

Final Acceptance Report

County Ditch No. 24 Repair

Faribault County, Minnesota

Date: March 4, 2024

ISG Project No.: 12-14012



Architecture
Engineering
Environmental
Planning

ISGInc.com

REPORT FOR:

Faribault County Drainage Authority
145 S Grove St, Suite 8
Blue Earth, MN 56013
507.525.8076

Merissa.Lore@co.faribault.mn.us

FROM:

ISG
Chuck Brandel., PE
Project Engineer
115 E Hickory Street + Suite 300
Mankato, MN 56001
507.387.6651

Chuck.Brandel@ISGInc.com

SIGNATURE SHEET

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

Signature: Chuck T. Brandel

Printed Name: Chuck Brandel, PE

Date: 3/4/2024

License Number: 43359

ISG

115 E Hickory Street

Mankato, Minnesota 56001

County Ditch No. 24 Repair

Faribault County, Minnesota

Engineer's Project Number: 12-14012

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EXECUTIVE SUMMARY

The Faribault County Ditch No. 24 (CD 24) Repair project began with a 2014 petition to restore portions of the grassed waterway back to the original legal waterway grade as it was constructed in 1959 and repair the 15-inch tile in the upper portion of the CD 24 watershed. The Final Repair Report was approved in June of 2016. Construction Documents were completed in July 2016 and the project was advertised and bid in August 2016. A total of five bids were received and the project was awarded to the low bidder, Brunz Construction out of Madison Lake, MN.

Construction began in December of 2016 with Brunz making steady progress through 2017. Then construction was delayed due to disputes on portions of the project, an appeal by a landowner and other landowner concerns. In 2022 the system was televised per specifications and multiple repairs were needed. These repairs were completed in 2023.

CONSTRUCTION CONTRACT

The cost estimate for construction, including contingency, from the Final Repair Report was \$221,313.90. The original contract price was \$211,671.00. There were seven approved change orders approved during the course of the project including \$43,800.45 in additions and \$32,112.00 in deductions resulting in a total cost increase to the project of \$11,688.45. Additional scope included bid items for side intakes, single wall tile, slough repair and shifting the riprap spillway. However, there were also several base bid and change order items that came in under estimate. The final contract price is \$191,543.79..

FINAL PAY REQUEST

To date, the contractor has been paid \$147,160.50 with an unpaid balance of \$39,831.93 left on retainage and a few remaining items to be paid. We recommend payment and final acceptance of the Faribault County Ditch No. 24 Repair project. The Final Pay Request can be found in Appendix B of this report.

AS BUILTS

ISG has completed the As Built plans that will serve as the corrected record of the project. The complete as built is located in Appendix E of this report.

DAMAGES

ISG has captured all of the damages, both temporary and permanent, that had occurred due to the project. It is the Engineer's recommendation that the damages to the properties involved be paid out to the landowners at the rate the board adopted during the final hearing. The complete list of damages per property is located in Appendix D of this report.

CONCLUSION

It is the Engineer's opinion that the Contractor, Brunz Construction, has satisfactorily completed the contract in accordance with plans and specifications. Therefore, the Engineer recommends final payment to the contractor, payment of the constructed damages and abandonment of the existing tile system.

Appendix A: Construction Photos



Construction Pictures

Appendix B: Final Pay Request, Withholding Affidavits & Consent of Surety

Contractor's Application For Payment No. 7 FINAL

Application Period: 6/7/21 - 7/26/2023		Application Date: 12/21/2023
To (Owner): Faribault County Drainage Authority	From (Contractor): Brunz Construction Inc.	Via (Engineer): I+S Group
Project: Faribault County CD 24 Repairs (2016)	Contract: 205 Walnut Ave Madison Lake, MN 56063	
Owner's Contract No.:	Contractor's Project No.:	Engineer's Project No.: 14012

Application for Payment

Change Order Summary

Approved Change Orders		
Number	Additions	Deductions
1	\$ 8,000.00	
2	\$ 8,729.00	
3		\$ 32,112.00
4	\$ 2,855.00	
5	\$ 7,210.00	
6	\$ 5,111.45	
7	\$ 11,895.00	
TOTALS		
	\$ 43,800.45	\$ 32,112.00
NET CHANGE BY CHANGE ORDERS		
		\$ 11,688.45

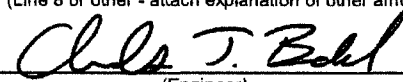
1. ORIGINAL CONTRACT PRICE	\$	211,671.00
2. Net change by Change Orders	\$	11,688.45
3. CURRENT CONTRACT PRICE (Line 1 ± 2)	\$	223,359.45
4. TOTAL COMPLETED AND STORED TO DATE (Column K on Progress Estimate)	\$	191,543.79
5. RETAINAGE:		
a. 0.0% x \$ 191,543.79 Work Completed.....	\$	-
b. 0.0% x \$ - Stored Material	\$	-
c. Total Retainage (Line 5a + Line 5b)	\$	-
6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5c)	\$	191,543.79
7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application)	\$	186,992.43
8. AMOUNT DUE THIS APPLICATION	\$	4,551.36
9. BALANCE TO FINISH, PLUS RETAINAGE (Column G on Progress Estimate + Line 5 above)	\$	-

Contractor's Certification

The undersigned Contractor certifies that: (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

By:  Date: 12/21/23

Payment of: \$ 4,551.36
(Line 8 or other - attach explanation of other amount)

is recommended by:  12/21/2023
(Engineer) (Date)

Payment of: \$ 4,551.36
(Line 8 or other - attach explanation of other amount)

is approved by: _____ (Owner) _____ (Date)

Approved by: _____ Funding Agency (if applicable) _____ (Date)



Project Name
Faribault County CD 24 Repairs (2016)
Client
Faribault County Drainage Authority

ISG Project Number
14012
Location
Winnebago Township

Pay Request #7
6-7-21 - 7/26/2023

County Ditch No. 24 Bid Item	Unit	Quantity	Unit Price	Bid Amount	Quantity This Pay Request	Amounty This Pay Request	Quantity to Date	Amount To Date	Quantity Remaining	Amount Remaining
2021.501 MOBILIZATION	LS	1.00	\$9,000.00	\$9,000.00	0	\$ -	1	\$ 9,000.00	0.00	\$0.00
2021.601 TILE INVESTIGATION	HR	35	\$200.00	\$7,000.00	0	\$ -	9	\$ 1,800.00	0.00	\$0.00
2104.501 REMOVE BEAVER DAM	EA	1.00	\$400.00	\$400.00	0	\$ -	2	\$ 800.00	0.00	\$0.00
2104.501 REMOVE EXISTING CULVERTS	EA	2.00	\$100.00	\$200.00	0	\$ -	2	\$ 200.00	0.00	\$0.00
2104.501 REMOVE EXISTING MAINLINE PIPE (SIZE & MATERIAL MAY VARY)	LF	60.00	\$5.00	\$300.00	0	\$ -	100	\$ 500.00	0.00	\$0.00
2104.501 REMOVE EXISTING WATERWAY INTAKE	EA	6.00	\$200.00	\$1,200.00	0	\$ -	1	\$ 200.00	0.00	\$0.00
2105.603 COMMON BORROW (CV)	CY	1,585.00	\$12.00	\$19,020.00	0	\$ -	1585	\$ 19,020.00	0.00	\$0.00
2105.603 DITCH CLEANING (4' EXISTING BOTTOM)	LF	1,560.00	\$2.00	\$3,120.00	0	\$ -	1560	\$ 3,120.00	0.00	\$0.00
2105.603 SLOUGH REPAIR	LF	2,420.00	\$3.00	\$7,260.00	0	\$ -	150	\$ 450.00	0.00	\$0.00
2118.501 MnDOT CLASS V AGGREGATE SURFACE	SY	171.00	\$8.00	\$1,368.00	0	\$ -	175	\$ 1,400.00	0.00	\$0.00
2451.507 CRUSHED ROCK GRANULAR FOUNDATION	CY	150.00	\$47.50	\$7,125.00	0	\$ -	219.61	\$ 10,431.48	0.00	\$0.00
2501.511 INSTALL 15" MAINLINE PIPE	LF	1,278.00	\$22.00	\$28,116.00	0	\$ -	1078	\$ 23,716.00	0.00	\$0.00
2501.515 F&I: 36" APRON	EA	1.00	\$1,500.00	\$1,500.00	0	\$ -	1.07	\$ 1,605.00	0.00	\$0.00
2501.515 F&I: 48" APRON	EA	1.00	\$1,700.00	\$1,700.00	0	\$ -	1	\$ 1,700.00	0.00	\$0.00
2503.541 F&I: 36" PIPE	LF	20.00	\$48.00	\$960.00	0	\$ -	17.67	\$ 848.16	0.00	\$0.00
2503.541 F&I: 42" PIPE	LF	50.00	\$53.00	\$2,650.00	0	\$ -	50	\$ 2,650.00	0.00	\$0.00
2503.541 F&I: 48" PIPE	LF	110.00	\$64.00	\$7,040.00	0	\$ -	48	\$ 3,072.00	0.00	\$0.00
2506.501 F&I: DRAINAGE STRUCTURE S-1	LS	1.00	\$9,500.00	\$9,500.00	0	\$ -	1	\$ 9,500.00	0.00	\$0.00
2506.502 12" PERFORATED TILE BEDDED IN COURSE FILTER AGGREGATE (WATER QUALITY INLETS)	LF	96.00	\$22.00	\$2,112.00	0	\$ -	0	\$ -	0.00	\$0.00
2506.502 F&I: WATERWAY SIDE INLET	EA	6.00	\$1,200.00	\$7,200.00	0	\$ -	2	\$ 2,400.00	0.00	\$0.00
2506.602 15" CROSS-CONNECTION (WITH 30' OF PIPE)	EA	1.00	\$1,000.00	\$1,000.00	0	\$ -	1	\$ 1,000.00	0.00	\$0.00
2506.602 CONNECT EXISTING TILE (10")	EA	1.00	\$550.00	\$550.00	0	\$ -	0	\$ -	0.00	\$0.00
2506.602 CONNECT EXISTING TILE (12")	EA	7.00	\$650.00	\$4,550.00	0	\$ -	0	\$ -	0.00	\$0.00
2506.602 CONNECT EXISTING TILE (15")	EA	1.00	\$750.00	\$750.00	0	\$ -	1	\$ 750.00	0.00	\$0.00
2506.602 CONNECT EXISTING TILE (8")	EA	1.00	\$450.00	\$450.00	0	\$ -	2	\$ 900.00	0.00	\$0.00
2511.501 RIPRAP CLASS III & GEO-TEXTILE FABRIC TYPE 4	CY	598.00	\$60.00	\$35,880.00	0	\$ -	633.72	\$ 38,023.20	0.00	\$0.00
2540.618 PLACE 4' X 10' HOG SLAT FOR CROSSING (WITH CRUSHED ROCK BASE)	EA	32.00	\$350.00	\$11,200.00	0	\$ -	32.00	\$ 11,200.00	0.00	\$0.00
2571.505 SOFT ARMOR DITCH BANK WITH NATIVE SHRUB	AC	2.00	\$15,000.00	\$30,000.00	0	\$ -	0	\$ -	0.00	\$0.00
2575.525 SEED BUFFER, MIX 32-241 BLEND WITH TYPE 3 OR 6 MULCH	AC	0.50	\$1,100.00	\$550.00	0	\$ -	1.5	\$ 1,650.00	0.00	\$0.00
2575.525 SEED BUFFER, MIX 35-521 CRP MIX WITH TYPE 3 OR 6 MULCH	AC	1.00	\$1,200.00	\$1,200.00	0	\$ -	0	\$ -	0.00	\$0.00
2575.525 SEED OPEN DITCH SIDE SLOPES, MIX 32-241 BLEND WITH TYPE 8 MULCH	AC	1.20	\$3,000.00	\$3,600.00	0	\$ -	0.2	\$ 600.00	0.00	\$0.00
2575.525 SEED WATERWAY, MIX 33-262 WITH TYPE 3 OR 6 MULCH	AC	1.60	\$1,050.00	\$1,680.00	0	\$ -	1.15	\$ 1,207.50	0.00	\$0.00
2575.541 MOWING	AC	8.60	\$300.00	\$2,580.00	0	\$ -	0	\$ -	0.00	\$0.00
2575.541 WEED SPRAYING	AC	8.60	\$350.00	\$3,010.00	0	\$ -	0	\$ -	0.00	\$0.00
				\$213,771.00		\$0.00		\$147,743.34		\$0.00



Project Name
Faribault County CD 24 Repairs (2016)
Client
Faribault County Drainage Authority

ISG Project Number
14012
Location
Winnebago Township

Pay Request #7 - Change Orders
6/7/21 - 7/26/2023

County Ditch No. 24 Repairs Change Order Items (Change Order #1 Bid Items)	Unit	Quantity	Unit Price	Bid Amount	Quantity This Pay Request	Amounty This Pay Request	Quantity to Date	Amount To Date	Quantitty Remaining	Amount Remaining
15" Side Intake with Lateral Tiles	EA	4.00	\$2,000.00	\$8,000.00	0	\$ -	4	\$ 8,000.00	0	\$0.00
				\$8,000.00		\$0.00		\$8,000.00		\$0.00

County Ditch No. 24 Repairs Change Order Items (Change Order #2 Bid Items)	Unit	Quantity	Unit Price	Bid Amount	Quantity This Pay Request	Amounty This Pay Request	Quantity to Date	Amount To Date	Quantitty Remaining	Amount Remaining
12" Single Wall PE Pipe	LF	350.00	\$24.94	\$8,729.00	0	\$ -	350	\$ 8,729.00	0	\$0.00
				\$8,729.00		\$0.00		\$8,729.00		\$0.00

County Ditch No. 24 Repairs Change Order Items (Change Order #3 Bid Items)	Unit	Quantity	Unit Price	Bid Amount	Quantity This Pay Request	Amounty This Pay Request	Quantity to Date	Amount To Date	Quantitty Remaining	Amount Remaining
12" PERFORATED TILE BEDDED IN COURSE FILTER AGGREGATE (WATER QUALITY INLETS)	LF	-96.00	\$22.00	(\$2,112.00)	0	\$ -	-96	\$ (2,112.00)	0	\$0.00
SOFT ARMOR DITCH BANK WITH NATIVE SHRUB	AC	-2.00	\$15,000.00	(\$30,000.00)	0	\$ -	-2	\$ (30,000.00)	0	\$0.00
				(\$32,112.00)		\$0.00		(\$32,112.00)		\$0.00

County Ditch No. 24 Repairs Change Order Items (Change Order #4 Bid Items)	Unit	Quantity	Unit Price	Bid Amount	Quantity This Pay Request	Amounty This Pay Request	Quantity to Date	Amount To Date	Quantitty Remaining	Amount Remaining
EXCAVATOR (TILE REROUTE-RYNEARSON)	HR	6.50	\$200.00		0.00	\$ -	6.5	\$ 1,300.00	0	\$0.00
LABOR	HR	13.00	\$85.00		0.00	\$ -	13	\$ 1,105.00	0	\$0.00
TILE CONNECTION	EA	1.00	\$450.00		0	\$ -	1	\$ 450.00	0	\$0.00
				\$0.00		\$0.00		\$2,855.00		\$0.00

County Ditch No. 24 Repairs Change Order Items (Change Order #5 Bid Items)	Unit	Quantity	Unit Price	Bid Amount	Quantity This Pay Request	Amounty This Pay Request	Quantity to Date	Amount To Date	Quantitty Remaining	Amount Remaining
SLOUGH REPAIR SE TWP RD	LF	200.00	\$3.00	\$600.00	0.00	\$ -	200.00	\$ 600.00	0	\$0.00
LYNN'S (INSTALL 60' X 15" DUAL WALL IN FIELD APPROACH)	LF	60.00	\$22.00	\$1,320.00	0	\$ -	60	\$ 1,320.00	0	\$0.00
SLOUGH REPAIR W TWP ROAD	LF	110.00	\$3.00	\$330.00	0	\$ -	110	\$ 330.00	0	\$0.00
IMPORT CLAY 216.4 (MATERIALS ONLY)	TN	224.00	\$5.00	\$1,120.00	0	\$ -	224	\$ 1,120.00	0	\$0.00
TRUCKING (HAUL IN CLAY)	HR	12.00	\$110.00	\$1,320.00	0	\$ -	12	\$ 1,320.00	0	\$0.00
EXCAVATOR (PLACE FILL)	HR	14.00	\$180.00	\$2,520.00	0	\$ -	14	\$ 2,520.00	0	\$0.00
				\$7,210.00		\$0.00		\$7,210.00		\$0.00

