

Board of Commissioners and Drainage Authority Agenda

July 26, 2022

Commissioners: Marie Dranttel- Board Chair; Jack Kolars- Vice Chair; John Luepke; Terry Morrow; Dave Haack

9:00 a.m. Call Board of Commissioners Meeting to Order: Chair Dranttel

- 1. Pledge of Allegiance
- 2. Silence Your Cell Phones
- 3. Approval of Agenda
- 4. Approval of Consent Agenda:
 - a. July 12, 2022 Board Minutes
 - b. Approval of Bills
- 5. Public Appearances

9:05 a.m. 6. <u>Administration</u> a. Capital Highway Investment Plan (CHIP) Outreach Presentation – MnDOT

9:30 a.m. 7. <u>Finance</u> a. 2022 Quarter Two Donations

9:35 a.m. 8. Public Works

- a. Consider Award of Contract for SAP 052-623-027
- b. Consider Financial Participation in TH 22 Corridor Study
- c. Consider Cooperative Construction Agreement for CSAH 5/Sunrise Dr./Broadway Ave. Roundabout Project

Recess Board of Commissioners Meeting

10:05 a.m. Call Drainage Authority Meeting to Order: Chair Dranttel

- 1. Approval of Agenda
- <u>Approval of Consent Agenda:</u>
 a. July 12, 2022 Drainage Authority Minutes
- 3. Public Appearances

10:10 a.m. 4. Public Services

- a. Continued CD79 Public Hearing on the Final Acceptance of the Improvement Project
- 5. Adjourn Drainage Authority Meeting

Mission Statement

Providing efficient services with innovation and accountability.

Vision Statement

<u>Core Values</u> Leadership. Integrity.

Accountability.

Efficiency. Innovation.

Setting the standard for providing superior and efficient county government services through leadership, accountability and innovation to a growing and diverse society.



Board of Commissioners and Drainage Authority Agenda

July 26, 2022

Commissioners: Marie Dranttel- Board Chair; Jack Kolars- Vice Chair; John Luepke; Terry Morrow; Dave Haack

Continue Board of Commissioners Meeting

- 10:30 a.m. 9. County Attorney Update
 - 10. Chair's Report
 - 11. Commissioner Committee Reports
 - 12. Commissioner Meetings & Conferences
 - 13. Approve Per Diems and Expenses
 - 14. Adjourn Board of Commissioners Meeting

Notice of Scheduled Meetings

The following is a notice of scheduled meetings. Pursuant to Minnesota Statute 13D.04, this notice of meetings also serves as notice of regular and special meetings of the Nicollet County Board of Commissioners. Meetings with a quorum of Nicollet County Board of Commissioners expected to attend is noted with an asterisk (*).

Questions or comments regarding any Nicollet County meeting and requests to participate in any meeting can be directed to Mandy Landkamer, Nicollet County Administrator, at 507-934-7074 or mandy.landkamer@co.nicollet.mn.us.

July 2022:

July 26 - Board of Commissioners Meeting, 9 a.m.; Nicollet County Board Room, St. Peter *

July 26 - Drainage Authority Meeting, 9 a.m.; Nicollet County Board Room, St. Peter *

July 26 - Tour of the North Mankato Health and Human Services Building Construction, 2:30 p.m., North Mankato*

August 2022:

- August 3 SWCD Board Meeting, 8:30 a.m., Nicollet, MN
- August 9 Board of Commissioners Meeting, 9 a.m.; Nicollet County Board Room, St. Peter*
- August 9 Drainage Authority Meeting, 9 a.m.; Nicollet County Board Room, St. Peter*
- August 15 Board of Adjustment and Appeals/Planning & Zoning Advisory Commission Meeting, 7 p.m.; Nicollet County Board Room, St. Peter *
- August 16 Individual Department Head Meeting County Attorney, 8:15 a.m.; Nicollet County Board Room, St. Peter*
- August 16 County Board Workshop, 9:30 a.m.; Nicollet County Board Room, St. Peter*
- August 23 Board of Commissioners Meeting, 9 a.m.; Nicollet County Board Room, St. Peter*
- August 23 Drainage Authority Meeting, 9 a.m.; Nicollet County Board Room, St. Peter*
- August 25 Budget Workshop #1, 8:30 a.m. Noon; Nicollet County Board Room, St. Peter*
- August 31 Budget Workshop #2, 8:30 a.m. Noon; Nicollet County Board Room, St. Peter*

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July 26, 2022

Commissioners: Marie Dranttel- Board Chair; Jack Kolars- Vice Chair; John Luepke; Terry Morrow; Dave Haack

NOTICE REGARDING NICOLLET COUNTY BOARD OF COMMISSIONERS MEETING AND DRAINAGE AUTHORITY MEETING JULY 26, 2022 9:00 A.M.

NICOLLET COUNTY GOVERNMENT CENTER BOARD ROOM 501 SOUTH MINNESOTA AVENUE ST. PETER, MN

The Nicollet County Board and Drainage Authority meetings will be conducted under Minnesota Statute 13D.02 – Meetings by Interactive Technology. County Board and Drainage Authority members will participate by means of Interactive Technology. Commissioner David Haack will be participating virtually at 626 Grant Ave., North Mankato, MN, 56003.

How members of the public can participate in the meeting:

Join Zoom Meeting At:

https://us02web.zoom.us/j/81385563311

Meeting ID: 813 8556 3311

One tap mobile +13126266799,,81385563311# US (Chicago) +16465588656,,81385563311# US (New York)

The meeting can be viewed live at: www.co.nicollet.mn.us/642/County-Board-Meeting-Videos.

A copy of the meeting agenda and packet is available at: <u>https://www.co.nicollet.mn.us/AgendaCenter/Board-of-Commissioners-3</u>

Questions or comments regarding agenda items and viewing or listening to the meeting can be directed to Mandy Landkamer, County Administrator, at 507-934-7074 or by email at <u>mandy.landkamer@co.nicollet.mn.us</u>

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JULY 12, 2022 OFFICIAL PROCEEDINGS OF THE BOARD OF COUNTY COMMISSIONERS

The Nicollet County Board of Commissioners met in regular session on Tuesday, July 12, 2022, at 9:00 a.m. Commissioners Marie Dranttel, Jack Kolars, John Luepke, David Haack and Terry Morrow were present. Also present were County Administrator Mandy Landkamer, County Attorney Michelle Zehnder Fischer, and Recording Secretary Crystal Madden.

Approval of Agenda

Motion by Commissioner Luepke and seconded by Commissioner Morrow to approve the agenda. Motion carried with all voting in favor.

Consent Agenda

Motion by Commissioner Kolars and seconded by Commissioner Luepke to approve the consent agenda items as follows:

- 1. June 28, 2022 Board Meeting Minutes;
- 2. Acknowledgement of the Auditor's Warrants, and approval of the Commissioner Warrants as presented for the following amounts:
 - a. General Revenue Fund \$374,100.89
 - b. Road & Bridge Fund \$42,374.23;
 - c. Human Services Fund \$162,581.88;
- 3. End of Probations for Christine Miller, Correctional Officer, effective June 16, 2022.

Motion carried with all voting in favor.

Public Appearances:

There were no public appearances.

Administration

Southern MN Initiative Foundation Presentation – Tim Penny

SMIF President Tim Penny shared presentation materials regarding regional initiatives.

Property Services

AgBMP Low Interest Loan Project – Septic Lien

Motion by Commissioner Luepke and seconded by Commissioner Kolars to approve the resolution that authorizes the placement of a lien onto the property identified below for a total amount of \$7,190.00. Motion carried with all voting in favor on a roll call vote.

AgBMP LIEN ATTACHMENT #9

 PARCEL #
 ACTUAL COST

 13.036.1300
 \$7,190.00

LIEN DATE May 16, 2022

County Attorney Update:

County Attorney Zehnder Fischer reported their office has more in-person court hearings for both civil and criminal issues as dictated by the Supreme Court. The Friends of Learning Backpack & School Supply Drive has begun, as well as planning for fall community events Nicollet County Board Meeting Minutes July 12, 2022

focusing on youth mental health and substance abuse. In particular, the September 14th, 2022 evening event addressing youth mental health, which is sponsored by Adolescent Chemical Wellness Advocates (ACWA).

Commissioner Committee Reports

The Commissioners reported on various meetings and activities, including:

Commissioner Terry Morrow

- Ditch discussion
- Highway 22 regional meeting concerning the possible installation of a bike lane
- St. Peter Produce Distribution event

Commissioner John Luepke

- Soil & Water regional meeting in Mankato
- 4H Educator interviews
- Tree Care Clinic with the U of M Extension
- Small City Commission: Lafayette City Council meeting

Commissioner Meetings & Conferences

- Tuesday, July 19th, 2022: County Board Workshop
- Tuesday, July 26th, 2022: Board of Commissioners Meeting and the North Mankato HHS Tour at 2:30 pm
- September: AMC Fall Policy Conference

Approve Per Diems and Expenses

Motion by Commissioner Luepke and seconded by Commissioner Morrow to approve the expenses and per diems for the meetings noted above during the Commissioner Reports and/or as submitted on approved expense reports, and authorize payment of those expenses and per diems by the Finance Office. Motion carried with all voting in favor.

Adjourn

Motion by Commissioner Luepke and seconded by Commissioner Haack to adjourn the meeting. Motion carried with all voting in favor. The meeting adjourned at 9:31 a.m.

MARIE DRANTTEL, CHAIR BOARD OF COMMISSIONERS

ATTEST:



Agenda Item:				
MnDOT Presentation: Capital Highway Investment Plan (CHIP) Outreach				
Primary Originating Division/Dept.: Administratio	n	Meeting Date: 07/26/2022		
	unty Administrator	Item Type: (Select One) Regular Agenda		
Amount of Time Requested 25 minutes				
Presenter: Title:		Attachments: 💽 Yes 🔿 No		
County Strategy: (Select One) Programs and Services - deliver value-added quality services				
BACKGROUND/JUSTIFICATION: MnDOT staff will present the District 7 Capital Highway Plan (CHIP). This presentation will provide an overview of the 10-year plan, the process, and next steps as well as a legislative update. Following the presentation, there will be an opportunity for discussion.				
Supporting Documents: O Attached	O In Signature Folder	O None		
Prior Board Action Taken on this Agenda Item:	O Yes O No			
If "yes", when? (provide year; mm/dd/yy if known)				
Approved by County Attorney's Office:	O Yes O No	O N/A		
ACTION REQUESTED: Informational				
FISCAL IMPACT: Other (Select One)	FUNDING County Dollars =			
If "Other", specify	Other (Select One)			
FTE IMPACT: No FTE change (Select One) If "Increase or "Decrease" specify:	Total			
Related Financial/FTE Comments:				



Capital Highway Investment Plan Presentation

Sam Parker | Principal Planner



mndot.gov

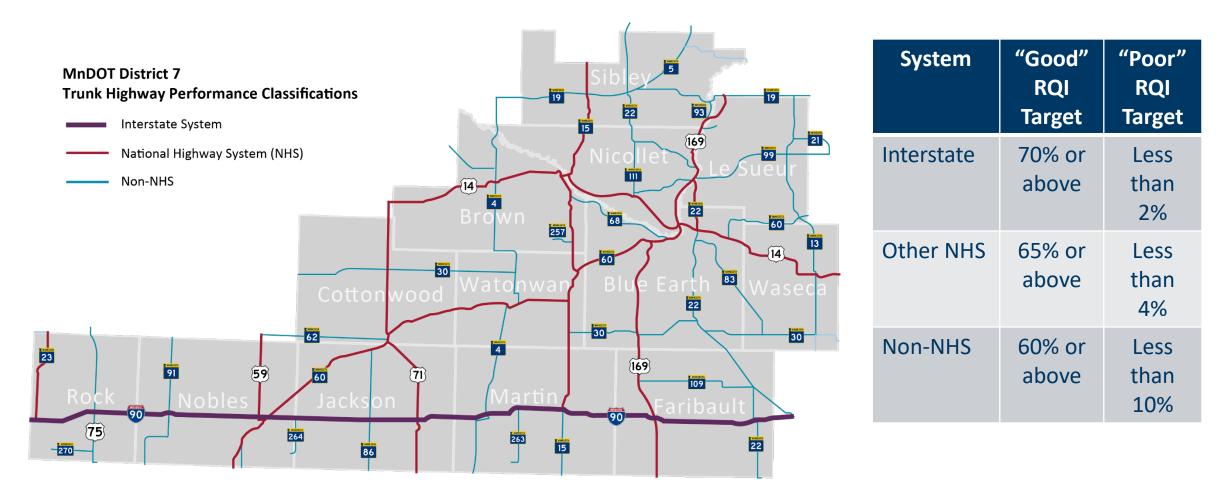
Capital Highway Investment Plan (CHIP)

- Details MnDOT's state highway priorities for 10 years
- Updated annually with new funding targets
 - Remove projects that move into construction
 - Adjust timing of existing planned projects
 - Add new projects
- Ensure MnDOT is meeting funding targets and <u>Minnesota State Highway</u> <u>Investment Plan</u> goals

2017 Minnesota State Highway Investment Plan



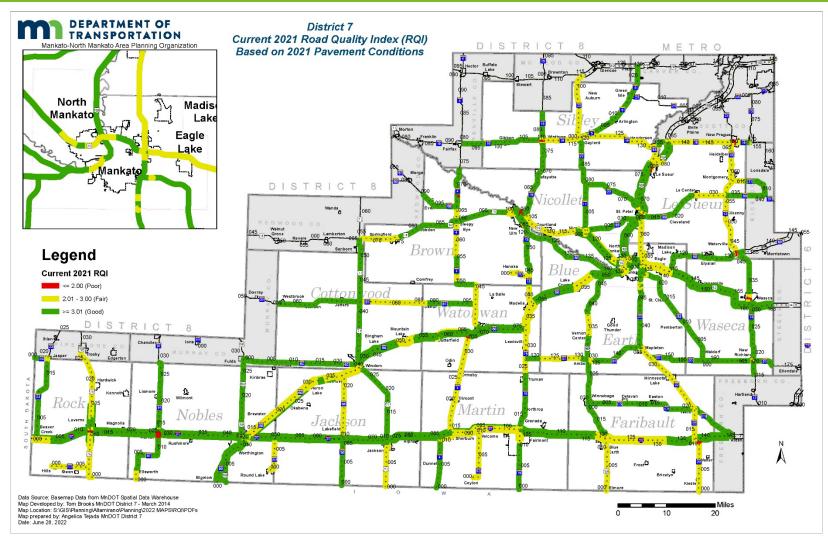
State Highway Performance Classifications



2021 Ride Quality Index (RQI)

RQI collection van

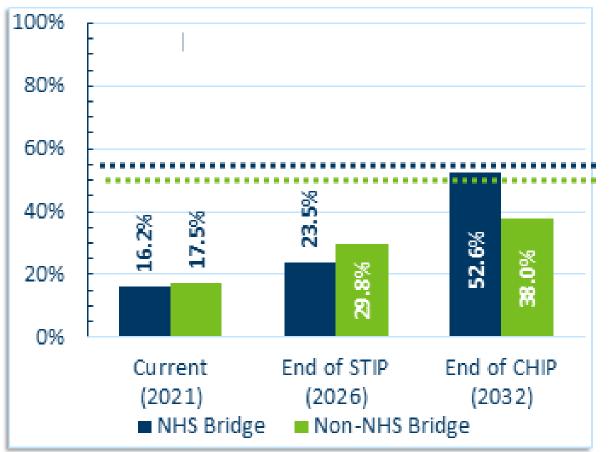




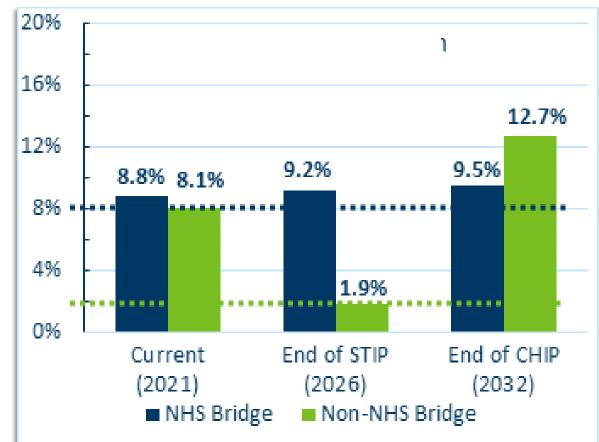


Bridge performance

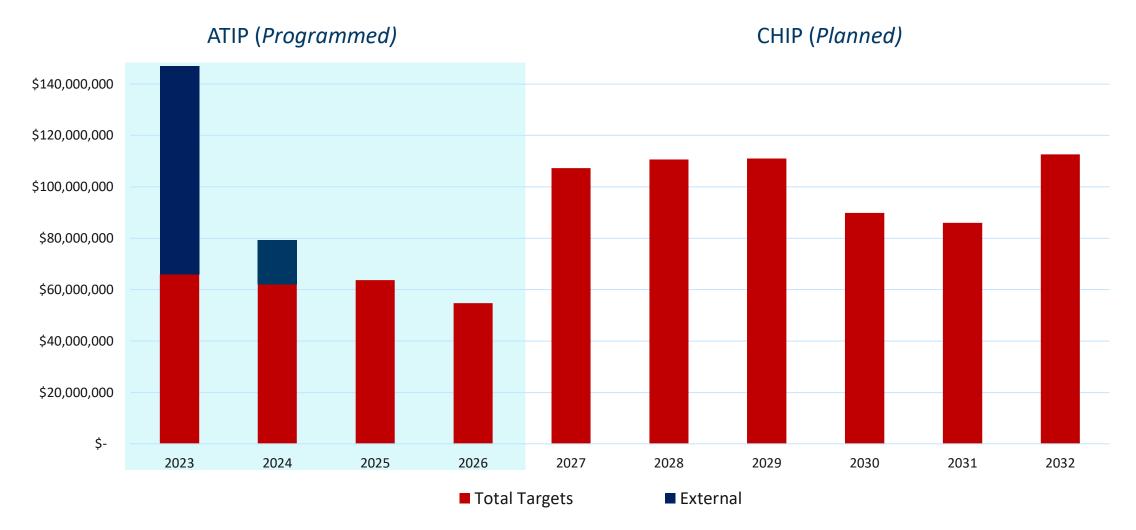
Good Condition



Poor Condition

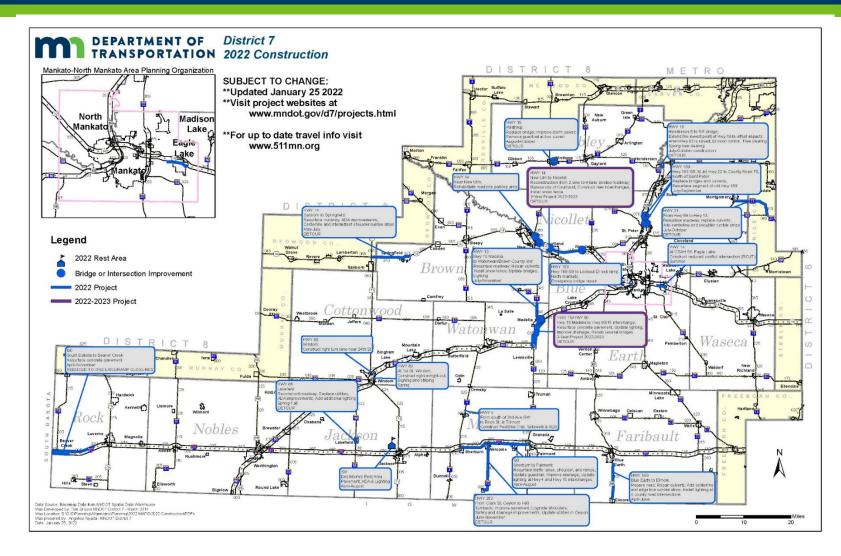


District 7 Funding Targets



mndot.gov

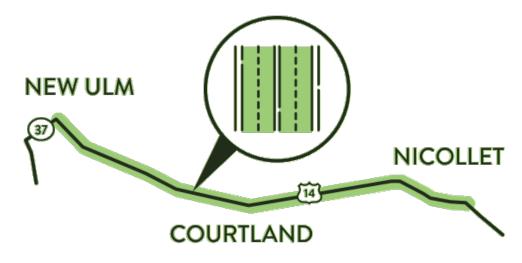
2022 Construction



SP 5202-58 (TH 14): New Ulm to Nicollet

Four-lane expansion, new interchanges at New Ulm (Co Rd 37) and Courtland (on the bypass with an extension of Co Rd 24 and a realignment of Co Rd 12), replace bridges, lighting, ITS, ADA

- Contract cost: \$83,539,141.56
- Construction start date: April 10, 2022
- Contract completion date: Fall 2023
- Contractor: Hoffmann Construction



SP 5209-80 (TH 169): N of St Peter

- Fix: Replace 2 bridges and 1 culvert on southbound lanes of Hwy 169 between Hwy 22 and Co Rd 76 north of St Peter
 - Contract cost: \$4,086,283.52
 - Construction start date: July 5, 2022
 - Contract completion date: September 30, 2022
 - Contractor: S. M. Hentges & Sons Inc.





SP 5202-60 (TH 14): Roadside Parking Rehabilitation

Rehabilitate New Ulm Spring roadside parking area

- Construction start date: May 23, 2022
- Contract completion date: September 30, 2022
- Contractor: Environmental Associates Inc.

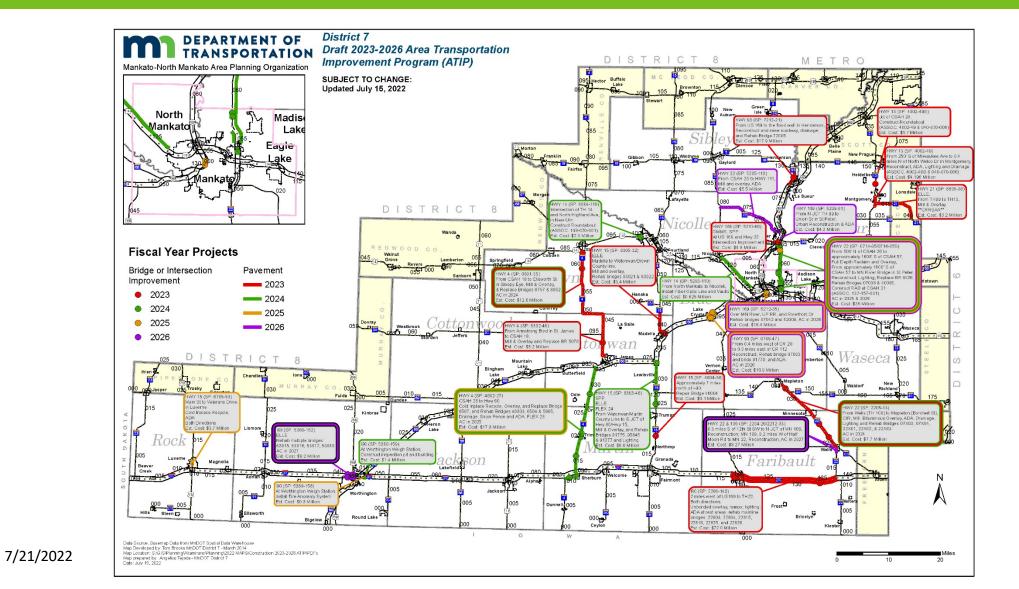
SP 5212-38 (TH 169): Emergency Bridge Repair

Emergency bridge repair on Hwy 169 at the Lookout Drive/Center Street exit, North Mankato

- Contract cost: \$381,156.35
- Construction start date: May 2, 2022
- Contract completion date: June 17, 2022
- Contractor: S. M. Hentges & Sons Inc.

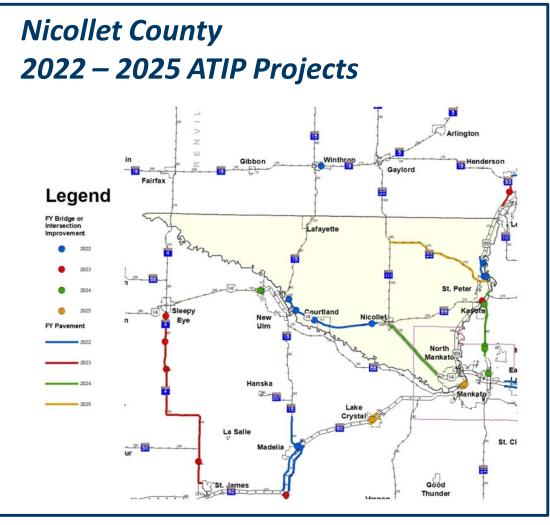


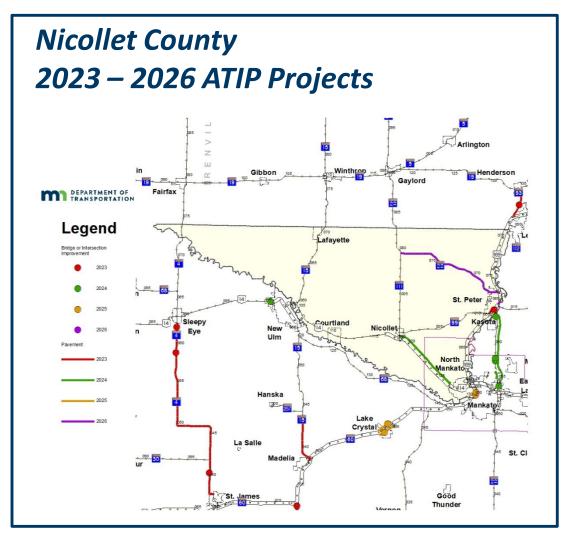
2023-2026 STIP Projects



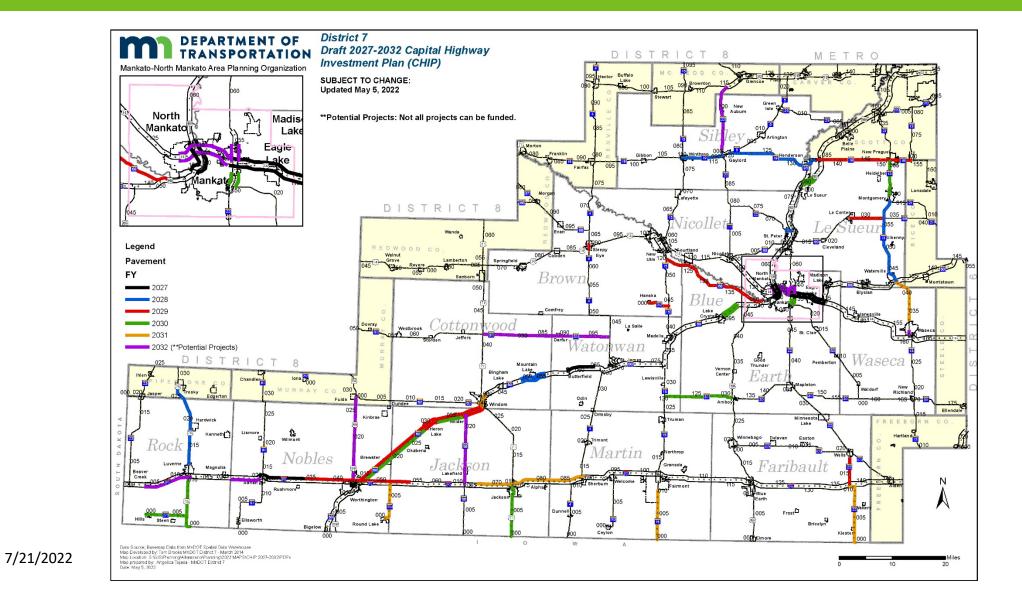
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2023 - 2026 Area Transportation Improvement Program Changes from 2022 - 2025 ATIP



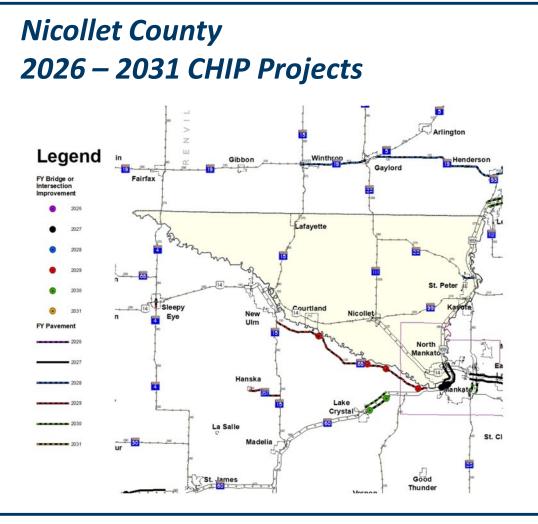


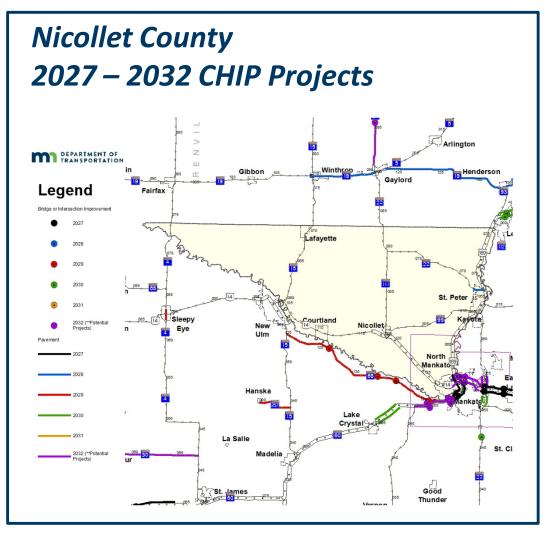
2027-2032 CHIP Projects



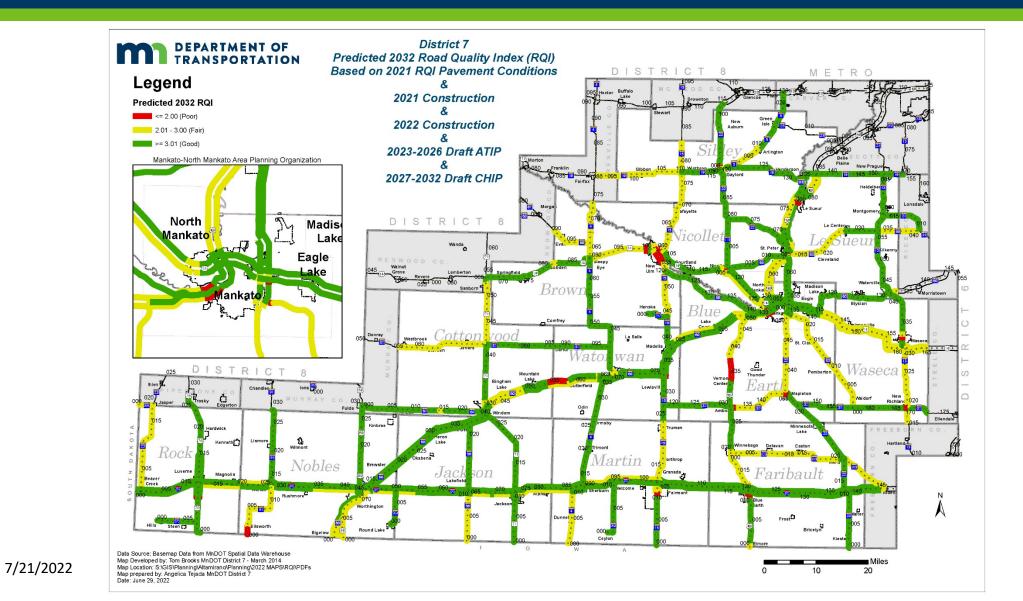
15

2027-2032 Capital Highway Investment Plan Changes from 2026-2031 CHIP





RQI after CHIP projects



17

Next Steps

- Restart the CHIP process in August
- Receive newest funding targets in late fall
- New MnSHIP guidance next year

dot.state.mn.us/d7/projects

→ C A a dot.state.mn.us/d7/projects.html	Ŀ
Employee Status an 🚱 Roadway Project M 🍓 ArcGIS Online Cont 🍘 Consolidated Ped I 🍎 Environmental Land 🥅 Roadway Project M 🍥 Bridge Info I	nteracti m Structure Informati m TFA Traffic Mapping
DEPARTMENT OF TRANSPORTATION	(511)
	Search MnDOT A to Z General Contacts
South Central Minnesota Regional Information	
District 7 Home Projects News Planning & Involvement District 7 ATP Doing Business About District 7 Contacts	
Construction projects, plans, and studies Browse by stage Studies	 More project information <u>Statewide construction projects,</u> plans, and studies
 Future construction Current construction Recently completed projects (in 2022) 	County and city road information Counties Cities
<u>Hwy 4 — St. James to Sleepy Eye</u> Resurface 25 miles between St. James and Sleepy Eye; replace bridges; repair culverts • Scheduled for construction in 2023	
Hwy 4 — Sherburn to St. James Resurface approximately 25 miles of Hwy 4 between Sherburn and St. James: replace and repair bridges:	



Thank you!

