
NOT TO SCALE



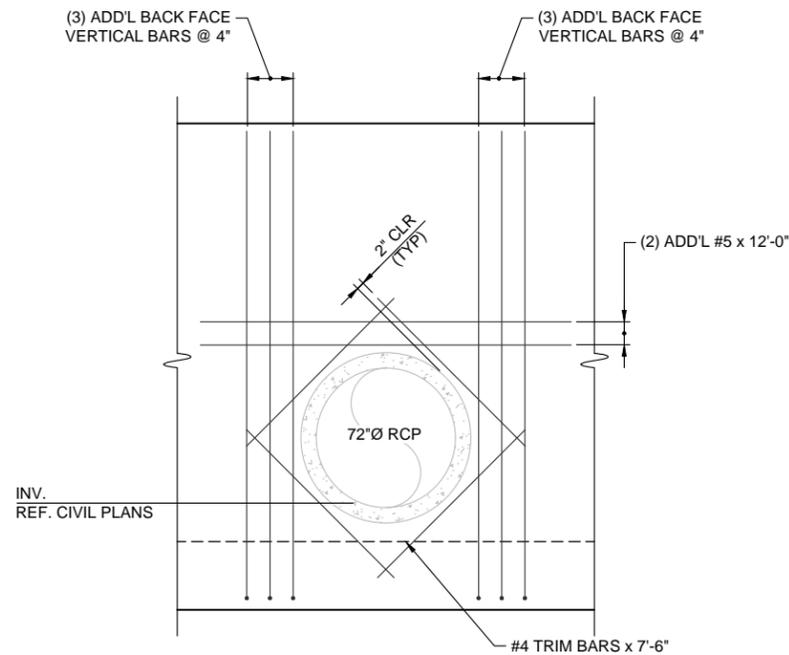
1 DETAIL - WALL EXPANSION JOINT
SCALE: N.T.S.



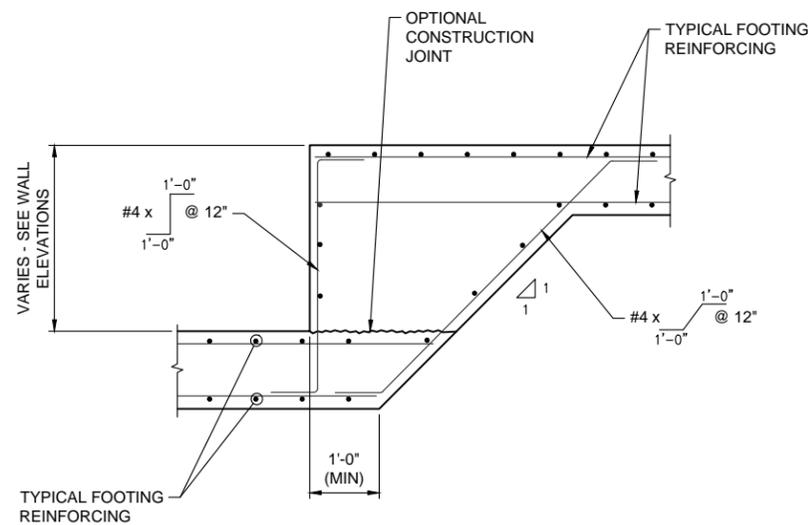
2 DETAIL - CONTROL JOINTS (WALL)
SCALE: N.T.S.



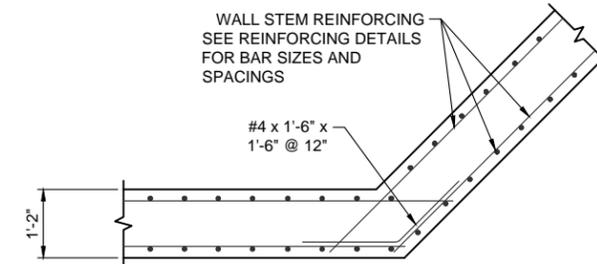
3 DETAIL - WINGWALL BACKFILL REQUIREMENTS
SCALE: N.T.S.



WINGWALL - PIPE PENETRATION DETAIL
1/2" = 1'-0"



FOOTING STEP DETAIL
SCALE: 1/2" = 1'-0"



WALL CORNER DETAIL
SCALE: 3/4" = 1'-0"



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No.		DATE	REVISIONS	APPR.	UTILITIES DRAWN DESIGNED CHECKED	Know what's below. Call before you dig.	PREPARED FOR: MILE HIGH FLOOD DISTRICT	PREPARED BY: San Engineering LLC Civil and Structural Engineering	PLAN DRAWN DESIGNED CHECKED JMM	COAL CREEK CHANNEL RESTORATION STRUCTURAL BRIGGS STREET BRIDGE MODIFICATIONS RETAINING WALL SECTIONS	DATE OCT 2020	SHEET S9 OF 21
ICON PROJECT No. 17-024-CCE												