County Ditch No. 24 Repairs Change Order Items (Change Order #6 Bid Items)	Unit	Quantity	Unit Price	Bid Amount	Quantity This Pay Request	Amounty This Pay Request	Quantity to Date	Amount To Date	Quantitty Remaining	Amount Remaining
MOBILIZATION	LS	1.00	\$2,000.00	\$2,000.00	0.00	\$ -	1.00	\$ 2,000.00	0	\$0.00
PICK UP PIPE (DELIVERY FEE)	LS	1.00	\$150.00	\$150.00	0	\$ -	1	\$ 150.00	0	\$0.00
EXCAVATOR	HR	8.00	\$200.00	\$1,600.00	0	\$ -	8	\$ 1,600.00	0	\$0.00
LABOR	HR	8.00	\$85.00	\$680.00	0	\$ -	8	\$ 680.00	0	\$0.00
20" DUAL WALL	LF	20.00	\$15.00	\$300.00	0	\$ -	20	\$ 300.00	0	\$0.00
RETURN PIPE W/RESTOCK FEE	LS	1.00	\$161.45	\$161.45	0	\$ -	1	\$ 161.45	0	\$0.00
HAUL ONE LOAD DRAINAGE ROCK OFF SITE (TRUCK ONLY - NC FOR ROCK)	LS	1.00	\$220.00	\$220.00	0	\$ -	1	\$ 220.00	0	\$0.00
				\$5,111.45		\$0.00		\$5,111.45		\$0.00

County Ditch No. 24 Repairs Change Order Items (Change Order #7 Bid Items)	Unit	Quantity	Unit Price	Bid Amount	Quantity This Pay Request	Amounty This Pay Request	Quantity to Date	Amount To Date	Quantitty Remaining	Amount Remaining
MOBILIZATION	LS	1.00	\$2,000.00	\$2,000.00	0.00	\$ -	1.00	\$ 2,000.00	0	\$0.00
EXCAVATOR	HR	8.00	\$200.00	\$1,600.00	0	\$ -	8	\$ 1,600.00	0	\$0.00
LABOR (2 MEN @ 6 HR EACH)	HR	16.00	\$85.00	\$1,360.00	0	\$ -	16	\$ 1,360.00	0	\$0.00
EXCAVATOR	HR	4.50	\$200.00	\$900.00	0	\$ -	4.5	\$ 900.00	0	\$0.00
LABOR (2 MEN @ 4.5 HR EACH)	HR	9.00	\$85.00	\$765.00	0	\$ -	9	\$ 765.00	0	\$0.00
MATERIALS FOR FIXING DAMAGED PIPE IN WATERWAY	LS	1.00	\$770.00	\$770.00	0	\$ -	1	\$ 770.00	0	\$0.00
EXCAVATOR	HR	4.00	\$200.00	\$800.00	0	\$ -	4	\$ 800.00	0	\$0.00
EXCAVATOR	HR	10.00	\$200.00	\$2,000.00	0	\$ -	10	\$ 2,000.00	0	\$0.00
LABOR (2 MEN @ 10 HR EACH)	HR	20.00	\$85.00	\$1,700.00	0	\$ -	20	\$ 1,700.00	0	\$0.00
				\$11,895.00		\$0.00		\$11,895.00		\$0.00



Bond No. 54-211924

United Fire & Casualty Company

118 Second Avenue SE PO Box 73909 Cedar Rapids, Iowa 52407-3909

**CONSENT OF SURETY
TO FINAL PAYMENT**

OWNER	<input type="checkbox"/>
ARCHITECT	<input type="checkbox"/>
CONTRACTOR	<input type="checkbox"/>
SURETY	<input type="checkbox"/>
OTHER	<input type="checkbox"/>

TO OWNER:

(Name and address)

Faribault County
415 N Main
Blue Earth, MN 56013

ARCHITECT'S PROJECT NO.:

CONTRACT FOR: CD 24 Repairs

PROJECT:

(Name and address)

Faribault County
Blue Earth, MN

CONTRACT DATED: September 6, 2016

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, UNITED FIRE & CASUALTY COMPANY, 118 Second Avenue SE, PO Box 73909 Cedar Rapids, Iowa 52407-3909, SURETY,

on bond of

(Insert name and address of Contractor)

Brunz Construction Company, Inc.

PO Box 187, Madison Lake, MN 56063

, CONTRACTOR,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety of any of its obligations to

(Insert name and address of Owner)

Faribault County
415 N Main
Blue Earth, MN 56013

, OWNER,

as set forth in said Surety's bond.

IN WITNESS WHEREOF, the Surety has hereunto set its hand on this date: December 22, 2023

(Insert in writing the month followed by the numeric date and year.)

UNITED FIRE & CASUALTY COMPANY

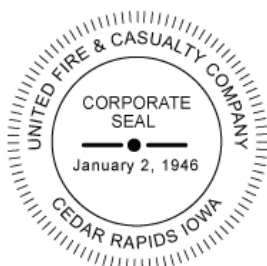
(Surety)

(Signature of authorized representative)

Stephen M Klein, Attorney-in-Fact

(Printed name and title)

Attest:
(Seal):



CONT0311 0105



UNITED FIRE & CASUALTY COMPANY, CEDAR RAPIDS, IA
 UNITED FIRE & INDEMNITY COMPANY, WEBSTER, TX
 FINANCIAL PACIFIC INSURANCE COMPANY, LOS ANGELES, CA
 CERTIFIED COPY OF POWER OF ATTORNEY
 (original on file at Home Office of Company – See Certification)

Inquiries: Surety Department
 118 Second Ave SE
 Cedar Rapids, IA 52401

KNOW ALL PERSONS BY THESE PRESENTS, That United Fire & Casualty Company, a corporation duly organized and existing under the laws of the State of Iowa; United Fire & Indemnity Company, a corporation duly organized and existing under the laws of the State of Texas; and Financial Pacific Insurance Company, a corporation duly organized and existing under the laws of the State of California (herein collectively called the Companies), and having their corporate headquarters in Cedar Rapids, State of Iowa, does make, constitute and appoint

JOHN C. KLEIN, STEPHEN M. KLEIN, KRISTIN M. BAKOS, JILL M. LOWDER, CHRISTINE SCOTT, WENDY SCHMID, EMILY TSCHIMPERLE, TRACY CHEHOSKI, RITA CARLSON, KARLA DEUTSCH-HUNT, MICHAEL ZAHN, KERRI HATTON-RUDNIK, LYNN DVERGSTEN, EACH INDIVIDUALLY

their true and lawful Attorney(s)-in-Fact with power and authority hereby conferred to sign, seal and execute in its behalf all lawful bonds, undertakings and other obligatory instruments of similar nature provided that no single obligation shall exceed \$100,000,000.00 and to bind the Companies thereby as fully and to the same extent as if such instruments were signed by the duly authorized officers of the Companies and all of the acts of said Attorney, pursuant to the authority hereby given and hereby ratified and confirmed.

The Authority hereby granted is continuous and shall remain in full force and effect until revoked by United Fire & Casualty Company, United Fire & Indemnity Company, and Financial Pacific Insurance Company.

This Power of Attorney is made and executed pursuant to and by authority of the following bylaw duly adopted by the Boards of Directors of United Fire & Casualty Company, United Fire & Indemnity Company, and Financial Pacific Insurance Company.

"Article VI – Surety Bonds and Undertakings"

Section 2, Appointment of Attorney-in-Fact. "The President or any Vice President, or any other officer of the Companies may, from time to time, appoint by written certificates attorneys-in-fact to act in behalf of the Companies in the execution of policies of insurance, bonds, undertakings and other obligatory instruments of like nature. The signature of any officer authorized hereby, and the Corporate seal, may be affixed by facsimile to any power of attorney or special power of attorney or certification of either authorized hereby; such signature and seal, when so used, being adopted by the Companies as the original signature of such officer and the original seal of the Companies, to be valid and binding upon the Companies with the same force and effect as though manually affixed. Such attorneys-in-fact, subject to the limitations set forth in their respective certificates of authority shall have full power to bind the Companies by their signature and execution of any such instruments and to attach the seal the Companies thereto. The President or any Vice President, the Board of Directors or any other officer of the Companies may at any time revoke all power and authority previously given to any attorney-in-fact.

IN WITNESS WHEREOF, the COMPANIES have each caused these presents to be signed by its vice president and its corporate seal to be hereto affixed this

1st day of December, 2014

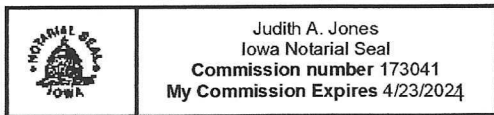
UNITED FIRE & CASUALTY COMPANY
 UNITED FIRE & INDEMNITY COMPANY
 FINANCIAL PACIFIC INSURANCE COMPANY

By: *Dennis J. Richmann*
 Vice President

State of Iowa, County of Linn, ss:

On 1st day of December, 2014, before me personally came Dennis J. Richmann

to me known, who being by me duly sworn, did depose and say; that he resides in Cedar Rapids, State of Iowa; that he is a Vice President of United Fire & Casualty Company, a Vice President of United Fire & Indemnity Company, and a Vice President of Financial Pacific Insurance Company the corporations described in and which executed the above instrument; that he knows the seal of said corporations; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporations and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporations.



Judith A. Jones
 Notary Public
 My commission expires: 4/23/2024

I, Mary A. Bertsch, Assistant Secretary of United Fire & Casualty Company and Assistant Secretary of United Fire & Indemnity Company, and Assistant Secretary of Financial Pacific Insurance Company, do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Section of the bylaws and resolutions of said Corporations as set forth in said Power of Attorney, with the ORIGINALS ON FILE IN THE HOME OFFICE OF SAID CORPORATIONS, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

In testimony whereof I have hereunto subscribed my name and affixed the corporate seal of the said Corporations
 this 22nd day of December, 2023.



By: *Mary A. Bertsch*
 Assistant Secretary,
 UF&C & UF&I & FPIC



Contractor Affidavit Submitted

Thank you, your Contractor Affidavit has been approved.

Confirmation Summary

Confirmation Number:	1-918-257-504
Submitted Date and Time:	21-Dec-2023 4:46:52 PM
Legal Name:	BRUNZ CONSTRUCTION CO INC
Federal Employer ID:	41-1666046
User Who Submitted:	Kathleen48
Type of Request Submitted:	Contractor Affidavit

Affidavit Summary

Affidavit Number:	480989184
Minnesota ID:	2919603
Project Owner:	FARIBAULT COUNTY DRAINAGE AUTHORITY
Project Number:	ENGINEER #14012
Project Begin Date:	22-Nov-2016
Project End Date:	02-Nov-2022
Project Location:	FARIBAULT COUNTY
Project Amount:	\$191,543.79
Subcontractors:	No Subcontractors

Important Messages

A copy of this page must be provided to the contractor or government agency that hired you.

Contact Us

If you need further assistance, contact our Withholding Tax Division at 651-282-9999, (toll-free) 800-657-3594, or (email) withholding.tax@state.mn.us. Business hours are Monday through Friday 8:00 a.m. to 4:30 p.m. Central Time.

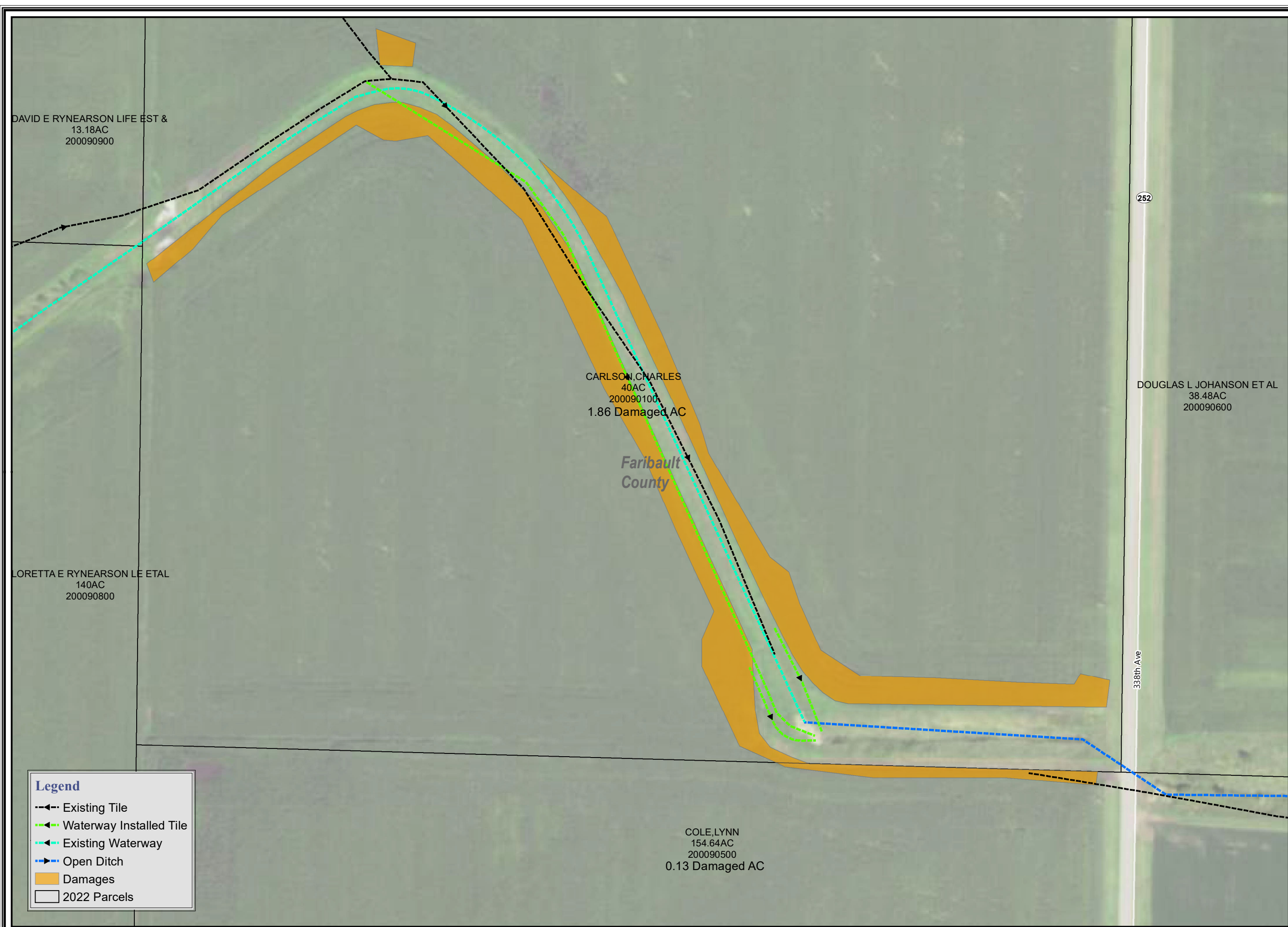
Please [print this page](#) for your records using the print or save functionality built into your browser.