Sam Parker

samuel.parker@state.mn.us

Angie Piltaver

angela.piltaver@state.mn.us



			_	
Agenda Item: Qtr 2 2022 Donations				
Primary Originating Division/Dept.: Finance				Meeting Date: 07/26/2022
Contact: Heather McCormick Title: Final	nce	Director		Item Type: (Select One) Regular Agenda
Amount of Time Requested: 5 minutes				
Presenter: Heather McCormick Title: Finance Director		Attachments: 💿 Yes 🔿 No		
County Strategy: (Select One) Programs and Services - deliver value-added quality services				
BACKGROUND/JUSTIFICATION:				
	امريما			
This is to present the Quarter 2 2022 Donations received for appro	ovai	by resolution.		
<u> </u>	-			-
Supporting Documents: O Attached	0	In Signatur	e Folder	O None
Prior Board Action Taken on this Agenda Item:	0	Yes	O No	
If "yes", when? (provide year; mm/dd/yy if known)				
Approved by County Attorney's Office:	0	Yes	O No	N/A
ACTION REQUESTED:				
Approval of Donations				
		FUNDING		
FISCAL IMPACT: Other		FUNDING	lloro –	(935.00)
(Select One)		County Dol	liars –	(335.00)
If "Other", specify: Donations		Other		
		(Select On	e)	
			-/	
FTE IMPACT: No FTE change (Select One)		Total:		(935.00)
If "Increase or "Decrease," specify:				
Related Financial/FTE Comments:				



RESOLUTION APPROVING THE ACCEPTANCE OF DONATIONS



WHEREAS, MN Statute 465.03 states any city, county, school district or town may accept a grant or devise of real or personal property and maintain such property for the benefit of its citizens in accordance with the terms prescribed by the donor. Nothing herein shall authorize such acceptance or use for religious or sectarian purposes. Every such acceptance shall be by resolution of the governing body adopted by a two-thirds majority of its members, expressing such terms in full.

WHEREAS, the Nicollet County Finance Office has compiled a list of donations made to the County from April 1 through June 30, 2022.

THEREFORE, BE IT RESOLVED that the Nicollet County Board of Commissioners approve the following donations made to the County from April 1 through June 30, 2022:

Donations received by Nicollet County April 1 through June 30, 2022

FROM WHOM	AMOUNT	PURPOSE
Various Donations	\$ 300.00	Van Services
Various Donations	\$635.00	Loan Closet
Total	\$ 935.00	

Dated this 26th day of July, 2022.

Marie Dranttel, Chair Nicollet County Board of Commissioners

ATTEST:

Mandy Landkamer Clerk to the Board

Nicollet County Board of Commissioners Board Meeting Agenda Item



Agenda Item: Consider Award of Contract for SAP 052-623-027				
Primary Originating Division/Dept.: Public Works/Highway	Meeting Date: 07/26/2022			
Contact: Seth Greenwood, P.E. Title: PWD/County Engineer	Item Type: (Select One) Regular Agenda			
Amount of Time Requested: 10 minutes				
Presenter: Seth Greenwood, P.E. Title: PWD/County Engineer	Attachments: 🔿 Yes 💿 No			
County Strategy: (Select One) Facilities and Space - preserve, maintain and build our assets				
BACKGROUND/JUSTIFICATION:				
On July 18, 2022 at 11AM, 3 bids were received and opened for project SAP 052-623-027. 1 bid out of the 3 did not contain all the required submittals to be considered a valid bid and its bid total was not read.				
Results of the bid opening are as follows;				
Holtmeier Construction, Inc.\$1,731,897.96Mathiowetz Construction Co.\$2,175,627.35				
Engineer's Estimate \$1,399,751.00				
Project SAP 052-623-027 involves ravine and slope stabilization of severely eroded slopes on the inlet and outlet end of a major centerline culvert crossing CSAH 23.				
Supporting Documents: O Attached O In Signature Fol	der O None			
Supporting Documents:Image: ColorImage: ColorPrior Board Action Taken on this Agenda Item:Image: ColorYes				
Prior Board Action Taken on this Agenda Item: O Yes O If "yes", when? (provide year; mm/dd/yy if known)				
Prior Board Action Taken on this Agenda Item: O Yes O If "yes", when? (provide year; mm/dd/yy if known)	No			
Prior Board Action Taken on this Agenda Item: O Yes O If "yes", when? (provide year; mm/dd/yy if known) Approved by County Attorney's Office: O Yes O	No O N/A			
Prior Board Action Taken on this Agenda Item: O Yes O If "yes", when? (provide year; mm/dd/yy if known) Approved by County Attorney's Office: O Yes O Action REQUESTED: O Yes O Yes O	No No N/A For the low bid amount of \$1,731,897.96			
Prior Board Action Taken on this Agenda Item: O Yes O If "yes", when? (provide year; mm/dd/yy if known) Approved by County Attorney's Office: O Yes O Action REQUESTED: Award the contract for SAP 052-623-027 to Holtmeier Construction, Inc. f FISCAL IMPACT: Included in current budget FUNDING	No No N/A For the low bid amount of \$1,731,897.96			
Prior Board Action Taken on this Agenda Item: O Yes O If "yes", when? (provide year; mm/dd/yy if known) Approved by County Attorney's Office: O Yes O Approved by County Attorney's Office: O Yes O O Action REQUESTED: Award the contract for SAP 052-623-027 to Holtmeier Construction, Inc. f FUNDING County Dollars = FISCAL IMPACT: Included in current budget FUNDING County Dollars = If "Other", specify: State	No No N/A For the low bid amount of \$1,731,897.96 = \$1,731,897.96			
Prior Board Action Taken on this Agenda Item: O Yes O If "yes", when? (provide year; mm/dd/yy if known) Approved by County Attorney's Office: O Yes O Approved by County Attorney's Office: O Yes O O Action REQUESTED: Award the contract for SAP 052-623-027 to Holtmeier Construction, Inc. f FUNDING FISCAL IMPACT: Included in current budget FUNDING (Select One) State (Select One) If "Other", specify: State (Select One) FTE IMPACT: No FTE change Total: \$1,731,8	No No N/A For the low bid amount of \$1,731,897.96 = \$1,731,897.96			



Agenda Item: Consider Financial Participation in TH 22 Corridor Study					
Primary Originating Division/Dept.: Public Works/Highway	Meeting Date: 07/26/2022				
Contact: Seth Greenwood, P.E. Title: PWD/County Engineer	Item Type: (Select One) Regular Agenda				
Amount of Time Requested: 10 minutes					
Presenter: Seth Greenwood, P.E. Title: PWD/County Engineer	Attachments: 💿 Yes 🔘 No				
County Strategy: (Select One) Facilities and Space - preserve, maintain and build our assets					
BACKGROUND/JUSTIFICATION:					
MnDOT is beginning to plan for a future construction project on TH 22 from TH 169 to CSAH 20. To help better define what improvements should be incorporated into this project, the City of Saint Peter has taken the lead on initiating a TH 22 Corridor Study. This study will identify issues and potential solutions/improvements for this corridor that potentially could be implemented in MnDOT's future construction project. The City has already sent out RFP's for the corridor study and has selected Bolton & Menk as the consultant that will perform the corridor study (3 proposals were received). Bolton and Menk's cost to perform the study is \$88,800. MnDOT and the City of Saint Peter will be contributing funding towards the study. They City of St. Peter has requested that the County also contribute funding for the study. Nicollet County has a vested interest in the corridor and the potential improvements that will be made. Nicollet County has 2 CSAH routes that intersect TH 22 (CSAH 15 & 20) which represent 3 legs in those intersections. I would propose that the County's financial contribution to this study be \$5,000.					
I have included in the packet the scope of work that was sent out in the RFP. The Corridor Study is set to kick off in August 2022 with the first Project Management Team (PMT) meeting occurring on August 8th. The PMT will be comprised of representatives from MnDOT, City of Saint Peter, and Nicollet County. The TH 22 Corridor Study is anticipated to be completed with the Final Report and Study Conclusion in early 2023.					
Supporting Documents: O Attached O In Signature Folder	O None				
Prior Board Action Taken on this Agenda Item: O Yes O No					
If "yes", when? (provide year; mm/dd/yy if known)	If "yes", when? (provide year; mm/dd/yy if known)				
Approved by County Attorney's Office: O Yes O No	• N/A				
Approved by County Attorney's Office: O Yes O No ACTION REQUESTED:	⊙ N/A				
ACTION REQUESTED:					
ACTION REQUESTED: Approve contributing up to \$5,000 from Road and Bridge reserves towards T FISCAL IMPACT: NOT in current budget	H 22 Corridor Study.				
ACTION REQUESTED: Approve contributing up to \$5,000 from Road and Bridge reserves towards T FISCAL IMPACT: NOT in current budget (Select One) If "Other" anality	H 22 Corridor Study.				
ACTION REQUESTED: Approve contributing up to \$5,000 from Road and Bridge reserves towards T FISCAL IMPACT: NOT in current budget (Select One) If "Other", specify: State	H 22 Corridor Study.				
ACTION REQUESTED: Approve contributing up to \$5,000 from Road and Bridge reserves towards T FISCAL IMPACT: NOT in current budget (Select One) FUNDING County Dollars = If "Other", specify: State (Select One) FTE IMPACT: No FTE change Total: \$5,000	H 22 Corridor Study. \$5,000				

Project Overview

The City of Saint Peter (City), Nicollet County (County), and the State are partnering to develop a plan for the Trunk Highway 22 corridor from Trunk Highway (TH) 169 to Nicollet County State Aid Highway (CSAH) 20. TH 22, which is a minor arterial and major collector in this corridor, is currently in State's 10-year Capital Highway Investment Plan for a pavement project and given newer adjacent land development and the corresponding multimodal needs of the corridor, it will be beneficial to complete further evaluation of potential corridor improvements to inform the planned project.

This work is proposed to be led by the Local/Government Agency (City). State and Local funds (City and County) will be used.

With concurrence of the State's District 7, The City will contract with a professional/technical consultant to perform the study. "Contractor", as referred to in this scope of work will refer to the City and its professional/technical consultant. The City will be responsible for all oversight and direction of the consultant.

Project Goal

The TH 22 Saint Peter corridor study will allow the City of Saint Peter and the State to plan and prioritize improvements that improve transportation safety and mobility, multimodal options, and the City's current and future development needs.

There are many different facets of the studied corridors that this study will consider (including, but not limited to):

- 1. Motorized Vehicle Movements (Passenger Vehicles and Heavy Commercial (Freight))
- 2. Bicycle and Pedestrian Movements and Accommodations
- 3. Parking
- 4. User Origins/Destinations
- 5. Access management
- 6. Intersection Traffic Control
- 7. Lane Configuration(s), including turn lanes

Project Objectives

- 1. Identify opportunities to improve the safety and operation of TH 22 and intersecting roads through Saint Peter
- 2. Determine present and future bicycle, pedestrian, and transit needs
- 3. Determine aesthetic opportunities along the corridor
- Study and recommend access management guidelines and best practices to the corridor to promote safety while accommodating accessibility needs of local businesses and owners

Project Scope

Task 1.0: Project Management (Source Type 1010)

The Contractor will perform all work necessary to effectively coordinate the corridor study, maintain the project schedule, and keep the project within budget. The Contractor will monitor study progress and documentation, budget and schedule management, quality control, and adherence with state and federal laws, rules, and regulations. Contractor's Project Manager (PM) will implement the following active management measures:

The Contractor will perform all work necessary to effectively coordinate the corridor study, maintain the project schedule, and keep the project within budget. The Contractor will monitor

study progress and documentation, budget and schedule management, quality control, and adherence with state and federal laws, rules, and regulations. The project will be led by a project management team (PMT) consisting of key State, City, and County staff. Contractor's PM will implement the following active management measures:

- 1.1 Maintain regular contact with the PMT to provide updates, coordinate activities, and schedule project meetings.
- 1.2 Attend the Project Kickoff Meeting and take meeting minutes.
- 1.3 Hold bi-weekly conference calls with the PMT and other City and State personnel as needed to continue making progress on the project.
- 1.4 Maintain a running action item log from a template provided by the State.
- 1.5 Maintain a stakeholder register provided by the State. Stakeholder register includes a contact list, contact record, and conflict tracker. Coordinate and update stakeholder register with the State's District 7 Public Engagement Coordinator (PEC) and PM.
- 1.6 Develop an Engagement & Communications plan to reach key stakeholders within the community; align plan with input from the City and State to determine level of engagement versus informing among tiers of stakeholders.
- 1.7 Conduct up to three in-person meetings with project stakeholders to identify problems/issues and opportunities within the project limit area.
- 1.8 Attend up to six in-person meetings in Mankato or Saint Peter with City and State staff and other project stakeholders. Meetings will include, but are not limited to, discussing corridor analysis, purpose & need, concept design development/issue resolution, business and/or resident outreach, or over-the-shoulder review.
- 1.9 Prepare exhibits for and participate in up to two public meetings/events.
- 1.10 Provide exhibits in a digital format for a State-hosted project web site. All documents must meet the ADA requirements and State's brand guidelines.
- 1.11 Prepare handouts for public outreach
- 1.12 Provide all meeting agendas at least 24 hours prior to meetings and all meeting minutes within two days after all meetings.
- 1.13 Submit invoices. Contractor will submit invoices to the City. City will submit its invoices to the State.
- 1.14 Prepare and maintain a Critical Path Method (CPM) schedule. This schedule will be approved by the PMT. Contractor will manage the schedule, as needed to keep the study moving forward.

Task 2.0: Existing Conditions (Source Type 1808)

A critical element in developing the overall corridor study will be to define the existing transportation issues/needs of the area. The Existing Conditions report will provide the background information necessary to proceed in identifying issues, constraints, and opportunities. This task will involve assembling a wide range of data sets.

2.1 Data Collection

Contractor will collect available data from the State and study partners. The data will be used to develop a base map depicting all existing conditions and will be used to conduct the study analysis and concept alternative development / refinements. At a minimum, the following will be collected from readily available sources (State, City, Local Businesses, etc.):

- a. Development Plans
- b. Digital base maps and parcel data
- c. Zoning, land use, comprehensive and growth plans
- d. Drainage conditions
- e. Local transportation plans
- f. Local access management plans/studies

- g. Crash data for the most recent ten-year period for which data is available
- h. Bicycle and Pedestrian master plans
- i. Transit route data
- j. Roadway construction history
- k. Floodplain elevations and contour maps
- I. Right of way
- m. Typical section data

2.2 Turning movement data

Contractor will also be responsible for collecting turning movement counts (TMCs) at the following intersections:

- a. TH 22 and CSAH 20 24-hour TMCs
- b. TH 22 and CSAH 15/Klein St 48-hour TMCs
- c. TH 22 and Sunrise Dr 48-hour TMCs
- d. TH 22 and Washington Ave 48-hour TMCs
- e. TH 22 and Gault St- 24-hour TMCs
- f. TH 22 and 3rd St- 24-hour TMCs
- g. TH 22 and Old Minnesota Ave- 24-hour TMCs
- h. TH 22 and TH 169- 24-hour TMCs

If the counts are completed when temporary traffic control (TTC) devices are deployed for road improvement projects, the counts must be repeated after the project(s) are completed and TTC devices are removed. Any counts to be repeated due to TTC devices will be at an additional expense to the State, assuming the Contractor coordinated the dates with the State prior to collecting the counts. Other readily available traffic volume data will be evaluated to determine whether adjustments should be considered before completing analyses. This evaluation will determine whether data collected with is significantly different than otherwise typical conditions. If differences exist, adjustments or possible re-collection efforts will be made to reflect typical traffic conditions. If repeated counts result in significantly different data than the first session of counts (+/-5%) then any models utilizing the earlier counts, and any conclusions based on the earlier counts, are to be updated based on the new count data. Any updated modeling and conclusions completed as a result of these unforeseen traffic count differences will be at additional expense to the State, assuming the State provided authorization to proceed with count data which then needed to be updated.

The State will also provide any previously collected turning movement count data for all intersections along TH 22 within the study limits. The Contractor is to review both the Contractor collected turning movement count data as well as State furnished turning movement count data to ensure that consistent data was collected for each of the two 24-hour periods comprising the 48-hour count. If significant inconsistencies are discovered, the Contractor is to recount each location where inconsistencies were realized – regardless of who originally collected the counts. Recounting any locations will be an additional expense to the State, to be negotiated when the quantity of additional data collection is determined, but will be done such to avoid negative impact to the project schedule.

2.2 Existing Conditions Analysis

Contactor shall develop an existing conditions operations analysis to summarize the above findings.

2.3 Supporting background data

Contractor will collect, assemble, and organize other background information necessary to identify community, transportation, social, economic, and environmental issues, and constraints within the study area. This information will include previously conducted studies in the area, other local and regional plans, and programmed project information. Contractor will present information to study stakeholders, which will guide the development of the purpose and need statement (for this Corridor Study as well as future environmental documentation), concepts, and facilitate the public engagement process.

Deliverables: Existing Conditions report with maps and graphic tables displaying general transportation information, including turning movement count data summaries as well as full turning movement count data as appendices.

Task 3.0: Corridor Issues Identification (Source Type 1808)

Using the results from the Existing Conditions and No-Build analyses, Contractor will identify key multi-modal transportation issues, needs, and potential improvements.

3.1 Demographics

Contractor will coordinate with the State and study partners to summarize past and predicted development trends to inform future conditions.

3.2 Land Use

Contractor will identify current and future land uses in the area using local plans and aerial photographs, as provided by the responsible government agency. Geographic Information Systems (GIS) plat maps and property information will be gathered where necessary to identify parcel ownership. Contractor will prepare a map summarizing existing and future land uses.

3.3 Multimodal Trails, Pathways, and Crossings

Contractor will review mapping and other pertinent information of existing and planned State, County, and City trails within and adjacent to the corridor study area. Contractor will identify potential connections to the TH 22 corridor from existing trails and to existing park facilities. Issues that will be considered when identifying gaps will include pedestrian and bicycle destinations.

In conjunction with previously completed studies and feedback from residents and stakeholder staff, contractor will study the existing and proposed pedestrian crossing locations and include safety and necessary ADA upgrades as part of the overall recommendations.

Contractor will evaluate the existing facilities to determine if any improvements are justified to improve non-motorized operations and safety. Contractor will develop a map that depicts existing and planned trails, along with proposed new trail connections, potential crossing locations, as well as identified gaps and suggested improvements to existing facilities.

3.4 Transit

Contractor will review existing and future transit needs in the study area for consideration as part of the concept alternative development process. This will include outreach with operating transit entities and County and City staff to understand future plans.

3.5 Public and Stakeholder Engagement

Contractor will summarize engagement efforts and input that has been received through the efforts.

3.6 Safety

Contractor will evaluate the safety of the study corridor by reviewing the frequency and severity of crashes that have occurred in the last ten years at all corridor intersections and along all corridor segments. Data will be provided by the State's District 7 Traffic Office. Crash data is to be reviewed to identify trends (e.g.: time of day, month, lighting, surface condition, and crash diagram type). Crash diagrams will be developed and the average crash rate, critical crash rate, and critical crash rate index will be calculated for all intersections and segments, with comparisons to statewide crash averages for similar intersections and corridors being made. Locations with higher than expected crash rates will be reviewed to determine if there are any site conditions or design issues that may be leading to the higher rates. Potential context sensitive solutions will be developed and prioritized for these locations taking into consideration recommendations from previous planning efforts (where appropriate). Any solutions that could be immediately deployed (e.g.: added markings or signing) are to be brought to the attention of the PMT by the Contractor, as soon as is reasonable, for consideration by the PMT.

For locations that include a pedestrian or bicycle crash, a detailed review of the incident will be conducted to determine if there are design improvements that should be considered immediately.

Contractor will complete a safety summary describing the overall safety conditions along the corridors. A high-level outline of the safety summary is to be incorporated into the Existing Conditions technical memorandum. The complete safety summary will include a more in-depth review of the corridor and intersections and will use mapping and crash diagrams to help convey the frequency, type, and severity of crashes occurring at intersections and along the study corridors.

3.7 Access

Contractor will develop a comprehensive access inventory as part of the evaluation and summarized in tabular and graphical form. This includes identifying access location, access configuration (e.g.: full, tee, right-in/right-out), type of access (public or private), access control measures (if any), type of usage (truck or auto), cross-street function, and presence of turn lanes.

Contractor will define the desirable access spacing based upon the State's access management guidelines, safety implications, and past access decisions including current access agreements that may be in place. Contractor will identify this as the preferred "access template" or access goal. The preferred access template will then be overlaid onto the current accesses (i.e., base conditions) to identify inconsistencies with the access spacing objectives. Each inconsistency will be enumerated by type (i.e., public, private commercial, private residential, or private agricultural) and classified by replacement difficulty levels.

The access analysis process will also look closely at traffic and safety issues associated with each access point and explore the feasibility of closures, cooperative access sharing, right-in/right-out, or three-quarter movements (where appropriate), internal circulation to eliminate access, changes to land use, and relocating access to an alternate location (e.g.: side streets) while balancing the later defined purpose and need.

3.8 Corridor Function and Connecting Roadways

Contractor will develop network options and an assessment of a multi-directional network of collector and local roads to serve and integrate with the TH22 corridor and the larger planning area. The options will be based on travelshed, future traffic generation, roadway connectivity, improvements to TH22, business input, traffic volumes, principal/minor arterial spacing, access spacing, travel speeds, and adjacent land uses.

3.9 Environmental and Cultural Constraints

While an in-depth evaluation of social, economic, and environmental (SEE) resources is not part of this environmental screening, enough inventory and assessment work will be completed to determine which impacts may be potentially significant in examining alternative concepts to carry forward. Contractor will assemble all relevant SEE information and display this data on the study's GIS base map. The Planning and Environmental Linkages (PEL) process will be used to develop the project in such a way to streamline any future environmental documentation effort that may be required. The base map will graphically depict the potential environmental issues and constraints as well as other critical factors that need to be considered in identifying concept alternatives. Additional information generated by agency and public input will also be added to the base map during the study process.

3.10 Corridor Issues Technical Memorandum

To ensure future corridor improvements are eligible for potential state and federal funding, all environmental screening will be conducted by the Contractor so as to conform to state and federal rules and guidelines. The Contractor will incorporate the findings from this analysis into an overall Existing Conditions technical memorandum documenting all the Existing Conditions data collected and analyzed.

Deliverables: The Contractor will develop a technical memorandum summarizing the key corridor issues and opportunities. This will include necessary appendices.

Task 4.0: Corridor Vision, Goals, and Purpose and Need (Source Type 1808)

4.1 Develop Preliminary Corridor Vision and Goals

Developing the vision and goals will be a collaborative, iterative process informed by seeking input from study stakeholders on the following framing questions:

- a. What is the function of TH 22 in the overall transportation network?
- b. What are the economic, land use, and mobility needs for the corridor?
- c. What are the local business needs for the corridor?
- d. What are the expectations and needs of the corridor users, including non-motorized users?
- e. How does TH 22 fit into the area's cultural/environmental context?
- f. What safety and operations needs exist that are necessary to address for current and anticipated future conditions?

4.2 Prepare Purpose and Need Statement

In line with the vision developed as part of Task 4.1, Contractor will prepare a Purpose and Need Statement (PNS)

(http://dotapp7.dot.state.mn.us/eDIGS_guest/DMResultSet/download?docId=2214550)

_ The PNS will take into consideration the information gathered by the Traffic Operations recent crash history processes and build on federal purpose and need guidelines, including:

- a. Project history/status
- b. System linkage
- c. System deficiencies

- d. Capacity needs
- e. Transportation, social, and economic demands
- f. Modal interrelationships
- g. Safety
- h. Instructure Conditions (e.g., pavement, structures, retaining walls, etc.)

The draft PNS will be reviewed by the PMT and revised based on feedback. Contractor will present the revised draft PNS to the PMT for approval.

Deliverables: Contractor will prepare a technical memorandum that documents the Vision and Goals as well as the developed Purpose and Need Statement by referencing all key needs and data sets.

Task 5.0: Intersection Control Evaluations (ICE) Reports (Source Type 1808)

- **5.1** Contractor will prepare full Intersection Control Evaluations (ICE) Reports for the following four intersections:
 - a. TH 22 and Old Minnesota Avenue
 - b. TH 22 and Washington Ave
 - c. TH 22 and Sunrise Dr
 - d. TH 22 and Klein St OR TH 22 and CR 20, per the direction of the PMT. The future of a CR 15 connection at Klein Street will be reviewed by project partners with the possibility of closing the CR 15 leg and instead concentrating traffic at the TH 22 and CR 20 intersection.

ICE reports will evaluate existing operations, as well as incorporate the future intersection operations and safety analyses done as part of Task 4 to determine the most appropriate long-term intersection control type for each intersection. Potential intersection control options include a No-Build alternative, signalization, roundabout control, or alternative designs (e.g.: addition of turn lane(s), conversion to RCUT, ³/₄ Right-In/Right-Out, or closure). The ICE reports will consider a minimum of two alternatives and will also provide full benefit-cost analysis for all considered alternatives. Enough alternatives must be considered to address any future deficiencies identified in Task 6.

Additionally, ICE reports should offer short-, mid-, and long-term recommendations for improvements to address identified deficiencies, as well as to improve intersection safety and operations, while aligning with the study vision and goals, defined in Task 4. All recommended improvements, as well as the associated time horizons and costs, are to be summarized in an ICE Improvements Summary technical memorandum.

Deliverables: ICE reports for all four above intersections on TH 22 and an ICE Improvements Summary technical memorandum.

Task 6.0: Traffic Simulation (Source Type 1808)

6.1 No Build Analysis

The contractor will project traffic volumes under 2028 and 2048 traffic conditions to understand future issues that could develop under changing travel characteristics in the study area and will assume no improvements to the corridors beyond those already programmed in the current STIP, or those budgeted for by the local partners. Traffic projections will be based on:

Historical growth in AADT, County factors, and expected development/growth in the area, using input from local City and State staff as a basis for growth estimates. In this process we will forecast the location and extent of future residential, commercial, and industrial development in the area. The Contractor will then use data from the Institute of Transportation Engineers to estimate changes in daily and peak hour traffic volumes on study area roadways.

Historic traffic patterns as a reasonableness check to traffic projections. If our traffic projections greatly vary from historic patterns, we will work with stakeholders to finalize traffic projections that will be used for future conditions analysis.

Using *Highway Capacity Manual* (HCM) methodology, and the traffic projection methodology detailed below, the Contractor is to establish future peak hour (AM and PM) traffic demands (volumes, corresponding Level of Service (LOS), and queuing) at all Highway 22 intersections. Additionally, the Contractor is to determine future demand and LOS along all study corridors.

Analysis should include traffic signal warrant as well as intersection and corridor capacity analyses to help identify potential needs to be addressed by the study, as well as future highway improvement projects. For evaluation purposes, LOS D or worse should be considered deficient.

Results from the above analyses for the two future periods are to be incorporated by the Contractor into the ICE reports generated in Task 7.

6.2 Vissim Model Development and Calibration

Contractor will develop Vissim traffic simulation models for the entire project area. This analysis will include roundabout calibration to the *Highway Capacity Manual* (HCM) 6th Edition, and will utilize optimized traffic signal timing for the modeled traffic volumes.

6.3 Traffic Operations Analysis

Contractor will evaluate traffic operations for all intersections in the project study area, based on Vissim simulation results. Traffic operations results will be presented in terms of delay per vehicle, queuing, travel times and associated level of service, based on delay thresholds prescribed in the *HCM*.

Deliverables: Future Conditions (No-Build) report with maps and graphic tables displaying future demand information, as well as future needs (e.g.: capacity deficiencies, satisfied signal warrants, etc.) are to be provided by the Contractor.

Traffic operations evaluation and safety analysis results for Vissim modeled intersections are to be included in the corresponding ICE Reports as well as summarized in map and report format for inclusion in the final study report. Contractor will develop 3D visualizations using Vissim microsimulation software to use during engagement efforts.

Task 7.0: Corridor Alternatives Development, Analysis and Screening/Evaluation (Source Type 1808)

Using a compilation of findings from the corridor vision, goal statements, existing and future conditions analyses, and issues identification process, a range of multi-modal improvements should be developed. Projects should be defined sufficiently for the public and agencies to understand the general scale and scope and to assess planning-level impacts and costs.

7.1 Corridor Alternatives Development

Contractor will work with the PMT to establish evaluation criteria that incorporate the corridor vision, established goals, purpose and need statement, and earlier public input on issues and needs. It is anticipated that environmental, social, and transportation performance factors, such as wetland impacts, level-of-service, multimodal connectivity, access management, transit opportunities, enhanced pedestrian crossings, safety, cost, etc., will be used to evaluate the concept alternatives.

Contractor will fully develop up to three (3) corridor improvement concepts on TH 22. Concepts will be based upon the corridor vision and identified issues with the potential for small-scale intersection or spot sub-options. In the early stages of concept development numerous alternatives will be reviewed.

The following project elements will be taken into consideration:

- a. Design Speed
- b. Lane Width
- c. Intersections
- d. Shoulder Width
- e. Lane configuration

Contractor will take all project elements into account when setting roadway alignments. Alignments will be set along TH22 to fit the existing corridor and meet the agreed upon design speed.

While most of TH22 will likely remain at its current profile, it may need to be changed depending on local topography to improve mainline traffic operations and other safety issues such as stopping distance as well as future State maintenance activities.

Intersection operations will be evaluated for each alternative to ensure their conceptual designs accommodate future traffic conditions. The alternatives will be analyzed against the evaluation criteria to determine how they rank relative to each (i.e., access management, safety, pedestrian accommodations, etc.).

7.2 Corridor Alternatives Analysis

Early alternative concept development will be performed with Bentley Concept Station (BCS) for cost efficiency and later refined using traditional State's concept development techniques.

7.3 Corridor Alternatives Screening/Evaluation

Contractor will compile impact assessment results. The results of the evaluation process will be presented in a matrix, organized so stakeholders can discern the relationship between study goals and the measurable criteria used to evaluate concepts.

State's Quality of Life Market Research study identifies mobility, accessibility, and safety, as primary factors impacting Minnesotans' quality of life. The contractor will use the following quality of life metrics to assess each transportation alternative:

- a. Safety
- b. Frustration
- c. Health and Equity
- d. Financial
- e. Impacts

After review by the PMT, data will be generalized into a "good, fair, or poor" format or a similar scale for public review. Contractor will prepare a critical characteristics chart

summarizing the most important alternative ratings by transportation, social, environmental, and cost categories. Similarly, for public review, Contractor will further summarize findings with an advantage/disadvantage chart.

The evaluation process, the evaluation matrices, and the draft ranking of concepts will be presented to the PMT for comment and refinement before presenting to resource agencies and the public for comments.

Contractor will work with the PMT to determine and document the "locally" preferred corridor concept. Contractor will develop up to two preferred concept designs. Upon the PMT's selection of the locally preferred corridor concept, Contractor will develop one final preferred concept design.

Contractor will review preliminary planning-level construction and right-of-way cost estimates and refine them for the locally preferred corridor plan. Construction cost estimates will be based on planning-level, cost-per-mile values that are typical for similar roadways in the study area. Right-of-way estimates will be based on per parcel or acreage values or another methodology that is mutually agreed upon.

Deliverables: Up to three fully developed corridor alternative exhibits consisting of 2-D horizontal linework; tracking of multiple iterations to refine; and ultimately one final preferred concept exhibit. The results of the Alternatives Analysis will be summarized in a report.

Task 8.0: Implementation Plan (Source Type 1808)

8.1 Based on the selected preferred corridor alternative, as well as recommended improvements contained within the ICE reports, Contractor will recommend specific strategies to the PMT to implement the proposed improvements on the study corridors.

Contractor will work with the PMT to identify issues that require immediate attention and items that should be built with a planned project.

Deliverables: Contractor will provide recommendations for identified improvements in a formal Implementation Plan report.

Task 9.0: Corridor Study Report (Source Type 1808)

- 9.1 The draft and final reports will document the study process, assumptions and methodology, analysis, findings, recommendations, and public involvement efforts. The technical memorandums produced throughout the corridor study process will be synthesized into one seamless final study report. Specific elements that will be incorporated into the draft and final reports including but not limited to:
 - a. An executive summary (to be used as a stand-alone document)
 - b. Existing and Future Issues identification
 - c. Corridor vision, goals, and purpose and need statement
 - d. Alternative roadway, trail, and landscape concept development, analysis, and evaluation (including planning-level cost estimates)
 - e. Corridor Issues Identification Technical Memorandum
 - f. Alternative Development and Assessment Technical Memorandum
 - g. ICE Improvement Summary Report
 - h. Locally preferred corridor concept
 - i. Implementation plan
 - j. Public and agency involvement activities and documentation

k. All other supporting data as appendices (e.g.: ICE Reports, Turning Movement Counts, etc.)

The Contractor will distribute electronic copies of the draft report and seek PMT comments after the Contractor has thoroughly reviewed the draft report. Typographical errors should be at a minimum. Contractor will revise the draft, as needed, based on feedback and provide one hardbound copy and one electronic copy to the state, city, and county. The Contractor is also responsible for posting the electronic version of the full, final, report as well as the executive summary to the project website. All documents will be provided to the PMT for further distribution.

Deliverables: One electronic copy (PDF) of the full final plan and one hardbound copy to the city, county, and state.

Communication

All communication will be in writing and agreed upon by the State's District 7 PM and the Contractor PM. If direction is provided via a telephone call, the Contractor PM will document the discussion and send to the State's District 7 PM for concurrence.

Tentative Project Schedule

The State is targeting a completion date of **January 31**, **2023** for all deliverables as described in this Scope of Work.

State-Provided Information

The State will provide the following information and data as requested by the contractor:

- 1. Existing Right-of-Way (RW) limits in digital format
- 2. Survey alignment of TH 22
- 3. Existing Survey Information (flight topography and mobile LIDAR)
- 4. State's electronic project directory standards and file naming standards
- 5. District 7 Design Guidelines
- 6. District 7 Traffic Guidelines
- 7. District 7 Hydraulic Guidelines
- 8. District 7 Survey Guidelines
- 9. District 7 Pavement Striping Guidance
- 10. Purpose & Need Statement Guidance per State's HPDP website.
- 11. Stakeholder Register
- 12. Crash data within project limits
- 13. 48-hour traffic video files
- 14. Material Recommendations
- 15. Action Item Log template
- 16. Scoping Report template

Nicollet County Board of Commissioners Board Meeting Agenda Item



Agenda Item: Consider Cooperative Construction Agreement for CSAH 5/Sunrise Dr/Broadway Ave. Roundabout Project									
Primary Originating Division/Dept.: Public Works/Highv	vay	Meeting Date: 07/26/2022							
Contact: Seth Greenwood, P.E. Title: PWD/Co	ounty Engineer	Item Type: _(Select One) Regular Agenda							
Amount of Time Requested: 10 minutes									
Presenter: Seth Greenwood, P.E. Title: PWD/Co	unty Engineer	Attachments: 💿 Yes 🔿 No							
County Strategy: (Select One) Facilities and Space - preserve, maintain and build our assets									
BACKGROUND/JUSTIFICATION:		0							
The City of Saint Peter and Nicollet County are cooperatively working CSAH 5, Sunrise Drive, and Broadway Avenue. Included in the packet	The City of Saint Peter and Nicollet County are cooperatively working on developing and constructing a roundabout at the intersection of CSAH 5, Sunrise Drive, and Broadway Avenue. Included in the packet is a copy of the cooperative construction agreement that identifies the roles and responsibilities (including financial and maintenance responsibilities) for the respective agencies in regards to this project.								
The County's cost responsibility identified in the agreement is based upon the low bid received by the City from Dirt Merchant, estimated engineering costs for the development and construction oversight for the project, and a prorated amount of LRIP funds. This amount is \$266,120.59 Actual County costs will ultimately be based upon final construction and engineering costs when project is complete and accepted.									
Project construction in anticipated to start August 2022 and be comple	ted this fall								
a roject construction in anticipated to start August 2022 and be comple									
Supporting Documents: O Attached O	In Signature Folder	O None							
Prior Board Action Taken on this Agenda Item:	Yes 🖸 No								
If "yes", when? (provide year; mm/dd/yy if known)									
Approved by County Attorney's Office:	Yes 🔿 No	N/A							
ACTION REQUESTED:									
Approve Cooperative Construction Agreement for CSAF	1 5/Sunrise Dr/Broadv	way Ave Roundabout Project							
		,							
FISCAL IMPACT: Included in current budget (Select One)	FUNDING County Dollars =								
If "Other", specify:	State	\$266,120.59							
	(Select One)	. ,							
FTE IMPACT: No FTE change (Select One)	Total: \$266,120.55	9							
If "Increase or "Decrease," specify:									
		funds. Actual value will be n project is complete.							

COOPERATIVE CONSTRUCTION AGREEMENT BETWEEN NICOLLET COUNTY AND THE CITY OF SAINT PETER FOR DESIGN, CONSTRUCTION, AND MAINTENANCE OF CSAH 5/SUNRISE DRIVE/BROADWAY AVENUE ROUNDABOUT

THIS AGREEMENT, made and entered into by and between the City of Saint Peter, a municipal corporation, organized under the laws of the State of Minnesota, party of the first part, hereinafter referred to as "City", and the County of Nicollet, Minnesota, a municipal corporation organized under the laws of the State of Minnesota, party of the second part, hereinafter referred to as "County";

WITNESSETH:

WHEREAS, The County and the City have been involved in discussions, studies, and preliminary engineering for the design, reconstruction, and improvement of the intersection of CSAH 5, Sunrise Drive, and Broadway Avenue, and

WHEREAS, Portions of the reconstruction and improvements to said intersection is necessitated due to the planned construction of the new Saint Peter Fire Hall, future traffic volume increases from City growth, and intersection safety issues identified in the Intersection Control Evaluation Study dated 03-23-2022, and

WHEREAS, The County and City desire to construct a roundabout at the intersection of CSAH 5, Sunrise Drive, and Broadway Avenue, and

WHEREAS, CSAH 5 is under the jurisdiction of the County for purposes of maintenance and improvements, and

WHEREAS, It is the desire of both parties to enter into a written document regarding the improvement and maintenance of said intersection of CSAH 5, Sunrise Drive/Broadway Avenue, and

NOW, THEREFORE, Pursuant to Minnesota Statutes 471.59 and in consideration of the mutual covenants and promises hereinafter contained, it is agreed by and between the City of Saint Peter and Nicollet County as follows:

A. That this agreement shall apply only to the improvements and maintenance of CSAH 5 at the intersection of CSAH 5/Broadway Avenue/Sunrise Drive.

B. Prosecution of work will be performed on the following basis.

City of Saint Peter will:

- 1) Prepare construction plans and specifications with an estimate of cost for the construction project.
- 2) Act as the contracting agency for the construction project in accordance with the competitive bidding requirements of Minnesota Statutes 471.345 and 375.21.
- 3) Provide the necessary surveying and construction inspection engineering services for the project.
- 4) Provide a registered professional engineer to prepare the construction plans and specifications and to supervise the construction of the project. Said supervision shall include keeping adequate records to document the quality of construction and the substantiation of pay quantities.
- 5) Maintain the project open to inspection by the County or their duly authorized representatives.
- 6) Obtain the written approval of the County for any change in work orders or supplemental agreements to the contractor involving work in which the County is cost participating, prior to the performance of such work when feasible.
- C. The City agrees to do all things necessary for the construction of said project except as set forth in this agreement. Said project on CSAH 5 is to be constructed, consistent with current City, County, and State Aid standards.
- D. It is agreed by and between the parties hereto that the City shall diligently pursue any necessary permanent road right-of-way and permanent/temporary easements for the construction of said project and is responsible for all costs associated with acquiring the permanent road right-of-way and permanent/temporary easements.
- E. The County has adopted a Policy for the division of costs for improvements to County Highways within a municipality, said Policy being adopted by the Nicollet County Board of Commissioners on September 22, 2009, a copy of which is attached hereto, and made a part hereof for reference, shall apply to the improvements on the hereinbefore described CSAH 5 with the following modifications or additions:
 - 1. The construction cost of a roundabout is split by approach leg and shall include all components associated with that leg of approach, including the center raised median, curb, truck apron, and roadway markings. See Exhibit A.
 - 2. See Exhibit B for maintenance responsibilities at roundabouts. All maintenance for the raised center circle shall be performed by the City.

- F. The method of financing the portion of the improvement project within the City of Saint Peter shall be the prerogative of Nicollet County and the City of Saint Peter. Funding of the project is subject to the following provisions:
 - 1) CONSTRUCTION COSTS:

Nicollet County and the City of Saint Peter will share in the final construction costs for roadway improvements as defined in said County Cost Participation Policy and this agreement for the division of project costs. See Exhibit C (Estimate Based on Low Bid).

2) ENGINEERING COSTS:

Nicollet County will reimburse the City of Saint Peter a prorated amount of the final total costs incurred pursuant to Section B of this agreement. The prorated amount will be determined by Nicollet County's percentage share of the project's final construction costs. See Exhibit D (Based on Low Bid).

3) LOCAL ROAD IMPROVEMENT (LRIP) FUNDS:

The City of Saint Peter will apply a proportional amount of LRIP funds to Nicollet County's share of the project's final LIRP eligible construction costs. See Exhibit D (Based on Low Bid).

- 4) REIMBURSEMENTS:
 - a. During each month of the term of the construction project, the City of Saint Peter will bill Nicollet County for its share of the construction and engineering costs.
 Nicollet County will reimburse the City of Saint Peter within forty-five (45) days for any balance due.
 - b. Upon completion and final acceptance of the project, and receipt of a detailed listing of the project's final construction costs, engineering cost splits, and LRIP fund splits (Updated Exhibit C and D for Actual Costs and LRIP Splits), Nicollet County will reimburse the City of Saint Peter within forty-five (45) days for any balance due.
- G. The City of Saint Peter agrees to save, hold harmless and indemnify Nicollet County and the County's officers, agents, employees, and volunteer workers against any and all claims, losses, damages, or law suits for damages arising from, allegedly arising from, or related to the provisions of services hereunder, and further the City agrees to defend at its own sole cost and expense any action for proceeding commenced for the purpose of asserting any claim of whatsoever character arising as a result of the provision of services hereunder.

The County agrees to save, hold harmless and indemnify the City of Saint Peter and the City's officers, agents, employees, and volunteer workers against any and all claims, losses, or lawsuits for damages arising from, allegedly arising from, or related to the County's provision of services hereunder, and further the County agrees to defend at its own sole cost and expense any action or proceeding commenced for the purpose of asserting any claim of whatsoever character arising as a result of the County's provision of services hereunder.

It is hereby understood and agreed that any and all employees of the County and all other persons employed by the County in the performance of the provisions of services hereunder shall not be considered employees of the City and that any and all claims that may or might arise under the Worker's Compensation Act of the State of Minnesota on behalf of said employees while so engaged and any and all claims made by third parties as a consequence of any act or omission on the part of said County employees while so engaged in the performance of any of the provisions of services hereunder shall in no way be the obligation or responsibility of the City.

It is hereby understood and agreed that any and all employees of the City and all other persons employed by the City in the performance of the provisions of services hereunder shall not be considered employees of the County and that any and all claims that may or might arise under the Worker's Compensation Act of the State of Minnesota on behalf of said employees while so engaged and any and all claims made by third parties as a consequence of any act or omission on the part of said City employees while so engaged in the performance of any of the provisions of services hereunder shall in no way be the obligation or responsibility of the County.

H. Pursuant to Minnesota Statute 16C.05, Subd. 5, the City agrees that the County, the State Auditor, or any of their duly authorized representatives at any time during normal business hours and as often as they may reasonably deem necessary, shall have access to and the right to examine, audit, excerpt, and transcribe any books, documents, papers, records, etc., which are pertinent to the accounting practices and procedures of the County and involve transactions relating to this Agreement.

The City agrees to maintain these records for a period of six years upon the completion and final acceptance of the project.

I. Pursuant to Minnesota Statute 16C.05, Subd. 5, the County agrees that the City, the State Auditor, or any of their duly authorized representatives at any time during normal business hours and as often as they may reasonably deem necessary, shall have access to and the right to examine, audit, excerpt, and transcribe any books, documents, papers, records, etc., which are pertinent to the accounting practices and procedures of the County and involve transactions relating to this Agreement.

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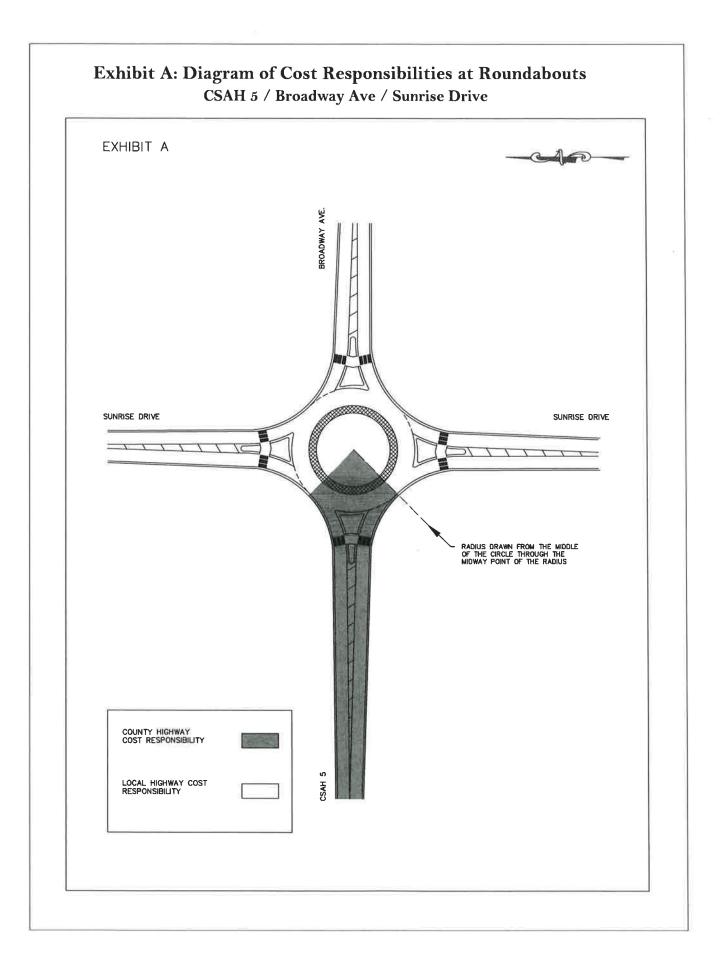
J. During the performance of this Agreement, the City and the County agree to the following:

No person shall, on the grounds of race, color, religion, age, sex, disability, marital status, public assistance status, criminal record, creed or national origin be excluded from full employment right in, participation in, be denied the benefits of or be otherwise subjected to discrimination under any and all applicable Federal and State laws against discrimination.

K₁ Each party agrees that any modification of this agreement will be in writing and will be signed by the parties hereto.

IN TESTIMONY WHEREOF, The parties hereto have caused these presents to be executed.

City of Saint Peter, Minnesota	Nicollet County, Minnesota
Mayor, City of Saint Peter	Nicollet County Board Chair
Date:	Date:
Attest:	Attest:
City Administrator/Clerk	County Administrator
Date:	Date:
Approved As To Form:	Approved As To Form:
City Attorney	County Attorney
Date:	Date:



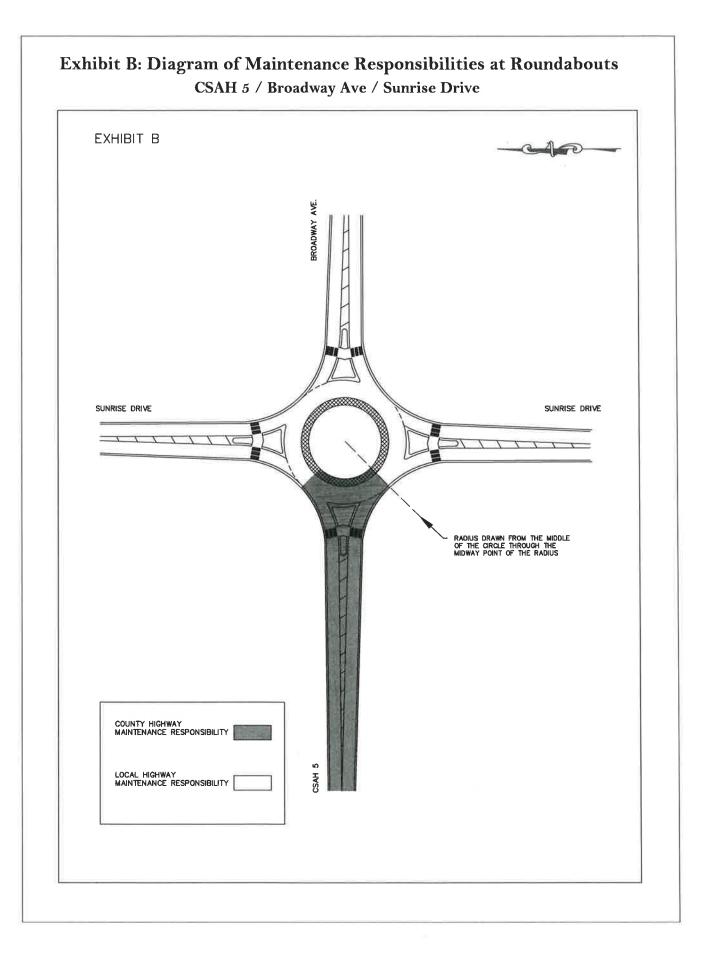


Exhibit C Page 1 of 2

ESTIMATE BASED ON LOW BID

2022 BROADWAY AVENUE AND SUNRISE DRIVE INTERSECTION IMPROVEMENTS SAP 165-106-006 AND SAP 052-605-063 CITY OF SAINT PETER, MN BMI PROJECT NO, OM1.25237 HIGTPROVIDERSPL, Dengink, Caladianov(12527 Quart abs/§51mare Bined on Low Bid

										T	Dark Former Training	185 100 200 741			PARTICIPATING S	AD 057 605 062 /	B1		7/1/2022
									TOTALS	PARTICIPATING 165-106-006 (A) PARTICIPATING SAP 052-605-063 (B) (DRIP ELIGIBLE) (LRIP ELIGIBLE)		u,	NON PAR	RTICIPATING					
									UTALS	804	DWAY .		ESEWIN	ada	DWAY	STORN	SEWER		
													1		1	-			Terrere
							LOW BO		ESTIMATED		ESTIMATED		ESTIMATED		ESTIMATED		ESTIMATED		ESTIMATED
LINE	TAB	ITEM	EXT				UNIT	ESTIMATED	CONSTRUCTION	ESTIMATED	CONSTRUCTION	ESTIMATED	CONSTRUCTION	ESTIMATED	CONSTRUCTION	ESTIMATED	CONSTRUCTION	ESTIMATED	CONSTRUCTIO
NO	TAB	NO	NO	ITEM	NOTES	UNIT	PRICE	QUANTITY	COST	QUANTITY	COST	QUANTITY	C051	QUANTITY	COST	QUANTITY	6057	QUANTITY	COST
USQL.	<u> </u>	NO.	INCL	11219	norta				0745										
1	-	2021 501	00010	MOBILIZATION		IUMP SUM	\$205,800.43	1	\$205,300.43	0.57	\$117,031.3%	0.15	\$32,648.07	0.2	541,060.05	6.63	\$6,159.01	0.04	\$4,212.02
	-	1000-000	00010	The second se							1.000								
.9	A .	2101.502	00020	CLEARING		EACH	\$600.00		\$4,800.00	1	\$600.00			2	\$4,200.00				
- ;	A	2101 502		GRUSSING		EACH	\$600.00		54,800.00	1	\$600.00			3	\$4,200.00				
		1. 610 6 500				a first from													
4	1 1	2102.503	00010	PAVEMENT MARKING REMOVAL		UN FT	51.00	1035	\$1,035.00	130	\$130.00			505	\$905.00				
5	1	2102.518	00010	PAVEMENT MARKING REMOVAL		SQFT	\$3.00	168	\$504 D0	168	\$504.00								
										1									
- 6	1	2104.502	00#50	REMOVE GATE VALVE & BOX		EACH	\$300.00	2	\$600.00									2	\$600.00
7		2104.502		REMOVE HYDRANT		EACH	\$400.00	1	5400 00						150.22			1	\$400.00
	A	2104.502	00910	REMOVE DRAINAGE STRUCTURE		EACH	\$300.00	18	\$5,400.00	16	\$4,800.00			2	\$600.00				
- 0			01220	REMOVE SIGN		EACH	\$50.00	14	\$700.00	5	\$450.00		1	.5	\$250.00				
10	1	2104 502	03300	SALVAGE SIGN		EACH	\$50.00	. 6	\$400.00	5.	\$250.00			1	\$150.00				
11		2104 503		REMOVE PIPE CULVERTS	(4)	UN FT	\$10.00	52	\$520.00	52	\$520.00								
12	A	2104 503	00315	REMOVE CURB AND GUTTER		UNIT	\$1.00	2102	\$6,306.00	1378	\$4,134.00			724	\$2,172.00				
13		2104.504	DOOONO	REMOVE CONCRETE GRIVEWAY PAVEMENT		50,40	\$6.00	45	\$\$10.00	85	\$\$10.00								-
14	A	2104.504		REMOVE CONCRETE PAVEMENT		50.70	\$4,70	1580	\$7,426.00		1 march 1			1580	\$7,426.00				
15	A	2104 504	00120	REMOVE BITUM INDUS PAVENTINT		SG YD	54.50	\$070	\$22,815.00	5055	\$22,747.50			15	567.50		-	_	
16	A	2104.518	00100	REMOVE BITUMINOUS WALK		5(2)11	\$0.45	5516	S4,282.20	#056	\$3,623.20			1460	\$657.00				
17				REMOVE CONCRETE WALK		SQ FT	50.55	7030	\$3,866.50	4600	\$2,530.00			2430	\$1,336.50		-		+
18		2104 607	00400	SALVAGE SIGN SPECIAL	(5)	EACH	\$2,000 00	1	\$2,000 00	1	52,000 00								
40	-																		
19	1	2106 507	00010	EXCAVATION COMMON	(#)	CU YD	\$12.70	6894	\$87,553 80	\$357	\$68,033.90			1537	\$19,519,90				
20		2105 507		COMMON EMBANKMENT (CV)	(#)	CU YD	S8 00	1366	\$10,928,00	1098	\$8 784 00			768	\$2,144.00				
~~	-	1																	
21		2108 604	00030	SOIL STABILIZATION GEOGRID	(1)	SQ YD	\$4 30	2331	\$10,023.30	1789	\$7,692 70			\$42	\$2,330.60	1	-		
																	-	-	
22	4	2118 509	00030	AGGREGATE SURFACING CLASS 2	(3)	TON	\$76 55	21	\$1,607 55	21	\$1,607.55								
44		1110 505	00000																-
23		2123.510	00010	COMMON LABORERS	(1)(2)	HOUR	\$95.00	40	\$3 800 00	25	\$2,375.00			10	5950.00	1		5	\$475.00
24	-	2123 510		3.0 CU YO SHOVEL	(1)(2)	HOUR	\$265 OO	20	\$5,300.00	10	\$2,650.00			(5)	51,323.00			5	51,325.00
25	-	2123 510	00130		0001	HOUR	\$245.00	20	\$4,900.00	10	\$2,450.00			Š	\$1,225.00			5	\$1,225.00
26	<u> </u>	2123 510		10 CU YO TRUCK	(1)(2)	HOUR	\$120.00	20	\$2,400.00	30	\$1,200.00			5	\$600.00			5	\$600.00
27	+	2123 510	00750	4 0 CU YD FRONT ENOLOADER	(1)(2)	HOUR	\$165.00	20	\$3,300 00	10	\$1,650.00			5	\$825.00			<u>\$</u>	\$825.00
28	<u> </u>	2123 510	00290	TAMPING ROLLER	(1)(2)	HOUA	\$120.00	20	\$2,400.00	19	\$1,200.00			5	\$400.00			5	\$600.00
29	+	2123 610	00370	SKID LØADER	(1)(2)	HOUR	\$135.00	40	\$5,400.00	75	\$3,375.00			10	51,150.00			3	\$675.00
	+			ALCOLUMN.			· · · · · · · · · · · · · · · · · · ·												
30	8	2211 507	00170	AGGREGATE BASE (CV) CLASS 3	(*)	CU YD	\$40.15	2958	\$118,763 70	2235	\$89,735 25			723	\$29,028.45				
	<u> </u>	-																	
31	c	2301 504	00070	CONCRETE PAVEMENT 7.0"		SQ YD	\$90.15	4100	\$369,656.00	2660	\$239,825.60			1440	\$129,830,40		-		
32	- c	2301.508		SUPPLEMENTAL PAVEMENT REINFORCEMENT		POUND	\$3.08	11240	\$34.619.20	8572	\$76.395.60			2670	58,223,60	-			
13	C	7301 607	00070	1.0" DOWIL BAR		EACH	\$14.07	30)0	\$13,011.40	2010	\$28,460.60			1040	514,540.80				
34	6	2301 602	00000	ORILLAND GROUT DOWLE BAR (LPDXY COATED)		EACH	\$16.40	.27	\$442.82		-			21	5443.80				
35	C-1	2301 607		ORILL AND GROUT RUNF BAR (LPDXY COATED)		EACH	\$4.29	250	\$2,047.50	108	\$884.57			:47	\$1,162.98				
36	C	2301.604	02040	CONCRETE PAVEMENT (SPECIAL)	(5)	5Q.YD	\$157.51	335	552,923.36	253	\$39.850.03			13	\$13,073.33				
										1									
37	6	2360 509	13300	TYPE SP 9.5 WEARING COURSE MIKTURE (3.C)	(3)	TON	\$101.00	288	\$29,088.00	268	\$29,088.00								
38	c	2360 509	23300	TYPE SP 12.5 WEARING COURSE MOXTURE (3.C)	(3)	TON	\$101.00	326	\$32,976.00	325	\$32,926.00								+
		1	S 5																+
39	0	2501 502	44015	15" RC SAFETY APRON	(7)	EACH	\$1,615.00	1	\$1,615.00			:1	51,613.00						
						1	1												+
40	D	2502 503	01060	ST TP PUPE DRAIN		LIN FT	\$37 25	87	\$3,240.75			87	\$1,240.75						+
-	-	1	0 0										10000		+	87	\$5,572.35		+
41	0	2503 503	19125	12" RC FIRE SEWER DESIGN 3006 CLASS V		LIN FT	\$64.05	518	\$33,177.90	-		431	527,605.55				33,372.35		
42	0	2503 503	19155	15" RC PIPE SEWER DESIGN 3006 CLASS V		LIN FT	\$75.95	45	\$3,417.75			45	53,41775 53,41775						
43	D	2503 503	19183	18" RC PIPE SEWER DESIGN 3006 CLASS IN		UNET	\$81.10	47	\$3,811.70			47	51,811 70 528,181.25			1			
	D	2503.503	19243	24" HE PIPE SEWER DESIGN 3006 CLASS III		LIN FT	\$125.25	225	\$28,181 25			225	\$41,543,75			243	\$34,931.25		
45	D	3503.503	19303	30" AC PIPE SEWER DESIGN 3006 CLASS III		UN 71	\$141.75	532	\$75.475.00			289	211,242.75					16	\$1,711.20
46		2503.503	19151	15" RC FIFE SEWER DESIGN 3006 SPECIAL	(8)	LIN FT	\$105.95	16	51,711.20 557,116.00									360	\$37,116.00
43		7503 503	19181	18" RC PIPE SEWER DESIGN 3006 SPECIAL	(31)	DN FT	\$103.10	300	\$2,820,45				-		-	-		59	\$7.B20.45
42		2503.503	19241	24" RC FIRE SLWER DESIGN 1006 SPECIAL	(#)	LIN FT	\$132.55	59				5	\$2,500.00		-	1	\$500.00		-
	D	2503.602	00320	CONNECT TO CRISTING STORM SEWER		EACH	5500.00	6	\$1.000.00 \$500.00		-	1	\$500.00				1		
50	0	2503 602		CONNECT INTO EXISTING DRAINAGE STRUCTURE		EACH	\$500.00	1	\$16.013.00	1272	\$15,200.40		00000	68	\$812.60				
51	A	2503.603	20270	PLUG FILL AND ASANDON PIPE SEWER		LIN FT	\$11.95	1340	218/013/00	1212	313,200.40				1	1			
	-					EACH	\$2,500.00	N-	55,000 00									2	\$5.000.00
- 52	Ê.	7504.607	00010	CONNECT TO EXISTING WATER MAIN		EACH	\$2,500.00		\$5.395.00									1	\$5,395.00
53	1 -	2504.602	00020	INDRANI	(0)	FACH	\$5,395.00	1	\$300.00									1	\$300.00
54	F	2504.602		ADJUST VALVE BOX	(9)	EACH	\$2,460.00	1	53,460.00		-							ī	52,460.00
55	1	2504.602		6' GATE VALVE & BOX		EACH	\$6.110.00		\$6,110.00		1							:	\$6,110.00
56		2504.602	00812	12" GATE VALVE & BOX		UNET	\$202.50	E.	\$1,215.00		-							6	\$1,215.00
57	1	2504.603	01063	6" WATERMAIN DUCTILE IRON CL 52		UN FT	\$172.60	60	\$10,356.00	1	-							60	\$10,856.00
58	F	2504.603	01122	12" WATERMAIN DUCTLE IRON CLSP				30	\$1,065.00									30	\$1,065.00
59		2504 604	01100	4" POLYSTYRENE INSULATION		SQ YD POUND	\$35 50 \$17 00	240	\$4,080 00							1		240	\$4,080 00
60	F	2504.608	00015	WATERMAIN FITTINGS		POUND	\$17.00	240	24,000 00						-	7			
_	1		-	CARTING ADDRESS		EACH	\$995.00	40	\$39,800.00			35	\$34,825.00			5	\$4,975.00		
61	3.0	2506.502		CASTING ASSEMBLY ADJUST FRAME AND RING CASTING		EACH	5500.00	1	\$500.00				200000					1	\$500.00
52	+	2506 502			[13]	EACH	\$12,545.00	1	\$12,545.00			1	\$17,545.00						1
63	D	2506-502	00301	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPLCIAL 1	1491	LIN FT	\$12,545.00	9.6	\$6,336.00		1	96	\$6.336.00						1
64		2506 503	00070	CONSTRUCT DRAMAGE STRUCTURE DESIGN ()	(11)	LIN FT	\$630.00	63	539,590 00		-	56.3	\$35,469.00			6.7	\$4,221.00		
65	P	2506 503	00302	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 2	(11)	LIN FT	\$710 50	149.6	\$106,432,90			135.3	\$96,130.65			14 5	\$10.302.25		1
66			02430	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020		LINEI	5/10 50	143.0	0.000.002.00										