Appendix C: Damages

Faribault County Ditch No. 24
2017 Construction Damages Summary
Final Per As-Built
Date: 1/23/2024



	General Tract Information						Temporary Damages			
	Parcel Description	Parcel Owner	Parcel ID	Approximate Station Range	Project Description	Crop Type (Corn/Soybeans)	Contractor Damages due to Construction (Acres)	Non-Crop Damages due to Construction (Acres)	Crop Damages due to Construction (Acres)	Total Damages (Acres)
Mainline	NW 1/4 NE 1/4 SECTION 9 WINNEBAGO TOWNSHIP	Charles Carlson	200090100	20+00 to 35+00	Repair	None	0.00	1.86	0.00	1.86
	SW 1/4 NE 1/4 SECTION 9 WINNEBAGO TOWNSHIP	Lynn Cole	200090500	20+00 to 39+00	Repair	None	0.00	0.13	0.00	0.13
Faribault County Ditch No. 24							0.00	1.99	0.00	1.99



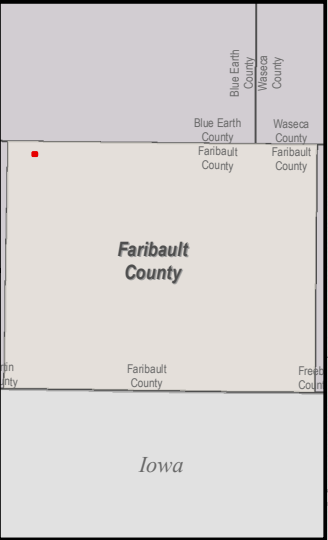
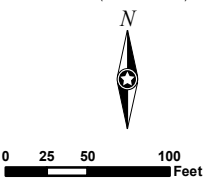
Legend

- Existing Tile
- Waterway Installed Tile
- Existing Waterway
- Open Ditch
- Damages
- 2022 Parcels

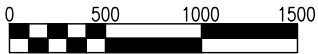
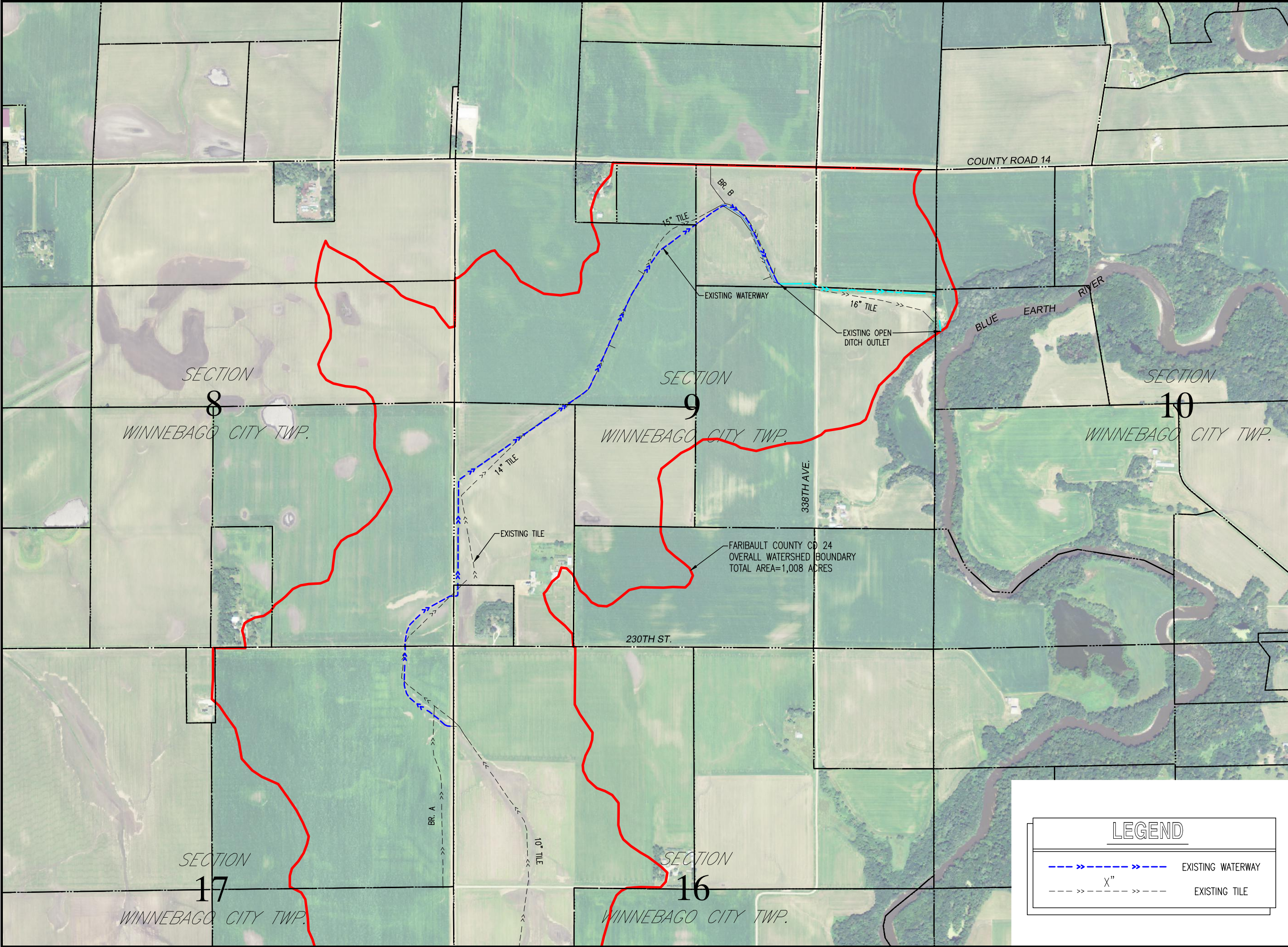


**2017
Damages Map**
County Ditch No 24
Faribault County,
Minnesota
Tuesday, January 23, 2024

PN: 14012
Source:
Orthophotograph (MnGeo WMS, 2015)
Tile/Ditch (Faribault County, 2017)
Parcels (Faribault County, 2022)
Lakes (MN DNR, July, 2008)
Major Stream (MN DNR, July 2008)
Counties (MN DNR, July 2013)
PLSS (MnGeo/USGS)



Appendix D: As-Built



KEY PLAN Scale:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

CHARLES J. BRANDEL
Charles J. Brandel

DATE 1/8/2024 LIC. NO. 43359

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE LIC. NO.

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PROJECT

FARIBAULT COUNTY

**COUNTY DITCH No. 24
GRASSED WATERWAY
REPAIRS**

WINNEBAGO CITY, TWP MINNESOTA

REVISION SCHEDULE		
NO	DATE	DESCRIPTION

AS-BUILT 1/8/2024

PROJECT NO.	14012
FILE NAME	14012 TITLE & DETAILS
DRAWN BY	KDS/JD
DESIGNED BY	CJB/KDS
REVIEWED BY	CJB/KDS
ISSUE DATE	7-27-16
CLIENT PROJECT NO.	-

TITLE

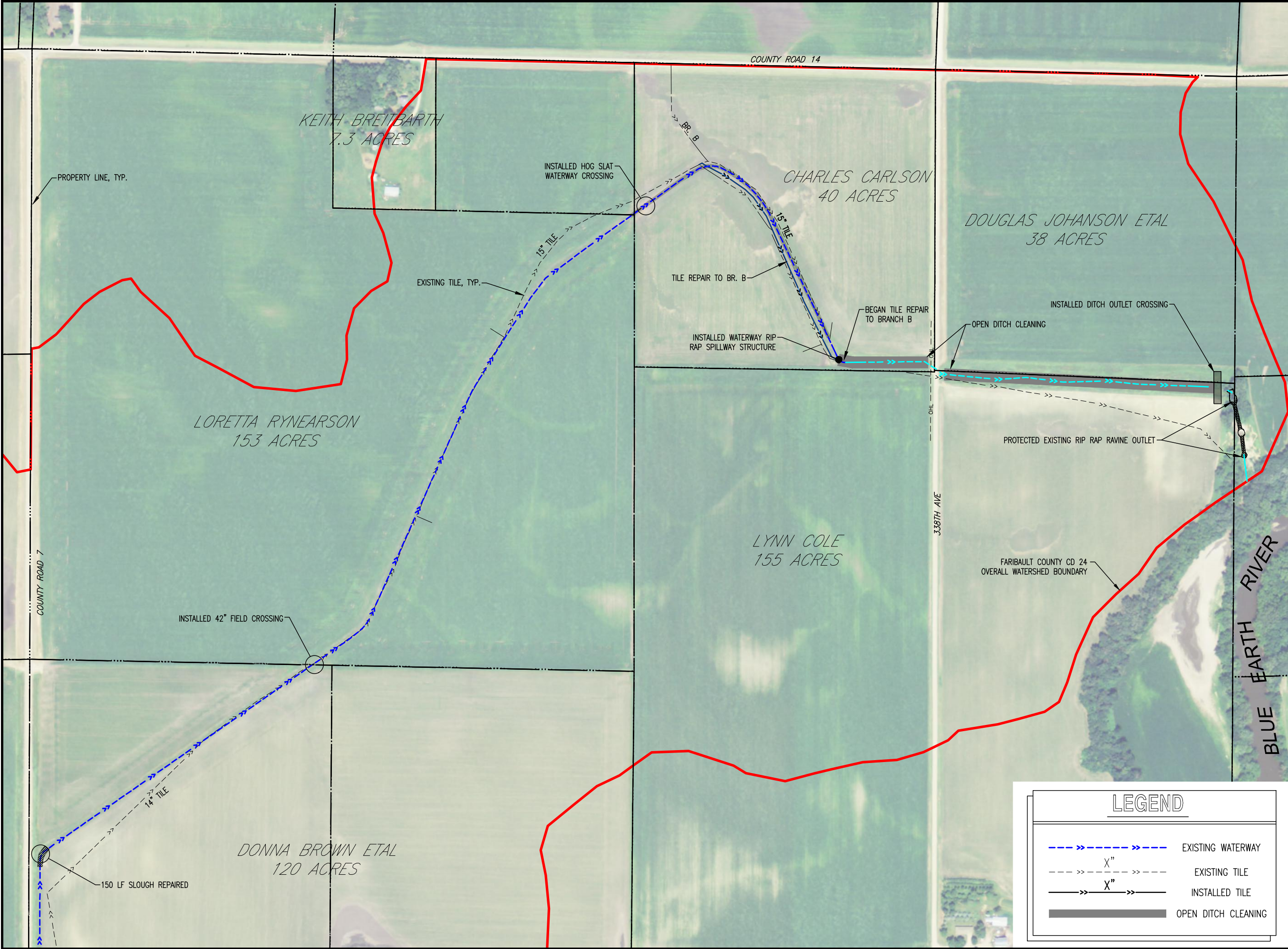
**OVERALL
WATERSHED**

SHEET

2 OF 17

LEGEND

- >>>--- EXISTING WATERWAY
- - ->>>- - - X" EXISTING TILE



KEY PLAN Scale:

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PROJECT

FARIBAULT COUNTY

**COUNTY DITCH No. 24
GRASSED WATERWAY
REPAIRS**

WINNEBAGO CITY, TWP MINNESOTA

REVISION SCHEDULE		
NO	DATE	DESCRIPTION
3	11-20-16	CHANGE LABEL TO 42" RCP CROSSING

AS-BUILT 1/8/2024

PROJECT NO.	14012
FILE NAME	14012 TITLE & DETAILS
DRAWN BY	JD
DESIGNED BY	CJB/KDS
REVIEWED BY	CJB/KDS
ISSUE DATE	7-27-16
CLIENT PROJECT NO.	-

TITLE

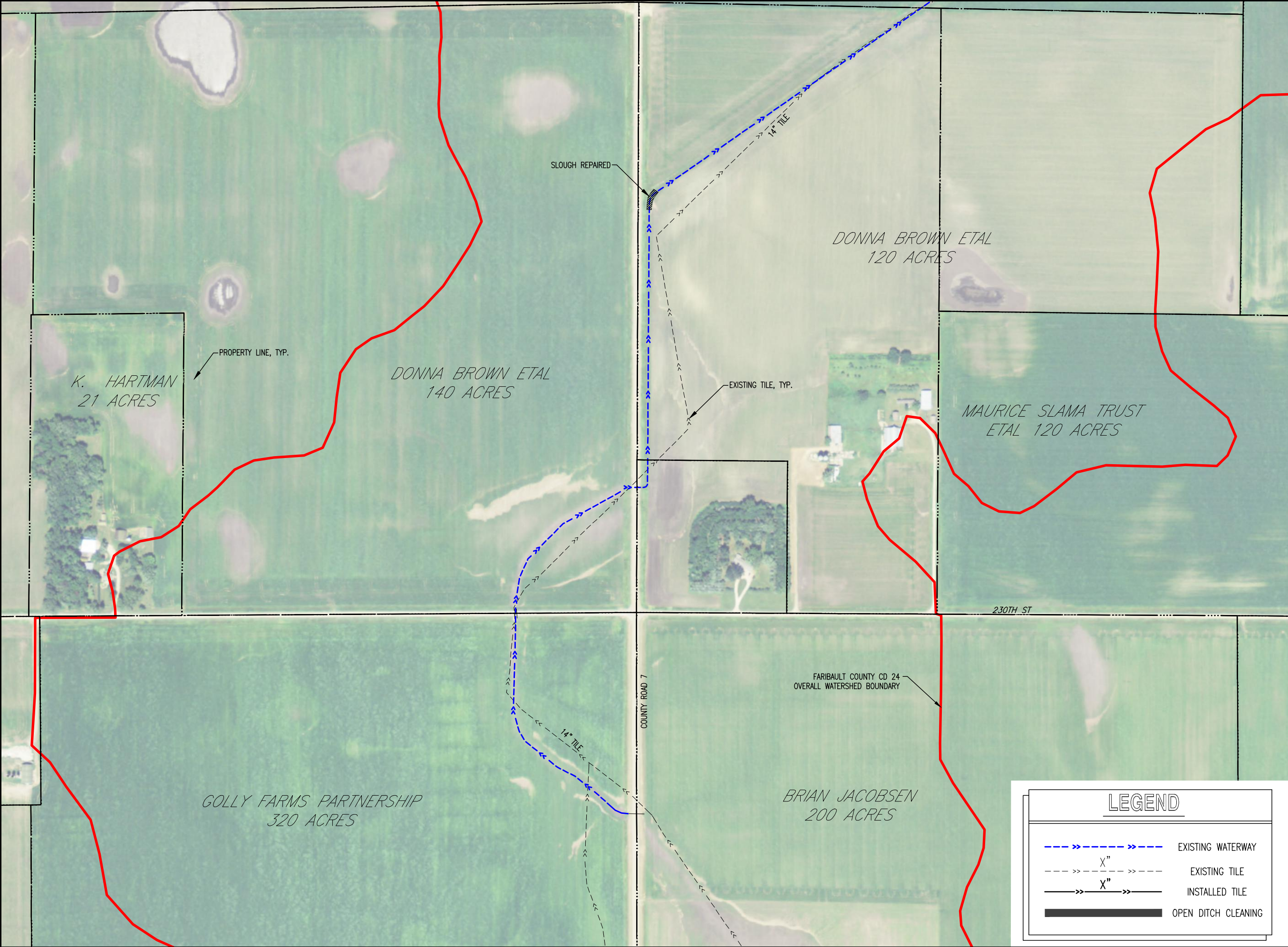
**WATERWAY
REPAIR PLAN**

SHEET

3 OF 17

LEGEND

- EXISTING WATERWAY
- EXISTING TILE
- INSTALLED TILE
- OPEN DITCH CLEANING



KEY PLAN Scale:

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PROJECT

FARIBAUT COUNTY

**COUNTY DITCH No. 24
GRASSED WATERWAY
REPAIRS**

WINNEBAGO CITY, TWP MINNESOTA

REVISION SCHEDULE		
NO	DATE	DESCRIPTION

AS-BUILT 1/8/2024

PROJECT NO.	14012
FILE NAME	14012 TITLE & DETAILS
DRAWN BY	JD
DESIGNED BY	CJB/KDS
REVIEWED BY	CJB/KDS
ISSUE DATE	7-27-16
CLIENT PROJECT NO.	-