Date: 7/5/2022

Exhibit C Page 2 of 2

ESTIMATE BASED ON LOW BID

2022 BROADWAY AVENUE AND SUNRISE DRIVE INTERSECTION IMPROVEMENTS SAP 165-106-006 AND SAP 052-605-063 CITY OF SAINT PETER, MN BMI PROJECT NO. 0M1 125237 H \STPE\0M1125237\3_Design\A_Calculations\[125237 Quant xlsx|Estimate Based on Low Bid

					PARTICIPATING 155 105 005 (A) PARTICIPATING 5A90 TOTALS (URF ELGIDAL) (LAP ELGI		057-605-063 ((GIBLE)	GIBLE) NON PARTICIPATING											
								(L	101823		KONOWAY STORM SEWER		A SEWER	HOA	DWAY.	STORM SEWER			
NE D.	ТАВ	ITEM NO	EXT,	ITEM	NOTES	UNIT	LOW BID UNIT PRICE	ESTIMATED	ESTIMATED CONSTRUCTION COST	ESTIMATED	ESTIMATED CONSTRUCTION COST	ESTIMATED	ESTIMATED CONSTRUCTION COST	ESTIMATED QUANTITY	ESTIMATED CONSTRUCTION COST	ESTIMATED	ESTIMATED CONSTRUCTION COST	ESTIMATED	ESTIMATED CONSTRUCTIO
67	0	2506.503		CONSTRUCT ORAINAGE STRUCTURE DESIGN 60-4020	Nores	UNFT	\$917.25	59.3	554.096.43			41.1	537,491.48			18.2	\$16,607.95		
14		2505.503	03630			104 41	\$1,348.30	10.6	\$14,291.98			10.6	\$14,791.98						
49		2506.602		MODIFY DRAINAGE STRUCTURE	(12)	TACH	\$3,150.00	1	\$1,150.00									1	\$1,550.00
	-																1		
70	5	2521.518	00040	4" CONCRETE WALK		SQFT	55.41	14610	579,040.10	1085-3	558.698.50			3750	\$20.341.60				-
21-	G	2521.518	00060	6" CONCRETE WALK		SQIT	\$2.77	1380	\$65,112.60	\$900	\$45,843.00			2480	518,269,40		1		
73	6	2521.518	00130	3" BITUMINOUS WALK		SOFT	51.40	160	\$1.224.00	360	51,224.00								
						1					1								
23	- C	2531.503		CONCRETE CURB AND GUTTER DCSIGN \$617		UNET	534.22	204	\$7,090.95	157	\$5,356.84			51	\$1,740.12				
74	4	2531.503	02320			UNTT	\$26.80	2890	\$77,452.00	2205	\$59,094.00			685	\$18.358.00 \$2.598.80				
75	- 6	2531.503	18110			UN FT	\$35.60	296	\$10,537,60	223	\$7,938.80 \$70,965.80			75	\$12,377,40				+
76		2531.503		CONCRETT CURB AND GUTTER DESIGN \$512		00N 93	\$23.76	1320	533,343.20 513,762.80	830	08.507.622			499	317.117.49				
\overline{n}		2531.504				50 YD	\$76.46 \$84.77	150	527,974.10	180	\$22,924.10						-		
78	-6 H	2531.504		2" CONCRETE DRIVE WAY PAVEMENT TRUNCATED DDMES		50 FT	539.15	240	\$9,316.00	180	57,047.00			60	52.349.00				
79	<u>n</u>	2531.618	00010	TRUNCATED DOMES		-3471	237-13				Sat Jacate Ber		-						
80	14	2545.502	00101	UGHTING UNIT TYPE SPECIAL 1	(13)	EACH	\$3.980.00	11	\$43,780.00	11	\$42,780.00								
81		2545 502		LIGHT FOUNDATION DESIGN SPECIAL	(13)	EACH	\$1,200.00	11	\$13,200.00	11	\$53,200.00								
12		2545 501		1.25" NON METALLIC CONDUIT	(13)	LIN FT	56.50	1750	\$11,375.00	1750	\$11,375.00								
11		2545.503		UNDERGROUND WIRE 1 COND NO 6	(13)	UNFI	51.95	2500	\$14,633.00	7500	\$14,625.00								
.14	-	2563.601	00010	TRAFFIC CONTROL		LUMP SUM	\$17,000.00	1	\$17,000 00	0.57	\$5,650.00	0.15	\$2,720.00	0.2	\$3,400.00	0.03	\$510.00	0.04	\$480.00
85	12	7564.502	01402	OBJECT MARKER		LACH	\$100.00	4	\$400.00		\$360.00			1	\$100.00				
26	1	7564.518	00130	SIGN PANELS TYPE C		5077	5110.00	297.75	\$37,202.50	215.17	\$23,668.70			77.58	58.533.80		-		
87	01 1	2564.518				SQFT	5190.00	:47	\$7,560.00	30.75	\$5,842.50	_		11.25	57,137.50		-		
88	1	2564.607		INSTAIL SIGN		EACH	\$500.00	8	\$4,000.00	5	\$2,500.00			1	\$1,500.00				
82		2564.602	01820	INSTALL SIGN TYPE SPECIAL	151	EACH	\$3,000.00	1	\$3,000.00	1	\$3,000.00		-						+
					-				\$1.950.00	10	51,500,00			3	\$450.00				
-90		2571.502	72600	PERENNIAL 6" CONT	(14)	EACH	5150.00	13	51.959.00	10	31,990.00				100000				+
						IUMP SUM	\$2,500.00	1	\$7,500.00	0.75	51:875:00			0.25	\$625.00				1
91		2573.501				LACH	\$2,500.00	50	\$10,000.00	43	58.600.00			7	\$1,400.00				
92		2573 502	and and it is started with the	And a fully of the state of the		11117	\$2.25	400	\$900.00	400	\$900.00				000000				
53	×	2573.503	00061	Scowert contract country wood hate		-4/14 = 3	Aliad		2001.00										
- 14		2574.507	00104	BOULEWARD TOPSON ROMAOW	(00)	CU YD	\$21.20	210	\$5,297.00	92	\$7,268.00			120	53.024.00				
73		2574.508		FERTILIZER SYPE 3	(1)	POUND	50.90	391	\$351.90	3327	\$343.80			9	\$8.10				
16	К	2574.505	00014	FERTICIZER TYPE 4	(3)	POUND	\$1.00	12	S12 00	9	S9 CO			<u>1</u>	\$3.00				
		1				1								_			-		
97	×	2575.504	00315	ROLLED EROSION PREVENTION CATEGORY 15		SQ YD	\$2.30	500	- 51,150 00	410	\$943.00			90	\$207.00				
54	- K	2575.505		SEEDING	(15)	ACRE	\$350.00	2.8	\$980.00	2.18	\$763.00			0.62	\$217.00 \$31.00				
.99	K	2575 S08		SEED MIXTURE 22-111	(1)(3)	FOUND	\$1.00	140	\$140.00	109	\$109.00			31	5422.30				
100	К	2575 508		STID MIXTURE 75-131	(\$)	HOUND	\$4.10	464	\$1,902.40 \$185.00	361	51,480 10			1.5	\$41.25				+
101		2575.508			(3)	POUND	527.50	7000	\$7,350.00	5450	\$5,722.50			1550	\$1,627 50				
102	×	2575.508	40001	HYDRAULIC MULCH MATKIX	(1)(15)	POUND	\$1.05	7000	37,330.00	3430	30,190.34			1550	CALIF. I. D.	_		_	1
	-		10101	4" SOUD LINE MULTI COMPONENT GROUND IN (WR)		LIN FT	\$1.55	1555	\$7,425,75	1015	\$1.573.25			550	5852.50				
103	1	2582 503 2582 503		14" SOLID LINE MULTI-COMPONENT GROUND IN (WR)		LIN FT	\$1.90	3340	\$6,346.00	2490	54,731.00	· · · · · ·		850	\$1,615.00				
104		2582.503		24" SOLID LINE MULTI-COMPONENT GROUND IN (WR)		104 #1	\$18.80	245	\$4,606.00	210	53,948.00			35	\$655.00				-
105	1	2582.503		4" BROKEN LINE MULTI-COMPONENT GROUND IN (WR)		1114 #1	\$1.55	20	\$31.00	20	531.00								
107	1	2587.503		4" DOUBLE SOUD LINE MULTI-COMPONENT GROUND IN (WR)		UN #1	\$3.10	2540	\$7,874.00	2040	56,324.00			500	\$1,550.00				
108		2582.503		12" DOTTED LINE PREFORM THERMO GROUND IN		LINFT	\$21.00	78	\$1,638.00	57	\$1,197.00			21	\$441.00			_	
105	1	2582.518		PAVEMENT MESSAGE PREFORM THERMOPLASTIC GROUND IN		SQIT	\$30.00	52.04	51,551.20	52.04	\$1,561.20				and the second s				
\$10	1	2582.518	08020	CROSSWALK PREFORM THERMOPLASTIC GROUND IN	141	SQIT	\$20.85	\$76	\$17,001,60	432	\$2,007.20			144	53,002.40				+
111	1	2587.618	09000	PAVEMENT MARKING SPICIAL	(\$6)	5011	514.70	140	\$7,058,00	105	\$1,543.50			35	\$514.50				
					TOTAL EST	TIMATED CONST	RUCTION COST		\$2,163,433.76		\$1,194,245.44		\$385,074.93		\$400,443.92		\$83,773.81		\$99,895
					0.0000000000000000000000000000000000000	a sound is the most of the life													
													0.160		0.200		0 030		00

(8) 100% STATE (CSAH)

191 DENOTES PLANNED QUANTITY

(CV) DENOTES COMPACTED VOLUME QUANTITY

(1) QUANTITY IS STRICTLY AN ESTIMATE AND MAY BE INCREASED OR DECREASED BY ANY AMOUNT WITHOUT A CHANGE IN THE UNIT PRICE BID. (2) ITEM TO BE USED FOR EXPLORATORY EXCAVATION AND OTHER MISCELLAREOUS WORK AS DIRECTED BY THE ENGINEER. (3) SEE INJOINDUL TASS FOR BASIS OF QUANTITS.

(3) SEE INDIVIDUE TASK FOR BASIS DF CULANTITIES
 (1) TTUS INCLUDES REMOVALO A PARODAS IP PRESENT
 (5) ITEMS TO BE LISED FOR SALVAGING AND INSTALLING EXEMPTION MASONRY CHURCH SIGN AS SHOWN IN THE PLANS
 (6) ITEM TO BE LISED FOR INTEGRALLY COLORED CONCRETE PAVEMENT IN THE LOCATIONS SHOWN IN THE PLANS
 (7) SAFEY GRATES IN OT REGURADE. TIE 3 LONIST ADJACENT TO APRON.
 (8) ITEM TO BE LISED FOR INTEGRATED RC PIPE SEWER. SEE DETAIL ON SHEET CL DG.
 (9) ITEM INCLUDES RALINGINGENT OF ENTRY WITH MERGAST BARFLE WALL. SEE DETAIL ON SHEET CL DG.
 (10) ITEM TO BE LUSED FOR SIZE CATCH BANK PRE SAINT FETRI STATAMARD DETAIL PLANS
 (10) ITEM TO BE LUSED FOR DAVINGE STRUCTURE WITH MERGAST BARFLE WALL. SEE DETAIL ON SHEET CL DG
 (11) ITEM TO BE LUSED FOR SIZE CATCH BANK PRE SAINT FETRI STATAMARD DETAIL PLANS
 (12) ITEM TO BE LUSED FOR SIZE CATCH BANK PRE SAINT FETRI STATAMARD DETAIL PLANS
 (12) ITEM TO BE LUSED FOR SIZE CATCH BANK PRE SAINT FETRI STATAM ADARD DETAIL PLANS
 (13) THE OTBER SHALL RESEAVE THE RIGHT TO ELIMINATE THIS WORK FROM THE CONTRACT.
 (14) QUANTITY INCLUDES EARLONG PRE SINCE SAINT FETRI STATAM RAMENDE AS SHOWN IN THE PLANS.
 (13) THE OTBER SHALL RESEAVE THE RIGHT TO ELIMINATE THIS WORK FROM THE CONTRACT.
 (14) QUANTITY INCLUDES EARLONG PREVERIES INCLUDE EXPERIMENTER INCLUDE THE PROPARAYSELDING

(15) SEEDING & MULCH QUANTITIES INCLUDE TEMPORARY SEEDING (16) ITEM TO BE USED FOR MARKING MEDIAN NOSES AS SHOWN IN THE PLANS.



Date: 7/5/2022

2022 BROADWAY/SUNRISE LOW BID PROJECT COST BREAKDOWN - 7/12/2022

	Construction Soft Costs	Prorated City/County	100% City					
	LRIP Funding Application & Cost Estimate Preparation	\$5,000.00						
	ICE Study	\$27,399.00						
	Topo, Design, Specifications, Bidding	\$131,810.00						
	ROW/Easement Descriptions & Title Reports		\$7,690.00					
	ROW Costs / Legal Docs for Temp Easement and Title Transfer		\$2,546.00					
	Construction Staking, Admin	\$115,000.00						
	Construction Testing	\$30,000.00						
	Full Time Construction Observation (By City)	\$28,800.00						
	Total	\$338,009.00	\$10,236.00					
	% of Const Cost	15.6%	0.5%					
			LRIP Funding App, ICE,		TOTAL	% LRIP	SHARE OF	
			Topo, Design, Const		(CONST+ENG+	(BASED ON ELIGIBLE	\$1,250,000 LRIP	REMAINING BALANCE PAID BY
		CONSTRUCTION COST	Staking, Admin, Testing, Inspect	DOW COST	ROW)	CONST COST)	FUNDING	MSA/CSAH/LOCAL
	SUMMARY OF COST SPLIT	CONSTRUCTION COST	Inspect	ROW COST	1000			
	165-016-006 ROADWAY	\$1,194,245.44	\$186,585.65	\$7,740.23	\$1,388,571.32			
CITY	165-016-006 STORM	\$385,074.93	\$60,163.06	\$2,495.77	\$447,733.76			
	102-010-000 31 OKIM	5505,074.55	\$66,105.00	<i>42,133177</i>	<i>\(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>			
	SUBTOTAL	\$1,579,320.37	\$246,748.71	\$10,236.00	\$1,836,305.08	76.5%	\$956,250	\$880,055.08
	052-605-063 ROADWAY	\$400,443.92	\$62,564.27		\$463,008.19			
COUNTY	052-605-063 STORM	\$83,773.81	\$13,088.59		\$96,862.40			
	SUBTOTAL	\$484,217.73	\$75,652,86		\$559,870.59	23.5%	\$293,750	\$266,120.59
CITY	LOCAL STORM & WATERMAIN	\$99,895,67	\$15,607.43		\$115,503_10			\$115,503.10
		40.400.400.77	£222.002.00	¢10.226.00	63 511 679 77	100%	\$1,250,000	\$1,261,678.77
	TOTALS	\$2,163,433.77	\$338,009.00	\$10,236.00	\$2,511,678.77	100%	21,20,000	μ
		ОК	ОК	ОК	ОК	ок	ОК	OK

NICOLLET COUNTY DEPARTMENT OF PUBLIC WORKS

COST PARTICIPATION POLICIES

APPLICABLE

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COOPERATIVE HIGHWAY PROJECTS

BETWEEN

NICOLLET COUNTY AND OTHER AGENCIES

Adopted by the Nicollet County Board of Commissioners on September 22, 2009

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NICOLLET COUNTY DEPARTMENT OF PUBLIC WORKS

COST PARTICIPATION POLICIES APPLICABLE TO COOPERATIVE HIGHWAY PROJECTS BETWEEN NICOLLET COUNTY AND OTHER AGENCIES

I. PURPOSE

To establish policies for determining appropriate division of cost participation to be used by Nicollet County in funding cooperative roadway, traffic signal and bridge construction projects with the Minnesota Department of Transportation, municipalities, townships, and other agencies.

II. SCOPE

The establishment of cost policy is consistent with Minnesota Statutes, Sections 162.17, 373.01, 471.59 and Amendments.

III, GENERAL POLICIES

- A. The basic premise is that the County pays for costs peculiar to County needs and municipalities pay for costs peculiar to municipal or local needs.
- B. The County may limit its participation to items eligible for reimbursement with County State Aid Highway (CSAH) funds, notwithstanding the specific policies contained in this document. However, the County will not request CSAH funds for project costs assigned to the municipality as a result of the approved cooperative construction agreement, in order not to preclude the municipality from using its Municipal State Aid funds for those project costs.
- C. A greater degree of County participation is afforded municipalities having a population of less than 5,000 because of the function of the County roadways in these areas. It is generally true that these roadways are of greater benefit to County-wide users and of less benefit to local users than is the case for roadways in more urbanized areas. In addition, this would be a form of compensation for the absence of direct State Aid allocations to these municipalities.
- D. It is recognized that there may be occasional differences between these policies and written participation policies of the Minnesota Department of Transportation. In those cases, participation will be negotiated by the County Engineer.

IV. DEFINITIONS

Bikeway: A bicycle route, bicycle path, or bicycle lane.

- 1. Bicycle Route: A roadway or shoulder signed to encourage bicycle use.
- 2. Bicycle Path: A bicycle facility designed for exclusive or preferential use by persons using bicycles and constructed or developed separately from the roadway or shoulder.
- 3. Bicycle Lane: A portion of a roadway or shoulder designed for exclusive or preferential use by persons using bicycles. Bicycle lanes are to be distinguished from the portion of the roadway or shoulder used for motor vehicle traffic by physical barrier, striping, marking, or other similar device.

<u>Contributing Flow:</u> A storm sewer procedure that considers that each agency participates in proportion to its share of the design discharge for each section of sewer between inflow points. This method is used by the Minnesota Office of State Aid on all projects except where federal participation is anticipated.

County: Nicollet County.

County Engineer: The County Engineer of Nicollet County or a designated representative.

Municipality: Any municipality or township within Nicollet County.

Over 5,000: A municipality of 5,000 population or more.

<u>Peak Discharge:</u> A storm sewer method that considers that each agency's share is the ratio of its peak discharge through each section of sewer between inflow points to the summation of peak discharge for all agencies participating in the section of sewer between inflow points.

<u>Permanent Traffic Signal:</u> A traffic control signal system normally consisting of metal signal poles with mast arms and underground electrical systems with conduit, cable and handhole installations.

<u>Storm Sewer:</u> A drainage system usually consisting of one or more pipes connecting two or more drop inlets. The purpose is to convey surface runoff water from the inlets to an acceptable outlet.

Street Lighting: All components normally installed by a municipality for the purpose of street illumination.

Standard Specifications: Minnesota Department of Transportation Standard Specification for Construction, latest edition and/or supplement thereto.

State Aid Manual: Manual published by the Minnesota Department of Transportation outlining State Aid policies and procedures.

State Highway: A highway under jurisdiction of the State of Minnesota.

<u>Temporary Traffic Signal:</u> A traffic control signal system normally consisting of wood poles with signal indications suspended on span wires and overhead electrical systems.

Trunk Line: Main conveyor of storm sewer system.

<u>Under 5,000:</u> A municipality under 5,000 population.

<u>Utilities:</u> Water, heating, electric, storm sewer, gas, sanitary, telephone, cable TV, telegraph, street lighting, fiber optics, etc.

V. ROADWAYS

The County's participation in roadway projects will be as follows:

- A. RIGHT-OF-WAY -
 - 1. Right-of-way, permanent roadway easement, slope easement, drainage easement and temporary construction easement for existing County highway.

Under 5,000	Negotiation by County Engineer
Over 5,000	Negotiation by County Engineer

2. Right-of-way, permanent roadway easement, slope easement, drainage easement and temporary construction easement for any newly established or dedicated County highway.

Under 5,000	Negotiation by County Engineer
Over 5,000	Negotiation by County Engineer

- 3. The County's percentage of participation in retaining walls constructed in lieu of right-of-way will be the same as for right-of-way.
- 4. Right-of-way required for wetland mitigation and for surface water retention basins will be at the same participation ratio as the remainder of the project even if the locations of these facilities are not contiguous to the project.
- B. CLEARING AND GRUBBING -

	Under	′Over 5,000	100%					
C.	GRADING -							
	Under	(Over 5,000	100%					
D.	BASE	AND SURFACING -						
	1.	County participation for a 2-lane street.						
		Under/Over 5,000	100%					
	2.	Parking lanes						
		Under/Over 5,000	0%					
E.	TURN	LANES						
	1.	County Participation for Turn lane Construction						
	New - Replac	Under/Over 5,000 cement - Under/Over 5,000	0% 100%					

F. STORM SEWER -

The County's participation is based on the State Aid formula as defined in State Aid Manual No. 5-892.600-605 which uses the ratio of contributing flows except on federally funded projects where the peak discharge formula is used to arrive at the percentage of allowable state Aid funds. The construction of retention basins for surface water and storm sewer runoff will be considered part of the trunk storm sewer system and will be at the same participation ratio as the trunk storm sewer lines. Participation on County Roads will be determined by using the State Aid formula using the ratio of contributing flows.

1. Trunk lines.

Under 5,000	100% of County's Contributing Flow
Over 5,000	100% of County's Contributing Flow

2. Catch basins and leads within the County highways and at the curb returns of side roadway entrances that drain onto the County highways.

Under 5,000	100% of County's Contributing Flow
Over 5,000	100% of County's Contributing Flow

No credit is allowed to a municipality for an inplace storm sewer system.

G. CONCRETE SIDEWALK CONCURRENT WITH COUNTY CONSTRUCTION PROJECT

New -	Under/Over 5,000		0%
Replacement -	Under/Over 5,000	*	100%

- * Except when County Engineer determines existing to be worn out. Worn out sidewalk to be treated as new sidewalk.
- H. CONCRETE CURB AND GUTTER (NEW OR RECONSTRUCTED) AND CONCRETE PEDESTRIAN RAMPS (NEW OR RECONSTRUCTED) CONCURRENT WITH COUNTY CONSTRUCTION PROJECT -

New -	Under 5,000			100%
New -	Over 5,000	<u>ia</u>		0%
Replacement -	Under/Over 5,000		*	100%

- * Except when County Engineer determines existing to be worn out. Worn out concrete curb and gutter to be treated as new concrete curb and gutter.
- L CONCRETE CURB AND GUTTER AND SIDEWALK FOR MEDIANS (NEW OR RECONSTRUCTED) CONCURRENT WITH COUNTY CONSTRUCTION PROJECT -

Under 5,000	100%
Over 5,000	100%

J. PAVED DRIVEWAY ENTRANCES (NEW OR RECONSTRUCTED) CONCURRENT WITH COUNTY CONSTRUCTION PROJECT -

Under 5,000	100%
Over 5,000	100%

K. MUNICIPAL UTILITY RELOCATION OR RECONSTRUCTION -

- Initial installation performed without a permit or not in compliance with a County permit. Under/Over 5,000
 Relocation, reconstruction, improvement, or replacement of unserviceable existing facilities (County Engineer shall determine if existing facility is serviceable or unserviceable). Under/Over 5,000
 Relocation necessitated because of addition of parking lane requested by the municipality. Under/Over 5,000
 Relocation necessitated because of addition of parking lane requested by the municipality.
 - 4. In-kind relocation required solely because of County construction procedures.

Under/Over 5,000

5. Adjustment of existing utility structures to accommodate elevation changes at the street surface. This includes items such as adjusting manhole castings and valve boxes. Lateral extension of utility appurtenances such as hydrants, water service valves, etc. required by the road construction are not included in this category unless they are required solely due to the addition of a parking lane requested by a municipality.

100%

0%

0%

L. PRIVATE UTILITY RELOCATION OR RECONSTRUCTION -

1. Initial installation was within County right-of-way.

Under/Over 5,000

Under/Over 5,000

VI. TRAFFIC SIGNAL SYSTEM

The County's participation in traffic signal system projects will be as follows:

A. PERMANENT TRAFFIC SIGNAL SYSTEM INSTALLATIONS -

Intersection of County Highway with City Street and/or Township Road (City or Township Location).