TITLE

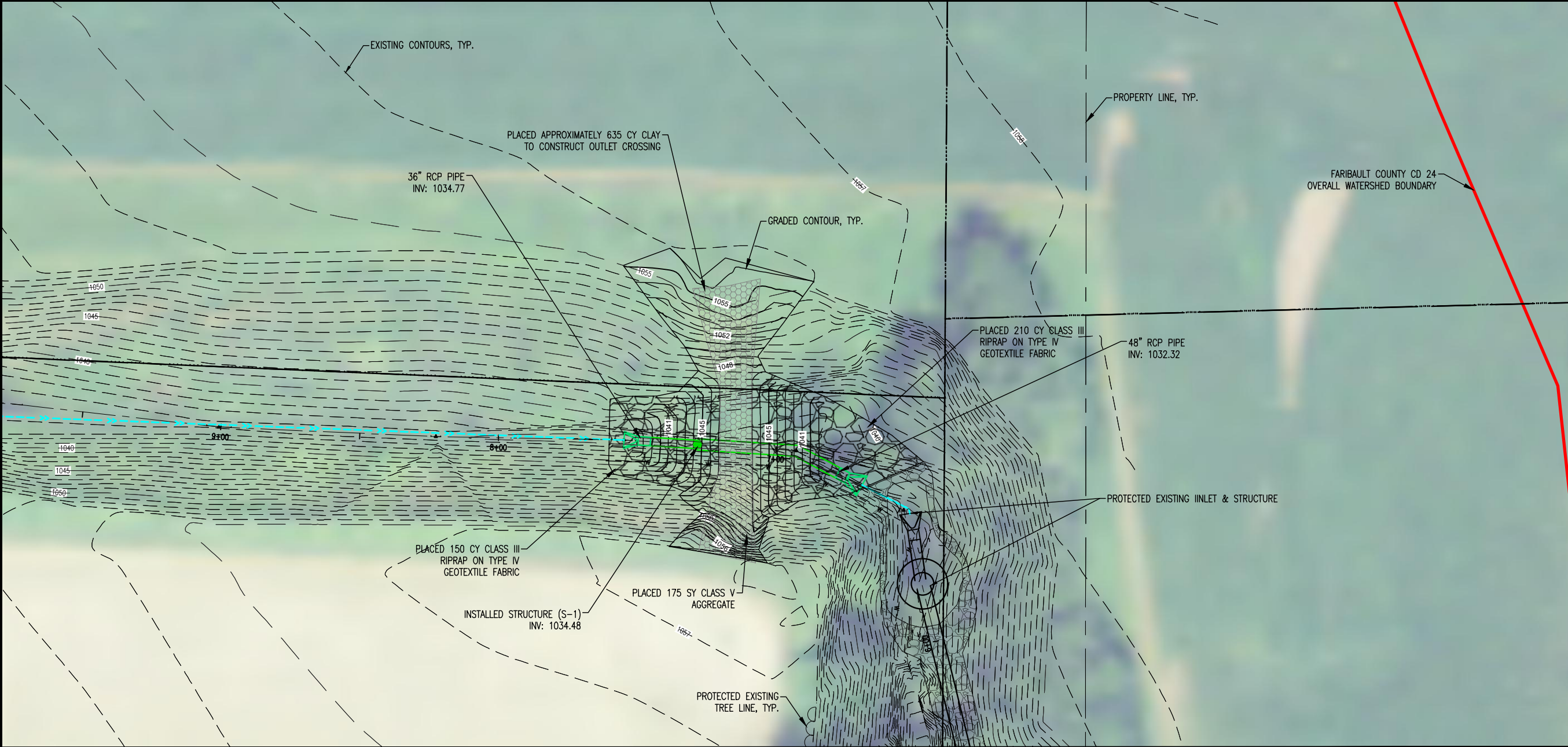
**WATERWAY
REPAIR PLAN**

SHEET

4 OF 17

LEGEND

- EXISTING WATERWAY
-



N

0 20 40

0 10 20

Vertical

Scale:

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DATE: L.C. NO.

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PROJECT

FARIBAULT COUNTY

COUNTY DITCH No. 24

GRASSED WATERWAY REPAIRS

WINNEBAGO CITY, TWP MINNESOTA

REVISION SCHEDULE		
NO	DATE	DESCRIPTION
1	8-8-16	36" RCP APRON ADDED
5	11-20-16	INLET PIPE CHANGED TO 42"

AS-BUILT 1/8/2024

PROJECT NO.	14012
FILE NAME	14012 OPEN DITCH CROSSING
DRAWN BY	JRR
DESIGNED BY	CJB/KDS
REVIEWED BY	CJB
ISSUE DATE	7-27-16
CLIENT PROJECT NO.	-

TITLE

OPEN DITCH CROSSING PLAN & PROFILE

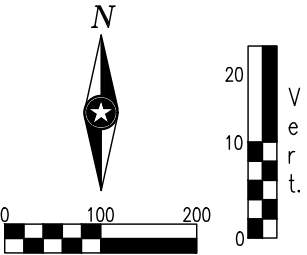
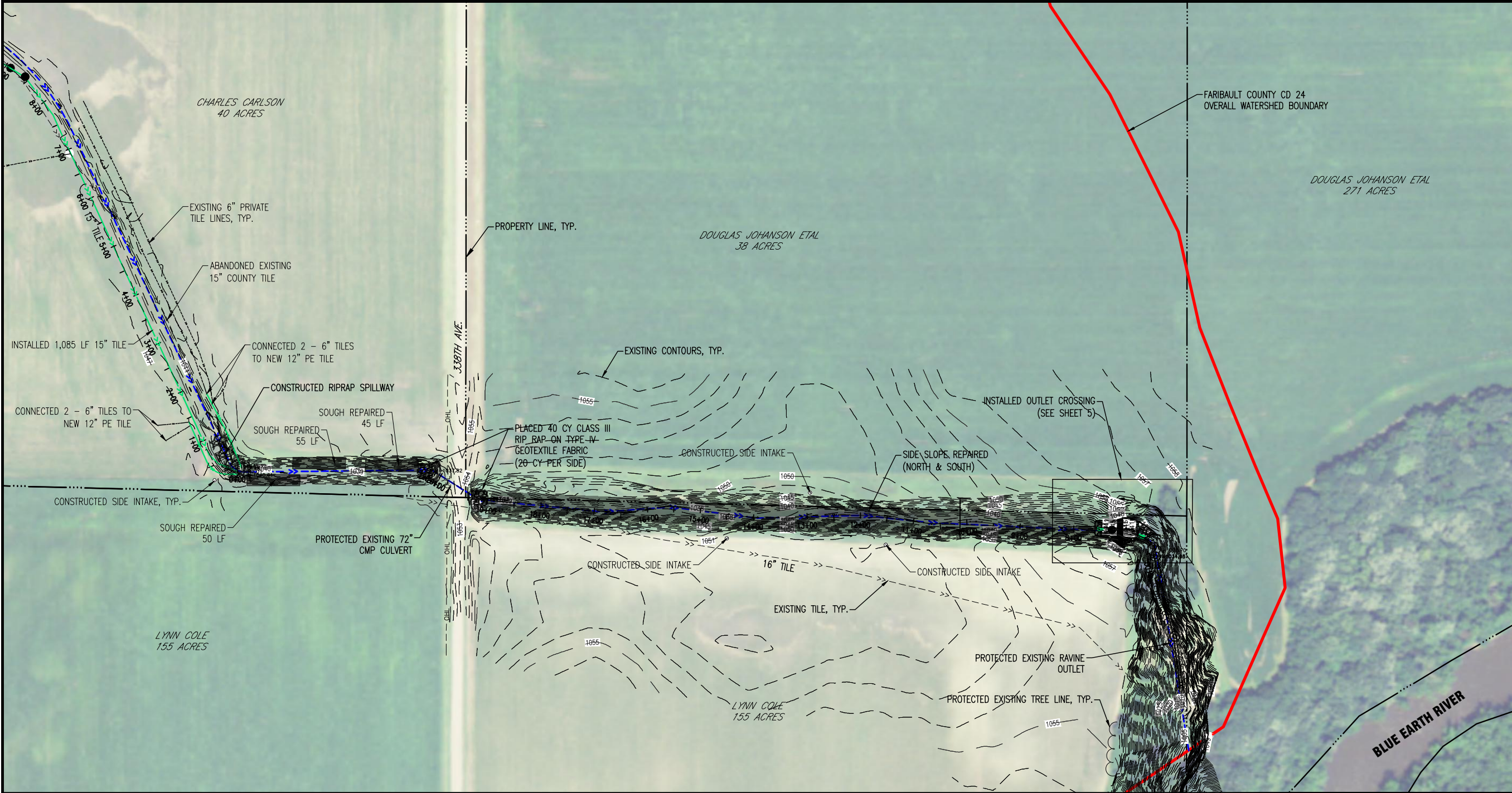
SHEET

5

OF 17

DOUGLAS JOHANSON ETAL (N) / LYNN COLE (S)

XXXXXX - EXISTING GROUND & ELEVATION
XXXXXX - INSTALLED DITCH OR INVERT ELEVATION



Scale:

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Charles J. Brandel
DATE 1/8/2024 LIC. NO. 43359

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PROJECT

**FARIBAULT COUNTY
COUNTY DITCH No. 24
GRASSED WATERWAY
REPAIRS**

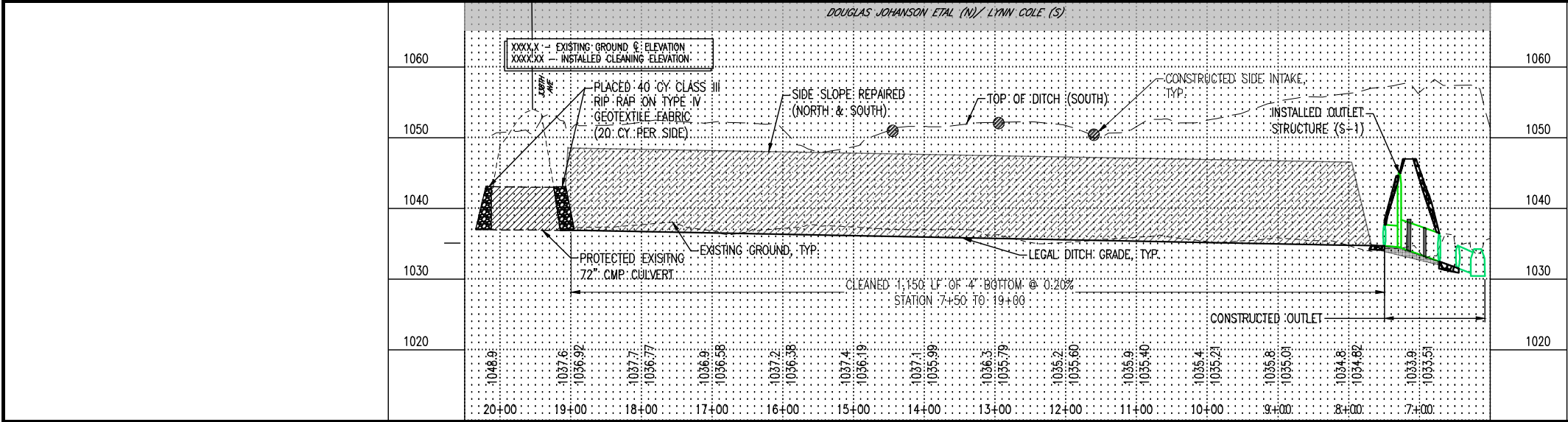
WINNEBAGO CITY, TWP MINNESOTA

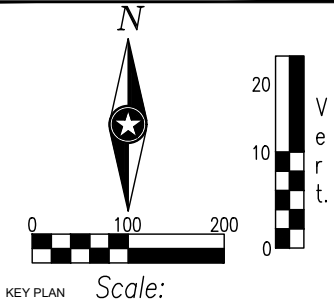
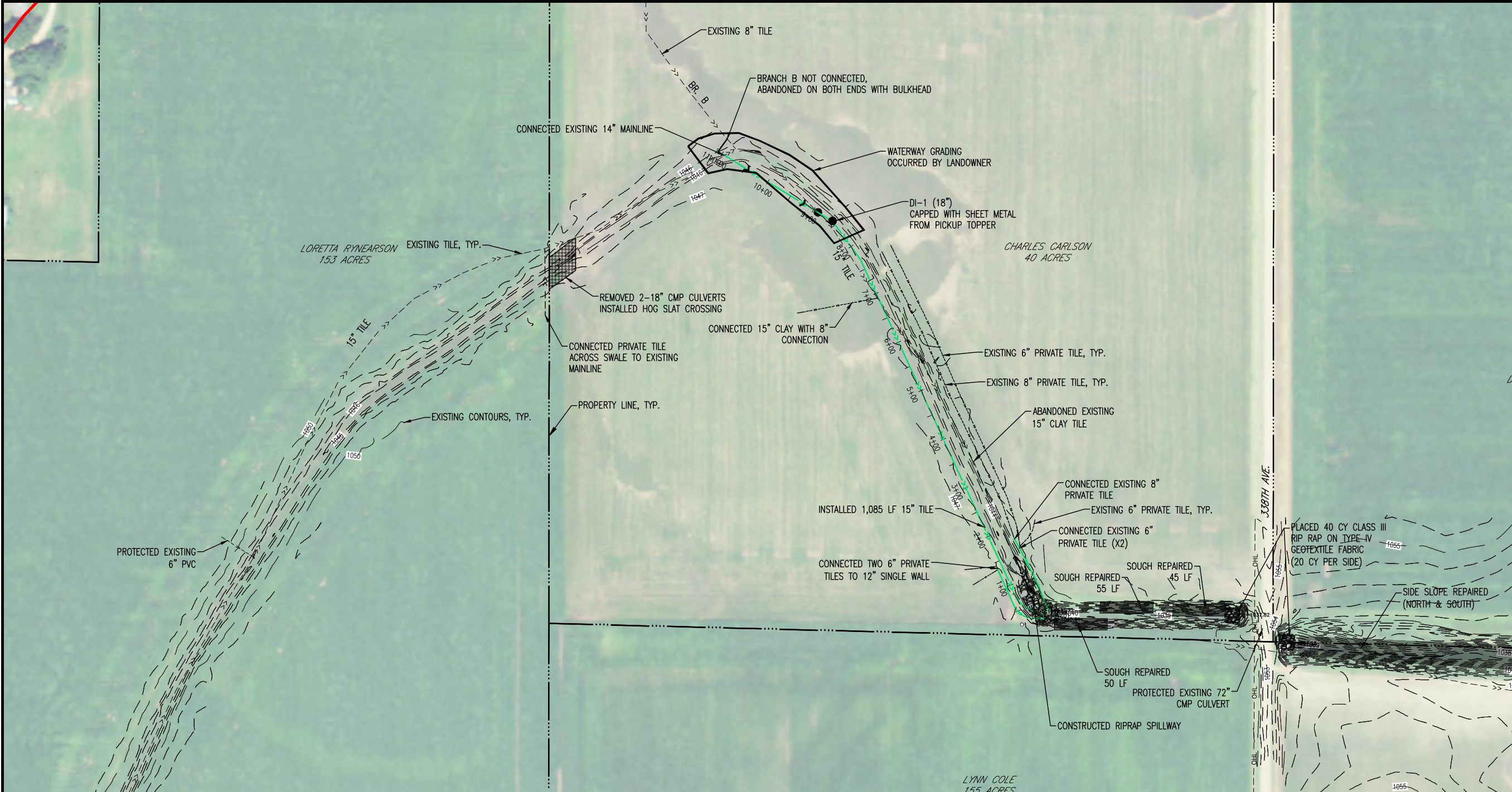
REVISION SCHEDULE		
NO	DATE	DESCRIPTION

AS-BUILT 1/8/2024

PROJECT NO.	14012
FILE NAME	14012 WATERWAY-PROF-AB
DRAWN BY	JRR
DESIGNED BY	CJB/KDS
REVIEWED BY	CJB/KDS
ISSUE DATE	7-27-16
CLIENT PROJECT NO.	-

**OPEN DITCH
REPAIR PLAN &
PROFILE**





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PROJECT

FARIBAUT COUNTY

COUNTY DITCH No. 24

GRASSED WATERWAY REPAIRS

WINNEBAGO CITY, TWP MINNESOTA

REVISION SCHEDULE		
NO	DATE	DESCRIPTION
1	12-21-16	ALIGNMENT MOVE TO WEST SIDE

AS-BUILT 1/8/2024

PROJECT NO. 14012

FILE NAME 14012 WATERWAY-PROF-AB

DRAWN BY JD

DESIGNED BY CJB/KDS

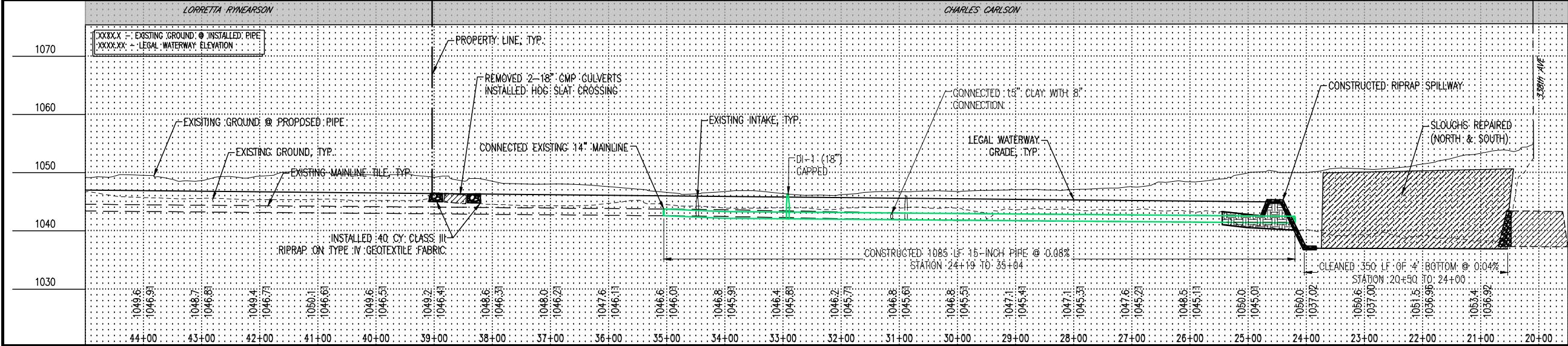
REVIEWED BY CJB/KDS

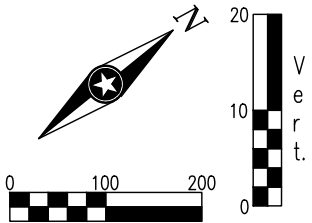
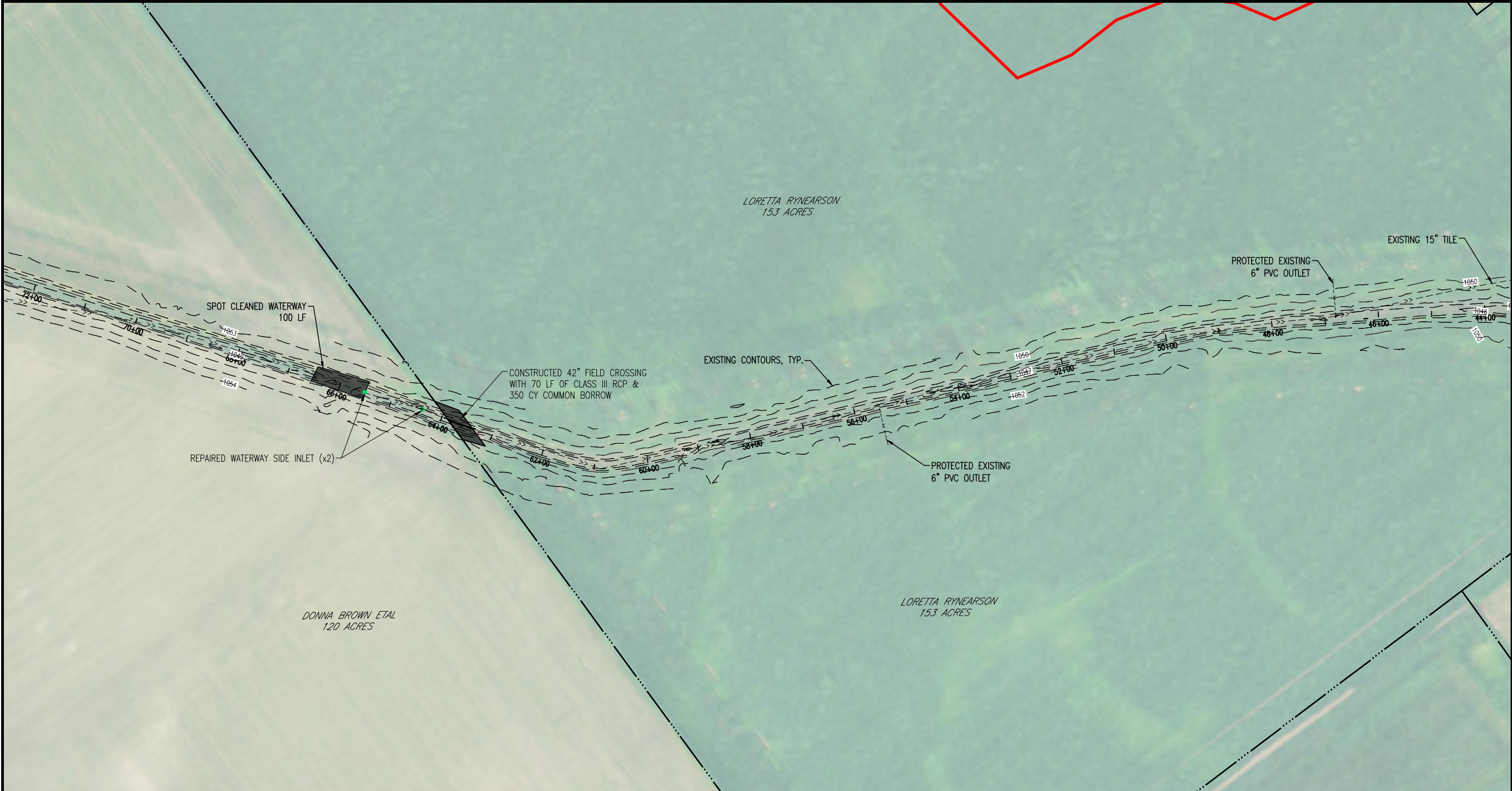
ISSUE DATE 7-27-16

CLIENT PROJECT NO. -

TITLE

OPEN DITCH REPAIR PLAN & PROFILE





Scale: 0 100 200
KEY PLAN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

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DATE: 1/8/2024 LIC. NO. 43359

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PROJECT

FARIBAUT COUNTY

**COUNTY DITCH No. 24
GRASSED WATERWAY
REPAIRS**

WINNEBAGO CITY, TWP MINNESOTA

REVISION SCHEDULE		
NO	DATE	DESCRIPTION
3	8-8-16	COMMON BORROW QUANTITY CHANGED

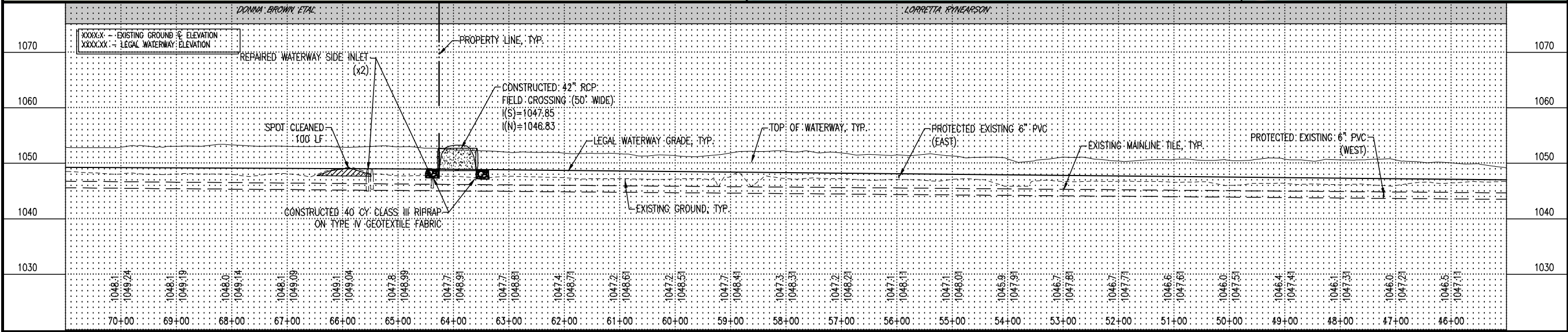
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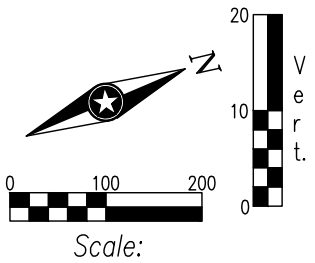
PROJECT NO.	14012
FILE NAME	14012 WATERWAY-PROF-AB
DRAWN BY	JD
DESIGNED BY	CJB/KDS
REVIEWED BY	CJB/KDS
ISSUE DATE	7-27-16
CLIENT PROJECT NO.	-

TITLE

**WATERWAY PLAN
& PROFILE**

SHEET
8 OF 17





KEY PLAN

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DATE _____ LIC. NO. _____

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PROJECT

FARIBAULT COUNTY
COUNTY DITCH No. 24
GRASSED WATERWAY
REPAIRS

WINNEBAGO CITY, TWP MINNESOTA

REVISION SCHEDULE		
NO	DATE	DESCRIPTION

AS-BUILT 1/8/2024

PROJECT NO.	14012
FILE NAME	14012 WATERWAY-PROF-AB
DRAWN BY	JD
DESIGNED BY	CJB/KDS
REVIEWED BY	CJB/KDS
ISSUE DATE	7-27-16
CLIENT PROJECT NO.	-

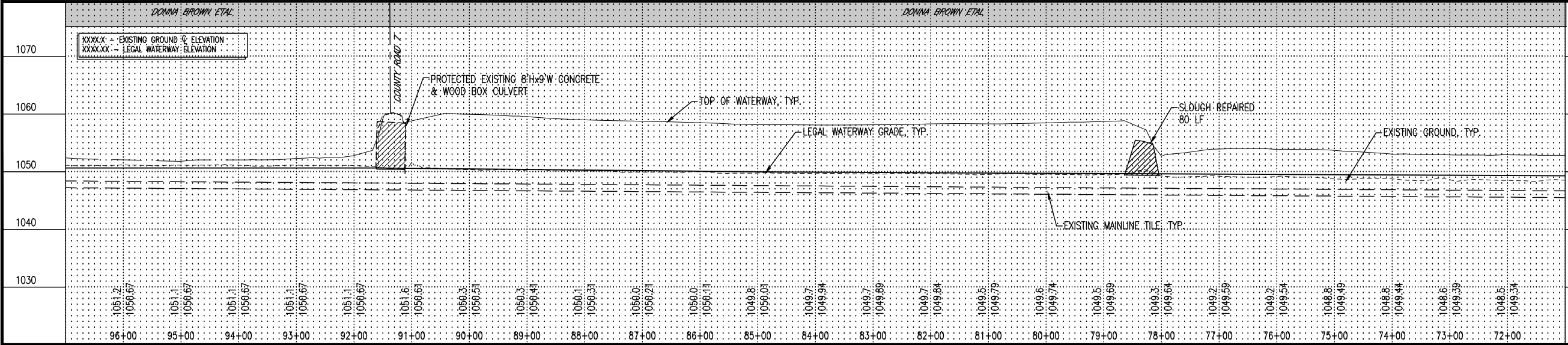
TITLE

WATERWAY PLAN
& PROFILE

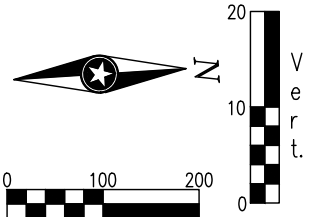
SHEET

9

OF 17



NOTE: NO WORK WAS COMPLETED WEST OF COUNTY ROAD 7



Scale:

KEY PLAN

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PROJECT

FARIBAUT COUNTY

**COUNTY DITCH No. 24
GRASSED WATERWAY
REPAIRS**

WINNEBAGO CITY, TWP MINNESOTA

REVISION SCHEDULE		
NO	DATE	DESCRIPTION

AS-BUILT 1/8/2024

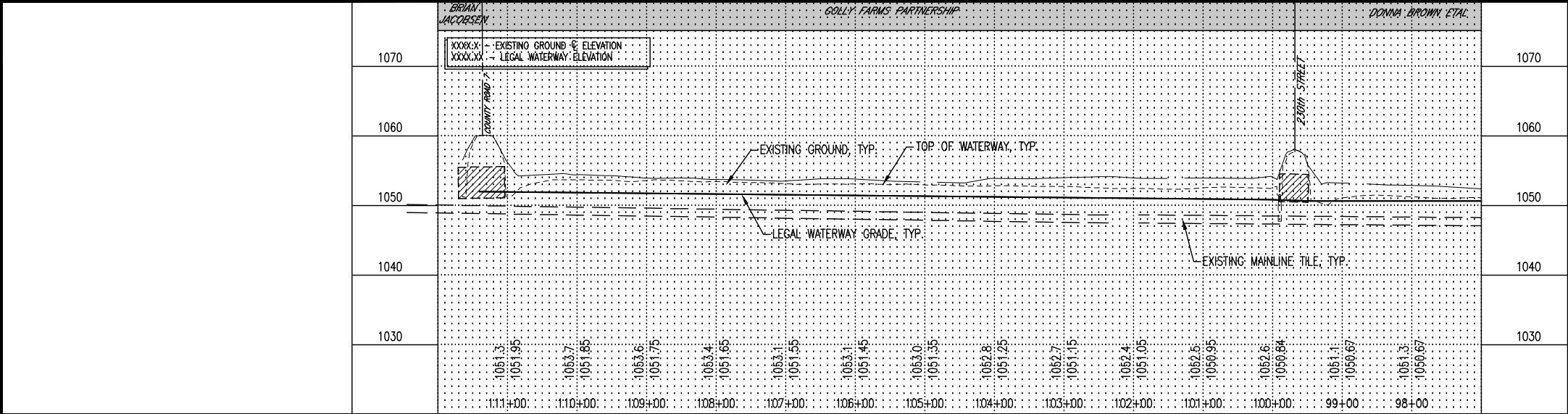
PROJECT NO.	14012
FILE NAME	14012 WATERWAY-PROF-AB
DRAWN BY	JD
DESIGNED BY	CJB/KDS
REVIEWED BY	CJB/KDS
ISSUE DATE	7-27-16
CLIENT PROJECT NO.	-