- 1. County cost participation in the installation of a traffic signal to be proportional to the number of legs that are County highways (i.e. 2 of 4 entering legs are County highways, participation equals 50%).
- 2. County cost participation in the furnishing of electrical power to a traffic signal to be 0%. Electrical power to be furnished by the City or Township.
- 3. County cost participation in the maintenance of a traffic signal to be 100%, unless otherwise stipulated by special agreement with the Minnesota Department of Transportation or other agency.
- 4. County cost participation in any subsequent revisions, modifications, or updatings of a traffic signal originally installed in accordance with the provisions of this cost participation policy, even to the extent of complete reconstruction, to be borne in the same manner as the initial installation.

Intersection of County Highway with State Highway (City or Township Location)

- 1. County cost participation in the installation of a traffic signal to be proportional to the number of legs that are County highways and in accordance with Minnesota Department of Transportation policies.
- 2. County cost participation in the furnishing of electrical power to a traffic signal to be 0%. Electrical power to be furnished by the Minnesota Department of Transportation, the City and/or the Township.
- 3. County cost participation in the maintenance of a traffic signal to be 0%. Maintenance to be furnished by the Minnesota Department of Transportation.
- 4. County cost participation in any subsequent revisions, modifications, or updatings of a traffic signal originally installed in accordance with the provisions of this cost participation policy, even to the extent of complete reconstruction, to be borne in the same manner as the initial installation.

B. TEMPORARY TRAFFIC SIGNAL INSTALLATION -

Intersection of County Highway with City Street and/or Township Road (City or Township Location)

- 1. County cost participation in the installation of a temporary traffic signal to be proportional to the number of legs that are County highways (i.e. 2 or 4 entering legs are County highways, participation equals 50%) if, by cooperative agreement, it is the plan of the County, the City and/or the Township to install a permanent traffic signal at the same location in the future. Full credit for the City's and/or Township/s investment in the installation of a temporary traffic signal will be applied toward the City's and/or Township's participation in a permanent traffic signal at the same location if it is installed within the time limits set forth in the cooperative agreement. This credit may be extended should circumstances beyond the control of the City and/or Township delay the installation of the permanent signal beyond the time limits set forth in the cooperative agreement.
- 2. County cost participation in the furnishing of electrical power to a temporary traffic signal to be 0%. Electrical power to be furnished by the City or Township.
- 3. County cost participation in the maintenance of a temporary traffic signal to be 100%, unless otherwise stipulated by special agreement with the Minnesota Department of Transportation or other agency.

Intersection of County Highway with State Highway (City or Township Location)

- 1. County cost participation in the installation of a temporary traffic signal to be proportional to the number of legs that are County highways if, by cooperative agreement, it is the plan of the Minnesota Department of Transportation to install a permanent traffic signal at the same location in the future. Said cooperative agreement is to include a provision whereby full credit for the County's investment in the installation of a temporary traffic signal will be applied toward the County's participation in a permanent traffic signal at the same location.
- 2. County cost participation in the furnishing of electrical power to a temporary traffic signal to be 0%. Electrical power to be furnished by the Minnesota Department of Transportation, the City and/or the Township.
- 3. County cost participation in the maintenance of a traffic signal to be 0%. Maintenance to be furnished by the Minnesota Department of Transportation.

VII. BRIDGES

The County's participation in bridge projects will be as follows:

Under/Over 5,000

Negotiation by County Engineer

VIII. STREET LIGHTING

The County will not participate in the installation of new street lighting with the exception of those street lights attached to traffic signals on County highways. Those lights will be financed on the same basis as the installation of traffic signals. Participation in the relocation or reconstruction of existing street lighting will be on the same basis as for municipal utility relocation or reconstruction (see Paragraph K of Section No. V).

IX. BIKEWAYS

Nicollet County recognizes the increasing use of bicycles as a means of transportation. Nicollet County will consider incorporating bicycle lanes or routes within the roadway design concurrent with roadway construction when the route is part of an overall community bicycle system plan, when economically feasible to construct, and when judged to be in the best interest of the public. Bicycle paths separate from the roadway itself will normally not be constructed unless it is part of an overall community plan for a bicycle trail system. The County's participation in bicycle routes, paths, and lanes will be as follows:

New -	Under 5,000		100%
New -	Over 5,000		0%
Replacement -	Under/Over 5,000	*	100%

* Except when County Engineer determines existing to be worn out. Worn out bikeways are to be treated as new bikeways.

X. LANDSCAPING

The County will participate in State Aid eligible landscaping items with total participation not to exceed 25% of the maximum permitted by State Aid rules.

XI. ENGINEERING

The County's participation in engineering includes design costs which are cost incurred prior to the award of the contract and contract administration costs which are costs incurred subsequent to the award of contract.

A. The municipality will reimburse the County an agreed (negotiated) percentage of the municipality's share of the contract construction cost for the Design and/or Contract Administration performed by the County.

Under/Over 5,000

Negotiation by County Engineer

XII. LUMP SUM, PRO-RATA ITEMS

Proposal forms carry lump sum bidding requirements for the items of Mobilization (2021), Maintenance and Restoration of Haul Roads (2051) and Traffic Control (0563). Field Office and Field Laboratory (2031) are not, strictly speaking, lump sum pay items. However, their general characteristics are such as to require that they

be handled the same as Mobilization. A municipality shall be charged a pro-rata share of the above items. Proration shall be based on a percentage factor applied to the cost amounts chargeable to the County and the municipality for other construction items. Mobilization, Maintenance and Restoration of Haul Roads, Field Office and Field Laboratory, and Traffic Control are construction items and shall be subject to the negotiated percentage charge for engineering.

XIII. INVOICE AMOUNT COMPUTATION

After bids have been received and a contract awarded, and also upon completion of construction, the unit prices shall be substituted for the estimated unit prices/quantities and the percentage ratio established originally shall be recomputed.

XIV. MAINTENANCE

The County is responsible for maintaining the County highway between curbs or between outside edge of shoulders. It may enter into agreement with the municipality to perform this work on a reimbursable basis.

The County is responsible for maintenance of bridges and culverts on the County route.

The municipality is responsible for maintenance of its utilities including any storm sewer within the County highway right-of-way.

The municipality is responsible for maintaining bicycle paths and walking trails within the County highway rightof-way.

The municipality is responsible for maintaining boulevard or ditch areas, landscaped median areas, irrigation systems, sidewalk, retaining walls, steps and other related items within the right-of-way on an urban design section.



JULY 12, 2022 OFFICIAL PROCEEDINGS OF THE NICOLLET COUNTY DRAINAGE AUTHORITY

The Nicollet County Drainage Authority met in regular session on Tuesday, July 12, 2022, at 10:00 a.m. with Chair Dranttel presiding and Commissioners Terry Morrow, David Haack, John Luepke and Jack Kolars present. Also present were County Administrator Mandy Landkamer, County Attorney Michelle Zehnder Fischer, and Recording Secretary Crystal Madden.

Approval of Agenda

Motion by Commissioner Morrow and seconded by Commissioner Luepke to approve the agenda. Motion carried with all voting in favor.

Consent Agenda

Motion by Commissioner Morrow and seconded by Commissioner Luepke to approve the consent agenda items as follows:

1. June 28, 2022 Board Meeting Minutes

Motion carried with all voting in favor.

Public Appearances

There were no public appearances.

Continued CD79 Public Hearing on the Final Acceptance of the Improvement Project

Director Kopet appeared before the Board to discuss the continuation of the CD79 Improvement Project from the June 22nd, 2022 Public Hearing. The Drainage Authority had asked ISG to create a proposal for the leveling of the berm on the Cordes property before moving to close out the project.

Mr. Adams from ISG appeared in front of the Board to explain ISG's proposal to eliminate the berm on the Cordes property. After he spoke, there was a five-minute recess taken at 10:22 am. When the meeting was called to order at 10:28 am, Mr. Adams was provided a copy of the June 30th, 2022 minutes from the pre-construction meeting.

A five-minute recess was once again taken at 10:39 am to determine Mr. Brandel's availability for the next regularly scheduled Board meeting on July 26th, and the meeting was brought back to order at 10:44 am.

The Board requests clarity from ISG concerning the July 12th, 2022 proposal letter, specifically for a definition of "unbilled time" and what is being "written-off." The Board also requests an explanation of the changes during the project, such as the cost savings for leaving materials verses moving materials. Finally, the Board would like to ensure that Mr. Cordes has the opportunity to participate in the next meeting.

Motion by Commissioner Morrow and seconded by Commissioner Luepke to approve recessing the Final Acceptance Report of the CD79 Improvement Project until the next regular Board meeting on Tuesday, July 26th, 2022 at 10 am. Motion carried with all voting in favor.

Nicollet County Drainage Authority Minutes July 12, 2022

Public Comments:

There were no public comments.

Adjourn

Motion by Commissioner Luepke and seconded by Commissioner Morrow to adjourn the Drainage Authority Meeting. Motion carried with all voting in favor.

Chair Dranttel adjourned the meeting at 10:46 a.m.

	MARIE DRANTTEL, CHAIR BOARD OF COMMISSIONERS
	BOARD OF COMMISSIONERS
ATTEST:	
MANDY LANDKAMER, CLERK TO THE BOARD	

Nicollet County Drainage Authority Meeting Agenda Item



Agenda hem		
Agenda Item:		
Primary Originating Division/Dept.:		Meeting Date:
Contact: Title:		Item Type: (Select One)
Amount of Time Requested minutes		
Presenter: Title:		Attachments: Yes No
County Strategy: (Select One)		
BACKGROUND/JUSTIFICATION:		
Supporting Documents: Attached	In Signature Folder	None
Prior Drainage Authority Action Taken on this Item:		
	Yes No	
If yes, when? (provide year; mm/dd/yy if known)		
Approved by County Attorney's Office:	Yes No	N/A
ACTION REQUESTED:		
FISCAL IMPACT: (Select One)	FUNDING Drainage Authority Dollars	=
If "Other", specify		
	(Select One)	
FTE IMPACT: (Select One)	Total	
If "Increase or "Decrease" specify:		
Related Financial/FTE Comments:		

FINAL ACCEPTANCE REPORT Nicollet County Ditch No. 79 18670 December 2021

REPORT FOR: Jaci Kopet Drainage Authority Nicollet County 501 S Minnesota Avenue St. Peter, MN, 56082 507.934.7806 jaci.kopet@co.nicollet.mn.us FROM: Chuck Brandel, PE Senior Civil Engineer ISG 115 E Hickory Street, Suite 300 Mankato, MN 56001 507.387.6651 chuck.brandel@isginc.com

ISG

December 7, 2021

Jaci Kopet Nicollet County Drainage Authority 501 S Minnesota Ave St. Peter, MN 56082

Re: CD 79

Mrs. Kopet,

The repairs to Nicollet County Ditch 79 have been fully completed. The contractor Molnau Trucking LLC from Norwood, MN has completed 100% of the project including establishment of vegetation in disturbed areas.

The cost estimate for construction, including contingency, from the Final Engineering Report was \$73,000.77. The original contract price based on engineer's estimated quantities was \$77,885.81 however there were some cost savings during construction including the narrowing of the private driveway crossing. The total cost of completed work is \$73,974.65.

The work was not complete by the November 13, 2021 Substantial Completion deadline as required in the Agreement Form, Section 00 5200 of the contract. Per Article 4.03 of the Agreement Form - Liquidated Damages of the contract, the contractor shall pay owner \$400 for each day that expires after the substantial completion deadline. Final grading and seeding was completed on December 18, 2020 which was 35 days after the substantial completion date. Molnau Trucking has signed and agreed to Change Order 1 which deducts \$14,000 in liquidated damages from final payment.

To date, the contractor has been paid \$53,797.35, with the \$14,000.00 in liquidated damages there is an unpaid balance of \$6,177.30 left to pay on retainage and releasing temporary deductions for vegetation establishment. The As-built Drawings, total completed quantities, and final Pay Request No. 2 are enclosed.

We recommend payment and final acceptance of this project at this time.

Please feel free to contact us with any questions.

Sincerely,

Child T. Ball

Chuck Brandel, P.E.

Enclosure Attachment

Cc: – Ryan Molnau Trucking LLC

Nicollet County Ditch No.79

APPENDIX A: As-Built Plans

Nicollet County Ditch No. 79

Appendix A

NICOLLET COUNTY COUNTY DITCH No. 79 **CONSTRUCTION PLANS**

COURTLAND TWP, MN

LEGEND

EXISTING

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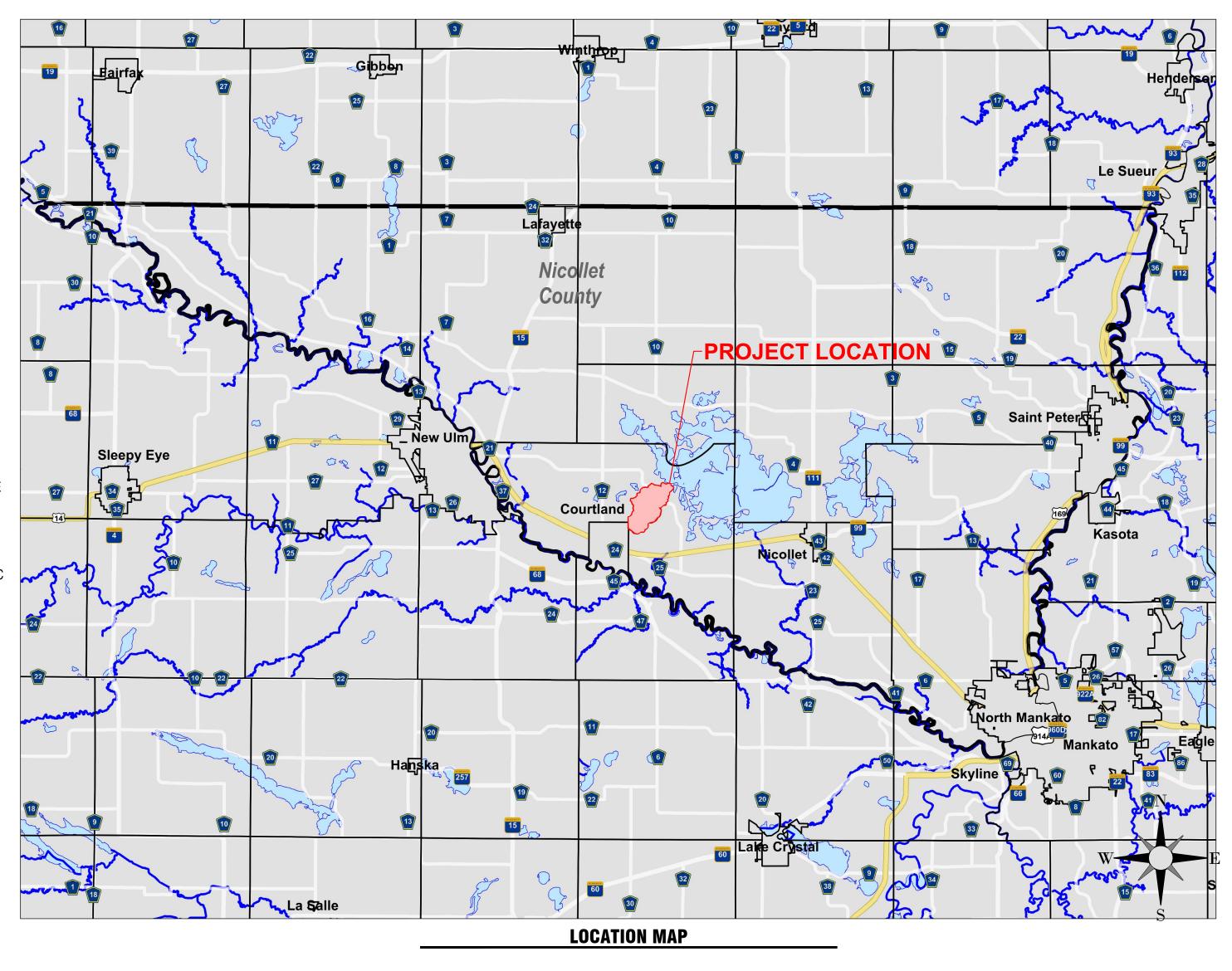
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WATERSHED BOUNDARY CITY LIMITS SECTION LINE QUARTER SECTION LINE **RIGHT OF WAY LINE PROPERTY / LOTLINE** EASEMENT LINE ACCESS CONTROL WATER EDGE WETLAND BOUNDARY FENCE LINE **EXISTING OPEN DITCH** CULVERT DITCH TILE PRIVATE TILE WATER GAS OVERHEAD ELECTRIC UNDERGROUND ELECTRIC UNDERGROUND TELEPHONE UNDERGROUND TV OVERHEAD UTILITY UNDERGROUND UTILITY UNDERGROUND FIBER OPTIC CONTOUR (MAJOR) CONTOUR (MINOR) DECIDUOUS TREE CONIFEROUS TREE TREE LINE DROP INTAKE HYDRANT POWER POLE

# EASEMENT

PROPOSED OPEN DITCH OPEN DITCH REPAIR CULVERT (RCP) CULVERT (CMP) TILE TILE (PIPE WIDTH) WATER GAS **OVERHEAD ELECTRIC** UNDERGROUND ELECTRIC UNDERGROUND TV CONTOUR (MAJOR) CONTOUR (MINOR) DROP INTAKE SLOUGH REPAIR SPOIL PLACEMENT TREE CLEARING REMOVE TREE BUFFER



# **PROJECT INDEX:**

# **OWNER:**

NICOLLET COUNTY **DRAINAGE ATHORITY 501 S. MINNESOTA AVE ST. PETER, MN 56082** PH: 507-934-7800

PROJECT

SECTIONS 4, 27, 28, 33, 34 COURTLAND EAST TWP NICOLLET COUNTY, MINNESOTA

	SHE
1	TITLE
2	NOTES & QUAN
3	DETAILS
4	DETAILS
5	CULVERT CROS
6	OVERALL WATE
7	OPEN DITCH PL

ALL WORK SHALL CONFORM TO THE CONTRACT WHICH INCLUDES GENERAL SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS), DRAWINGS OF ALL DISCIPLINES AND ALL ADDENDA, MODIFICATIONS AND CLARIFICATIONS ISSUED AND THE CONTRACT DOCUMENTS, NOTIFY BY THE ARCHITECT/ENGINEER.

CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK.

WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

# **ADDRESS / LOCATION:**

# **MANAGING OFFICE:**

**MANKATO OFFICE 115 E HICKORY STREET SUITE 300 MANKATO, MN 56001** PHONE: 507.387.6651 FAX: 507.387.3583 **PROJECT MANAGER: CHUCK BRANDEL** EMAIL: CHUCK.BRANDEL@ISGINC.COM



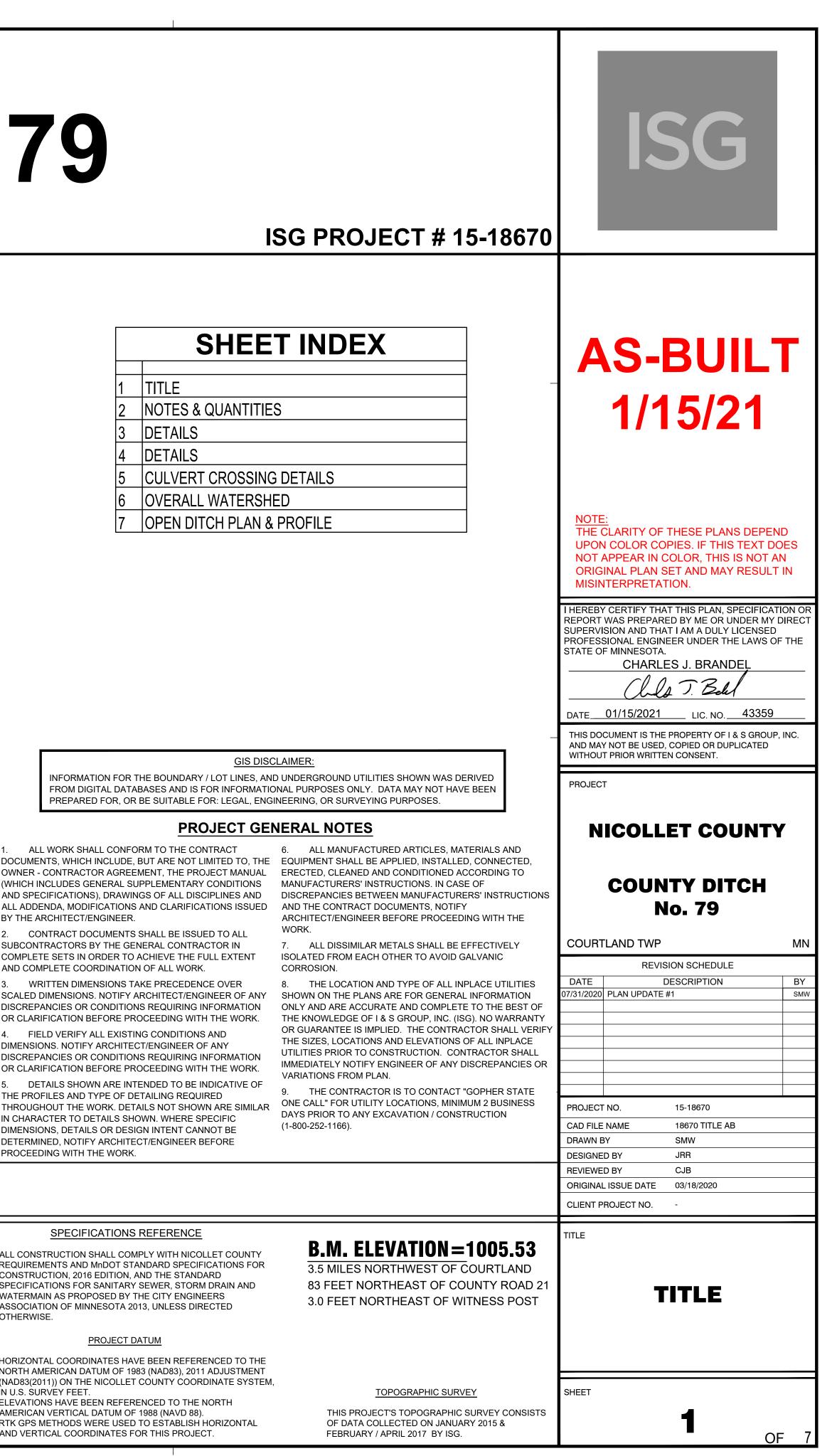
#### SPECIFICATIONS REFERENCE

ALL CONSTRUCTION SHALL COMPLY WITH NICOLLET COUNTY REQUIREMENTS AND MnDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2016 EDITION, AND THE STANDARD SPECIFICATIONS FOR SANITARY SEWER, STORM DRAIN AND WATERMAIN AS PROPOSED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA 2013, UNLESS DIRECTED OTHERWISE.

#### PROJECT DATUM

HORIZONTAL COORDINATES HAVE BEEN REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), 2011 ADJUSTMENT (NAD83(2011)) ON THE NICOLLET COUNTY COORDINATE SYSTEM, IN U.S. SURVEY FEET.

ELEVATIONS HAVE BEEN REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). RTK GPS METHODS WERE USED TO ESTABLISH HORIZONTAL AND VERTICAL COORDINATES FOR THIS PROJECT

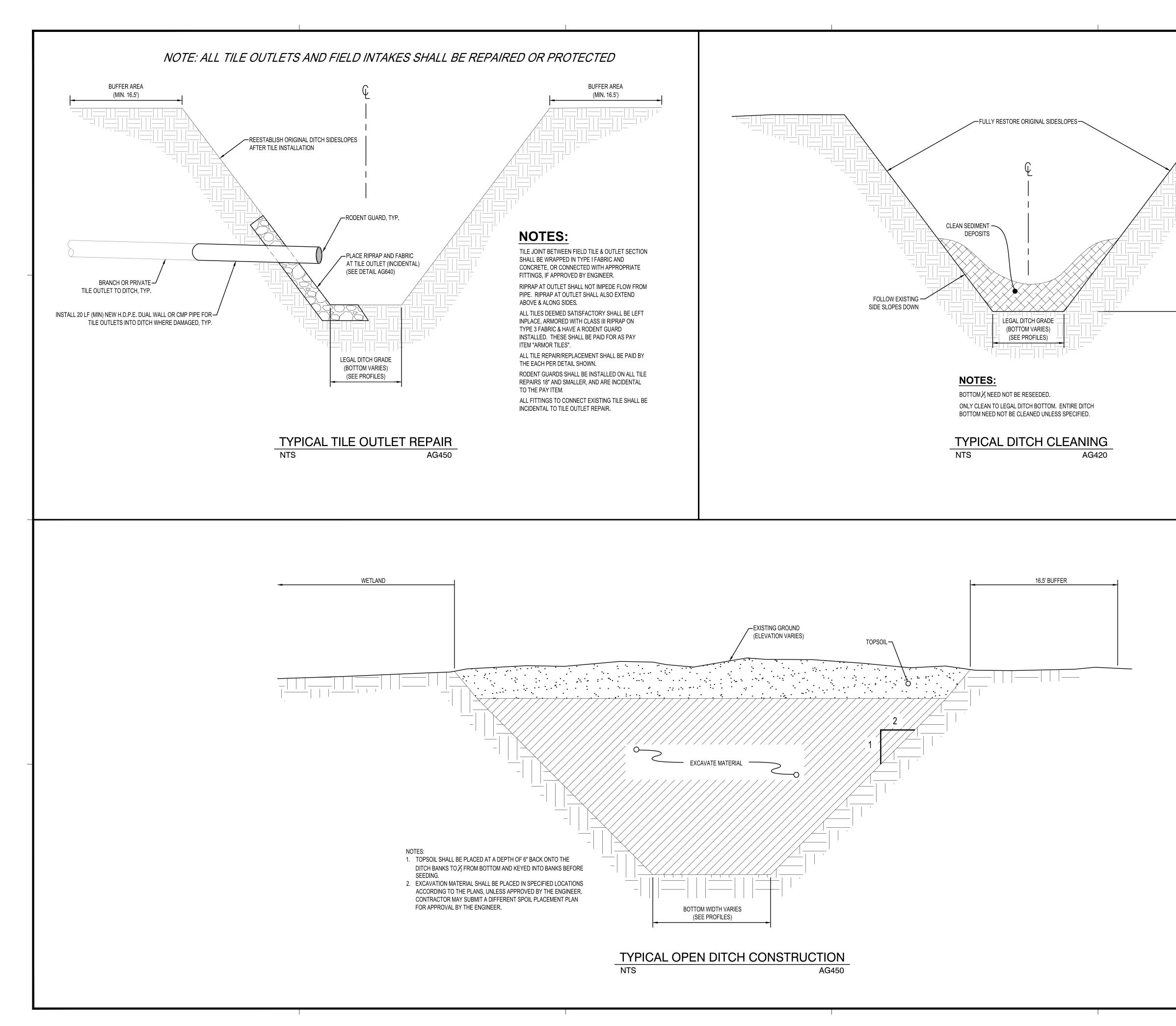


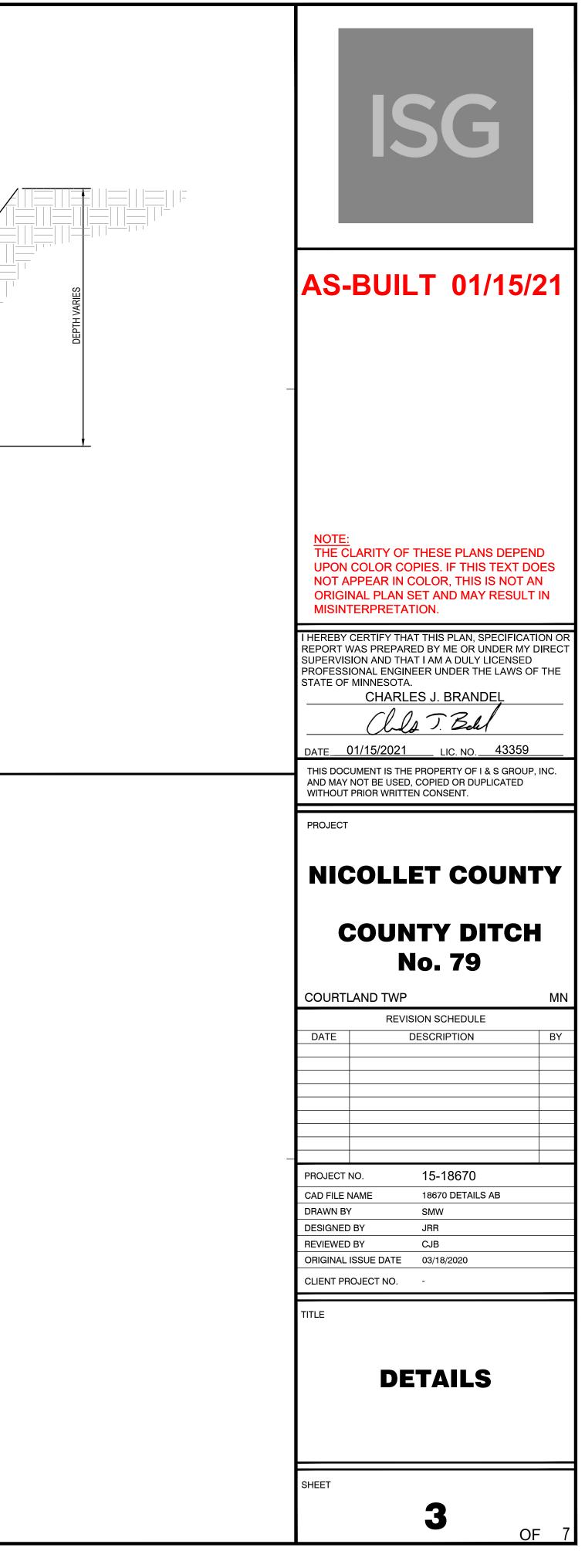
#### GENERAL OPEN DITCH NOTES:

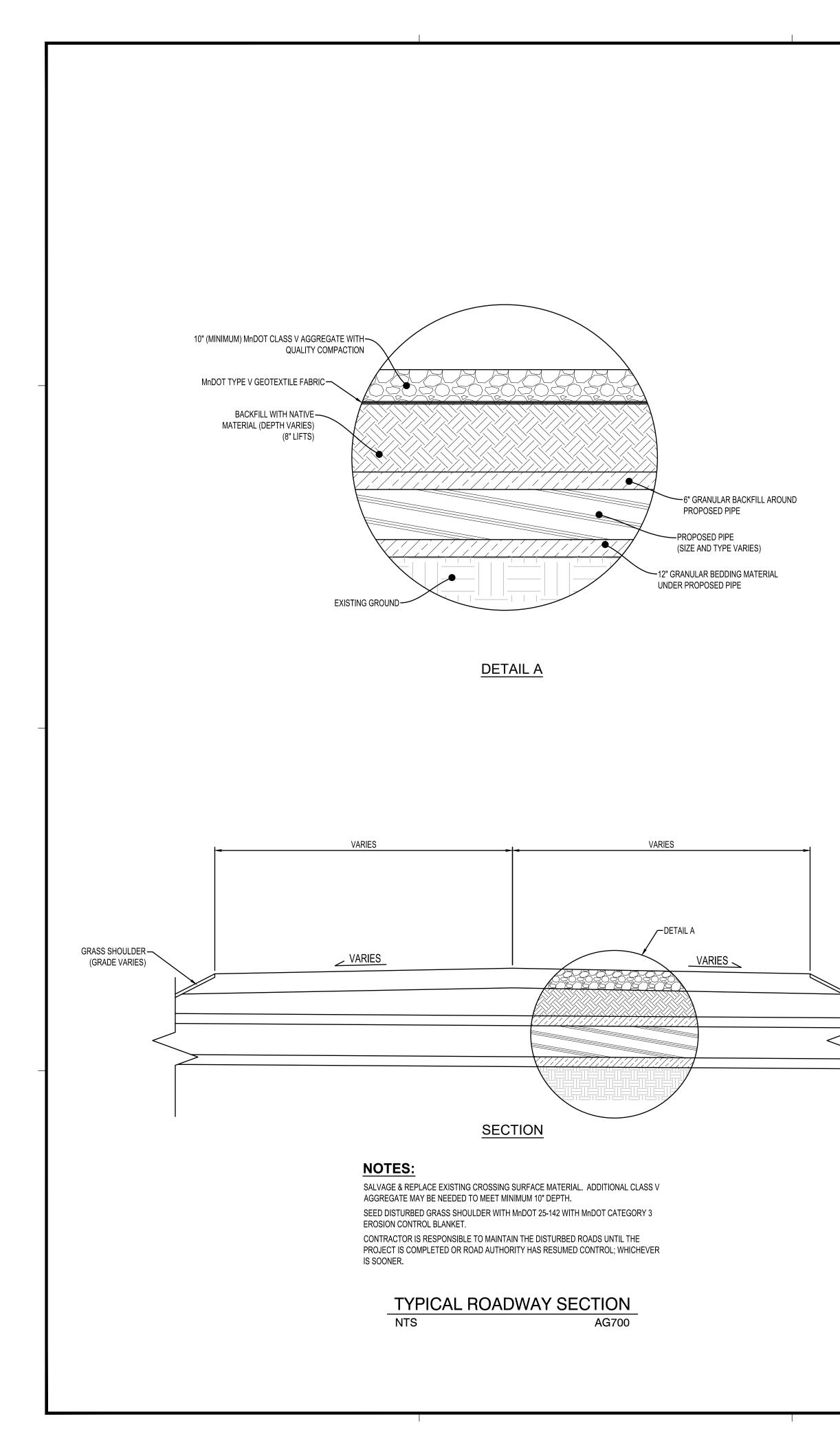
- 1. DURING CONSTRUCTION, CONTRACTOR SHALL MAINTAIN A DRAINAGE OUTLET FOR THE ENTIRE NICOLLET COUNTY DITCH No. 79 PROJECT AREA.
- 2. ALL PIPE DIMENSIONS REFERENCED IN THE PLANS REFER TO THE INSIDE DIAMETER.
- 3. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITY TO WITHIN A 33-FOOT WIDE AREA ALONG TOP OF DITCH ALIGNMENTS. DISTURBANCE THROUGH ROAD CROSSINGS, ROAD DITCHES, AND GRASS BUFFERS SHALL BE LIMITED TO THE TRENCH WIDTH NECESSARY FOR SAFE CONSTRUCTION PRACTICES.
- 4. A 16.5-FOOT GRASS STRIP SHALL BE ESTABLISHED IN AREAS THAT DO NOT HAVE AN EXISTING 16.5-FOOT GRASS STRIP. SEEDING SHALL OCCUR AFTER ALL WORK HAS BEEN COMPLETED IN THE AREA AND SHALL COMPLY WITH THE CONTRACT DOCUMENTS. THESE AREAS WILL BE DETERMINED BY THE ENGINEER.
- 5. DITCH CLEANING SHALL BE PERFORMED ON THE SIDE OF THE DITCH THAT IS THE LOWEST FOR THE GREATEST DISTANCE ALONG THE OPEN DITCH SEGMENT. DITCH CLEANING SPOILS SHALL BE PLACED WITHIN 16.5-FOOT WIDE GRASS STRIP FROM THE TOP OF DITCH SLOPE UNLESS OTHERWISE DETERMINED BY THE ENGINEER.
- 6. TOPSOIL IN SPOIL AREAS AS SPECIFIED ON PLANS SHALL BE STRIPPED PRIOR TO SPOIL PLACEMENT.
- SHAPING AROUND SIDE INLETS, WASCOBS, AND CULVERT INLETS SHALL BE INCIDENTAL TO THEIR RESPECTIVE PAY ITEMS.
- ALL SPOIL LEVELING, GRADING, AND RESTORATION OF DISTURBED AREAS SHALL BE IN ACCORDANCE TO THE CONTRACT DOCUMENTS AND SHALL BE INCIDENTAL TO THE WORK PERFORMED.
- 9. ALL EXISTING TILE OUTLETS INTO THE OPEN DITCH, INCLUDING ANY NOT SHOWN ON THE PLANS, SHALL BE REPAIRED. UNLESS SPECIFICALLY NOTED, HDPE OR PVC SHALL BE ACCEPTABLE MATERIAL FOR ALL TILE REPAIRS (SEE DETAILS).
- 10. EXISTING TILE OUTLETS MAY BE SALVAGED, REUSED, AND PROTECTED WITH RIPRAP IF THE OUTLET IS DETERMINED TO BE IN GOOD CONDITION BY THE ENGINEER. TILE REPAIR AT THESE LOCATIONS SHALL BE PAID FOR AS PAY ITEM "ARMOR TILE OUTLET" (SEE DETAILS).
- 9. ALL ROAD CROSSING REPAIRS SHALL BE CONSTRUCTED WITH CLASS III RCP ONLY, UNLESS OTHERWISE SPECIFIED ON PLANS OR APPROVED BY THE ENGINEER. TIE ALL PIPE SECTIONS UNDER ROAD CROSSINGS (INCIDENTAL).
- 10. CONTRACTOR MUST NOTIFY ENGINEER OF ANY CULVERT SECTIONS DEEMED NOT SALVAGEABLE PRIOR TO REMOVAL AND SHALL BE ADDRESSED BEFORE CULVERT WORK IS DONE.
- 11. MISCELLANEOUS TREE CLEARING SHALL BE INCIDENTAL TO DITCH CLEANING PAY ITEM(S).
- 12. TREE CLEARING AND HEAVY VEGETATION REMOVAL IS REQUIRED ON DITCH SIDE SLOPES AND WITHIN THE 1-ROD BUFFER AND WILL BE PAID FOR AS PER LINEAR FOOT. APPROXIMATE LOCATIONS ARE INCLUDED ON THE MAP FOR REFERENCE. TREES SHALL BE CLEARED AND GRUBBED AND SPRAY THE AREA AROUND TREE AFTER COMPLETE.
- 13. CONTRACTOR SHALL NOT PLACE AND/ OR EXCAVATE ANY MATERIAL FROM THE WETLAND AREA. ALL CONSTRUCTION ACTIVITY MUST STAY OUTSIDE OF THE WETLAND BOUNDARY FOR THE CONSTRUCTION OF THE NEW DITCH ALIGNMENT.
- 14. ACCESS FOR THE PROJECT IS ONLY AUTHORIZED ALONG THE OPEN DITCH ALIGNMENT. ACCESS FROM PRIVATE ROADS ONLY WITH LANDOWNER CONSENT.
- 15. CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE MNDNR PERMIT AS PROVIDED IN TEH SPECIFICATIONS

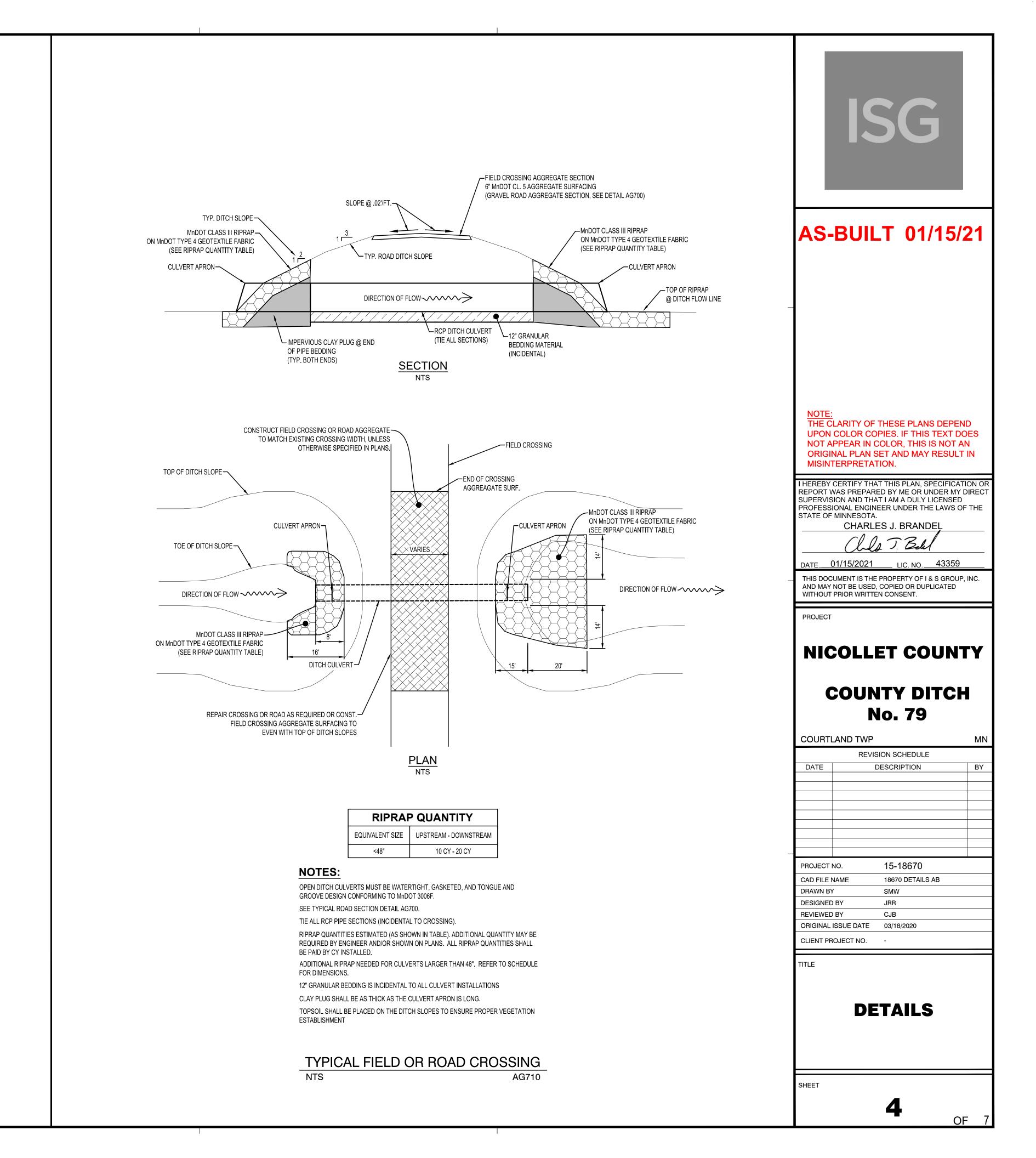
FINAL PROJECT QUANTITIES			
Item Code	Item	Unit	Estimated Quantity
2021.501	MOBILIZATION	LS	1
2104.501	REMOVE CMP CULVERT	EA	3
2105.602	AGGREGATE BASE (CV) (P), CLASS V	CY	30
2105.602	OPEN CUT & RESTORE GRAVEL ROAD OR DRIVEWAY	EA	1
2105.602	OPEN CUT & RESTORE FIELD CROSSING	EA	1
2105.603	DITCH CLEANING (12' WIDE DITCH BOTTOM)	LF	755
2106.501	CONSTRUCT DITCH (P) (EV)	CY	655
2106.501	TOP SOIL STRIP & PLACE SPOILS	AC	0.5
2501.511	60-INCH CLASS III RCP PIPE	LF	20
2501.511	54-INCH CLASS III RCP PIPE	LF	48
2501.515	60-INCH RCP APRON	EA	2
2501.515	54-INCH RCP APRON	EA	2
2511.501	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	100
2573.502	INSTALL FLOATING SILT CURTAIN	LF	40
2575.523	MnDOT CATEGORY 3 EROSION CONTROL BLANKET	SY	257.86
	16.5' BUFFER STRIP SEEDING		
2575.501	(SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	AC	1.99
	STANDARD SIDESLOPE SEEDING		
2575.501	(SEED MIX: BUFFER BLEND WITH TYPE 8 MULCH)	AC	0.32
2575.541	BUFFER STRIP MOWING	AC	0
2575.545	WEED SPRAYING	AC	0

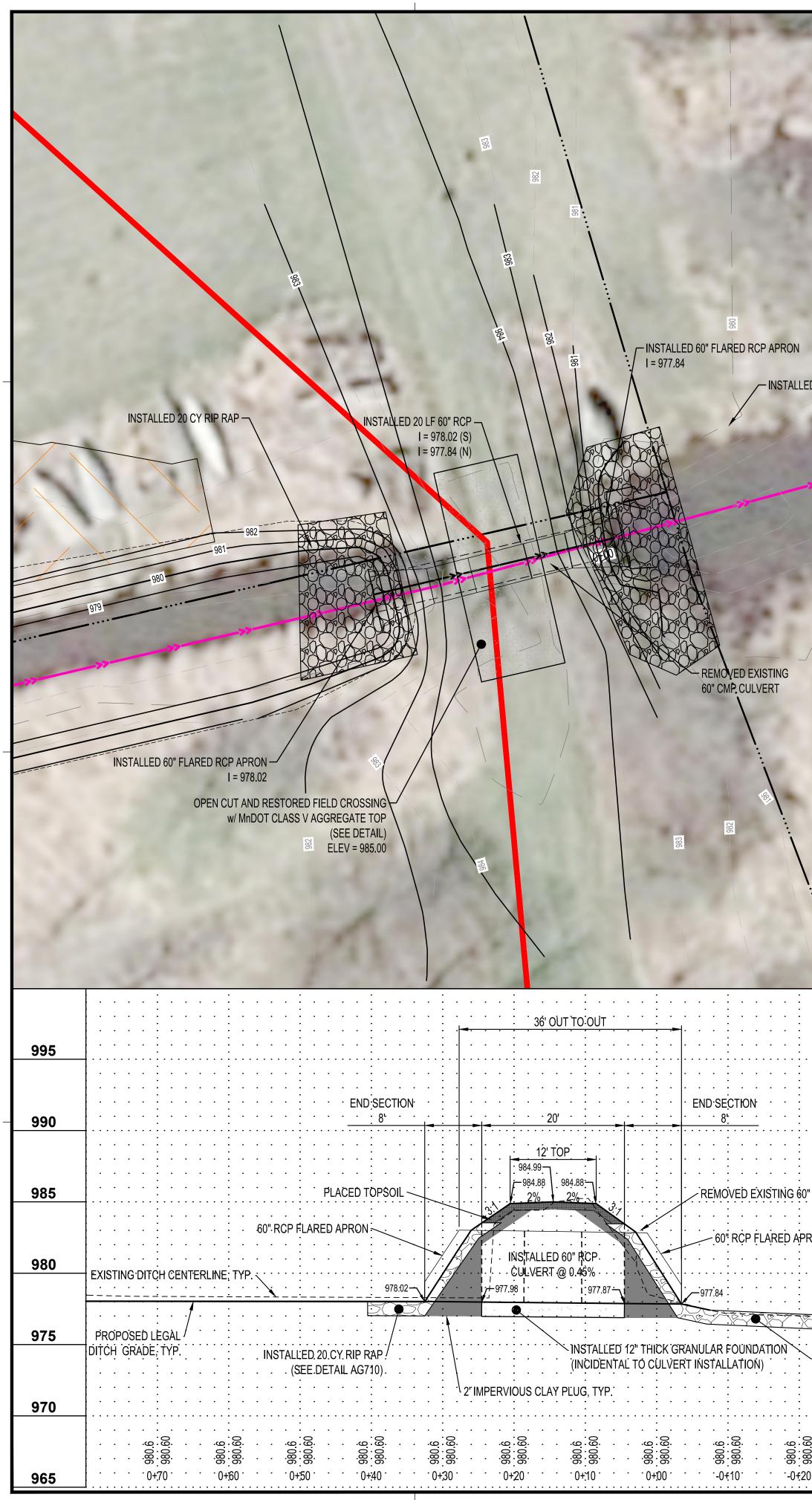
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THIS DOCUMENT IS THE PROPERTY OF I & S GROUD AND MAY NOT BE USED, COPIED OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.	P, INC.	
PROJECT NICOLLET COUN COUNTY DITCH No. 79	TY 1	
COURTLAND TWP REVISION SCHEDULE	MN	
DATE DESCRIPTION 07/31/2020 PLAN UPDATE #1	BY SMW	
PROJECT NO. 15-18670		
CAD FILE NAME 18670 DETAILS AB DRAWN BY SMW		
DESIGNED BY JRR REVIEWED BY CJB		
ORIGINAL ISSUE DATE 03/18/2020		
CLIENT PROJECT NO		
NOTES & QUANTITIES		
SHEET 2		



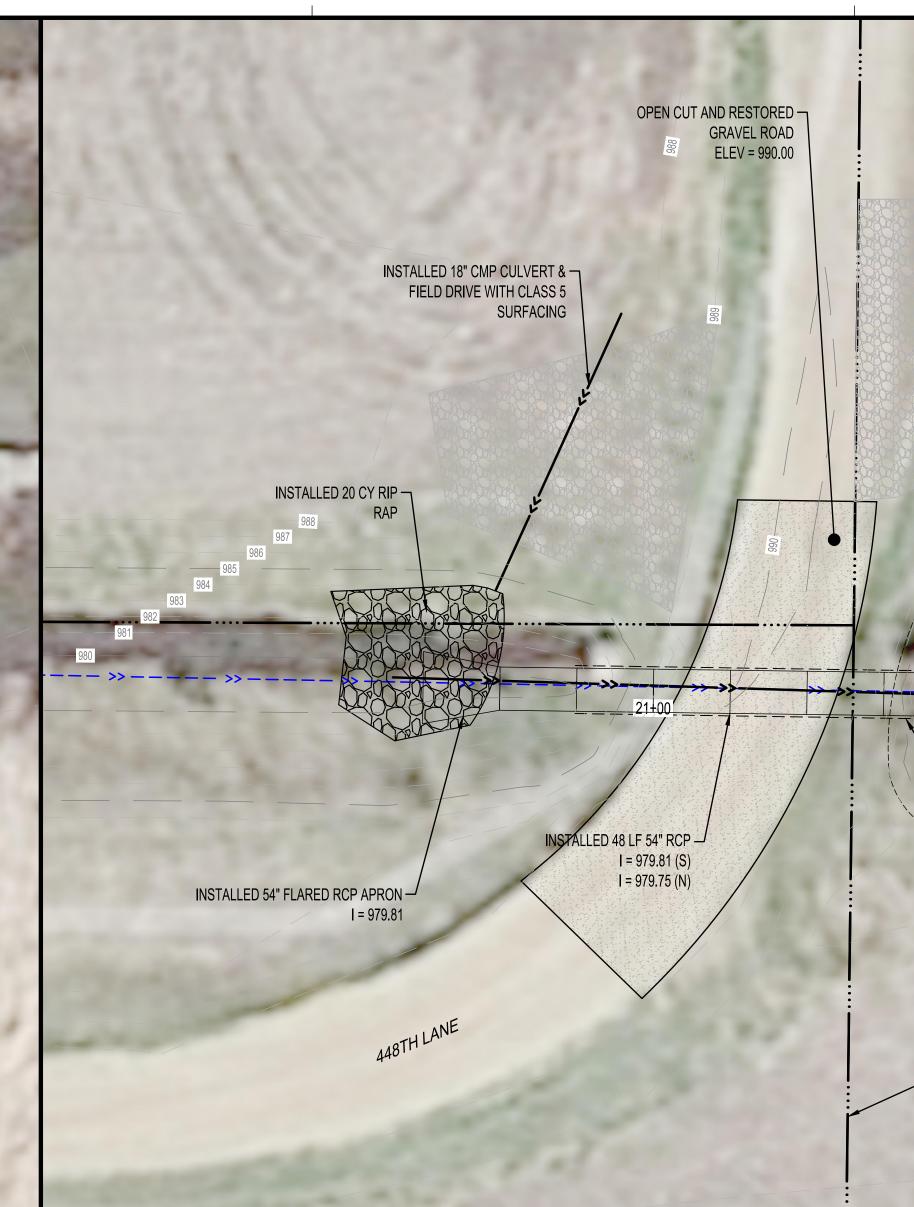






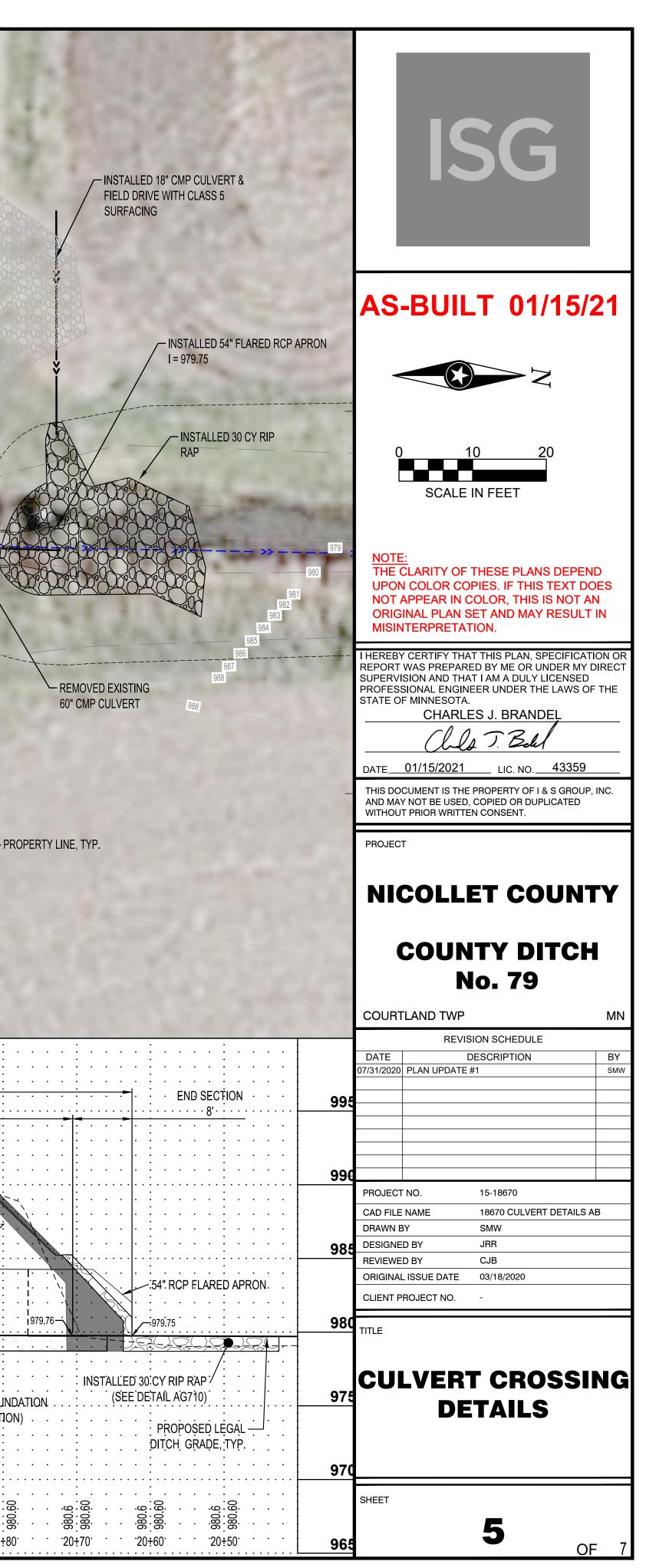


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	075	075	
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VINSTALLED 30 CY RIP RAP (SEE DETAIL AG710)			INSTALLED 20 CY RIP RAP
	970	970	
980.60 980.6			980.6       980.6       980.6       980.6       980.6         980.6       980.6       980.6       980.6       980.6         980.6       980.6       980.6       980.6       980.6         980.6       980.6       980.6       980.6       980.6
8. · · · 8;8. · · ·   20. · · · ·0+30. · · · ·	005	005	20+80.
	965	965	



-0+50

- INSTALLED 30 CY RIP RA



Culvert Replacement										
Branch	Station	Size and	Length	Slope	Invert	Invert	Crossing	Seed Area		
Dranch	Station	Material	(LF)	(LF) (%) (Upstream) (Downstream)	Туре	(SY)				
Main	0+20	60" RCP	20	0.45	978.02	977.84	Field	500		
Main	21+00	54" RCP	48 0.10 979.		979.81	979.75	448th Ln.	300		
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GIESEKE PAUL W & SANDRA J GIESEKE

Nicollet County Ditch No. 79 Wwatershed Boundary Total Area = 1,160 Acres

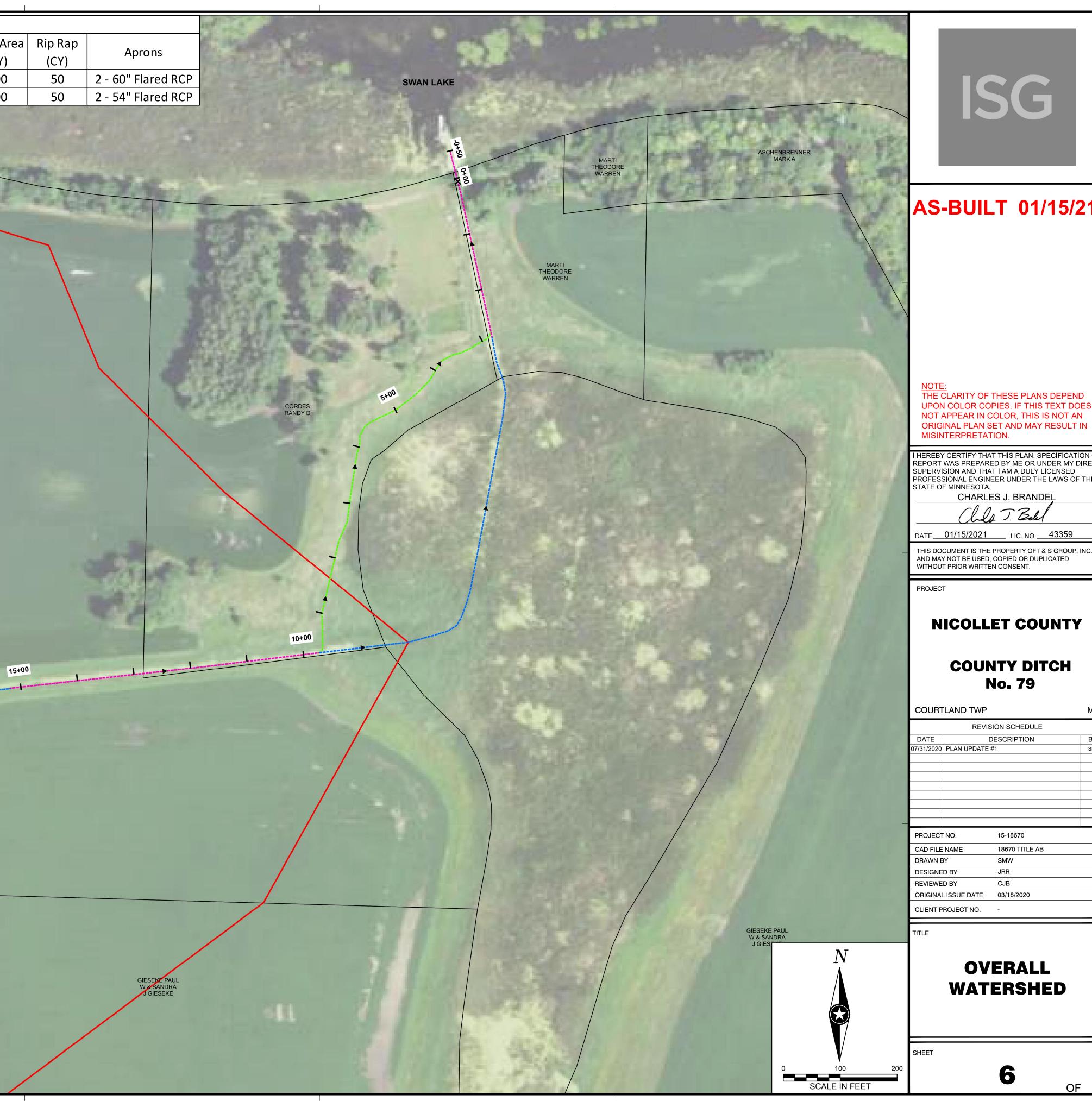


# Remove Culvert Existing Ditch Ditch Cleaning Proposed Ditch Watershed

Allowed Access Point

Parcels

HULKE BRUCE H LIVING TRUST



# AS-BUILT 01/15/21

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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. BRANDEĻ	
Child T. Bell	