TITLE

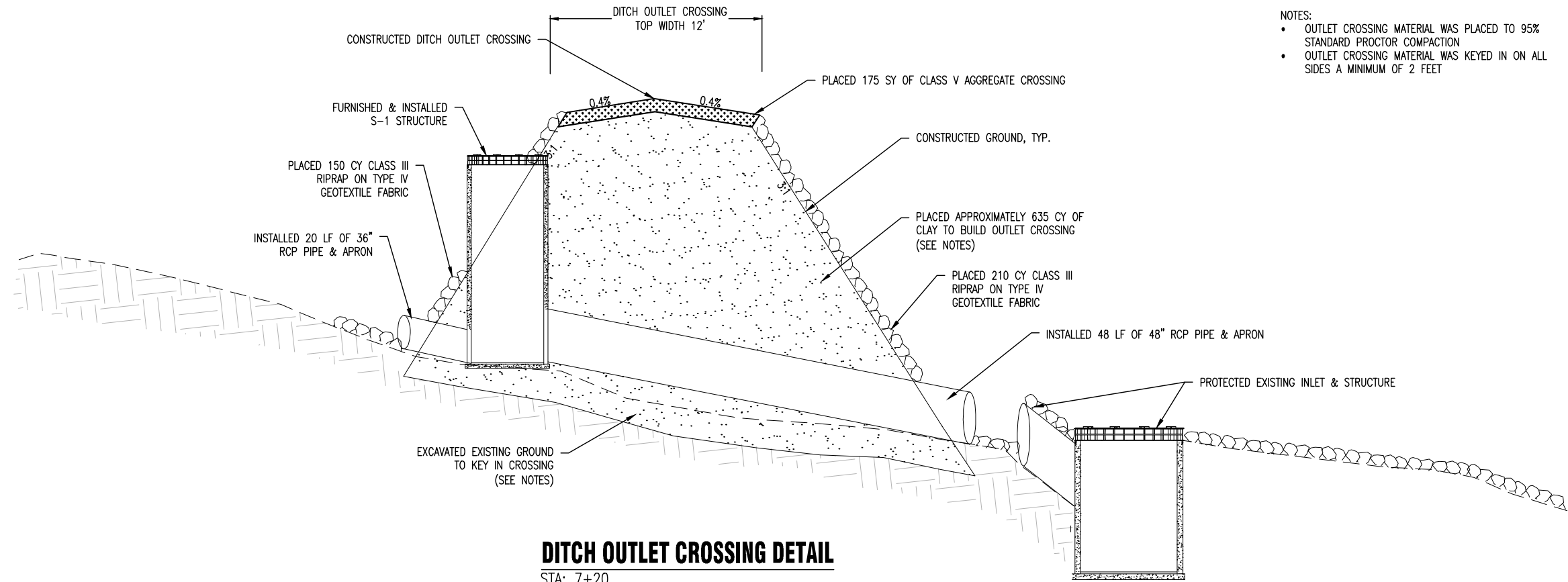
**WATERWAY PLAN
& PROFILE**

SHEET

10 OF 17



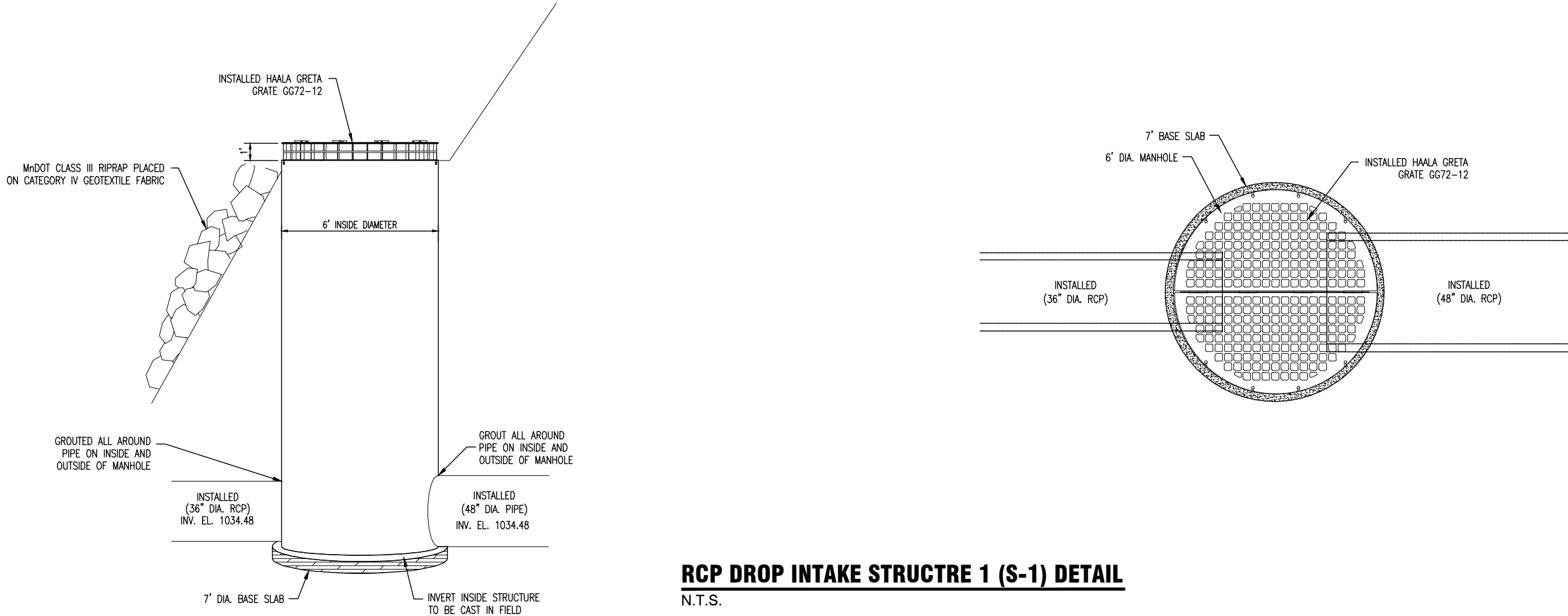
NOTE: NO WORK WAS COMPLETED WEST OF COUNTY ROAD 7



- NOTES:
- OUTLET CROSSING MATERIAL WAS PLACED TO 95% STANDARD PROCTOR COMPACTION
 - OUTLET CROSSING MATERIAL WAS KEYED IN ON ALL SIDES A MINIMUM OF 2 FEET

DITCH OUTLET CROSSING DETAIL

STA: 7+20
N.T.S.



RCP DROP INTAKE STRUCTRE 1 (S-1) DETAIL

N.T.S.



KEY PLAN

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PROJECT

FARIBAUT COUNTY

**COUNTY DITCH No. 24
GRASSED WATERWAY
REPAIRS**

WINNEBAGO CITY, TWP MINNESOTA

REVISION SCHEDULE		
NO	DATE	DESCRIPTION
2	8-8-16	36" APRON ADDED TO INLET
3	11-20-16	CHANGE INLET PIPE TO 42" WITH APRON

AS-BUILT 1/8/2024

PROJECT NO.	14012
FILE NAME	14012 TITLE & DETAILS
DRAWN BY	JD/JRR
DESIGNED BY	CJB/KDS
REVIEWED BY	CJB/KDS
ISSUE DATE	7-27-16
CLIENT PROJECT NO.	-

TITLE

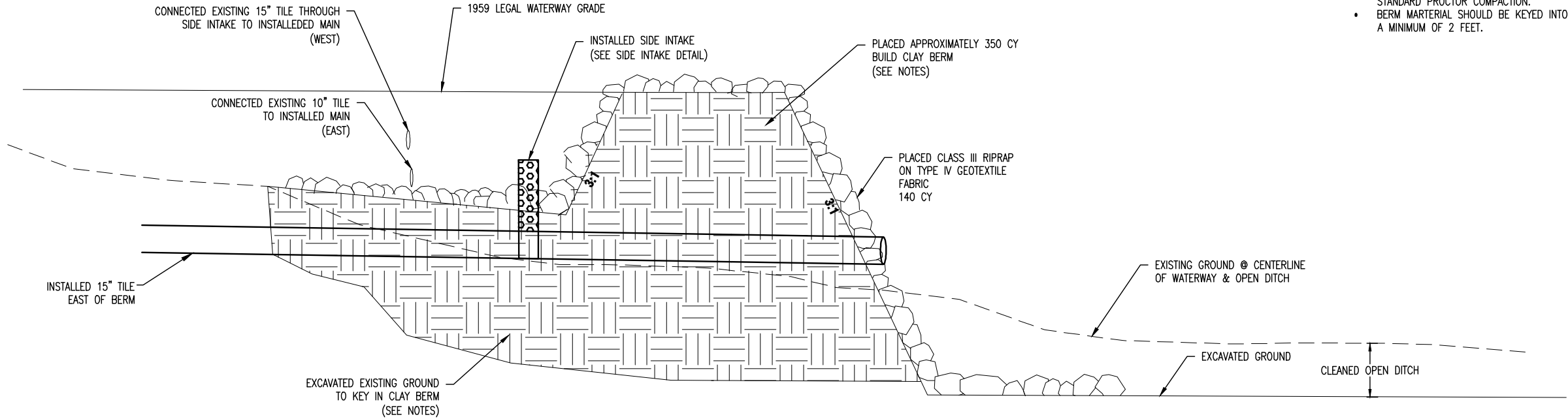
**OPEN DITCH
CROSSING
DETAILS**

SHEET

11 OF 17

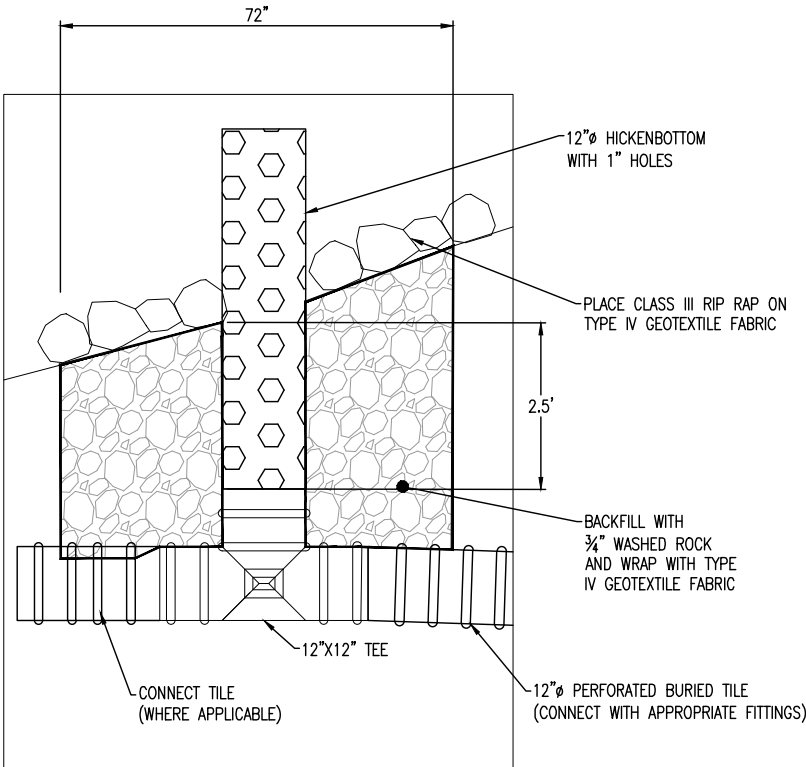


- NOTES:
- BERM MATERIAL SHOULD BE PLACED TO 95% STANDARD PROCTOR COMPACTION.
 - BERM MATERIAL SHOULD BE KEYED INTO ALL SIDES A MINIMUM OF 2 FEET.



RIP RAP SPILLWAY DETAIL

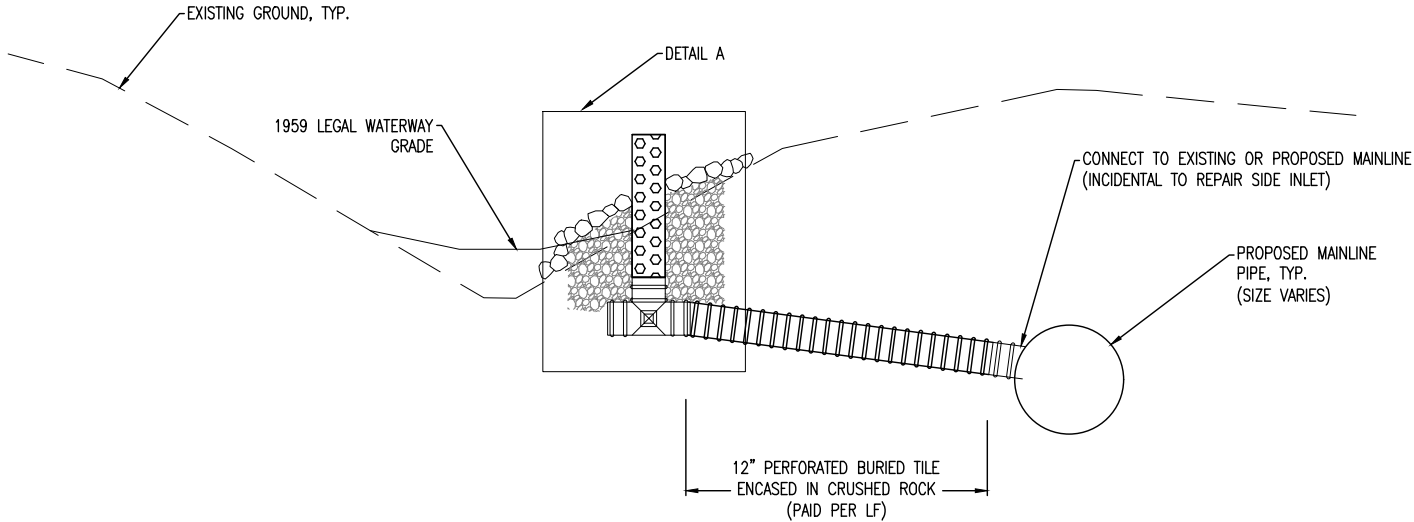
STA: 25+00
N.T.S.



DETAIL A

NTS

NOTE: WHERE REPAIR SIDE INLET IS CALLED OUT, DETAIL A SHALL BE USED AS THE REPAIR. ALL CONNECTIONS TO THE EXISTING MAINLINE SHALL USE APPROPRIATE FITTINGS, (INCIDENTAL).



WATERWAY SIDE INLET DETAIL

NTS

KEY PLAN

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PROJECT

FARIBAULT COUNTY

**COUNTY DITCH No. 24
GRASSED WATERWAY
REPAIRS**

WINNEBAGO CITY, TWP MINNESOTA

REVISION SCHEDULE		
NO	DATE	DESCRIPTION

AS-BUILT 1/8/2024

PROJECT NO.	14012
FILE NAME	14012 TITLE & DETAILS
DRAWN BY	JD
DESIGNED BY	CJB/KDS
REVIEWED BY	CJB/KDS
ISSUE DATE	7-27-16
CLIENT PROJECT NO.	-

TITLE

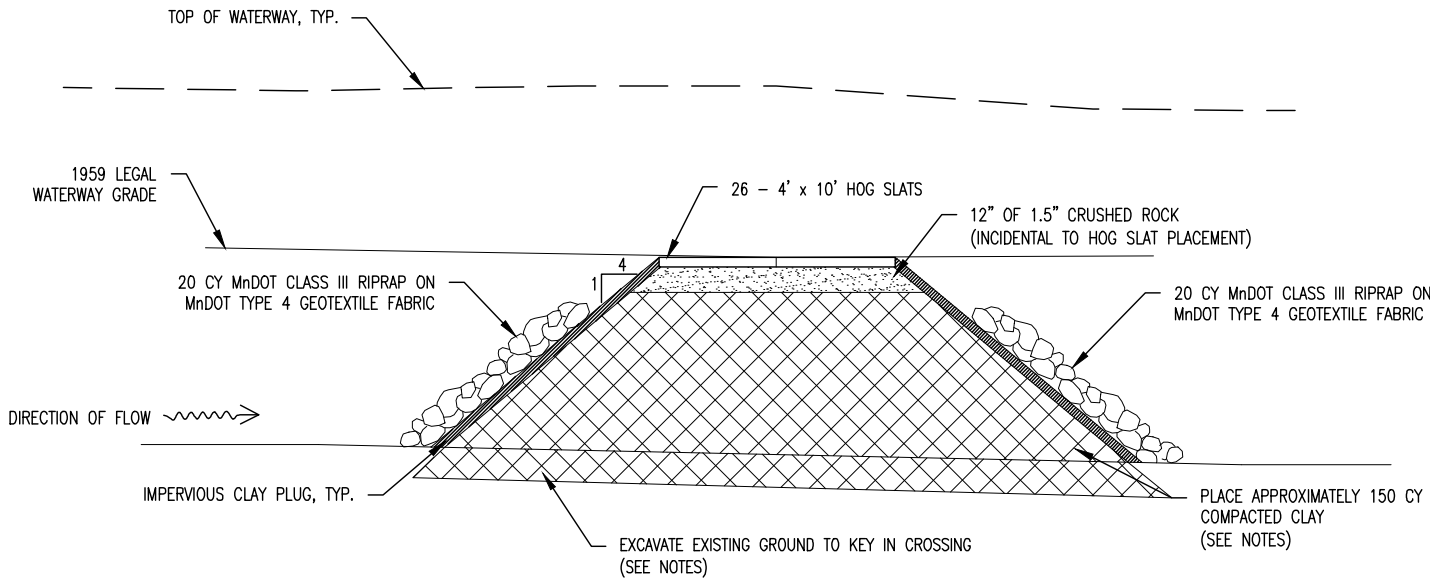
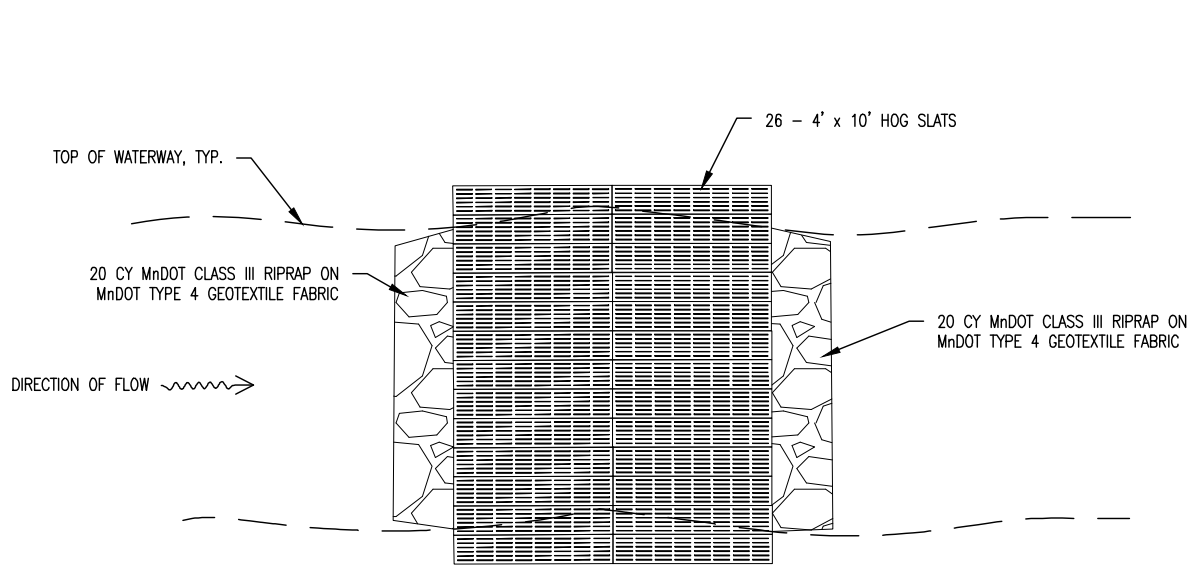
**RIPRAP
SPILLWAY & SIDE
INTAKE DETAILS**