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# **NICOLLET COUNTY**

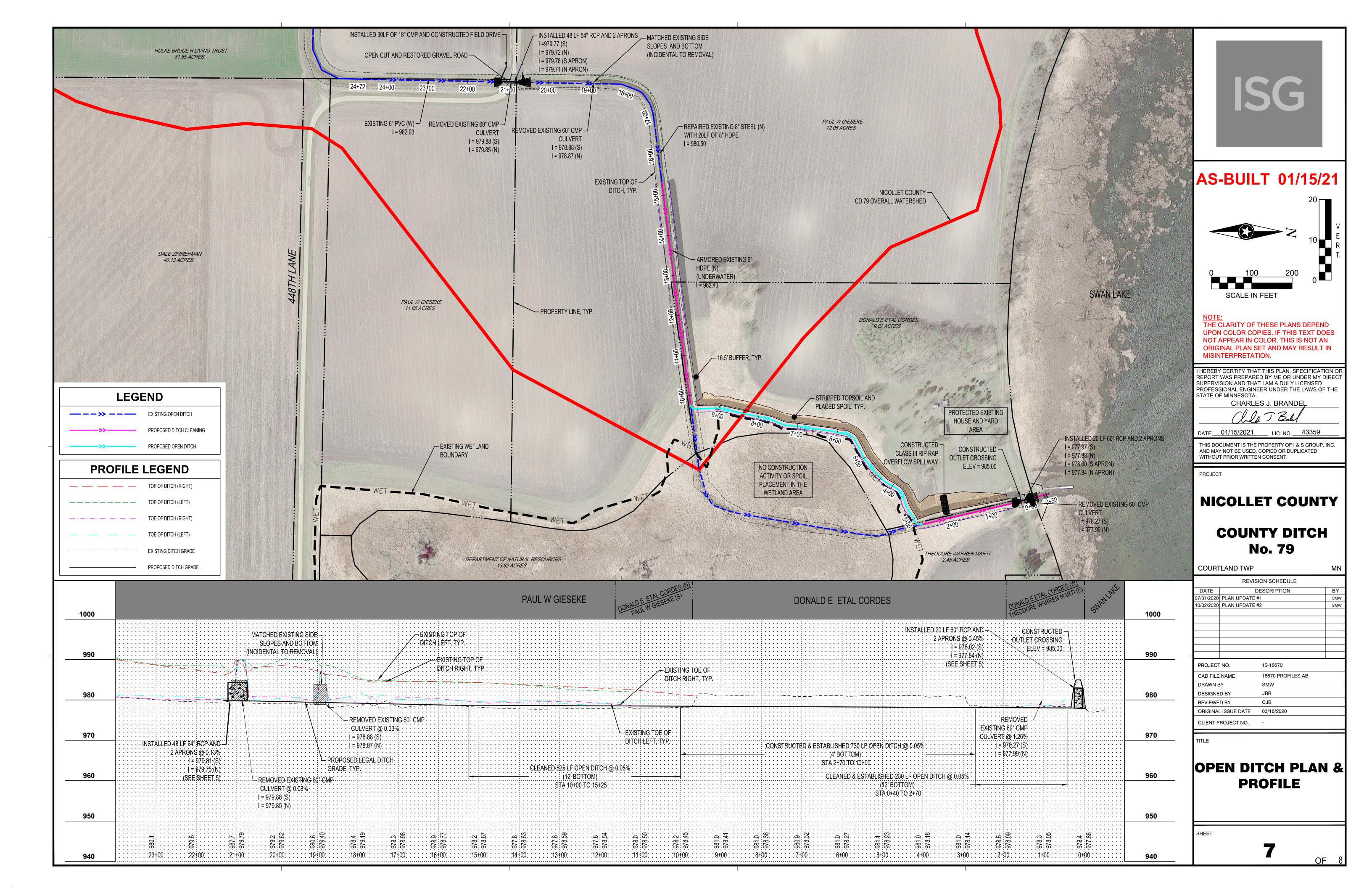
# **COUNTY DITCH** No. 79

COURT	MN		
	ION SCHEDULE		
DATE	D	ESCRIPTION	BY
07/31/2020	PLAN UPDATE #	ŧ1	SMW
PROJECT	NO.	15-18670	
CAD FILE	NAME	18670 TITLE AB	
DRAWN E	3Y	SMW	
DESIGNE	D BY	JRR	
REVIEWE	D BY	CJB	
ORIGINAL	ISSUE DATE	03/18/2020	
CLIENT P	ROJECT NO.	-	

# **OVERALL** WATERSHED

6

OF



# APPENDIX B: Damages

Nicollet County Ditch No. 79

Appendix B

ARCHITECTURE + ENGINEERING + ENVIRONMENTAL + PLANNING

### **Nicollet County Ditch No. 79**

#### **Approximate Easement Summary**

#### December 2020

	40 Description	40 Owner	Approximate Station Range	Improvement Description	Permanent Damages (Acres)	Temporary Easement (Acres)	Crop	PIN			
	PT OF GL 4 TOTAL ACRES 2.18	Marti Theodore Revocable Trust	0+11 - 2+88	60" Culvert Replacement & Open Ditch Cleaning	0.01	0.02	N/A	1127400009			
- M	BEG 500' E & 1710' N OF S 1/4 COR; NE ALONG DITCH C.L. 430'; NE 570'; NW ALONG DITCH C.L. 300'+; W ALONG SLY WATER EDGE 530'+; S 140' TO BEG (SUBJECT TO LAKE) = 8.00 ACRES	IE L. W L. SLY Cordes, Randy D. +; S ECT		60" Culvert Replacment, Open Ditch Establishment & Cleaning	0.34	1.50	N/A	1127400010			
0 4 9	GL 3 ACRES 53.10; GL "EX 80' X 150'" & "EX 2.18 AC" & "EX 8.00 AC" = 15.05 ACRES	X 150''' & "EX " & "EX 8.00 Sandra J Gieseke 9+67 - 20+79		Open Ditch Establishment & Cleaning, Culvert Replacement	0.01	0.87	N/A	1127300004			
air 🗌	448th Lane Crossing										
_	PT OF GL 5 & 6 PARCEL B ACRES 11.08 Gieseke, Paul W & Sandra J Gieseke 20+79 - 21+35		54" Culvert Replacement	0.00	0.03	N/A	1127400004				
	S 1/2 OF SW 1/4 ACRES 80.00 Hulke Bruce H Living Trust 20+92 - 21+61		54" Culvert Replacement	0.00	0.07	N/A	1127300002				
	. 4			Total	0.36	2.49					

# APPENDIX C: Final Pay Request

Nicollet County Ditch No. 79

Appendix C

ARCHITECTURE + ENGINEERING + ENVIRONMENTAL + PLANNING

			Contractor's App	lication for Payment N	<b>b.</b>	2
ISG		Application Period:	1/8/2021 - 9/16/2021	Application Date:	9/16	/2021
To (Owner):	Nicollet County Drainage Authority 501 S. Minnesota Avenue St. Peter, MN 56082	From (Contractor):	Molnau Trucking LLC 13050 Stewart Ave Norwood, MN 55368	VIa (Engineer):	ISG Chuck Brandel 115 E Hickory St. Suite 300 Mankato, MN 56001	
<u> </u>	Nicollet County Ditch No. 79	Contract:			Manazy Mr 50001	
Owner's C	Contract No.	Contractor's Project	t No.	Engineer's Project No.	18670	

#### **Application For Payment** Change Order Summary

	Approved Change Ord	ers						
Number	Additions	Deductions						
1		-\$14,000.00						
TOTALS		-\$14,000.00						
	-\$14,000.00							

1. ORIGINAL CONTRACT PRICE	\$	77.858.50
2. Net change by Change Orders	Ś	(14,000.00)
3. Current Contract Price (Line 1 ± 2)	\$	63,858.50
4. Completed Bid Items (Column J total on Completed Items)	\$	73,974.65
5. Completed Change Order Items (Column K total on Change Order Items)	\$	(14,000.00)
6. Temporary Withholdings (Column L on Temporary Withholdings)	\$	-
7. Stored Materials (Column L total on Stored Materials)	\$	-
8. TOTAL COMPLETED AND STORED TO DATE LESS TEMPORARY WITHHOLDINGS	\$	59,974.65
9. RETAINAGE:		
a. X <u>\$ 59,974.65</u> Work Completed (Line 4+5+6)	\$	_
b. X <u>\$ - Stored Material (Line 7)</u>	\$	
c. Total Retainage (Line 5.a + Line 5.b)	\$	
10. AMOUNT ELIGIBLE TO DATE (Line 8 - Line 9.c)	\$	59,974.65
11. LESS PREVIOUS PAYMENTS (Line 10 from prior Application)	\$	53,797.35
12. AMOUNT DUE THIS APPLICATION	\$	6,177.30
13. BALANCE TO FINISH, PLUS RETAINAGE		
(Column L total on Completed Items + Column M Total Change Order Items +	\$	-
Column L on Temporary Withholdings + Line 9.c above)		

#### Contractor's Certification

The undersigned Contractor certifies, to the best of its knowledge, the following: (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 the Work covered by prior Applications for Payment;

(2) Title to 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 the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor Signature	
BY: here	Date: 9/1/2/21

Payment of:	\$6,177.30	
	(Line 8 or other - attach explanation of the other amount)	
s recommended by:	Chila J. Bal	11/30/2021
	(Engineer)	(Date)
Payment of:		
	(Line 8 or other - attach explanation of the other amount)	
is approved by:		
	(Owner)	(Date)
Approved by:		
	Funding or Financing Entity (if applicable)	(Date)

#### EJCDC® C-620 Contractor's Application for Payment © 2013 National Society of Professional Engineers for EJCDC. All rights reserved. Page 1 of 1

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#### **Completed Bid Items**



Nicollet County

Ditch No. 79

Nicollet County Drainage Authority

A	В	C	D		F	G	H	I	J	K	L .
id Item Number	Bid Item	Unit	Quantitiy	Unit Price	Total Amount	Quantity This Pay Request	Amount This Pay Request	Quantity To Date	Amount To Date	Quantity Remaining	Amount Remaining
the second s	MOBILIZATION	LS	1.00	\$ 5,000.00	\$ 5,000.00	0.00	\$ -	1.00	\$ 5,000.00	0.00	\$ -
2104.501	REMOVE CMP CULVERT	EA	3.00	\$ 750.00	\$ 2,250.00	0.00	\$ -	3.00	\$ 2,250.00	0.00	\$ -
2105.602	AGGREGATE BASE (CV) (P), CLASS V	CY	35.50	\$ 37.00	\$ 1,313.50	0.00	\$ -	30.00	\$ 1,110.00	5.50	s -
2105.602	OPEN CUT & RESTORE GRAVEL ROAD OR DRIVEWAY	EA	1.00	\$ 4,500.00	\$ 4,500.00	0.00	\$ -	1.00	\$ 4,500.00	0.00	
2105.602	OPEN CUT & RESTORE FIELD CROSSING	EA	1.00	\$ 2,500.00	\$ 2,500.00	0.00	\$	1.00	\$ 2,500.00	0.00	and the second school of the
2105.603	DITCH CLEANING (12' WIDE DITCH BOTTOM)	LF	755.00	\$ 2.50	\$ 1,887.50	0.00	\$ _	755.00	\$ 1,887.50		\$ -
2106.501	CONSTRUCT DITCH (P) (EV)	СҮ	655.00	\$ 12.50	\$ 8,187.50	0.00	\$ -	655.00	Ŷ 1,007.50	0.00	\$ -
2106.501	TOP SOIL STRIP & PLACE SPOILS	AC	1.10	\$ 2,500.00	\$ 2,750.00	0.00	\$ -	STREET, STREET	+ 0,107130	0.00	\$ -
2501.511	60-INCH CLASS III RCP PIPE	LF	28.00	\$ 300.00	\$ 8,400.00	0.00		0.50	\$ 1,250.00	0.60	\$ -
2501.511	54-INCH CLASS III RCP PIPE	LF	48.00	\$ 250.00	\$ 12,000.00	0.00	\$ -	20.00	\$ 6,000.00	8.00	\$ -
2501.515	60-INCH RCP APRON	EA	2.00	\$ 2,500.00	\$ 5,000.00	Call of the second second	\$ -	48.00	\$ 12,000.00	0.00	\$ -
2501.515	54-INCH RCP APRON	EA	2.00	\$ 2,500.00		0.00	\$ -	2.00	\$ 5,000.00	0.00	\$ -
2511.501	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	100.00	\$ 2,300.00	\$ 5,000.00 \$ 10,500.00	0.00	\$ -	2.00	\$ 5,000.00	0.00	\$ -
2573.502	INSTALL FLOATING SILT CURTAIN	LF	40.00	+ 200100		0.00	\$ -	100.00	\$ 10,500.00	0.00	\$ -
a call of a start of the second of a	INSTALL SILT FENCE	LF	500.00	A COLORADO DE COMPLEXA	\$ 1,400.00	0.00	ş -	40.00	\$ 1,400.00	0.00	\$ -
2575.523	MnDOT CATEGORY 3 EROSION CONTROL BLANKET	SY		T SIDO	\$ 1,250.00	0.00	\$ -	0.00	\$ -	500.00	\$
Sec. Classical	16.5' BUFFER STRIP SEEDING	AC	1,178.00	\$ 2.50	\$ 2,945.00	0.00	\$ -	257.86	\$ 644.65	920.14	\$ -
2575.501	(SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	~	0.65	\$ 2,500.00	\$ 1,625.00	0.00	\$ -	1.99	\$ 4,975.00	0.00	\$ -
25/5.501	STANDARD SIDESLOPE SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 8 MULCH)	AC	0.10	\$ 3,500.00	\$ 350.00	0.00	\$ -	0.32	\$ 1,120.00	0.00	\$ -
2575.541	BUFFER STRIP MOWING	AC	1.30	\$ 500.00	\$ 650.00	1.30	\$ 650.00	1.30	\$ 650.00	0.00	
2575.545	WEED SPRAYING	AC	1.40	\$ 250.00	\$ 350.00	0.00	\$ 050.00 \$ -	0.00	\$ 650.00 \$ -	0.00	\$ -
				. בסטופט	\$ 77,858.50		\$ 650.00	0.00	\$ 73.974.65	1.40	\$ -

2

Pay Request

1/8/2021 To 9/16/2021

### Completed Change Order Items

IS	G	Nicollet County Ditch No. 79 Nicollet County Drainage Authority								1/8/2021	Pay Reques To	t 2 9/16/2021
A	В	с	D	E	F	G	H	<b>BAR DER</b>	J	К	L	М
Change Order	Bid Item Number	Bid Item	Unit	Quantitiy	Unit Price	Total Amount	Quantity This Pay Request	Amount This Pay Request	Quantity To Date	Amount To Date Date	Quantity Remaining	Amount Remaining
1	1.01	Liquidated Damages	EA	35.00	\$ (400.00)	\$ (14,000.00)	35.00	\$ (14,000.00)	35.00	\$ (14,000.00)	0.00	\$ -
						\$ (14,000.00)		\$ (14,000.00)		\$ (14,000.00)		\$ -

### **Temporary Withholdings**



Nicollet County Ditch No. 79

Pay Request 2 1/8/2021 To 9/16/2021

Nicollet County Drainage Authority

A	В	C	D	E	F	G	H	1	1	K	1
Bid Item Number	Bid Item	Unit	Quantity	Unit Price	Total Amount	Quantity Installed To Date	Amount Installed To Date	Temp Withholding %	Temp Withholding Amount	Amount Released	Amount Remaining
2575.523	MnDOT CATEGORY 3 EROSION CONTROL BLANKET	SY	1178.00	\$ 2.50	\$ 2,945.00	257.86	\$ 644.65	40%	\$ 257.86	\$ 257.86	\$ -
2575.501	16.5' BUFFER STRIP SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	AC	0.65	\$ 2,500.00	\$ 1,625.00	1.99	\$ 4,975.00	40%	\$ 1,990.00	\$ 1,990.00	\$ -
2575.501	STANDARD SIDESLOPE SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 8 MULCH)	AC	0.10	\$ 3,500.00	\$ 350.00	0.32	\$ 1,120.00	40%	\$ 448.00	\$ 448.00	\$ -
									\$ 2,695.86		\$ -



#### Contractor Affidavit Submitted

Thank you, your Contractor Affidavit has been approved.

#### **Confirmation Summary**

Confirmation Number:	0-449-630-880
Submitted Date and Time:	6-Dec-2021 3:38:49 PM
Legal Name:	MOLNAU TRUCKING LLC
Federal Employer ID:	20-8516801
User Who Submitted:	amolnau
Type of Request Submitted:	Contractor Affidavit

#### Affidavit Summary

Affidavit Number:	966201344
Minnesota ID:	8825873
Project Owner:	NICOLLET COUNTY DRAINAGE AUTHORITY
Project Number:	15-18670
Project Begin Date:	26-Oct-2020
Project End Date:	18-Dec-2020
Project Location:	NICOLLET COUTNY
Project Amount:	\$59,974.65
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 8:00 a.m. - 4:30 p.m. Monday - Friday.

Please print this page for your records using the print or save functionality built into your browser.

## APPENDIX D: Construction Pictures

Nicollet County Ditch No. 79

Appendix D

ARCHITECTURE + ENGINEERING + ENVIRONMENTAL + PLANNING



Floatation silt fence installation.



Typical ditch cleaning.



Road crossing at station 0+00.



Finished road crossing at 0+00 with rip rap North side.

### Nicollet County Ditch No. 79



Finished road crossing at station 0+00 South.



Typical open ditch cleaning.



Typical seeding and blanketing procedure.



Typical spillway overflow rip rap area.

#### Nicollet County Ditch No. 79





6/18/2021



9/18/2021

Nicollet County Ditch No. 79



9/18/2021

Nicollet County Ditch No. 79



12/23/2020



6/18/2021



9/18/2021

Nicollet County Ditch No. 79



9/18/2021

Nicollet County Ditch No. 79



6/18/2021



9/18/2021

Nicollet County Ditch No. 79



12/23/2020



6/18/2021



9/18/2021

Nicollet County Ditch No. 79



12/23/2020



6/18/2021



9/18/2021

Nicollet County Ditch No. 79

### PROPOSED LEVY ORDER

Below is a summary of the proposed CD79 drainage system assessment, installment schedule, interest rate, and maintenance.

County Ditch No. 79	Amount to Levy
Final Improvement Cost	\$200,784.27
Maintenance Costs since Last Levy	\$21,159.27
Future Repaid Fund	\$10,000.00
Total Levy	\$231,943.54

All assessments not paid by October 31, 2022 will be charged a 4% annual interest rate beginin November 1, 2022. Unpaid assessments will be assessed to the property tax roles begining in tax year 2023 with the following terms based on the amount of assessment::

0	Up to \$7,500	5 years
0	Over \$7,500	10 years

### RE: NICOLLET COUNTY DITCH NO. 79 -CORDES BERM

#### Dear Ms. Kopet,

ISG has reviewed the information discussed at the June 28, 2022, hearing and again at the July 12, 2022, closeout hearing in relation to Nicollet County Ditch No. 79 and the Cordes property berm. Mr. Ronald Cordes has stated that he did not want a berm on his property and that he would like the berm material spread out further into his property. It was brought to our attention at that meeting that Mr. Cordes asked for the berm material to be spread out at the preconstruction meeting. ISG staff, including Chuck Brandel, Chris Adams and Darin Howell, and Nicollet County Staff including Nathan Henry were on site on December 10, 2020, and approved the berm construction as originally planned including the location of the riprap overflow. There was another site meeting on December 22, 2020, with Chris Adams and Justin Rodgers from ISG, Nate Henry and Commissioner Luepke from Nicollet County, Ronald Cordes, and representatives from Molnau Trucking in attendance. During this meeting, the berm and gravel on the private road were discussed. The outcome of the meeting was that Molnau agreed to place gravel on the private drive and all parties agreed to leave the berm as constructed. At the February 8, 2022, Final Acceptance Hearing, Mr. Cordes opined that his yard was not draining properly and asked that the berm be removed.

At the June 28, 2022, hearing, the Board of Commissioners directed ISG to prepare a response as to how this should be addressed. At the July 12, 2022, meeting the board requested another proposal to discuss how to pay for the work. ISG has prepared an estimate of the work that Mr. Cordes wants completed on his property. This includes leveling the berm and reseeding the areas along the north/south stretch of open ditch from approximately Station 0+50 to Station 2+50. Based on ISG's cost estimate, the amount of work to be completed is \$4,980, with \$2,760 of that being grading and \$2,220 being seeding, with mobilization included with both. The grading plan and cost estimate are attached. ISG is working with contractors to get a bid for this work.

Typical drainage design for land adjacent to open drainage ditches is to have a berm and direct flow to a designated area along the top of the ditch to reduce erosion and limit areas where flow can go over the top of an open ditch and erode sideslopes. It is also standard practice to designate spoil areas and have a crown or berm on top of these spoil areas. This helps to reduce overland flow over the top of the ditch and provides areas for spoils to be put when ditches are cleaned. This information is outlined in the Minnesota Drainage Manual which was compiled by the Minnesota Board of Water Resources and can be found at the following link and attachment. <a href="https://drainage.pca.state.mn.us/index.php/B">https://drainage.pca.state.mn.us/index.php/B</a>. Engineering Requirements

ISG's position is that we communicated the proper design to the landowner and Drainage Authority on multiple occasions. It is also ISG's position that if the material is spread out, as demanded by Nicollet County and Mr. Cordes, it will not meet the applicable provisions of the 2017 Minnesota Drainage Manual for ditch design per the attached information. If required to proceed in this manner by removing the berm, ISG and Engineer Brandel expressly disclaim any responsibility for such work, any additional work, and any erosion caused by having overland flow occur over this entire section of open ditch, or Mr. Cordes' property and beyond. That being said ISG will cover the costs to proceed to remove the berm and have this area seeded. It is ISG's opinion that seeding costs should be a ditch system cost, since the material if moved in this manor requested would have disturbed more area; however, ISG will cover these costs strictly as an accommodation to complete this project. ISG will not cover costs for any landowner damages.

ISG has reached out to Mr. Cordes, and we discussed the grading plan. I had previously reviewed the grading plan with Mr. Cordes after the June 28, 2022, hearing and we did incorporate his comments into the revised plan that is attached. In correspondence on July 20, 2022, I confirmed with him that we have the area covered that he is requesting to be graded. I did

ask Mr. Cordes if he will be at the July 26 hearing, and he stated that he will be there. I also asked that after the work is completed if his family would do maintenance on the seeding by mowing and spraying that it would help to establish. Mr. Cordes said they would do that as they are already maintaining that area. ISG will have Mr. Cordes on site to review the grading before it is completed.

ISG hopes that this letter provides the board with a response to the concerns and comments that were made at the July 12, 2002, hearing. ISG will be available to answer any further questions at the July 26, 2022, hearing.

Sincerely,

Child J. Bell

Chuck Brandel, PE Vice President <u>Chuck.brandel@ISGInc.com</u>

## SECTION 00 4100.01 ESTIMATED QUANTITIES

	TOTAL ENGINEEREING ESTIMA	TED QUA	NTITIES			
Item Code	Item	Unit	Estimated Quantity	В	Bid Price	Bid Amount
31.2316.1000.07	COMMON EXCAVATION - DITCH (P) (EV)	CY	230	\$	12.00	\$ 2,760.00
32.9219.1000.10	SEED MIX 25-142 WITH TYPE 3 MULCH	AC	0.6	\$	3,700.00	\$ 2,220.00
			Total Base Bid	\$		4,980.00

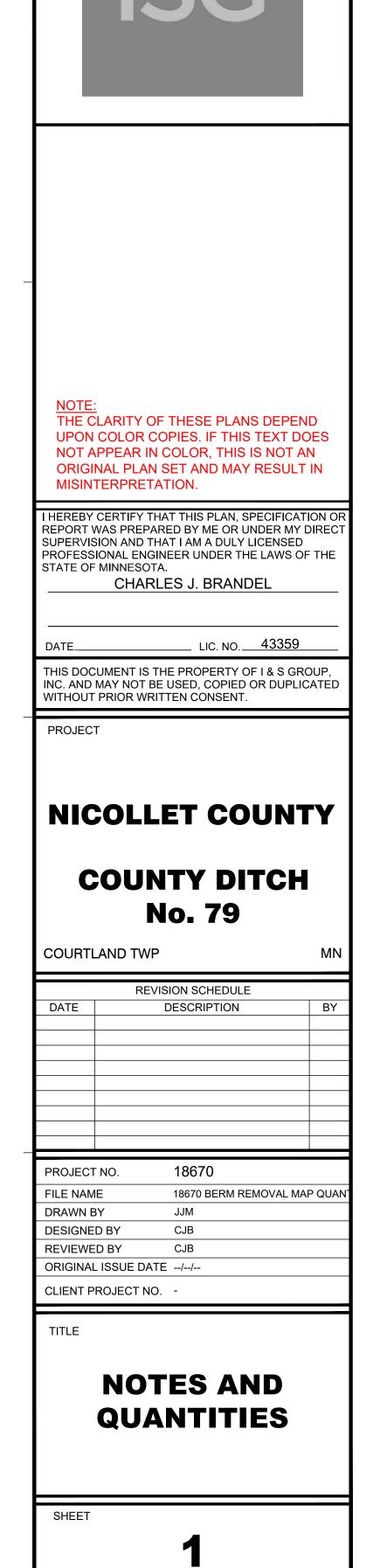
### GENERAL PROJECT NOTES:

- 1. DURING CONSTRUCTION, CONTRACTOR SHALL MAINTAIN A DRAINAGE OUTLET FOR THE ENTIRE CD 79 PROJECT AREA.
- 2. ALL ROAD SIGNAGE, COORDINATION, AND TRAFFIC CONTROL SIGNAGE SHALL BE INCIDENTAL TO ROAD RESTORATIONS AND SHALL CONFORM TO LOCAL ROAD AUTHORITY PERMITS AND REGULATIONS.
- 3. THE CONTRACTOR SHALL SUBMIT A WINTER CONSTRUCTION PLAN FOR SITE STABILIZATION, EROSION PREVENTION, AND SEDIMENT CONTROL IF THE PROJECT IS NOT COMPLETED BY OCTOBER 15 OF THE GIVEN CONSTRUCTION SEASON, UNLESS APPROVED BY THE ENGINEER. THE PLAN SHALL BE DEVELOPED TO SPECIFICALLY ADDRESS SHUTDOWN PROCEDURES OR ACTIVE CONSTRUCTION PLANS.
- 4. ALL DEWATERING FOR THE PROJECT IS INCIDENTAL.
- 5. PRODUCT MATERIAL SHALL BE AS SPECIFIED IN THE PLANS. IF NO SPECIFIC MATERIAL IS CALLED OUT, MATERIAL SHALL CONFORM TO THE APPROVED PRODUCT LIST IN THE APPROPRIATE SPECIFICATION.
- 6. ALL EFFORTS SHALL BE MADE DURING CONSTRUCTION TO SEPARATE SOIL TYPES. BACKFILL SHALL BE COMPACTED PRIOR TO PLACEMENT OF TOPSOIL, EXCEPT THE TOP TWO (2) FEET, FOR WHICH COMPACTION SHALL BE MINIMIZED TO THE EXTENT POSSIBLE. TOPSOIL SHALL BE PLACED TO A MINIMUM DEPTH OF 18", OR UNIFORM TO THE TOPSOIL DEPTH OF THE SURROUNDING AREA UNLESS SPECIFIED ELSEWHERE IN THE PLANS. EXCAVATED SPOILS SHALL BE SPREAD EVENLY IN CONSTRUCTION AREA AS TO NOT IMPEDE DRAINAGE. ALL EFFORTS SHALL BE MADE TO KEEP TOPSOIL ON TOP AND SEPARATED. NO TOPSOIL SHALL BE PLACED IN THE TRENCH BELOW 2' FROM EXISTING GROUND UNLESS APPROVED BY THE ENGINEER.
- ALL SPOIL LEVELING, GRADING, AND RESTORATION OF DISTURBED AREAS SHALL BE IN ACCORDANCE TO THE CONTRACT DOCUMENTS AND SHALL BE INCIDENTAL TO THE WORK UNLESS OTHERWISE SPECIFIED.
- 8. ALL SIGNS AND MARKERS SHALL BE PROTECTED OR REMOVED AND REINSTALLED AT NO ADDITIONAL COST TO THE PROJECT, UNLESS OTHERWISE SPECIFIED. THE ENGINEER SHALL BE NOTIFIED OF ANY SIGNS OR MARKERS IN POOR CONDITION PRIOR TO REMOVAL.
- 9. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITY TO WITHIN CONSTRUCTION EASEMENT AS NOTED IN PLANS UNLESS APPROVED BY ENGINEER.
- 10. A 16.5-FOOT GRASS STRIP SHALL BE ESTABLISHED IN AREAS THAT DO NOT HAVE AN EXISTING 16.5-FOOT GRASS STRIP. FINAL SEEDING SHALL OCCUR AFTER ALL WORK HAS BEEN COMPLETED IN THE AREA AND SHALL COMPLY WITH THE CONTRACT DOCUMENTS. TEMPORARY SEEDING MAY BE REQUIRED AND SHALL BE INCIDENTAL.
- 11. TOPSOIL IN TOPSOIL STRIP AREAS DESIGNATED ON THE PLANS SHALL BE STRIPPED PRIOR TO THE PLACEMENT OF FILL MATERIAL FROM DITCH EXCAVATION. TOPSOIL STRIP AREAS MAY ADJUST BASED ON ACTUAL TOPSOIL THICKNESS. RECLAIMING AND LEVELING OF THE TOPSOIL ON TOP OF THE SPOILS SHALL BE INCIDENTAL TO TOPSOIL STRIPPING.