SHEET

12 OF 17

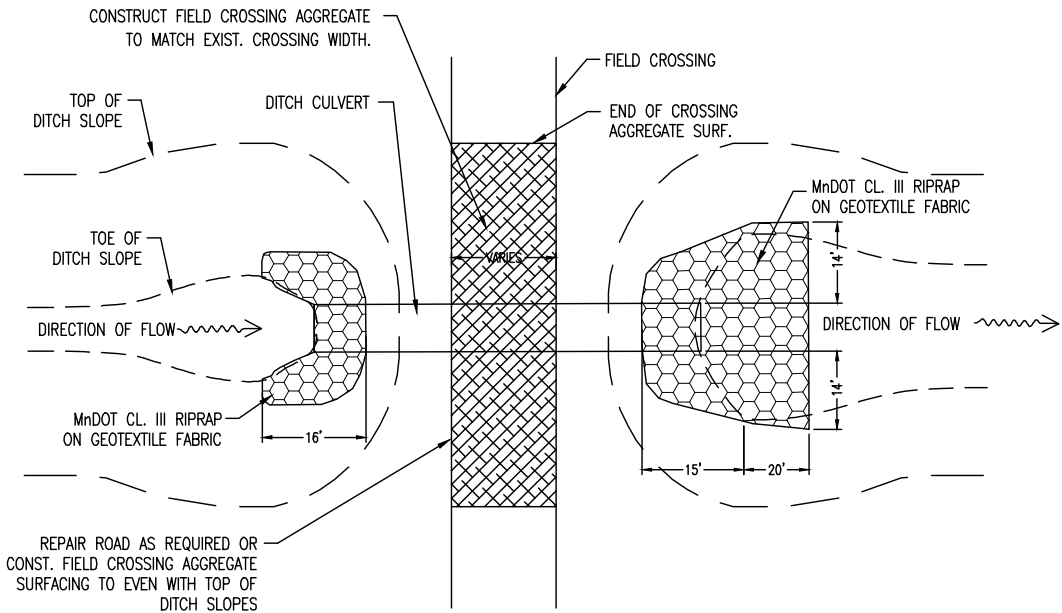


- NOTES:
- MATERIAL WAS PLACED TO 95% STANDARD PROCTOR COMPACTION.
 - MARTERIAL WAS KEYED INTO ALL SIDES A MINIMUM OF 2 FEET.



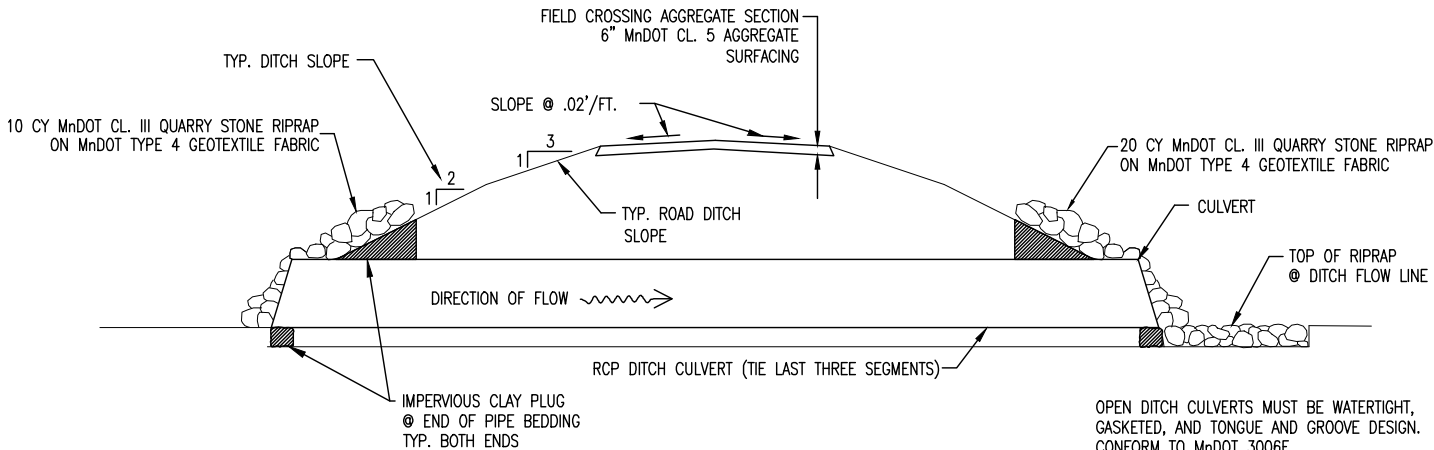
HOG SLAT CROSSING

STA: 38+88
N.T.S.



TYPICAL FIELD CROSSING

N.T.S.



TYPICAL GRAVEL ROAD AND FIELD CROSSING SECTION

N.T.S.

KEY PLAN

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CHARLES J. BRANDEL

DATE 1/8/2024 LIC. NO. 43359

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DATE LIC. NO.

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PROJECT

FARIBAUT COUNTY

**COUNTY DITCH No. 24
GRASSED WATERWAY
REPAIRS**

WINNEBAGO CITY, TWP MINNESOTA

REVISION SCHEDULE		
NO	DATE	DESCRIPTION

AS-BUILT 1/8/2024

PROJECT NO.	14012
FILE NAME	14012 TITLE & DETAILS
DRAWN BY	JRR
DESIGNED BY	CJB/KDS
REVIEWED BY	CJB/KDS
ISSUE DATE	7-27-16
CLIENT PROJECT NO.	-

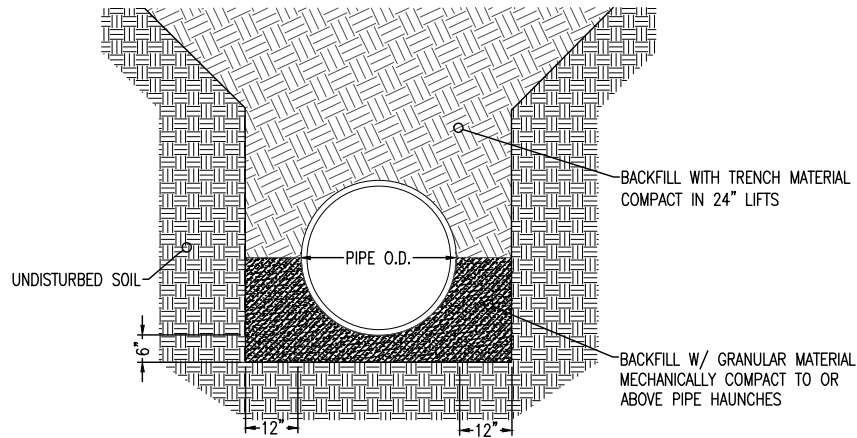
TITLE

**CROSSING
DETAILS**

SHEET

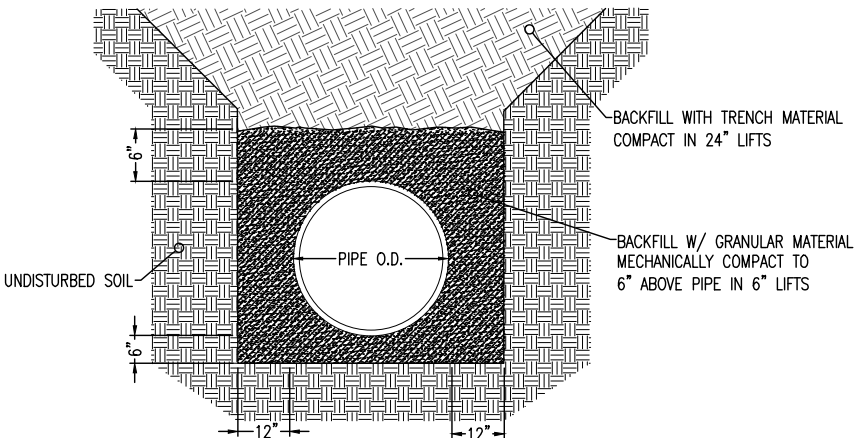
13 OF 17

NOTE: 1.) GRANULAR BEDDING AND BACKFILL SHALL BE INCIDENTAL TO CONSTRUCTION



RCP FLAT BOTTOM TRENCH BEDDING DETAIL
N.T.S.

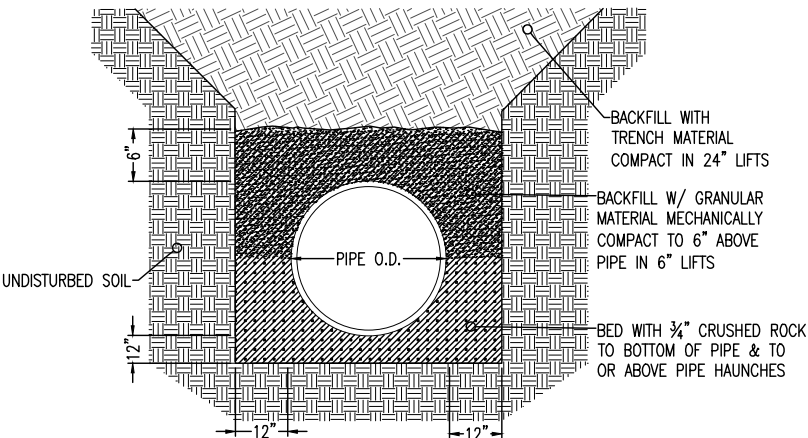
NOTE: 1.) GRANULAR BEDDING AND BACKFILL SHALL BE INCIDENTAL TO CONSTRUCTION



HDPE FLAT BOTTOM TRENCH BEDDING DETAIL
N.T.S.

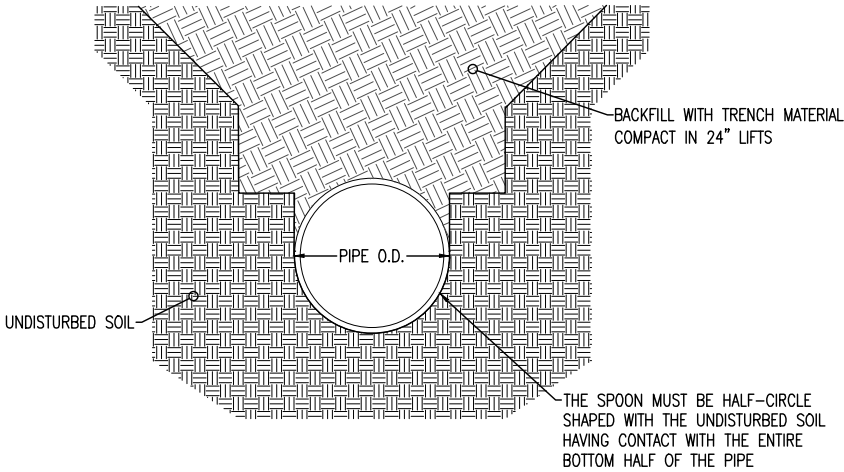
****METHOD USED DURING CONSTRUCTION****

NOTE: 2.) GRANULAR BEDDING AND BACKFILL SHALL BE INCIDENTAL TO CONSTRUCTION
CRUSHED ROCK FOUNDATION PAID FOR BY CUBIC YARD ONLY WHERE NEEDED
AND APPROVED BY ENGINEER.



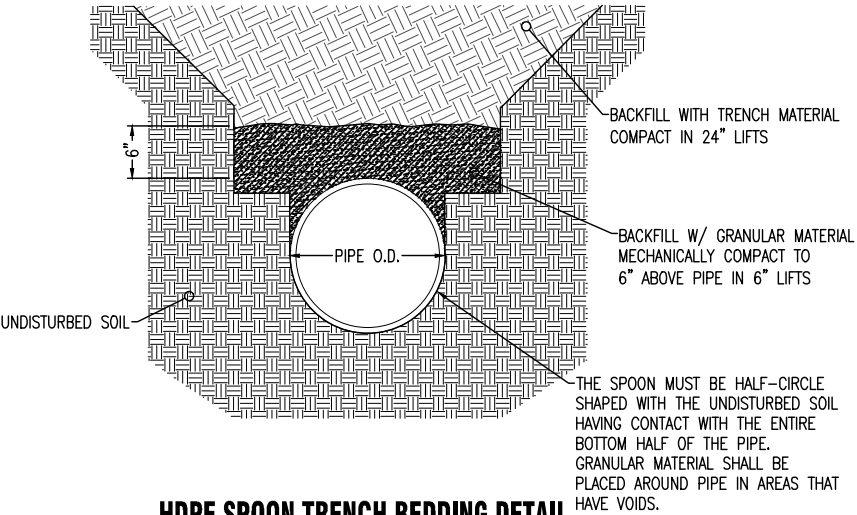
HDPE FLAT BOTTOM TRENCH WITH CRUSHED ROCK FOUNDATION
N.T.S.

NOTE: 1.) GRANULAR BEDDING AND BACKFILL SHALL BE INCIDENTAL TO CONSTRUCTION



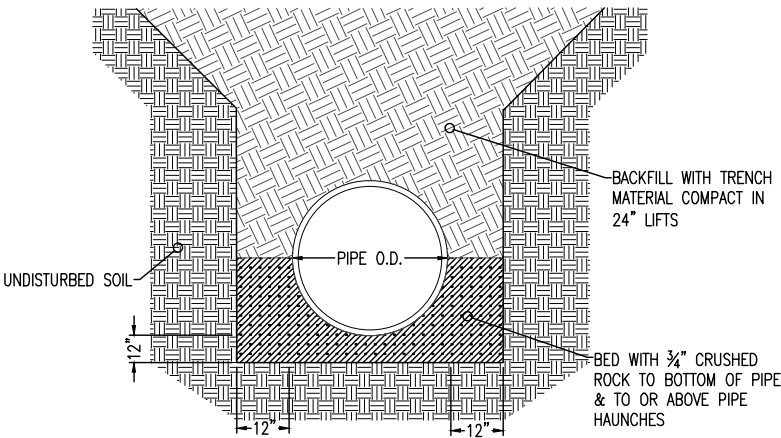
RCP SPOON TRENCH BEDDING DETAIL
N.T.S.

NOTE: 1.) GRANULAR BEDDING AND BACKFILL SHALL BE INCIDENTAL TO CONSTRUCTION



HDPE SPOON TRENCH BEDDING DETAIL
N.T.S.

NOTE: 2.) GRANULAR BEDDING AND BACKFILL SHALL BE INCIDENTAL TO CONSTRUCTION
CRUSHED ROCK FOUNDATION PAID FOR BY CUBIC YARD ONLY WHERE NEEDED
AND APPROVED BY ENGINEER.



RCP FLAT BOTTOM TRENCH WITH CRUSHED ROCK FOUNDATION
N.T.S.



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CHARLES J. BRANDEL
Charles J. Brandel

DATE: 1/8/2024 LIC. NO.: 43359

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DATE: LIC. NO.:

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PROJECT

FARIBAUT COUNTY

**COUNTY DITCH No. 24
GRASSED WATERWAY
REPAIRS**

WINNEBAGO CITY, TWP MINNESOTA

REVISION SCHEDULE		
NO	DATE	DESCRIPTION

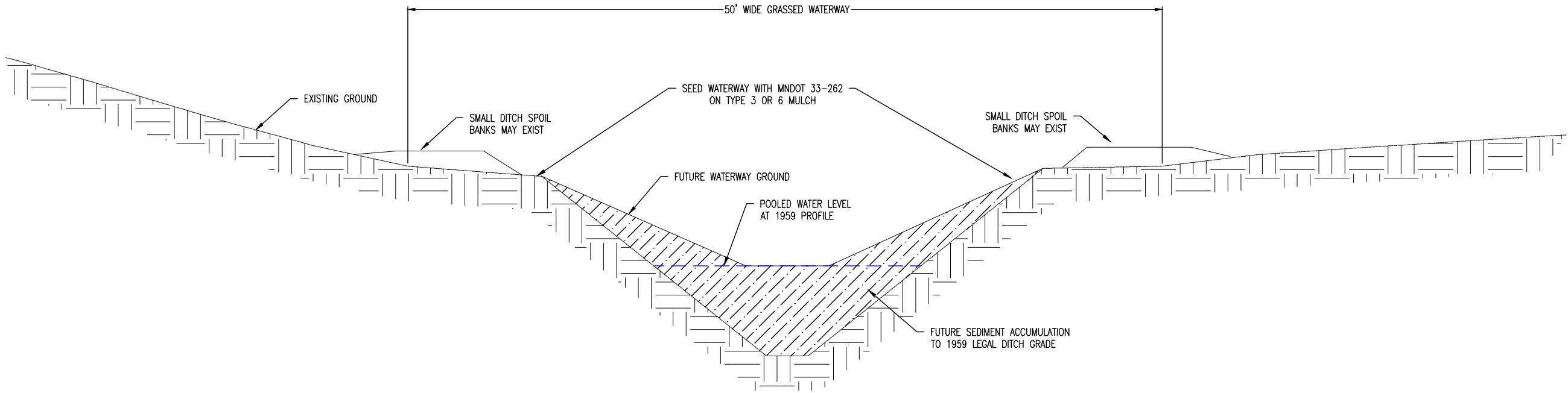
AS-BUILT 1/8/2024

PROJECT NO.	14012
FILE NAME	14012 TITLE & DETAILS
DRAWN BY	JD
DESIGNED BY	CJB/KDS
REVIEWED BY	CJB/KDS
ISSUE DATE	7-27-16
CLIENT PROJECT NO.	-

TITLE

**BEDDING
DETAILS**

SHEET



TYPICAL WATERWAY SEEDING CROSS-SECTION

STA: 91+72 TO 110+97
N.T.S.



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SEDDING DETAILS

SHEET

NOTES:

1.) DROP INTAKES CAN BE CONSTRUCTED WITH HDPE DUAL WALL AND WILL BE PAID FOR BY EACH AND NO ADDITIONAL COMPENSATION WILL BE MADE FOR IN-FIELD ELEVATIONS THAT VARY FROM THE PLANS. CUT SURFACE INTAKES TO 8" ABOVE GRADE (SHEET 18). MINOR SHAPING AROUND DROP INTAKES AND CULVERT INLETS SHALL BE INCIDENTAL TO THESE RESPECTIVE PAY ITEMS. INTAKE CAPS MAY BE SUBSTITUTED FOR TRASH GRATES IN AREAS THAT WILL NOT TAKE SURFACE FLOW, AS DETERMINED BY THE ENGINEER.

2.) AT CROSSINGS OF EXISTING TILE, ONLY THE UPSTREAM SIDE NEED BE CONNECTED, UNLESS OTHERWISE NOTED. EACH CROSSING WILL BE PAID FOR AS ONE CONNECTION. ALL BENDS, TEES, OTHER FITTINGS, AND ROCK NECESSARY FOR CONNECTION SHALL BE INCIDENTAL TO CONNECTION BID ITEM.

3.) UNLESS OTHERWISE NOTED, ALL HDPE BENDS AND FITTINGS SHALL BE INCIDENTAL TO THE TILE PAY ITEMS, AND MUST BE BANDED WITH FABRIC & SURROUNDED WITH CRUSHED ROCK.

4.) UNLESS OTHERWISE NOTED, CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITY TO WITHIN A 100-FOOT WIDE SWATH ALONG PROPOSED TILE ALIGNMENTS AND 50-FOOT ALONG EXISTING OPEN DITCH & WATERWAY. THE SWATH NEED NOT BE CENTERED ON THE TILE. ALL ACCESS ROADS SHALL FOLLOW THE PROPOSED ALIGNMENTS. THE SWATH SHALL NOT DISTURB ANY NON-AGRICULTURAL PRIVATE PROPERTY. DISTURBANCE THROUGH ROAD CROSSINGS, ROAD DITCHES, AND GRASS BUFFERS SHALL BE LIMITED TO THE WIDTH OF A TRENCH NECESSARY FOR SAFE CONSTRUCTION PRACTICES, AND MUST BE RESEEDD WHERE NEEDED.

5.) HDPE DUAL WALL AND CLASS III RCP ARE THE ONLY ACCEPTABLE MATERIALS FOR ALL PROPOSED BURIED MAINLINE TILE. REFER TO ASTM F2881, AASHTO M 294-15, AND ASTM D2321-11 SPECIFICATIONS FOR PROPER INSTALLATION REQUIREMENTS.

6.) ALL EFFORTS SHALL BE MADE DURING CONSTRUCTION TO SEPARATE SOIL TYPES. TOPSOIL SHALL BE REPLACED BACK ON TOP OF COMPACTED BACKFILL AND TOP TWO (2) FEET SHALL BE LEFT UNCOMPACTED AS MUCH AS POSSIBLE. EXCAVATED SPOILS SHALL BE SPREAD EVENLY IN CONSTRUCTION AREA AS TO NOT IMPEDE DRAINAGE. ALL EFFORTS SHALL BE MADE TO KEEP TOPSOIL ON TOP & RESTORE THE SITE TO THE PRE-CONSTRCTIION STATE.

7.) DURING CONSTRUCTION, CONTRACTOR SHALL ALWAYS MAINTAIN A DRAINAGE OUTLET FOR THE ENTIRE CD 24 SYSTEM.

8.) ALL PRIVATE TILE CONNECTIONS SHALL BE DONE WITH FABRICATED TEES, INSERTA TEE CONNECTIONS OR APPROVED EQUAL. CONNECTING TILE SHALL MATCH EXISTING TYPE, SIZE AND SLOPE. (P.E. TILE WILL BE ALLOWED FOR CONC. & CLAY TILE CONNECTIONS)

9.) VERIFY LOCATIONS AND ELEVATIONS OF ALL EXISTING TILE PRIOR TO CONSTRUCTION.

10.) ALL ROAD SIGNAGE, COORDINATION, AND TRAFFIC CONTROL SIGNAGE SHALL BE INCIDENTAL TO GRAVEL ROAD RESTORATIONS.

11.) EXISTING BRANCH CONNECTIONS SHALL BE CONSTRUCTED EQUAL SIZE TO EXISTING WITH DUAL WALL HDPE AND APPROPRIATE FITTINGS UNLESS OTHERWISE SPECIFIED. (SINGLE WALL P.E. TILE WILL NOT BE ALLOWED) ALL CONNECTIONS SHALL BE MADE WITH WITH THE SAME PIPE MATERIAL AS THE MAINLINE.

12.) TILE INVESTIGATION TIME INCLUDES TIME NECESSARY TO LOCATE AND DIG EXISTING TILES NOT SHOWN ON THE PLANS. TIME SPENT LOOKING FOR EXISTING TILES SHOWN ON THE PLANS IS PART OF ANY TILE CONNECTION PAY ITEM.

13.) ALL STEEL PIPES THAT ARE BORED MUST BE CATHODICALLY PROTECTED.

14.) ALL FIELD & ROAD OPEN DITCH CULVERT CROSSINGS SHALL BE CONSTRUCTED WITH CLASS III RCP OR TRIPLE WALL HDPE UNLESS OTHERWISE APPROVED BY THE ENGINEER.

15.) ALL DEWATERING FOR THE PROJECT IS INCIDENTAL.

16.) IN AREAS WHERE CROSS CONNECT IS CALLED OUT, EACH CONNECTION INCLUDES 30 LF OF SPECIFIED TILE, CONNECTION TO THE PROPOSED MAINLINE, AND CONNECTION TO THE EXISTING MAINLINE AND/OR BRANCH.

32-241/25-142 Mix

Common Name	Scientific Name	Rate (lb/ac)
Perennial Ryegrass	<i>Lolium perenne</i>	6.75
Smooth Brome	<i>Bromus inermis</i>	3.88
fowl bluegrass	<i>Poa palustris</i>	3.00
slender wheatgrass	<i>Elymus trachycaulus</i>	3.50
nodding wild rye	<i>Elymus canadensis</i>	2.00
Virginia wild rye	<i>Elymus virginicus</i>	2.00
Timothy	<i>Phleum pratense</i>	0.88
fringed brome	<i>Bromus ciliatus</i>	1.40
big bluestem	<i>Andropogon gerardii</i>	1.25
side-oats grama	<i>Bouteloua curtipendula</i>	1.00
Indian grass	<i>Sorghastrum nutans</i>	1.00
switchgrass	<i>Panicum virgatum</i>	1.50
fowl bluegrass	<i>Poa palustris</i>	0.60
	Grasses Subtotal	28.76
partridge pea	<i>Chamaecrista fasciculata</i>	0.27
black-eyed susan	<i>Rudbeckia hirta</i>	0.09
Canada tick trefoil	<i>Desmodium canadense</i>	0.07
hoary vervain	<i>Verbena stricta</i>	0.05
wild bergamot	<i>Monarda fistulosa</i>	0.02
	Forbs Subtotal	0.50
Oats	<i>Avena sativa</i>	25.00
Alfalfa	<i>Medicago sativa</i>	6.25
	Cover Crop Subtotal	31.25
	Total	60.51

SEED MIX 32-241 BLEND

- MIX 32-241 - 100%
- MIX 25-142 - 50%

WATERWAY REPAIR BID QUANTITIES

Item No	Item	Unit	Installed Quantity
2021.501	MOBILIZATION	LS	1
2021.601	TILE INVESTIGATION	HR	9
2104.501	REMOVE BEAVER DAM	EA	2
2104.501	REMOVE EXISTING MAINLINE PIPE (SIZE & MATERIAL MAY VARY)	LF	100
2104.501	REMOVE EXISTING CULVERTS	EA	2
2104.501	REMOVE EXISTING WATERWAY INTAKE	EA	1
2105.603	DITCH CLEANING (4' EXISTING BOTTOM)	LF	1,560
2105.603	SLOUGH REPAIR	LF	150
2105.603	COMMON BORROW (CV)	CY	1,585
2118.501	MnDOT CLASS V AGGREGATE SURFACE	SY	175
2451.507	CRUSHED ROCK GRANULAR FOUNDATION	CY	220
2501.511	INSTALL 15" MAINLINE PIPE	LF	1,078
2503.541	F&I: 36" PIPE	LF	18
2503.541	F&I: 42" PIPE	LF	50
2503.541	F&I: 48" PIPE	LF	48
2501.515	F&I: 36" APRON	EA	1
2501.515	F&I: 48" APRON	EA	1
2506.501	F&I: DRAINAGE STRUCTURE S-1	LS	1
2506.502	F&I: WATERWAY SIDE INLET	EA	2
2506.502	12" PERFORATED TILE BEDDED IN COURSE FILTER AGGREGATE (WATER QUALITY INLETS)	LF	0
2506.602	15" CROSS-CONNECTION (WITH 30' OF PIPE)	EA	1
2506.602	CONNECT EXISITNG TILE (8")	EA	2
2506.602	CONNECT EXISITNG TILE (10")	EA	0
2506.602	CONNECT EXISITNG TILE (12")	EA	0
2506.602	CONNECT EXISITNG TILE (15")	EA	1
2511.501	RIPRAP CLASS III & GEO-TEXTILE FABRIC TYPE 4	CY	634
2540.618	PLACE 4' X 10' HOG SLAT FOR CROSSING (WITH CRUSHED ROCK BASE)	EA	32
2571.505	SOFT ARMOR DITCH BANK WITH NATIVE SHRUB	AC	0.0
2575.525	SEED BUFFER, MIX 35-521 CRP MIX WITH TYPE 3 OR 6 MULCH	AC	0.0
2575.525	SEED BUFFER, MIX 32-241 BLEND WITH TYPE 3 OR 6 MULCH	AC	1.5
2575.525	SEED OPEN DITCH SIDE SLOPES, MIX 32-241 BLEND WITH TYPE 8 MULCH	AC	0.20
2575.525	SEED WATERWAY, MIX 33-262 WITH TYPE 3 OR 6 MULCH	AC	1.15
2575.541	MOWING	AC	0.0
2575.541	WEED SPRAYING	AC	0.0

Change Order Quantities			
Change Order #	Item	Unit	Installed Quantity
1	15" SIDE INTAKE WITH LATERAL TILES	EA	4
2	12" SINGLE WALL PE PIPE	LF	350
3	12" PERFORATED TILE BEDDED IN COURSE FILTER AGGREGATE	LF	-96
3	SOFT ARMOR DITCH BANK WITH NATIVE SHRUB	AC	-2
4	EXCAVATOR (TILE REROUTE-RYNEARSON)	HR	6.5
4	LABOR	HR	13
4	TILE CONNECTION	EA	1
5	SLOUGH REPAIR SE TWP ROAD	LF	200
5	LYNN'S (INSTALL 60"x15' DUAL WALL IN FIELD APPROACH)	LF	60
5	SLOUGH REPAIR W TWP ROAD	LF	110
5	IMPORT CLAY (MATERIALS ONLY)	TN	224
5	TRUCKING (HAUL IN CLAY)	HR	12
5	Excavator (PLACE FILL)	HR	14
6	MOBILIZATION	LS	1
6	PICK UP PIPE (DELIVERY FEE)	LS	1
6	EXCAVATOR	HR	8
6	LABOR	HR	8
6	20' DUAL WALL	LF	20
6	RETURN PIPE W/ RESTOCK FEE	LS	1
6	HAUL ONE LOAD DRAINAGE ROCK OFF SITE (TRUCK ONLY - NC FOR ROCK)	LS	1
7	MOBILIZATION	LS	1
7	EXCAVATOR	HR	8
7	LABOR (2 MEN @ 6 HOURS EACH)	HR	16
7	EXCAVATOR	HR	4.5
7	LABOR (2 MEN @ 4.5 HOURS EACH)	HR	9
7	MATERIALS FOR FIXING DAMAGED PIPE IN WATERWAY	LS	1
7	EXCAVATOR	HR	4
7	EXCAVATOR	HR	10
7	LABOR (2 MEN @ 10 HOURS EACH)	HR	20



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PROJECT

FARIBAUT COUNTY

COUNTY DITCH No. 24
GRASSED WATERWAY
REPAIRS

WINNEBAGO CITY, TWP MINNESOTA

REVISION SCHEDULE		
NO	DATE	DESCRIPTION
4	8-8-16	UPDATED QUANTITIES

AS-BUILT 1/8/2024

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TITLE

NOTES &
QUANTITIES

SHEET

17

OF 17