TOTAL ESTIMATED QUANTITIES			
Item Code	Item	Unit	Estimated Quantity
31.2316.1000.07	COMMON EXCAVATION - DITCH (P) (EV)	CY	230
32.9219.1000.10	SEED MIX 25-142 WITH TYPE 3 MULCH	AC	0.6

### ABBREVIATIONS

AC ADD	ACRE ADDENDUM	GA GAL	GAUGE GALLON
AGG	AGGREGATE	GPM	GALLONS I
APPROX	APPROXIMATE	HDPE	HIGH DENS
BIT	BITUMINOUS	HORIZ	HORIZONT
CAD	COMPUTER-AIDED DESIGN	HR	HOUR
CFS	CUBIC FEET PER SECOND	HWL	HIGH WAT
CF	CUBIC FOOT	HWY	HIGHWAY
CL	CENTERLINE	HYD	HYDRANT
СМР	CORRUGATED METAL PIPE	1	INVERT
CONC	CONCRETE	ID	INSIDE DIA
CONST	CONSTRUCTION	IN	INCH
CONT	CONTINUOUS	INV	INVERT
CR	COUNTY ROAD	LF	LINEAR FEI
CSAH	COUNTY STATE AID	LIN	LINEAR
	HIGHWAY	LS	LUMP SUN
CY	CUBIC YARD	MAX	MAXIMUN
DI		MH	MANHOLE
	DIAMETER	MIN	MINIMUM
DIM	DIMENSION	MISC	MISCELLAN
EA	EACH	NO	NUMBER
	ELECTRICAL	NTS	NOT TO SC
ELEV	ELEVATION	NWL	NORMAL V
EOF	EMERGENCY OVERFLOW EQUAL	00	ON CENTE
EQ EX	EXISTING	OCEW	ON CENTE
EN FDN	FOUNDATION	OH	OVERHEAD
-DN -PM	FEET PER MINUTE	OHWL	ORDINAR'
=PIVI =PS	FEET PER SECOND	OZ	OUNCE
-F3 -T	FOOT, FEET	PERF PL	PERFORAT
I		۲L	PROPERTY



OF 4

E N NS PER MINUTE DENSITY POLYETHYLENE DNTAL	PP PSI PVC PVMT QTY RCP
VATER LEVEL /AY NT DIAMETER	RCP REBAR REM ROW R/W SCH SF SPEC SQ
R SUM IUM OLE UM LLANEOUS ER	STA SY TEMP THRU TRANS TV TYP
D SCALE AL WATER LEVEL NTER NTER EACH WAY IEAD IARY HIGH WATER E RATED RTY LINE	UT VCP W/O W/ YD YR

POLYPROPYLENE РР PSI POUNDS PER SQUARE INCH PVC POLYVINYL CHLORIDE VMT PAVEMENT QTY QUANTITY REINFORCED CONCRETE PIPE REBAR REINFORCING BAR REMOVE ROW RIGHT OF WAY K/W RIGHT OF WAY SCH SCHEDULE SQUARE FOOT SPEC SPECIFICATION SQUARE STATION SQUARE YARD TEMP TEMPORARY HRU THROUGH RANS TRANSFORMER TELEVISION ТҮР TYPICAL UTILITY, UNDERGROUND TELEPHONE VITRIFIED CLAY PIPE N/0 WITHOUT WITH YARD YEAR



ISG

NOTE: THE CLARITY OF THESE PLANS DEPEND UPON COLOR COPIES. IF THIS TEXT DOES NOT APPEAR IN COLOR, THIS IS NOT AN ORIGINAL PLAN SET AND MAY RESULT IN MISINTERPRETATION.

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

_ LIC. NO. <u>43359</u>

THIS DOCUMENT IS THE PROPERTY OF I & S GROUP, INC. AND MAY NOT BE USED, COPIED OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.

# **NICOLLET COUNTY**

# **COUNTY DITCH** No. 79

COURTLAND TWP

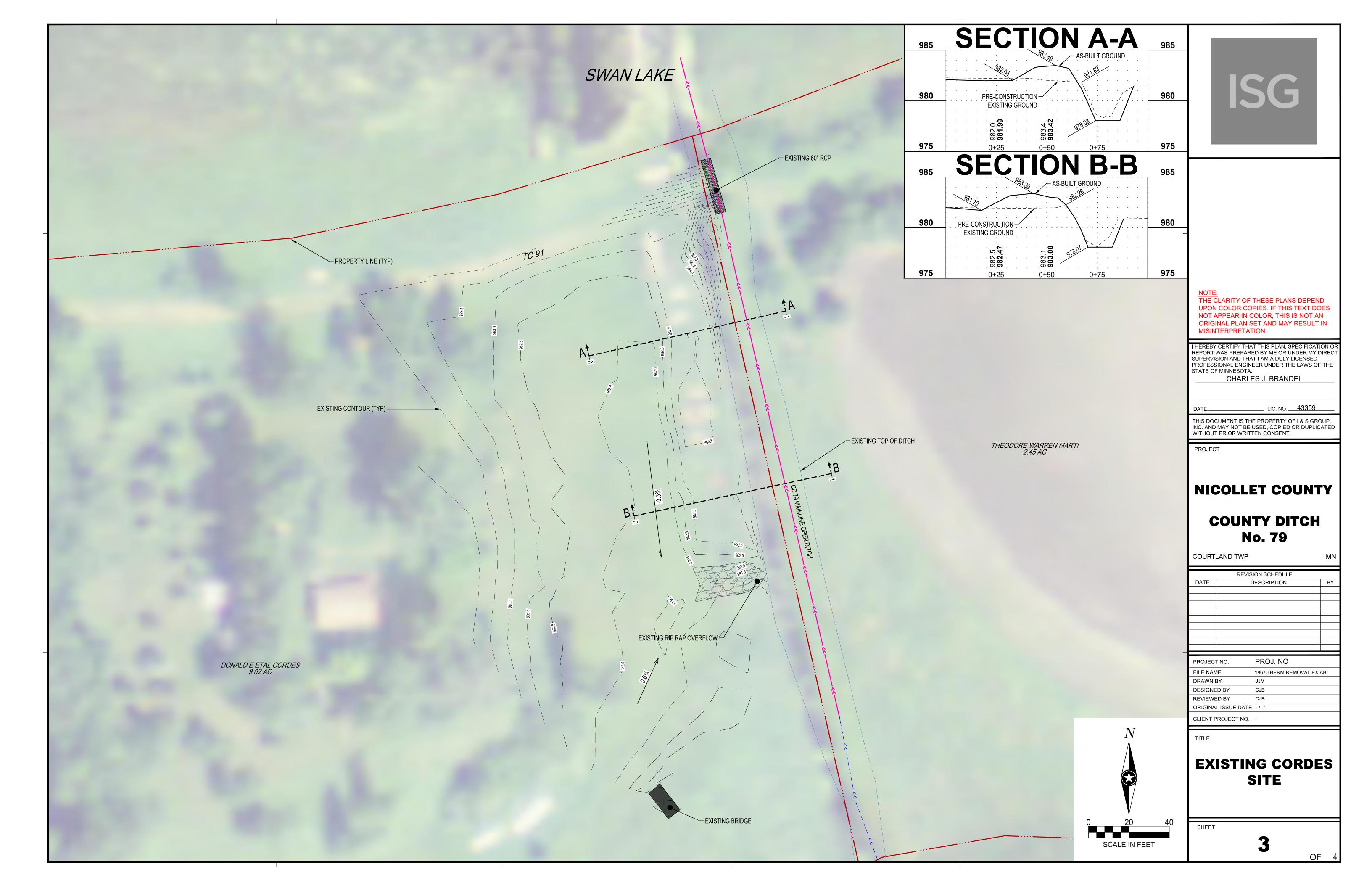
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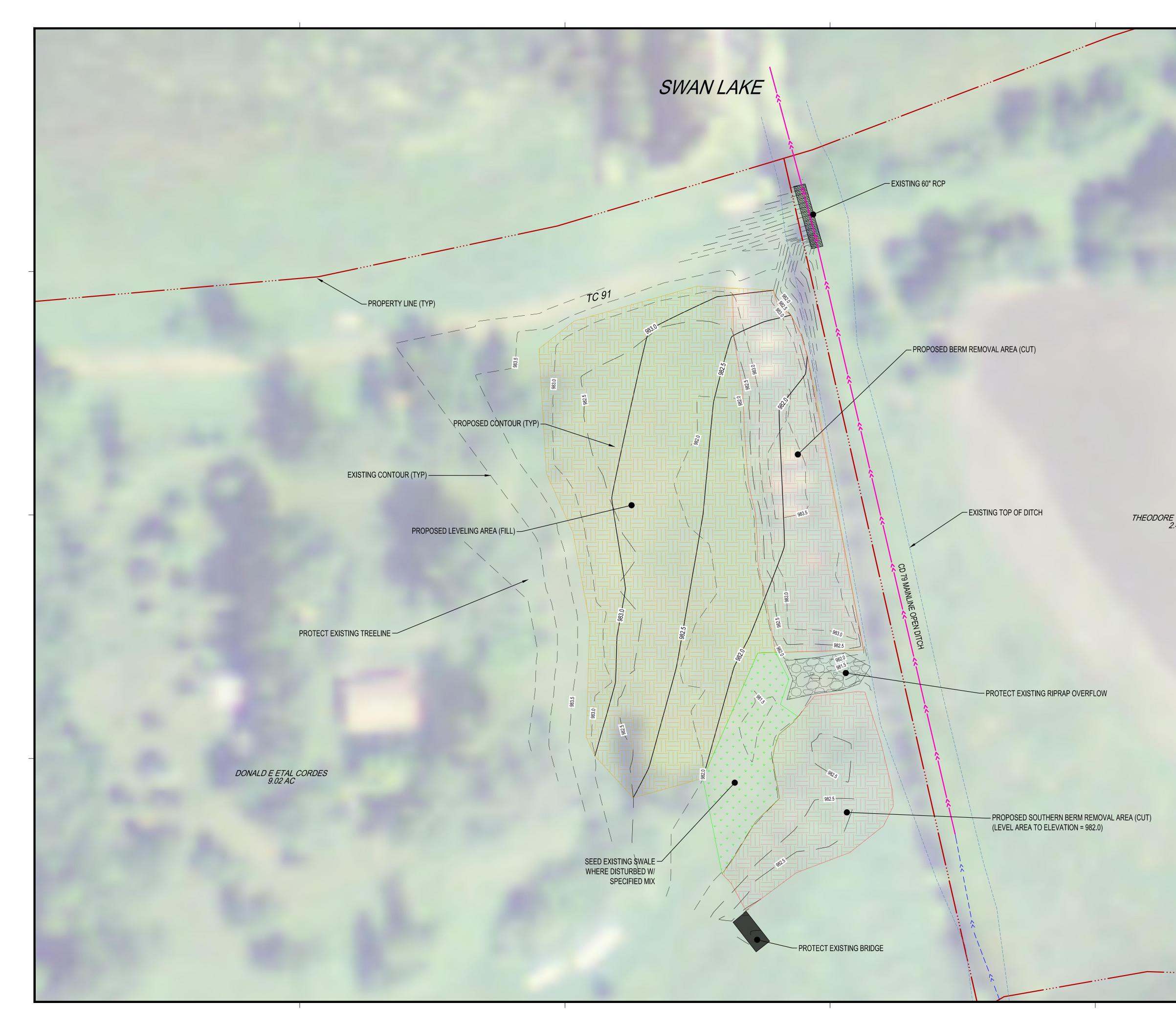
	REVIS	ION SCHEDULE	
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ORIGINAL	ISSUE DATE	//	

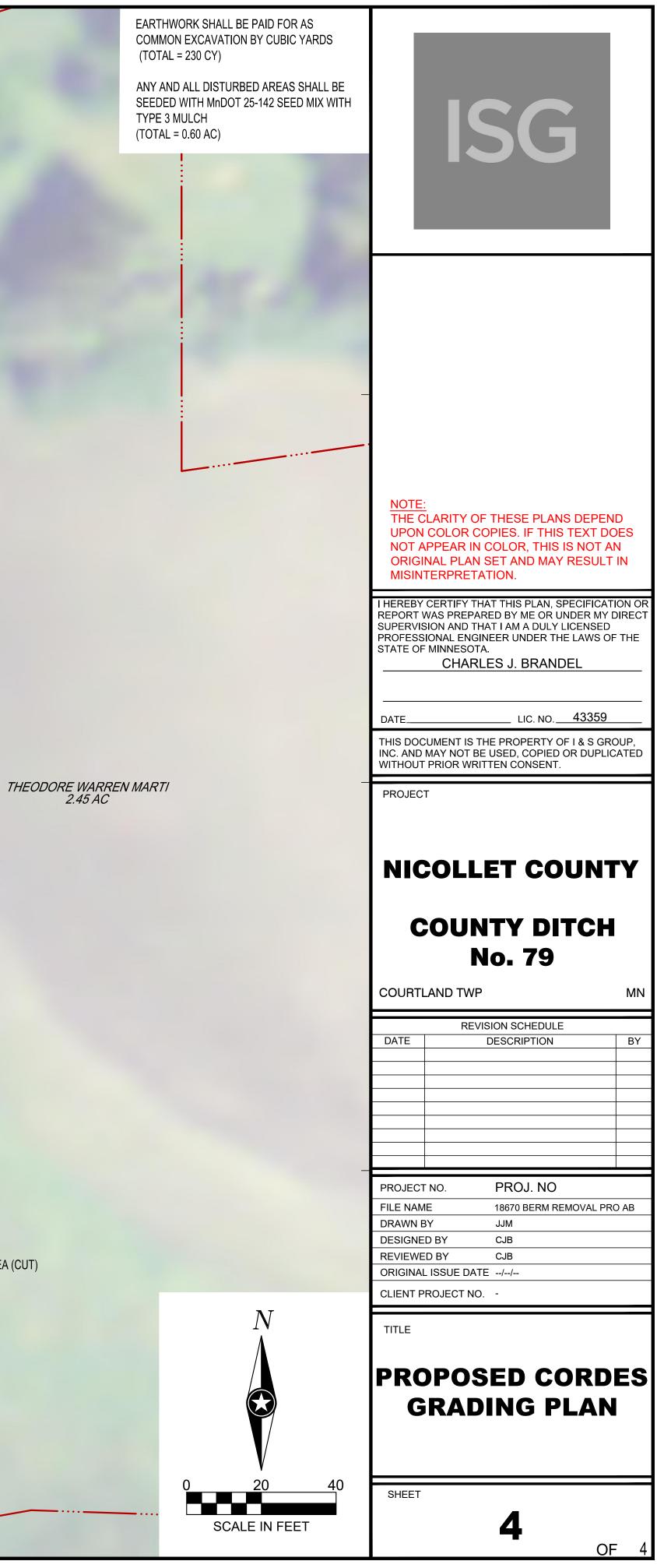
# **PROJECT AREA** MAP

2

OF 4









## **B.** Engineering Requirements

Contents	
<ul> <li>1.1 1.</li> <li>1.2 2.</li> <li>1.3 3.</li> <li>1.4 4.</li> <li>1.5 5.</li> <li>1.6 6.</li> <li>1.7 7.</li> </ul>	ering Requirements Hydrologic and Hydraulic Analysis Ditch/Channel Hydraulic Design Bridge/Culvert Hydraulic Analysis and Design Erosion Control for Drainage Water Entry to a Public Ditch Miscellaneous Structures Channel Geometry Vegetated Ditch Buffer Strips 1.7.1 FOOTNOTES

### **B.** Engineering Requirements

The engineer in response to a drainage project petition is responsible for recommending a practical drainage project (as defined in **Minn. Stat. § 103E.005** (https://www.revisor.mn.gov/statutes/?id=103E.005) and listed in items 1-4 in **A. General** (http://drainage.pca.state.mn.us/index.php/A._General_(Section_3VI))) design, to inform the drainage authority in the preliminary report on issues related to feasibility and present a fully defined constructible drainage project in the detailed survey report ordered by the drainage authority. **Section III** (http://drainage.pca.state.mn.us/index.php/III._Preliminary_Survey_and_En gineer%27s_Preliminary_Report) and **Section IV** (http://drainage.pca.state.mn.us/index.php/IV._Detailed_Survey_and_Engineer%27s_Final_Report) in this chapter provide guidance to the engineer for conducting the required surveys and preparing the necessary reports. The following section identifies additional detailed recommendations related to engineering tasks for specific project types. It is recommended that the described engineering efforts be documented in both the engineer's preliminary survey report and the engineer's detailed survey report in accordance with present engineering practice.

#### 1. Hydrologic and Hydraulic Analysis

According to Minn. Stat. § 103E.015, Subd. 1 (4) (https://www.revisor.mn.gov/statutes/?id=103E.015), the engineer is required to consider the flooding potential on and downstream of the drainage system as related to a proposed drainage project (i.e., for the 5-, 10-, 25-, and 50-year flood events). Standard engineering practice in Minnesota has generally favored a 2-year to 10-year return period for drainage ditch design.

Note: While it is not required by Chapter 103E, it is also important to understand the effects of a catastrophic flood event (e.g. the 100-year flood), particularly when a local government's floodplain ordinance comes into play. Therefore, it is recommended that the engineer's preliminary report contain an evaluation of the effects of the project for multiple flood events including those required for design, as outlined in **Minn. Stat. § 103E.015** (https://www.revisor.mn.gov/statutes/?id=103E.015), and for catastrophic events.

#### 2. Ditch/Channel Hydraulic Design

#### 7/20/22, 9:13 AM

#### B. Engineering Requirements - Minnesota Public Drainage Manual

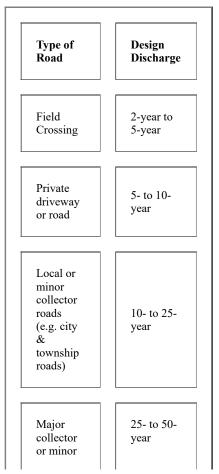
Once the engineer selects the design discharge, the channel dimensions, slope, and hydraulic properties are calculated by an appropriate method. For medium to large size projects, a design water surface profile should be developed from the project outlet to the upper end of the system. Commonly accepted hydraulic models for calculating water surface profiles include the U.S. Army Corps of Engineers' HEC-RAS model, the Environmental Protection Agency's SWMM model and a variety of proprietary models based on the historic Soil Conservation Service's ² TR-20 Model.

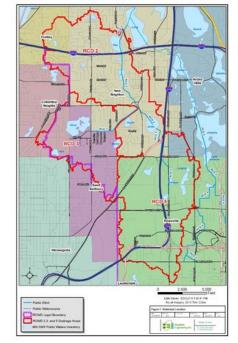
Normal depth calculation results, for various flood events, and for all design reaches within the system, can be recorded in tabular form in the engineer's report(s). Velocities, flow depths, and soil types should be checked at all critical points in and along the course of the system to insure that erosion potential is within acceptable ranges, and that the maximum water surface profile does not adversely hamper the project's drainage function. Recommended design velocities may be found in Part 650 of the NRCS National Engineering Field Handbook: Chapter 14 – Water Management (Drainage) (http://directive s.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17551.wba).

#### 3. Bridge/Culvert Hydraulic Analysis and Design

Centerline structures (bridges and culverts) are required at many points along a drainage system. The proper design discharge for these structures is a function of the type of crossing (county road, township road, private crossing, etc.), and the upstream or downstream damage potential (buildings, grain storage, etc.).

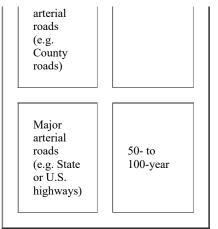
The engineer must select a design discharge which is most appropriate for the condition of a specific centerline structure's location. This generally involves a risk assessment of damage potential, balanced against structure costs. Commonly used design discharges are as follows:





The engineer is required to consider the flooding potential on the downstream of the drainage system as related to a proposed drainage project.

#### 7/20/22, 9:13 AM



B. Engineering Requirements - Minnesota Public Drainage Manual

Note that 100-year or greater protection may be required when a road or highway is the primary/only access into a developed area and inundation would prevent safe access to properties. The **MnDOT Drainage Manual** (http://www.dot.state.mn.us/bridge/hydraulics/drainagemanual.html) provides additional guidance for appropriate design frequencies.³

The engineer must also check to see that the proposed structure will adequately pass the proposed drainage system's design flow without adversely affecting the drainage system's performance. Other hydraulic design items of concern are maximum culvert velocity (erosion and scour potential) and headwater - tailwater conditions (stage increase).

There are many methods and publications available for the hydraulic analysis of bridges and culverts. The *MnDOT Drainage Manual* is the foremost publication in the State of Minnesota for the hydraulic design of bridges and culverts. The Federal Highway Administration also has two publications which may be consulted for bridge and culvert analysis: **"Hydraulic Design Series No. 7" (Ref. 11)** (http://www.fhwa.dot.gov/engineering/hydraulics/library_listi ng.cfm), for bridges, and **"Hydraulic Design Series No. 5,"** (http://www.fhwa.dot.gov/engineering/hydraulics/library_listi ng.cfm) for culverts. Many hydraulic design programs are capable of completing acceptable bridge and culvert hydraulic design calculations. It is critical for the design engineer to understand the limitations of each model prior to beginning the design. At a minimum, the modeling or evaluation methods should consider the effects of the downstream water surface (i.e. tailwater), the inlet capacity, and hydraulic losses through the structure. Bridge and culvert hydraulic design results should be documented in tabular form in the engineer's report(s). Click **here** (http://drainage.pca.state.mn.us/index.php/Appendix_10:_Table_of_Structures_Hydraulic Results) for a suggested format for such a table.

### 4. Erosion Control for Drainage Water Entry to a Public Ditch

There are multiple ways that drainage water enters into a public drainage ditch: tile outlets, ditch outlets, drainageway outlets, side inlets, and sheet flow. The engineer will need to consider erosion and sedimentation control measures for each type of entry (see **Chapter 5** (http://drainage.pca.state.mn.us/index.php/Chapter_5)).

Each entry location will have unique characteristics such as conveyance type, size of tributary watershed, elevation of contact with the ditch, potential for erosion of or by the drainage water conveyance, and the velocity of the flow.

Side inlets are any concentrated drainage water entry from the field to the public ditch. When the side inlet is a drainageway formed by nature or by the landowner in existing soil, it can be a significant source of sediment. The sediment can come from the field via overland flow, from headcutting of the drainage way, and from erosion of the drainageway. Side inlet controls are used when there is an excessive drop in elevation from the field or natural ground level to the ditch bottom. Drainage Law allows for incremental implementation of side inlet controls (Minn. Stat. § 103E.021, Subd 6. (https://www.revisor.mn.go v/statutes/?id=103E.021)), "to control erosion and sedimentation, improve water quality, or maintain the efficiency of the drainage system". They are most often owned and maintained by the system. The NRCS provides a design standard for side inlet controls in their *Field Office Technical Guide* (Grade Stabilization Structure, Code 410 (https://efotg.sc.egov.usda.gov/references/public/KS/410sd.pdf)).

Note: It is recommended, but not required that the engineer when possible use an alternative side inlet control design that provides water detention for trapping sediment and incremental reduction of ditch flood peaks and is constructed on the edge of the field.



An example of a new culvert placed in the field.

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Side inlet controls are also used in conjunction with flap gates (flood gates) to prevent backflow from the ditch system onto adjacent property when water level stages in the ditch are higher than the adjacent natural topography. The decision to use flap gates is based on a water surface profile and backflow history. Ditch inlets are sometimes shown on the preliminary plan and profile drawings even though side inlet control locations are usually field sited during construction.

Note: It is recommended but not required that a tabulation of side inlet control pipe quantities should be included in the engineer's report(s) as part of the itemized cost estimate.

When surface water from larger watersheds are tributary to a ditch, it may be necessary to use a rock weir and/or a rock chute design. A rock chute design spreadsheet can found in **Appendix 11** (http://drainag e.pca.state.mn.us/index.php/Appendix_11:_Rock_Chutes_Design_Guidelines_and_Design_Spreadsheet).

#### 5. Miscellaneous Structures

Specific project requirements may dictate the use of special purpose structures for erosion control (e.g. drop structures and riprap), sediment control (e.g. sediment basins and BMPs) and flood control (e.g. water level control structures and detention basins). Hydraulic design of these structures is of a specialized nature, and their design and/or requirement is not specifically addressed within **Minn. Stat. § 103E** (https://www.revisor.mn.gov/statutes/?id=103E). Therefore, the design of these structures is not discussed in detail within this manual.

#### 6. Channel Geometry

Channel dimensions are generally a function of hydraulic design requirements. However, side slopes for the trapezoidal shaped ditch can be dictated by other factors. Soil slope stability considerations may dictate flatter side slopes to prevent sloughing. An acceptable design side slope, which is consistent with soil stability, can be determined by a geotechnical analysis of soil boring samples taken along the ditch alignment.

However, the engineer can base the design of the side slope on past experience in the area with acceptable risk. This is a commonly accepted practice in Minnesota. Slope stability can also be enhanced by spreading the ditch excavation spoil in a thin layer along the ditch bank or by leaving a berm.

Other factors affecting the design ditch side slope include:

- The amount of right-of-way necessary (economic);
- Ease of maintenance for tractors and mowers;
- Minimization of snow blockage (early spring opening);
- Vehicle recovery zone safety; and
- Regional practices

#### 7. Vegetated Ditch Buffer Strips

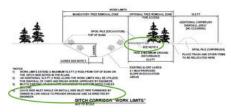
The drainage code requires in **Minn. Stat. § 103E.021, Subd. 1** (https://www.revisor.mn.gov/statutes/?id=103E.021), that, in any proceeding to establish, construct, improve, or do any work affecting a public drainage system under any law that appoints viewers to assess benefits and damages, the authority having jurisdiction over the proceeding shall order spoil banks to be spread consistent with the plan and function of the drainage system. The permanent strips of perennial vegetation must be a minimum of one rod (16.5 feet) in width measured from the top edge of the constructed channel, or to the crown of the leveled spoil bank (whichever is greater).

The above requirement applies whenever viewers are appointed for new ditch construction or modifications to existing drainage systems. Since some Repair proceedings require viewers to assess benefits and damages, repairs completed under those circumstances must provide for the grass buffer strip.

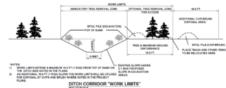
Note: Minn. Stat. § 103F.48 Subd. 3 (https://www.revisor.mn.gov/statutes/?id=103F.48) requires the establishment of a 16.5-foot-wide buffer along any Chapter 103E ditch prior to November 1, 2018. Therefore, it is recommended that buffers be established in conjunction with any public drainage system project per the compliance required under this statute. More information regarding the applicability of this statute in relation to Minn. Stat. § 103F.48 (https://www.revisor.mn.gov/statutes/?id=103F.48) is found in Appendix 12 (http://drainage.pca.state.mn.us/index.php/Appendix_12: _Drainage_Law, _Buffer_Law, _and_Public_Drainage_Ditch_Buffer_Strips_(BWSR_Drainage_Work_Group)).

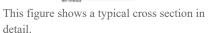
The figure below illustrates the grass buffer strip requirement described in Drainage Law. The top and middle portions of this figure represent a typical open field public ditch commonly found along property lines or some other location. The top portion of Figure 3-3 illustrates that more than 16 1/2 feet of grassed strip is mandated because the grass buffer strip must go to 16 1/2 feet from the top of the ditch bank, or **to the crown of spoil bank**, whichever is the greater of the two. In the middle example, the top of bank to crown of spoil is less than the minimum of 16 1/2 feet; the grass buffer strip must therefore extend beyond the crown of spoil to get the required 16 1/2 foot width.

When a road is located adjacent to an open ditch, the situation becomes less clear, as shown in the bottom illustration of the figure. The buffer for the field side of the ditch follows as stated above. However, on the roadway side it may be infeasible to establish a full buffer (or any buffer at all) at the top of the ditch bank due to the proximity of the roadway. In such situations, we must consider the intent of the grassed buffer strip provision, which is to minimize wind-blown topsoil from entering the ditch, prevent agricultural encroachment, and to minimize washing soil into the ditch. Because the roadway by its very nature serves these purposes, and since it would be infeasible to establish the buffer under these circumstances, no grassed strip



This figure shows a side inlet in detail.





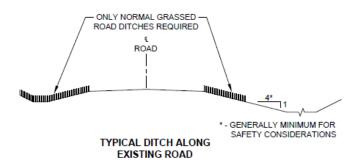
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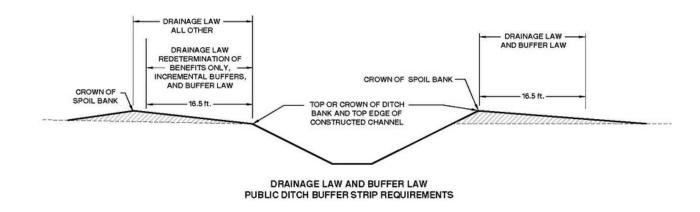
need be required along the roadway side of the open ditch.

Chapter 5 (http://drainage.pca.state.mn.us/index.php/Chapter_5) provides additional information on the design of the buffer strip, including type of vegetation and prevention of erosion prior to establishment.



Since some Repair proceedings require viewers to assess benefits and damages, repairs completed under those circumstances must provide for the grass buffer strip per Minn. Stat. 103E. *Photo courtesy of BWSR*.





#### FOOTNOTES

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^{2.} Subsequent to the development of the TR-20 model, the Soil Conservation Service was reestablished as the "Natural Resource Conservation Service" (NRCS). The historic TR-20 is no longer supported by the NRCS. However, the SCS method of unit hydrograph generation and the TR-20 routing methodology are still utilized by many proprietary hydrology and hydraulics models.

^{3.} The *Mn/DOT Drainage Manual* specifies design criteria which are required for state-aid funded projects and roadways. These design criteria are not required for most public drainage system construction but serve as a good starting point for establishing design criteria on a drainage project.

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